Tracking Number: nAB1902541117/nAB1906052173/nAB1909160291
Remediation and Closure Report
Culebra Bluff SE 5 32 Fed Com 3
Brine Water, Oil Based Drilling Mud and Diesel Fuel Releases
Eddy County, New Mexico

Latitude: N 32.240410°
Longitude: W -104.010122°

LAI Project No. 19-0180-07

April 26, 2024

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1.0 INTRODUCTION

Larson & Associates, Inc. (LAI), has prepared this closure report on behalf of Chevron USA Inc. (Chevron) for submittal to the New Mexico Oil Conservation Division (OCD) District II for diesel-based mud, brine water and oil-based mud releases at the Culebra Bluff SE 5 32 Fed Com 3 (Site) located in Unit N (SE/4, SW/4), Section 5, Township 24 South, Range 29 East in Eddy County New Mexico. The geodetic position is North 32.240410° and West -104.010122°. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

1.1 Background

The diesel-based mud release (nAB1902541117) was discovered on January 10, 2019, due to a 3" transfer hose swedge fitting popping out and causing a release to secondary containment (lined drill pad). Chevron reported that approximately 16 barrels (bbls) of water and diesel-based mud were released with 16 bbls recovered. The affected area measured approximately 873 square feet. The initial C-141 was submitted to the NMOCD District II on January 24, 2019.

The brine water release (nAB1906052173) was discovered on February 1, 2019, due to a tank overfilling while transferring brine water from a vacuum truck to a storage tank. Chevron reported that approximately 10 bbls of brine water was released, with 7 bbls recovered. The affected area measured approximately 857 square feet. The initial C-141 was submitted to the NMOCD District II on February 21, 2019.

The oil based mud release (nAB1909160291) was discovered on February 20, 2019, due to the cuttings box door not being properly secured, which resulted in 27.30 bbls of oil-based mud being released to the secondary containment (lined drill pad). Chevron reported that 27.30 bbls of oil-based mud was recovered. The affected area measured approximately 1,157 square feet. The initial C-141 was submitted to the NMOCD District II on February 26, 2019. Appendix A presents the C-141's for the three (3) releases (nAB1902541117/nAB1906052173/nAB1909160291).

1.2 Physical Setting

The physical setting is as follows:

- The surface elevation is approximately 3,017 feet above mean sea level (msl).
- The surface topography decreases to the west.
- There are no surface water features within 1,000 feet of the Site.
- Karst data provided by the USGS describes the site as "Medium Risk" potential.
- The soils are designated as "Upton gravelly loam, 0 to 9 percent slopes", consisting of 0 to 13 inches of gravelly loam, underlain by 13 to 21 inches of cemented material, and 21 to 60 inches of very gravelly loam, in descending order.
- The geology consists of Piedmont alluvial deposits (Holocene to lower Pleistocene) and may locally include uppermost Pliocene deposits.
- Groundwater occurs at approximately 70.30 feet below ground surface (bgs) based on depth to groundwater measurements 72 hours after installing a boring (GWB-1) on November 23, 2020.

Appendix B presents the karst risk potential map. Appendix C presents the GWB-1 boring log. Figure 3 presents an aerial map showing the water well locations.

1.3 Remediation Action Levels

The following remediation standards are based on closure criteria for soils impacted by a release as presented in Table 1 of 19.15.29 NMAC:

- Benzene 10 mg/Kg
- BTEX 50 mg/Kg
- TPH 2,500 mg/Kg
- Chloride 10,000 mg/Kg

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

2.0 DELINEATION

On November 18, 2019, LAI personnel used a stainless-steel hand auger to collect surface soil samples from twenty-three (23) locations inside and outside of the spill areas (S-1 through S-23). The samples were collected from 0 to 0.5 foot bgs. The soil samples were delivered under chain of custody (COC) and preservation to Permian Basin Environmental Laboratory (PBEL) in Midland, Texas. The laboratory analyzed the samples for benzene, toluene, ethylbenzene and xylenes (BTEX) and total petroleum hydrocarbons (TPH), including gasoline range organics (C6-C12), diesel range organics (>C12-C28) and oil range organics (>C28-C35), and chloride by EPA SW-846 Methods 8021B and 8015M, and M300, respectively. Benzene and BTEX were reported below the remediation action levels of 10 milligrams per kilogram (mg/Kg) and 50 mg/Kg, respectively, in all samples. TPH was reported above the remediation action level (100 mg/Kg) in the following samples:

S-2 (14,500 mg/Kg)
S-3 (236 mg/Kg)
S-4 (3,260 mg/Kg)
S-5 (198 mg/Kg)
S-6 (527 mg/Kg)
S-7 (330 mg/Kg)
S-8 (113 mg/Kg
S-9 (265 mg/Kg)
S-10 (194 mg/Kg)
S-11 (229 mg/Kg)
S-12 (575 mg/Kg)
S-13 (545 mg/Kg)
S-15 (1,610 mg/Kg)
S-16 (27,500 mg/Kg)
S-17 (1,570 mg/Kg)
S-18 (504 mg/Kg)
S-19 (458 mg/Kg)
S-20 (5,340 mg/Kg)
S-21 (16,500 mg/Kg)
S-22 (12,000 mg/Kg)

Chloride was reported above the remediation standard (600 mg/Kg) in the following samples:

S-1 (3,790 mg/Kg)
S-2 (1,790 mg/Kg)
S-3 (1,540 mg/Kg)
S-5 (1,610 mg/Kg)
S-6 (5,550 mg/Kg)
S-7 (7,130 mg/Kg)

S-4 (6,770 mg/Kg)	S-8 (2,940 mg/Kg)
S-9 (6,350 mg/Kg)	S-16 (7,360 mg/Kg)
S-10 (5,120 mg/Kg)	S-17 (10,700 mg/Kg)
S-11 (1,160 mg/Kg)	S-18 (7,090 mg/Kg)
S-12 (1,330 mg/Kg)	S-19 (1,120 mg/Kg)
S-13 (3,720 mg/Kg)	S-20 (5,590 mg/Kg)
S-14 (640 mg/kg)	S-21 (4,720 mg/Kg)
S-15 (2,520 mg/Kg)	S-22 (3,270 mg/Kg)

On December 17, 2019, LAI personnel used the Geoprobe 7822DT direct push rig to vertically delineate the above-mentioned sample locations. Soil samples were collected at five (5) and seven (7) feet bg s depending on subsurface conditions. During this sampling event, two (2) additional sample locations (S-24 and S-25) were added to the north and east of the spill areas to complete the horizontal delineation. Soil samples were collected from 0 to 0.5 feet bgs and 0.5 to 1-foot bgs. Laboratory analysis reported nineteen (19) sample locations (S-1 through S-8, S-10 through S-18, S-21, and S-22) remained above the NMOCD delineation requirements for chloride of 600 mg/Kg.

On January 28 and 29, 2020, Scarborough Drilling, Inc. (SDI) under supervision from LAI personnel used an air rotary drilling rig to continue the vertical delineation at the previously stated nineteen (19) sample locations. Soil samples were collected in five (5) foot intervals to a maximum depth of approximately twenty (20) feet bgs. Laboratory analysis reported eleven (11) sample locations (S-1 through S-5, S-7, S-8, S-11, S-12, S-15, and S-21) remained above the NMOCD delineation requirement for chloride.

On June 30, 2020, SDI under supervision from LAI personnel drilled thirteen (13) additional bore hole sample locations (BH-1 through BH-13) encompassing all three (3) releases. The borings were drilled to a maximum depth of approximately seventy (70) feet bgs. One sample location (BH-2) remained above the NMOCD delineation requirement for chloride at 655 mg/Kg at seventy (70) feet bgs.

On May 3, 2021, during a conference call with NMOCD (Bradford Billings) regarding the elevated chloride concentration at BH-2 at depths of 60, 65, and 70 feet bgs, NMOCD stated that the chloride concentrations have "*the potential to be influenced by the nearby potash mine located about 0.46 miles northwest. The chloride concentrations from BH-1 and BH-2 at the depth interval between about 25 and 55 feet bgs display concentrations that are analogous to the concentrations between 60 and 70 feet bgs. Additionally, Chevron will remediate the spill area in accordance with NMOCD closure criteria for groundwater at 70.30 feet bgs. Chevron requests concurrence from the OCD for the chloride delineation at sample location BH-2 to be fully delineated*". On May 4, 2021, a follow up telephone conversation, NMOCD (Bradford Billings) confirmed that the site was "*satisfactorily vertically delineated, and the reported depth of groundwater at about 70 feet is adequate to calculate closure criteria"*. Table 1 presents the soil sample analytical data summary. Figure 2 presents an aerial map showing the soil sample locations. Figure 4 presents an aerial map showing the proposed excavations. Appendix B presents the laboratory reports. Appendix D presents the NMOCD communications.

3.0 REMEDIATION AND RECLAMATION

In January 2022, Rocky Peak, Inc. (Rocky Peak) under supervision from LAI personnel began excavating soil to a depth of 4.1 feet bgs encompassing the following sample locations S-1 through S-7, S-9, S-11, S-12, S-14 through S-22, and BH-3 through BH-13 measuring approximately 9,321 square feet. Additionally, soil was excavated to a depth of six (6) feet bgs encompassing the following sample locations S-8, S-10, S-13, BH-1, and BH-2 measuring approximately 1,555 square feet. Contaminated soil was stockpiled on a liner prior to being hauled to the R360 Red Bluff disposal facility located approximately 13 miles northwest of Orla, Texas.

On January 7 and 12, 2022, LAI personnel collected five-point composite samples for every 200 square feet of the excavation. Eighty-three (83) composite bottom and sidewall confirmation soil samples (C-1 through C-83) were collected from within the excavated areas. The samples were delivered under COC and preservation to Eurofins – Xenco Laboratory (Xenco) in Midland, Texas. The laboratory analyzed the samples for BTEX, TPH, and chloride by EPA SW-846 Methods 8021B and 8015M, and M300, respectively. Laboratory analysis reported twenty-seven (27) sidewall confirmation soil samples (C-2 through C-19, C-56, C-57, C-59, C-60, C-61, and C-63 through C-66) above the NMOCD closure criteria of 100 mg/Kg and 600 mg/Kg for TPH and/or chloride, respectively. Figure 5 presents an aerial map showing the January 2022 confirmation soil sample locations.

On January 25, 2022, an email was submitted to Bradford Billings (NMOCD) requesting clarification regarding the cleanup level for the Site, with groundwater being reported at a depth of approximately 70 feet bgs. Mr. Billings responded wiht "*If GW is between 51 and 100 feet bgs one can use the middle Tier for cleanup criteria for soils, which among other aspects are 2,500 mg/kg Total TPH (MRO, DRO and GRO) and chloride of 10,000 mg/kg or less…".*

During March 2022 Rocky Peak, under supervision from LAI personnel, excavated additional soil encompassing the above-mentioned twenty-seven (27) sidewall confirmation sample locations. LAI personnel field tested concurrently with excavation activities to determine if further excavation was necessary. As the sidewalls continued to expand, nine (9) additional bottom confirmation soil samples (C-84 through C-92) were collected. The excavation at sample locations C-6 through C-9 and C-13 through C-18 encompassing the diesel-based mud spill area and oil-based mud spill area that was extended an additional 25 to 35 feet east and north, was halted due to elevated chloride concentrations reported from field testing. Laboratory analysis of the remaining sample locations reported six (6) samples (C-2, C-4, C-5, C-59, C-60, and C-63) with chloride above the NMOCD closure criteria (600 mg/Kg).

On May 4, 2022, LAI personnel used the Geoprobe 7822DT direct push rig to collect background soil samples (BG-1 and BG-2) approximately 50 feet southeast on the production pad and north of the excavation in the pasture, respectively. Laboratory analysis of sample BG-1 reported chloride concentrations above the NMOCD delineation/closure criteria (600 mg/Kg) at a depth of approximately three (3) feet bgs at 810 mg/Kg, with the highest chloride concentrations reported on the production pad. LAI requested approval from the NMOCD to collect additional composite soil samples over the pad at sample locations BG-1 through BG-5 (A through E) to confirm if elevated chloride concentrations exist throughout the entirety of the production pad. During a phone call on August 24, 2022, NMOCD (Bradford Billings) granted approval for the background sampling. An email was subsequently sent where Mr. Billings requested additional samples be collected off the pad from unaffected area(s).

On November 14, 2022, SDI, under supervision from LAI personnel, collected soil samples at locations BG-1 through BG-5 (A through E) with an air rotary rig at depths of one (1), three (3), five (5), and ten (10) feet bgs and were composited per the approved plan. A composite soil sample was collected from each depth interval (i.e., one (1) foot) at sample locations A through E.

Laboratory analysis reported elevated chloride concentrations between 631 mg/Kg to 1,370 mg/Kg throughout the entirety of the production pad and off the pad at varying depths ranging from one (1) to ten (10) feet bgs. Furthermore, comparing the analytical data collected from the production pad vs off the pad at sample locations upgradient (BG-10) and downgradient (BG-11), demonstrates the pad was constructed with material with chloride concentrations greater than 600 mg/Kg. A background sample (BG-6), located approximately 40 feet east of the remediation area, reported chloride concentrations of 684 mg/Kg and 631 mg/Kg at depths of five (5) and ten (10) feet bgs, respectively. Chloride concentrations increased with depth at the background (BG-6) sample locations. Figure 6 presents an aerial map showing confirmation and background soil samples.
During November 2022, SDR Enterprises, LLC (SDR) excavated additional soil encompassing sample locations C-2, C-4, C-5 through C-9, C-12 through C-19, and C-60. Due to the distance in which the sidewall sample locations were excavated and the area in which these samples were located, new sample ID's (SW-2 through SW-8). Also, an additional twenty-six (26) bottom confirmation soil samples (C-93 through C-115) were collected from within the excavated areas. Laboratory analysis reported sidewall confirmation soil samples SW-2 through SW-8 above the NMOCD closure criteria for chloride.

An email was submitted to the NMOCD (Bradford Billings) on January 4, 2023, requesting a variance for sidewall sample locations where chloride concentrations remained above 600 mg/Kg. Sidewall confirmation soil samples where chloride concentrations remain above 600 mg/Kg range from 605 mg/Kg to 2,890 mg/kg, where one (1) sidewall sample location (SW-7) reported chloride concentration of 7,050 mg/kg. The variance request was denied by the NMOCD and requested additional soil be excavated encompassing the sample locations that remained above the NMOCD closure criteria.

During July 2023, SDR filled the excavation area with clean caliche obtained from a nearby borrow pit to allow for a workover rig to access the wells. The excavation was mapped with a Trimble Geo7x, which has a sub-one (1) foot accuracy. Also, drone photos were collected of the excavation areas prior to backfilling. LAI personnel collected fourteen (14) composite soil samples (BF-1 through BF-3 and BF-5 through BF-15) (Sample ID BF-4 was not used) of the backfill material. Xenco analyzed the samples for BTEX, TPH, and chloride. Benzene, BTEX, and TPH were reported below the method reporting limits (RLs). Chloride was above the NMOCD closure criteria of 600 mg/Kg samples collected at BF-1, BF-5, BF-6, and BF-7, therefore, no backfill material was obtained from these sample locations.

During February 2024 SDR, under supervision of LAI personnel, excavated additional soil encompassing sidewall sample locations SW-2 through SW-8, C-2, C-4, C-4, C-12, C-19, C-53, and C-63. LAI personnel field tested concurrently with excavation activities to determine if further excavation was necessary. An additional thirty-eight (38) bottom confirmation soil samples were collected in these excavation areas. Previously two (2) excavation areas were established to remediate these releases, but with the extension of the sidewalls, one (1) larger remediation/excavation area was established. Laboratory analysis reported all confirmation soil samples below the NMOCD closure criteria for chloride where groundwater occurs

between 51 and 100 feet bgs. Figure 7 presents an aerial map showing the confirmation soil sample locations, February 2024.

During March 2024 SDR backfilled the excavation with clean caliche obtained from the borrow pit previously used in July 2023. The production pad was watered and rolled/compacted to its original state. Figure 8 presents an aerial map showing the backfill sample locations. Appendix E presents the laboratory reports. Appendix F presents the photographic documentation.

4.0 CLOSURE REQUEST

Chevron requests no further action for nAB1902541117, nAB1906052173, and nAB1909160291.

Tables

Table 1
Delineation Soil Sample Analytical Data Summary
Chevron USA, Culebra Bluff
Eddy County, New Mexico
North 32.24039° West 104.01070°

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100**	**600**
S-1	0 - 0.5	11/18/2019	In-Situ	<0.00100	<0.00600	<26.6	<26.6	<26.6	<26.6	**3,790**
	5	12/17/2019	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	**2,020**
	7	12/17/2019	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	**1,790**
	10	1/28/2020	In-Situ	--	--	--	--	--	--	**1,470**
	15	1/28/2020	In-Situ	--	--	--	--	--	--	**999**
	20	1/28/2020	In-Situ	--	--	--	--	--	--	**1,070**
S-2	0 - 0.5	11/18/2019	In-Situ	<0.00100	<0.00600	403	13,700	393	**14,500**	**1,790**
	5	12/17/2019	In-Situ	<0.00202	<0.00202	<50.0	139	<50.0	139	**851**
	7	12/17/2019	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	**2,790**
	10	1/28/2020	In-Situ	--	--	--	--	--	--	**751**
	15	1/28/2020	In-Situ	--	--	--	--	--	--	**1,150**
	20	1/28/2020	In-Situ	--	--	--	--	--	--	**1,060**
S-3	0 - 0.5	11/18/2019	In-Situ	<0.00100	<0.00600	<26.3	183	52.9	**236**	**1,540**
	5	12/17/2019	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	**2,380**
	7	12/17/2019	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	**1,850**
	10	1/28/2020	In-Situ	--	--	--	--	--	--	**879**
	15	1/28/2020	In-Situ	--	--	--	--	--	--	**1,240**
	20	1/28/2020	In-Situ	--	--	--	--	--	--	**1,240**
S-4	0 - 0.5	11/18/2019	In-Situ	<0.00100	<0.00600	<27.2	2,190	1,070	**3,260**	**6,770**
	5	12/17/2019	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	**5,390**

Table 1
Delineation Soil Sample Analytical Data Summary
Chevron USA, Culebra Bluff
Eddy County, New Mexico
North 32.24039° West 104.01070°

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100**	**600**
	7	12/17/2019	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	**2,630**
	10	1/28/2020	In-Situ	--	--	--	--	--	--	**1,430**
	15	1/28/2020	In-Situ	--	--	--	--	--	--	**1,360**
	20	1/28/2020	In-Situ	--	--	--	--	--	--	**1,050**
S-5	0 - 0.5	11/18/2019	In-Situ	<0.00100	<0.00600	<26.0	139	59.1	**198**	**1,610**
	5	12/17/2019	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	**2,930**
	7	12/17/2019	In-Situ	<0.00198	<0.00198	<49.8	<49.8	<49.8	<49.8	**2,770**
	10	1/28/2020	In-Situ	--	--	--	--	--	--	**1,110**
	15	1/28/2020	In-Situ	--	--	--	--	--	--	**845**
	20	1/28/2020	In-Situ	--	--	--	--	--	--	**711**
S-6	0 - 0.5	11/18/2019	In-Situ	<0.00100	<0.00600	<26.3	417	110	**527**	**5,550**
	5	12/17/2019	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	**1,030**
	7	12/17/2019	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	**913**
	10	1/28/2020	In-Situ	--	--	--	--	--	--	**693**
	15	1/28/2020	In-Situ	--	--	--	--	--	--	521
S-7	0 - 0.5	11/18/2019	In-Situ	<0.00100	<0.00600	<27.5	243	87.2	**330**	**7,130**
	5	12/17/2019	In-Situ	<0.00201	<0.00201	<49.8	<49.8	<49.8	<49.8	**3,130**
	6	1/28/2020	In-Situ	--	--	--	--	--	--	**1,930**
	10	1/28/2020	In-Situ	--	--	--	--	--	--	**1,020**
	15	1/28/2020	In-Situ	--	--	--	--	--	--	**1,030**
	20	1/28/2020	In-Situ	--	--	--	--	--	--	**847**
S-8	0 - 0.5	11/18/2019	In-Situ	<0.00100	<0.00600	<26.6	84.3	28.9	**113**	**2,940**
	5	12/17/2019	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	**1,880**

Table 1
Delineation Soil Sample Analytical Data Summary
Chevron USA, Culebra Bluff
Eddy County, New Mexico
North 32.24039° West 104.01070°

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100**	**600**
	6	1/28/2020	In-Situ	--	--	--	--	--	--	**1,130**
	10	1/28/2020	In-Situ	--	--	--	--	--	--	**1,700**
	15	1/28/2020	In-Situ	--	--	--	--	--	--	**1,540**
	20	1/28/2020	In-Situ	--	--	--	--	--	--	**1,440**
S-9	0 - 0.5	11/18/2019	In-Situ	<0.00100	<0.00600	<26.6	189	76	**265**	**6,350**
	5	12/17/2019	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	**2,060**
	7	12/17/2019	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	293
S-10	0 - 0.5	11/18/2019	In-Situ	<0.00100	<0.00600	<26.3	139	55.4	**194**	**5,120**
	5	12/17/2019	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	**1,340**
	6	1/28/2020	In-Situ	--	--	--	--	--	--	325
S-11	0 - 0.5	11/18/2019	In-Situ	<0.00100	<0.00600	<26.0	162	67.1	**229**	**1,160**
	5	11/18/2019	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	**1,540**
	7	11/18/2019	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	**992**
	10	1/28/2020	In-Situ	--	--	--	--	--	--	**928**
	15	1/28/2020	In-Situ	--	--	--	--	--	--	**1,110**
	20	1/28/2020	In-Situ	--	--	--	--	--	--	**1,060**
S-12	0 - 0.5	11/18/2019	In-Situ	<0.00100	<0.00600	<26.0	432	144	**575**	**1,330**
	5	12/17/2019	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	**671**
	7	12/17/2019	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	**828**
	15	1/28/2020	In-Situ	--	--	--	--	--	--	**865**
	20	1/28/2020	In-Situ	--	--	--	--	--	--	**738**
S-13	0 - 0.5	11/18/2019	In-Situ	<0.00100	<0.00600	<25.8	410	135	**545**	**3,720**
	5	12/17/2019	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	**1,080**

Table 1
Delineation Soil Sample Analytical Data Summary
Chevron USA, Culebra Bluff
Eddy County, New Mexico
North 32.24039° West 104.01070°

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100**	**600**
	6	1/28/2020	In-Situ	--	--	--	--	--	--	382
S-14	0 - 0.5	11/18/2019	In-Situ	<0.00100	<0.00600	<27.2	42.8	<27.2	42.8	**640**
	5	12/17/2019	In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	**1,120**
	6	1/28/2020	In-Situ	--	--	--	--	--	--	589
S-15	0 - 0.5	11/18/2019	In-Situ	<0.00100	<0.00600	<26.6	1,270	342	**1,610**	**2,520**
	1	12/17/2019	In-Situ	<0.00200	<0.00200	<50.0	1,070	205	**1,280**	**4,960**
	2	1/28/2020	In-Situ	--	--	<49.9	171	<49.9	171	**751**
	5	1/28/2020	In-Situ	--	--	--	--	--	--	**1,140**
	10	1/28/2020	In-Situ	--	--	--	--	--	--	**823**
	15	1/28/2020	In-Situ	--	--	--	--	--	--	**721**
	20	1/28/2020	In-Situ	--	--	--	--	--	--	**722**
S-16	0 - 0.5	11/18/2019	In-Situ	<0.00100	<0.00600	<260	24,000	3,460	**27,500**	**7,360**
	1	12/17/2019	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	**1,470**
	2	1/29/2020	In-Situ	--	--	--	--	--	--	**966**
	5	1/29/2020	In-Situ	--	--	--	--	--	--	301
	10	1/29/2020	In-Situ	--	--	--	--	--	--	506
S-17	0 - 0.5	11/18/2019	In-Situ	<0.00100	<0.00600	<27.2	1,320	247	**1,570**	**10,700**
	1.5	12/17/2019	In-Situ	<0.00202	<0.00202	<49.8	703	<49.8	**703**	**6,040**
	2	1/29/2020	In-Situ	--	--	<50.0	<50.0	<50.0	<50.0	223
S-18	0 - 0.5	11/18/2019	In-Situ	<0.00100	<0.00600	<26.9	433	71.2	**504**	**7,090**
	2	12/17/2019	In-Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	**1,270**
	5	1/29/2020	In-Situ	--	--	--	--	--	--	63.8

Table 1
Delineation Soil Sample Analytical Data Summary
Chevron USA, Culebra Bluff
Eddy County, New Mexico
North 32.24039° West 104.01070°

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100**	**600**
S-19	0 - 0.5	11/18/2019	In-Situ	<0.00100	<0.00600	<25.8	363	94.6	**458**	**1,120**
	3	12/17/2019	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	34.9
S-20	0 - 0.5	11/18/2019	In-Situ	<0.00100	<0.00600	29.3	4,730	584	**5,340**	**5,590**
	3	12/17/2019	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	295
S-21	0 - 0.5	11/18/2019	In-Situ	<0.00100	<0.00600	<266	15,000	1,490	**16,500**	**4,720**
	5	12/17/2019	In-Situ	<0.00199	<0.00199	<49.8	96	<49.8	96	321
	10	12/17/2019	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	**1,770**
	11	1/28/2020	In-Situ	--	--	--	--	--	--	**900**
	15	1/28/2020	In-Situ	--	--	--	--	--	--	**805**
	20	1/28/2020	In-Situ	--	--	--	--	--	--	**1,230**
S-22	0 - 0.5	11/18/2019	In-Situ	<0.00100	<0.00600	<133	10,500	1,520	**12,000**	**3,270**
	3	12/17/2019	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	**1,400**
	5	1/29/2020	In-Situ	--	--	--	--	--	--	150
S-23	0 - 0.5	11/18/2019	In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	6.05
	0.5 - 1	12/17/2019	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	9.26
S-24	0 - 0.5	12/17/2019	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	24.8
	0.5 - 1	12/17/2019	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	22.6
S-25	0-0.5	12/17/2019	In-Situ	<0.00202	<0.00202	<49.8	<49.8	<49.8	<49.8	6.77
	0.5-1	12/17/2019	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<5.05
S-26	0-0.5	1/29/2020	In-Situ	<0.00202	<0.00202	<49.8	<49.8	<49.8	<49.8	594.0
	2	1/29/2020	In-Situ	<0.00199	<0.00199	--	--	--	--	--

Table 1
Delineation Soil Sample Analytical Data Summary
Chevron USA, Culebra Bluff
Eddy County, New Mexico
North 32.24039° West 104.01070°

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100**	**600**
	5	1/29/2020	In-Situ	<0.00200	<0.00200	--	--	--	--	--
S-27	0-0.5	1/29/2020	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	63.7
	0.5 - 1	1/29/2020	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	76.0
BH-1	20	6/30/2020	In-Situ	--	--	--	--	--	--	**881**
	25	6/30/2020	In-Situ	--	--	--	--	--	--	554
	30	6/30/2020	In-Situ	--	--	--	--	--	--	**953**
	35	6/30/2020	In-Situ	--	--	--	--	--	--	346
	40	6/30/2020	In-Situ	--	--	--	--	--	--	432
	45	6/30/2020	In-Situ	--	--	--	--	--	--	467
	50	6/30/2020	In-Situ	--	--	--	--	--	--	458
	55	6/30/2020	In-Situ	--	--	--	--	--	--	556
	60	6/30/2020	In-Situ	--	--	--	--	--	--	**680**
	65	2/9/2021	In-Situ	--	--	--	--	--	--	531
BH-2	20	6/30/2020	In-Situ	--	--	--	--	--	--	**923**
	25	6/30/2020	In-Situ	--	--	--	--	--	--	387
	30	6/30/2020	In-Situ	--	--	--	--	--	--	542
	35	6/30/2020	In-Situ	--	--	--	--	--	--	419
	40	6/30/2020	In-Situ	--	--	--	--	--	--	432
	45	6/30/2020	In-Situ	--	--	--	--	--	--	373
	50	6/30/2020	In-Situ	--	--	--	--	--	--	421
	55	6/30/2020	In-Situ	--	--	--	--	--	--	465
	60	6/30/2020	In-Situ	--	--	--	--	--	--	**617**
	65	2/9/2021	In-Situ	--	--	--	--	--	--	**601**
	70	2/9/2021	In-Situ	--	--	--	--	--	--	**655**

Table 1
Delineation Soil Sample Analytical Data Summary
Chevron USA, Culebra Bluff
Eddy County, New Mexico
North 32.24039° West 104.01070°

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100**	**600**
BH-3	20	6/30/2020	In-Situ	--	--	--	--	--	--	396
	25	6/30/2020	In-Situ	--	--	--	--	--	--	307
	30	6/30/2020	In-Situ	--	--	--	--	--	--	274
	35	6/30/2020	In-Situ	--	--	--	--	--	--	370
	40	6/30/2020	In-Situ	--	--	--	--	--	--	265
BH-4	20	6/30/2020	In-Situ	--	--	--	--	--	--	**711**
	25	6/30/2020	In-Situ	--	--	--	--	--	--	300
	30	6/30/2020	In-Situ	--	--	--	--	--	--	389
BH-5	20	6/30/2020	In-Situ	--	--	--	--	--	--	**1,550**
	25	6/30/2020	In-Situ	--	--	--	--	--	--	331
	30	6/30/2020	In-Situ	--	--	--	--	--	--	369
BH-6	20	6/30/2020	In-Situ	--	--	--	--	--	--	**794**
	25	6/30/2020	In-Situ	--	--	--	--	--	--	428
	30	6/30/2020	In-Situ	--	--	--	--	--	--	242
BH-7	20	6/30/2020	In-Situ	--	--	--	--	--	--	**915**
	25	6/30/2020	In-Situ	--	--	--	--	--	--	**1,340**
	30	6/30/2020	In-Situ	--	--	--	--	--	--	198
BH-8	20	6/30/2020	In-Situ	--	--	--	--	--	--	**1,160**
	25	6/30/2020	In-Situ	--	--	--	--	--	--	247
	30	6/30/2020	In-Situ	--	--	--	--	--	--	198
BH-9	20	6/30/2020	In-Situ	--	--	--	--	--	--	**900**
	25	6/30/2020	In-Situ	--	--	--	--	--	--	332

Table 1
Delineation Soil Sample Analytical Data Summary
Chevron USA, Culebra Bluff
Eddy County, New Mexico
North 32.24039° West 104.01070°

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100**	**600**
	30	6/30/2020	In-Situ	--	--	--	--	--	--	397
BH-10	20	6/30/2020	In-Situ	--	--	--	--	--	--	**1,230**
	25	6/30/2020	In-Situ	--	--	--	--	--	--	**655**
	30	6/30/2020	In-Situ	--	--	--	--	--	--	**833**
	35	2/9/2021	In-Situ	--	--	--	--	--	--	375
BH-11	20	6/30/2020	In-Situ	--	--	--	--	--	--	**1,170**
	25	6/30/2020	In-Situ	--	--	--	--	--	--	**826**
	30	6/30/2020	In-Situ	--	--	--	--	--	--	**749**
	35	2/9/2021	In-Situ	--	--	--	--	--	--	354
BH-12	20	6/30/2020	In-Situ	--	--	--	--	--	--	**1,630**
	25	6/30/2020	In-Situ	--	--	--	--	--	--	270
	30	6/30/2020	In-Situ	--	--	--	--	--	--	295
BH-13	20	6/30/2020	In-Situ	--	--	--	--	--	--	**1,200**
	25	6/30/2020	In-Situ	--	--	--	--	--	--	224
	30	6/30/2020	In-Situ	--	--	--	--	--	--	350

Notes: Analysis performed by Permian Basin Environmental Laboratory by EPA SW-846 Methods 8021B (BTEX), 8015M (TPH), and M300 (chloride)
Depth in feet below ground surface (bgs)
mg/Kg: milligrams per kilogram equivalent to parts per million (ppm)
<: denotes concentration less than analytical method reporting limit
Bold and Highlighted exceeds OCD remediation levels

Table 2
Confirmation Soil Sample Analytical Data Summary
Chevron USA, Culebra Bluff SE 5 32 Fed Com 3
Eddy County, New Mexico
North 32.240410 West -104.010122

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					**10**	**50**				**100/2,500**	**600/10,000**
C-1	Sidewall	0 - 4.1	1/7/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	358
C-2	Sidewall	0 - 4.1	1/7/2022	Excavated	<0.00199	<0.00398	<50.0	299	<50.0	**299**	**3,210**
			3/28/2022	Excavated	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	**1,160**
			2/8/2024	In-Situ	<0.00198	<0.00396	<50.5	<50.5	<50.5	<50.5	145
C-3	Sidewall	0 - 4.1	1/7/2022	Excavated	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	**2,240**
			3/25/2022	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	451
C-4	Sidewall	0 - 4.1	1/7/2022	Excavated	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	**695**
			3/25/2022	Excavated	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	**995**
			2/8/2024	In-Situ	<0.00200	<0.00399	<50.2	<50.2	<50.2	<50.2	136
C-5	Sidewall	0 - 4.1	1/7/2022	Excavated	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	**1,440**
			3/25/2022	Excavated	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	**943**
			2/6/2024	In-Situ	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	276
C-6	Sidewall	0 - 4.1	1/7/2022	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	**1,900**
C-7	Sidewall	0 - 4.1	1/7/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**1,500**
C-8	Sidewall	0 - 4.1	1/7/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**2,150**
C-9	Sidewall	0 - 4.1	1/7/2022	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	**2,080**
C-10	Sidewall	0 - 6	1/7/2022	Excavated	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	**1,950**
		0 - 6	3/28/2022	In-Situ	<0.00114	<0.00227	<28.4	<28.4	<28.4	<28.4	204
C-11	Sidewall	0 - 6	1/7/2022	Excavated	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	**1,500**
		0 - 6	3/28/2022	In-Situ	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	82.4
C-12	Sidewall	0 - 6	1/7/2022	Excavated	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	**846**
		0 - 4.1	2/7/2024	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	578
C-13	Sidewall	0 - 6	1/7/2022	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	**1,160**
C-14	Sidewall	0 - 6	1/7/2022	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	**2,380**
C-15	Sidewall	0 - 6	1/7/2022	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	**1,340**
C-16	Sidewall	0 - 6	1/7/2022	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	**1,580**
C-17	Sidewall	0 - 4.1	1/7/2022	In-Situ	<0.00199	<0.00398	<49.9	120	<49.9	**120**	**1,410**
C-18	Sidewall	0 - 4.1	1/7/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**2,820**
C-19	Sidewall	0 - 4.1	1/7/2022	Excavated	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	**2,570**
			2/8/2024	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	212

Table 2
Confirmation Soil Sample Analytical Data Summary
Chevron USA, Culebra Bluff SE 5 32 Fed Com 3
Eddy County, New Mexico
North 32.240410 West -104.010122

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					**10**	**50**				**100/2,500**	**600/10,000**
C-20	Sidewall	0 - 4.1	1/7/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	34.1
C-21	Sidewall	0 - 4.1	1/7/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<4.98
C-22	Sidewall	0 - 4.1	1/7/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<5.00
C-23	Bottom	4.1	1/7/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<4.95
C-24	Bottom	4.1	1/7/2022	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	123
C-25	Bottom	4.1	1/7/2022	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	847
C-26	Bottom	4.1	1/7/2022	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	2,450
C-27	Bottom	4.1	1/7/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	2,740
C-28	Bottom	4.1	1/7/2022	In-Situ	<0.00199	<0.00398	<49.9	83.3	<49.9	83.3	163
C-29	Bottom	4.1	1/7/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	2,870
C-30	Bottom	4.1	1/7/2022	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	2,700
C-31	Bottom	4.1	1/7/2022	In-Situ	<0.00201	<0.00402	<50.0	614	<50.0	614	1,820
C-32	Bottom	4.1	1/7/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	2,710
C-33	Bottom	4.1	1/7/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	1,600
C-34	Bottom	4.1	1/7/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	2,840
C-35	Bottom	4.1	1/7/2022	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	2,920
C-36	Bottom	4.1	1/7/2022	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	3,620
C-37	Bottom	4.1	1/7/2022	In-Situ	<0.00200	<0.00400	<49.9	68.9	<49.9	68.9	3,340
C-38	Bottom	4.1	1/7/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	2,710
C-39	Bottom	4.1	1/7/2022	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	2,070
C-40	Bottom	4.1	1/7/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	1,740
C-41	Bottom	4.1	1/7/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	869
C-42	Bottom	4.1	1/7/2022	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	1,770
C-43	Bottom	4.1	1/7/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	222
C-44	Bottom	6	1/7/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	933
C-45	Bottom	6	1/7/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	991
C-46	Bottom	6	1/7/2022	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	319
C-47	Bottom	6	1/7/2022	In-Situ	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	4,010
C-48	Bottom	6	1/7/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	776
C-49	Bottom	6	1/7/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	1,310

Table 2
Confirmation Soil Sample Analytical Data Summary
Chevron USA, Culebra Bluff SE 5 32 Fed Com 3
Eddy County, New Mexico
North 32.240410 West -104.010122

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					**10**	**50**				**100/2,500**	**600/10,000**
C-50	Bottom	6	1/7/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	1,050
C-51	Bottom	6	1/7/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	1,100
C-52	Sidewall	0 - 4.1	1/12/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	262
C-53	Sidewall	0 - 4.1	1/12/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	299
C-54	Sidewall	0 - 4.1	1/12/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	244
C-55	Sidewall	0 - 4.1	1/12/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	510
C-56	Sidewall	0 - 4.1	1/12/2022	Excavated	<0.00201	<0.00402	<50.0	64.1	<50.0	64.1	**662**
		0 - 4.1	3/28/2022	In-Situ	<0.00104	<0.00408	<26.0	<26.0	<26.0	<26.0	321
C-57	Sidewall	0 - 4.1	1/12/2022	Excavated	<0.00202	<0.00404	<50.0	94.7	<50.0	94.7	**633**
		0 - 4.1	3/28/2022	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	375
C-58	Sidewall	0 - 4.1	1/12/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	448
C-59	Sidewall	0 - 4.1	1/12/2022	Excavated	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	**2,320**
		0 - 4.1	3/24/2022	Excavated	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	**874**
			2/8/2024	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	234
C-60	Sidewall	0 - 4.1	1/12/2022	Excavated	<0.00202	<0.00403	<50.0	842	<50.0	**842**	**2,890**
		0 - 4.1	3/24/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**934**
C-61	Sidewall	0 - 4.1	1/12/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	**605**
		0 - 4.1	3/24/2022	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	295
C-62	Sidewall	0 - 4.1	1/12/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	504
C-63	Sidewall	0 - 4.1	1/12/2022	Excavated	<0.00202	<0.00403	<49.9	86.4	<49.9	86.4	**1,620**
		0 - 4.1	3/28/2022	Excavated	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	**1,230**
		0 - 4.1	2/8/2024	In-Situ	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	541
C-64	Sidewall	0 - 4.1	1/12/2022	Excavated	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**951**
		0 - 4.1	3/24/2022	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	348
C-65	Sidewall	0 - 4.1	1/12/2022	Excavated	<0.00200	<0.00400	<50.0	120	<50.0	**120**	**1,330**
		0 - 4.1	3/28/2022	In-Situ	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	464
C-66	Sidewall	0 - 4.1	1/12/2022	Excavated	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	**757**
		0 - 4.1	3/24/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	364
C-67	Bottom	4.1	1/12/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	734
C-68	Bottom	4.1	1/12/2022	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	495

Table 2
Confirmation Soil Sample Analytical Data Summary
Chevron USA, Culebra Bluff SE 5 32 Fed Com 3
Eddy County, New Mexico
North 32.240410 West -104.010122

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					**10**	**50**				**100/2,500**	**600/10,000**
C-69	Bottom	4.1	1/12/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	536
C-70	Bottom	4.1	1/12/2022	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	710
C-71	Bottom	4.1	1/12/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	613
C-72	Bottom	4.1	1/12/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	622
C-73	Bottom	4.1	1/12/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	2,170
C-74	Bottom	4.1	1/12/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	439
C-75	Bottom	4.1	1/12/2022	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	525
C-76	Bottom	4.1	1/12/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	789
C-77	Bottom	4.1	1/12/2022	In-Situ	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	1,060
C-78	Bottom	4.1	1/12/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	1,080
C-79	Bottom	4.1	1/12/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	443
C-80	Bottom	4.1	1/12/2022	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	444
C-81	Bottom	4.1	1/12/2022	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	904
C-82	Bottom	4.1	1/12/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	1,090
C-83	Bottom	4.1	1/12/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	888
C-84	Bottom	4.1	3/24/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	738
C-85	Bottom	4.1	3/24/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	874
C-86	Bottom	4.1	3/25/2022	In-Situ	<0.00200	<0.00400	<49.7	<49.7	<49.7	<49.7	1,660
C-87	Bottom	4.1	3/25/2022	In-Situ	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	3,030
C-88	Bottom	4.1	3/25/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	1,590
C-89	Bottom	4.1	3/28/2022	In-Situ	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	1,130
C-90	Bottom	4.1	3/28/2022	In-Situ	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	1,280
C-91	Bottom	4.1	3/28/2022	In-Situ	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	1,520
C-92	Bottom	4.1	3/28/2022	In-Situ	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	1,490
C-90	Bottom	5.5	11/16/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	1,050
C-91	Bottom	5.5	11/16/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	593
C-92	Bottom	7	11/16/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	799
C-93	Bottom	7	11/16/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	265
C-94	Bottom	7	11/16/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	361
C-95	Bottom	7	11/16/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	200

Table 2
Confirmation Soil Sample Analytical Data Summary
Chevron USA, Culebra Bluff SE 5 32 Fed Com 3
Eddy County, New Mexico
North 32.240410 West -104.010122

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					**10**	**50**				**100/2,500**	**600/10,000**
C-96	Bottom	7	11/16/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	240
C-97	Bottom	7	11/16/2022	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	238
C-98	Bottom	7	11/16/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	250
C-99	Bottom	7	11/16/2022	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	504
C-100	Bottom	7	11/16/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	596
C-101	Bottom	7	11/16/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	382
C-102	Bottom	7	11/16/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	280
C-103	Bottom	7	11/16/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	692
C-104	Bottom	7	11/16/2022	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	998
C-105	Bottom	7	11/16/2022	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	393
C-106	Bottom	7	11/16/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	263
C-107	Bottom	7	11/16/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	987
C-108	Bottom	7	11/16/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	1,070
C-109	Bottom	7	11/16/2022	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	1,090
C-110	Bottom	7	11/16/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	1,070
C-111	Bottom	7	11/16/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	1,050
C-112	Bottom	7	11/16/2022	In-Situ	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	407
C-113	Bottom	7	11/16/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	406
C-114	Bottom	7	11/16/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	1,310
C-115	Bottom	7	11/16/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	959
SW-2	Sidewall	0 - 5	11/16/2022	Excavated	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	**629**
		0 - 4.1	2/6/2024	In-Situ	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5	300
SW-3	Sidewall	0 - 5	11/16/2022	Excavated	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**1,150**
		0 - 4.1	2/6/2024	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	296
SW-4	Sidewall	0 - 7	11/16/2022	Excavated	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	**633**
		0 - 4.1	2/7/2024	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	533
SW-5	Sidewall	0 - 7	11/16/2022	Excavated	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	**1,870**
		0 - 4.1	2/7/2024	In-Situ	<0.00198	<0.00397	<49.6	<49.6	<49.6	<49.6	338
SW-6	Sidewall	0 - 7	11/16/2022	Excavated	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	**2,270**
		0 - 4.1	2/9/2024	In-Situ	<0.00200	<0.00400	<49.6	<49.6	<49.6	<49.6	275

Table 2
Confirmation Soil Sample Analytical Data Summary
Chevron USA, Culebra Bluff SE 5 32 Fed Com 3
Eddy County, New Mexico
North 32.240410 West -104.010122

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					**10**	**50**				**100/2,500**	**600/10,000**
SW-7	Sidewall	0 - 5	11/16/2022	Excavated	0.00209	<0.00398	<49.9	<49.9	<49.9	<49.9	**7,050**
		0 - 4.1	2/8/2024	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	206
SW-8	Sidewall	0 - 7	11/16/2022	In-Situ	<0.00199	0.00939	<50.0	<50.0	<50.0	<50.0	**1,130**
		0 - 4.1	2/8/2024	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	279
C-116	Bottom	4.1	2/9/2024	In-Situ	<0.00200	<0.00400	<49.6	<49.6	<49.6	<49.6	798
C-117	Bottom	4.1	2/9/2024	In-Situ	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	1,020
C-118	Bottom	4.1	2/9/2024	In-Situ	<0.00201	<0.00402	<50.3	<50.3	<50.3	<50.3	1,500
C-119	Bottom	4.1	2/9/2024	In-Situ	<0.00202	<0.00403	<50.5	<50.5	<50.5	<50.5	1,830
C-120	Bottom	4.1	2/9/2024	In-Situ	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	1,080
C-121	Bottom	4.1	2/9/2024	In-Situ	<0.00198	<0.00396	<50.4	<50.4	<50.4	<50.4	552
C-122	Bottom	4.1	2/9/2024	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	1,360
C-123	Bottom	4.1	2/9/2024	In-Situ	<0.00198	<0.00396	<50.5	<50.5	<50.5	<50.5	621
C-124	Bottom	4.1	2/9/2024	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	920
C-125	Bottom	4.1	2/9/2024	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	1,130
C-126	Bottom	4.1	2/9/2024	In-Situ	<0.00202	<0.00403	<50.1	<50.1	<50.1	<50.1	1,280
C-127	Bottom	4.1	2/9/2024	In-Situ	<0.00198	<0.00397	<50.3	<50.3	<50.3	<50.3	237
C-128	Bottom	4.1	2/9/2024	In-Situ	<0.00200	<0.00399	<50.3	<50.3	<50.3	<50.3	343
C-129	Bottom	4.1	2/9/2024	In-Situ	<0.00199	<0.00398	<50.4	<50.4	<50.4	<50.4	1,440
C-130	Bottom	4.1	2/9/2024	In-Situ	<0.00198	<0.00396	<49.6	<49.6	<49.6	<49.6	977
C-131	Bottom	4.1	2/9/2024	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	3,110
C-132	Bottom	4.1	2/9/2024	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	1,370
C-133	Bottom	4.1	2/9/2024	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	1,530
C-134	Bottom	4.1	2/9/2024	In-Situ	<0.00199	<0.00398	<50.3	<50.3	<50.3	<50.3	1,420
C-135	Bottom	4.1	2/9/2024	In-Situ	<0.00200	<0.00400	<50.2	<50.2	<50.2	<50.2	1,450
C-136	Bottom	4.1	2/9/2024	In-Situ	<0.00200	<0.00400	<50.1	<50.1	<50.1	<50.1	1,480
C-137	Bottom	4.1	2/9/2024	In-Situ	<0.00202	<0.00404	<50.4	<50.4	<50.4	<50.4	2,230
C-138	Bottom	4.1	2/9/2024	In-Situ	<0.00201	<0.00402	<50.5	<50.5	<50.5	<50.5	1,240
C-139	Bottom	4.1	2/9/2024	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	867
C-140	Bottom	4.1	2/9/2024	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	1,120
C-141	Bottom	4.1	2/9/2024	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	717

Table 2
Confirmation Soil Sample Analytical Data Summary
Chevron USA, Culebra Bluff SE 5 32 Fed Com 3
Eddy County, New Mexico
North 32.240410 West -104.010122

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					**10**	**50**				**100/2,500**	**600/10,000**
C-142	Bottom	4.1	2/9/2024	In-Situ	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	784
C-143	Bottom	4.1	2/9/2024	In-Situ	<0.00198	<0.00396	<50.5	<50.5	<50.5	<50.5	543
C-144	Bottom	4.1	2/9/2024	In-Situ	<0.00202	<0.00404	<49.7	<49.7	<49.7	<49.7	760
C-145	Bottom	4.1	2/9/2024	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	851
C-146	Bottom	4.1	2/9/2024	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	1,220
C-147	Bottom	4.1	2/9/2024	In-Situ	<0.00199	<0.00398	<50.2	<50.2	<50.2	<50.2	1,180
C-148	Bottom	4.1	2/9/2024	In-Situ	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	1,050
C-149	Bottom	4.1	2/9/2024	In-Situ	<0.00200	<0.00399	<50.2	<50.2	<50.2	<50.2	1,710
C-150	Bottom	4.1	2/9/2024	In-Situ	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	783
C-151	Bottom	4.1	2/9/2024	In-Situ	<0.00198	<0.00396	<50.5	<50.5	<50.5	<50.5	159
C-152	Bottom	4.1	2/9/2024	In-Situ	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	861
C-153	Bottom	4.1	2/9/2024	In-Situ	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	1,290
C-154	Bottom	4.1	2/9/2024	In-Situ	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	995
BF-1	--	--	3/27/2023	In-Situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	**687**
BF-2	--	--	3/27/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	535
BF-3	--	--	3/27/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	513
BF-4	SAMPLE ID NOT USED										
BF-5	--	--	3/27/2023	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	**1,040**
BF-6	--	--	3/27/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	**1,300**
BF-7	--	--	3/27/2023	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	**701**
BF-8	--	--	3/27/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	69.2
BF-9	--	--	3/27/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	296
BF-10	--	--	3/27/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	317
BF-11	--	--	3/27/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	153
BF-12	--	--	3/27/2023	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	276
BF-13	--	--	3/27/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	76.5
BF-14	--	--	3/27/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	217
BF-15	--	--	3/27/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	10.6

Table 2
Confirmation Soil Sample Analytical Data Summary
Chevron USA, Culebra Bluff SE 5 32 Fed Com 3
Eddy County, New Mexico
North 32.240410 West -104.010122

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					**10**	**50**				**100/2,500**	**600/10,000**

Notes: analysis performed by Xenco Laboratories (Xenco), Midland, Texas and Carlsbad, New Mexico by EPA SW-846 Methods 8021B (BTEX) and 8015M (TPH), and Method 300 (chloride)

Depth in feet below ground surface (bgs)

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

Bold and Highlighted Denotes Conetrations Above OCD Closure Criteria

Denotes Sidewall Sample Location Removed

Table 3

Background Delineation Soil Sample Analytical Data Summary

Chevron USA, Culebra Bluff

Eddy County, New Mexico

North 32.24039° West 104.01070°

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100 /2,500**	**600/10,000**
BG-1	1	5/4/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	502
	3	5/4/2022	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	**810**
	5	5/4/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	559
	10	5/4/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	439
BG-2	1	5/4/2022	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	76.7
BG-3	1	11/14/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	**964**
	3	11/14/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	276
	5	11/14/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	511
	10	11/14/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	**1,160**
BG-4	1	11/14/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	**1,370**
	3	11/14/2022	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	379
	5	11/14/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**669**
	10	11/14/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	441
BG-5	1	11/15/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	280
	3	11/15/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	190
	5	11/15/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	248
	10	11/15/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	423
BG-6	1	11/14/2022	In-Situ	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	226
	3	11/14/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	581
	5	11/14/2022	In-Situ	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	**684**
	10	11/14/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	**631**
BG-7	1	11/15/2022	In-Situ	<0.00201	<0.00402	<50.0	250	<50.0	**250**	**866**
	3	11/15/2022	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	431

Table 3

Background Delineation Soil Sample Analytical Data Summary

Chevron USA, Culebra Bluff

Eddy County, New Mexico

North 32.24039° West 104.01070°

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	C10 - C28 (mg/Kg)	C28 - C36 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100 /2,500**	**600/10,000**
	5	11/15/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	485
	10	11/15/2022	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	**809**
BG-8	1	11/15/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	197
	3	11/15/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	208
	5	11/15/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	166
	10	11/15/2022	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	**1,050**
BG-9	1	11/15/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	499
	3	11/15/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	464
	5	11/15/2022	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	167
	10	11/15/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	**671**
BG-10	1	11/15/202	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	28.1
	3	11/15/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	21.2
	5	11/15/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	44.1
	10	11/15/2022	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	428
BG-11	1	11/15/2022	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	89.4
	3	11/15/2022	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	64.7
	5	11/15/2022	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	152
	10	11/15/2022	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	570

Notes: Analysis performed by Eurofins - Xenco (Xenco) Laboratory Midland, Texasby EPA SW-846 Methods 8021B (BTEX), 8015M (TPH), and M300 (chloride)
Depth in feet below ground surface (bgs)
mg/Kg: milligrams per kilogram equivalent to parts per million (ppm)
<: denotes concentration less than analytical method reporting limit
Bold and Highlighted exceeds OCD remediation levels

Figures

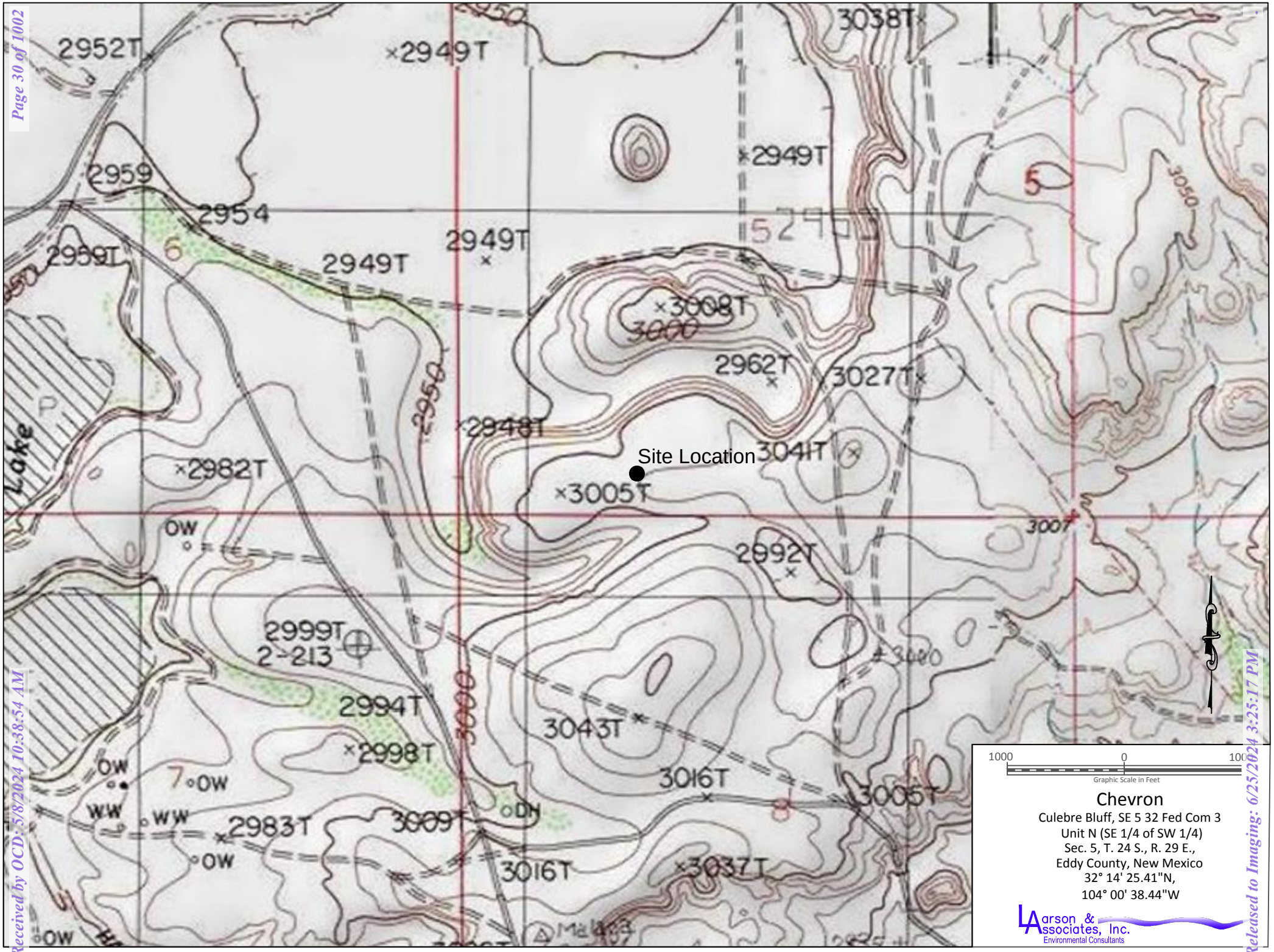

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Figure 1 - Topographic Map

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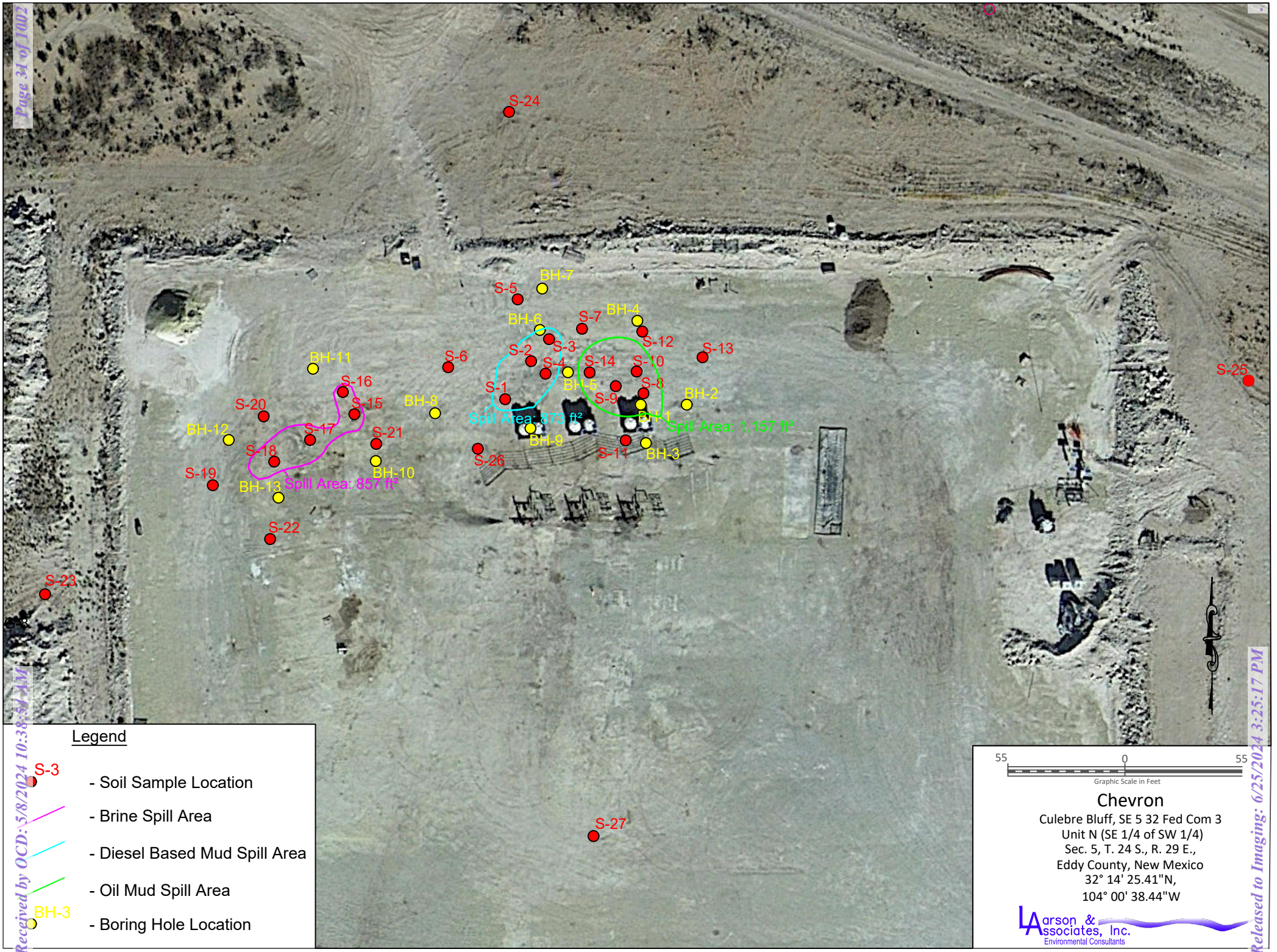

Figure 2 - Aerial Map Showing Sample and Bore Hole Locations

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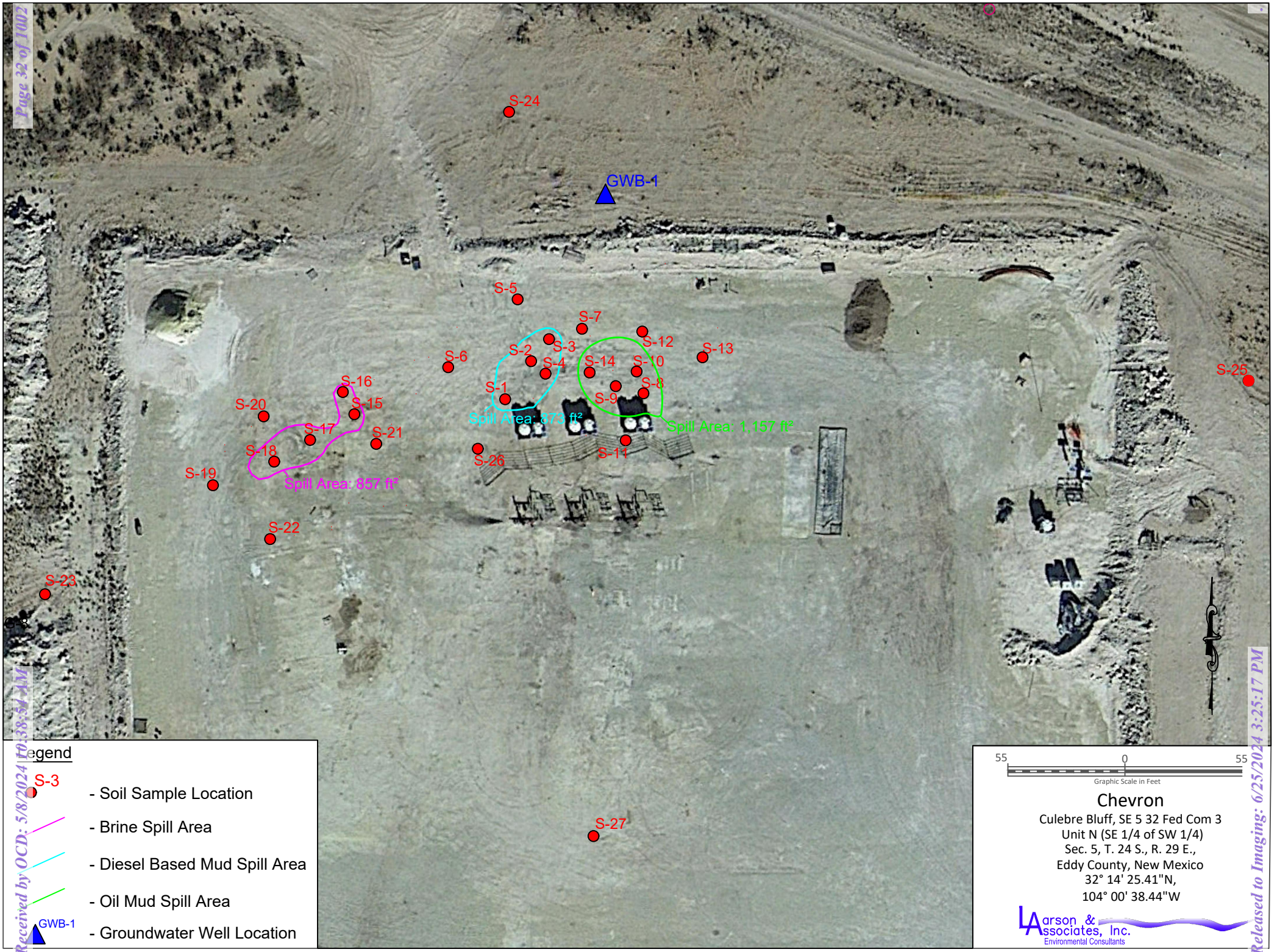

Figure 3 - Aerial Map Showing Groundwater Well Location

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Legend

S-3 - Soil Sample Location

BH-3 - Boring Hole Location

CB Fed Com 003 1H - Wellhead Location

- Brine Spill Area

- Proposed Excavation Area: 4.1'

- Diesel Based Mud Spill Area

- Proposed Excavation Area: 6'

- Oil Mud Spill Area

50 0 50

Graphic Scale in Feet

Chevron

Culebre Bluff, SE 5 32 Fed Com 3
Unit N (SE 1/4 of SW 1/4)
Sec. 5, T. 24 S., R. 29 E.,
Eddy County, New Mexico
32° 14' 25.41"N,
104° 00' 38.44"W

Larson & Associates, Inc.
Environmental Consultants

Figure 4 - Aerial Map Showing Proposed Excavation Locations

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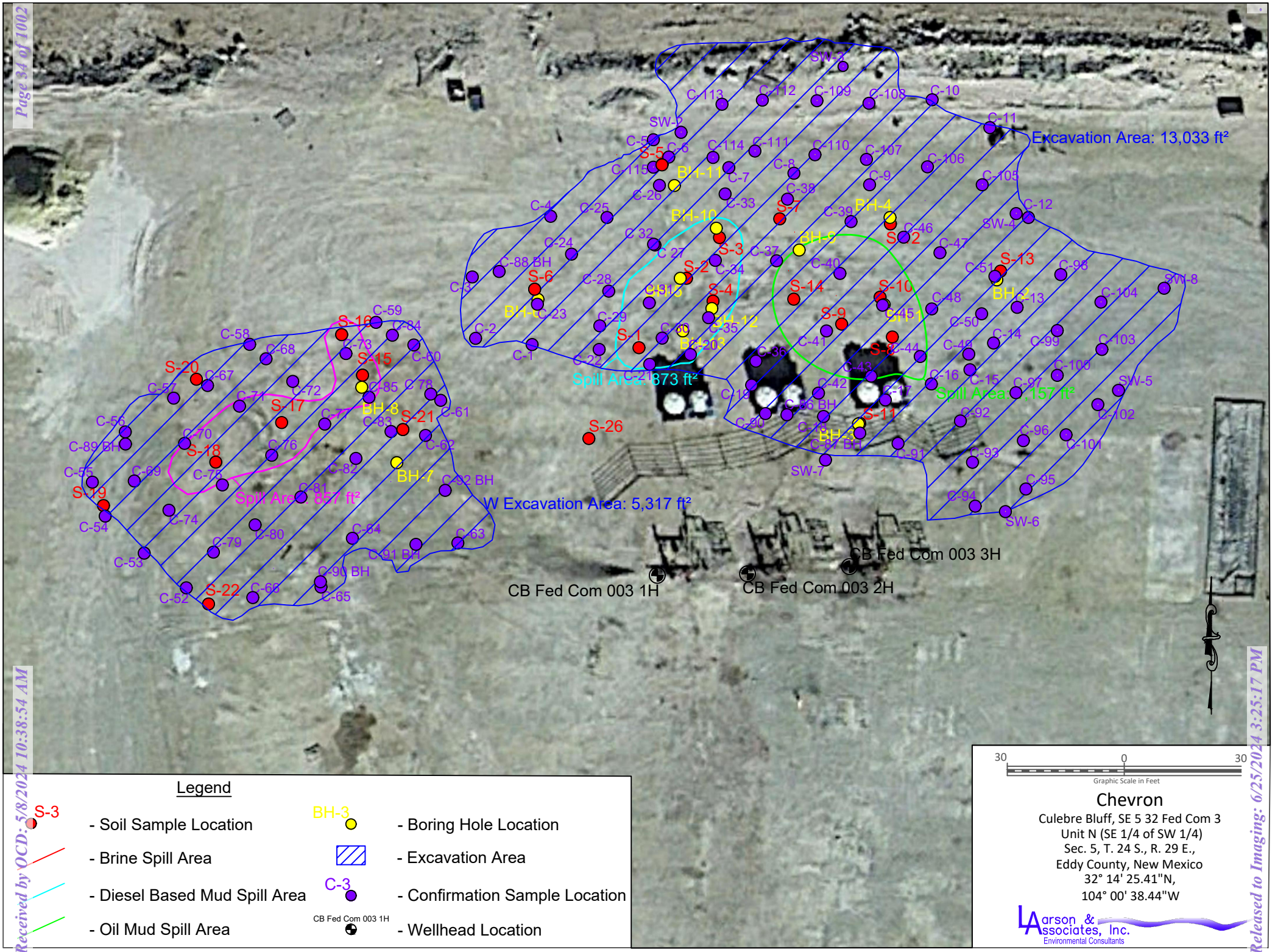

Figure 5 - Aerial Map Showing Confirmation Sample Locations, January 2022

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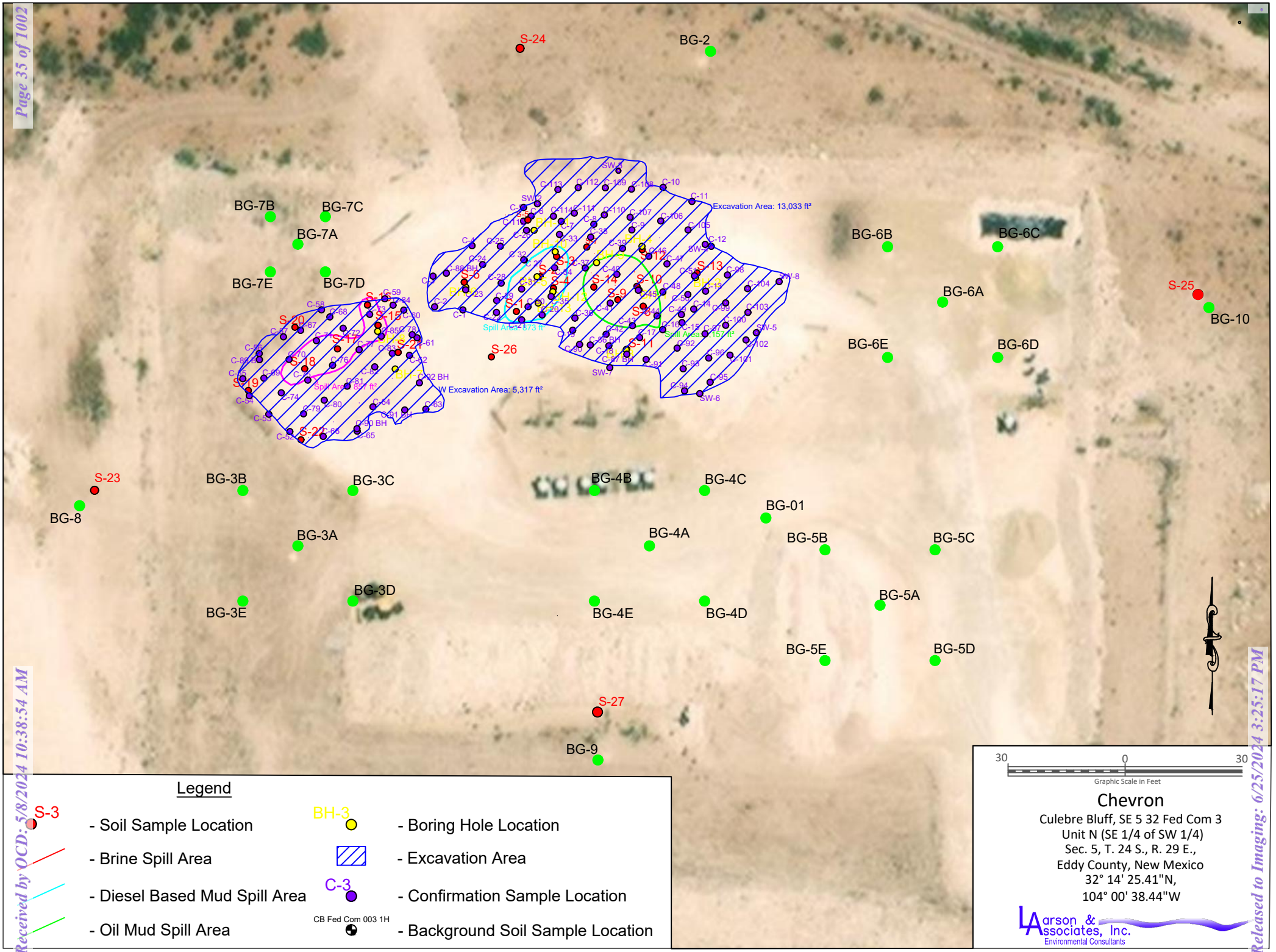

Figure 6 - Aerial Map Showing Confirmation Sample and Background Soil Samples

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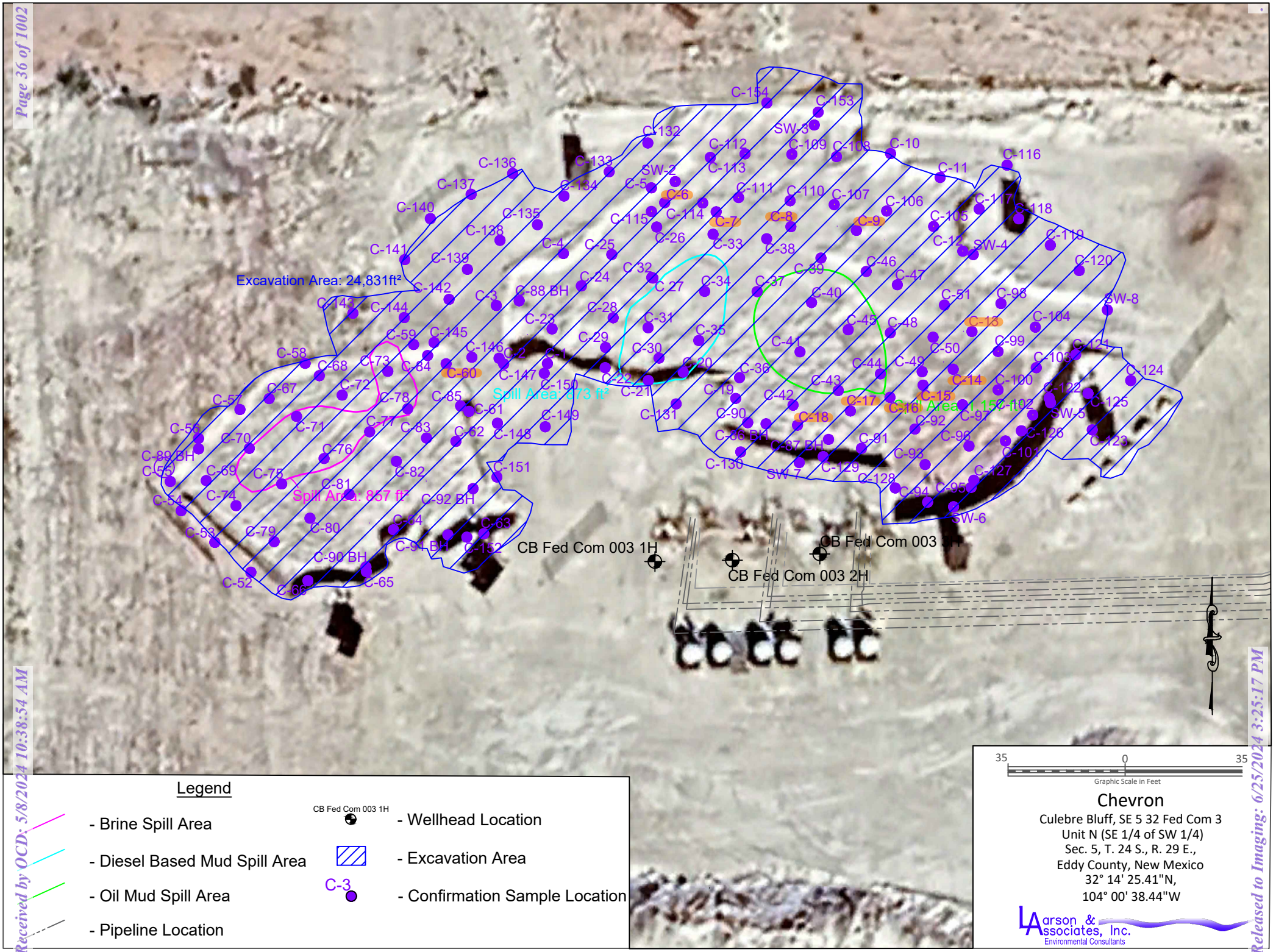

Figure 7 - Aerial Map Showing Confirmation Soil Sample Locations, February 2024

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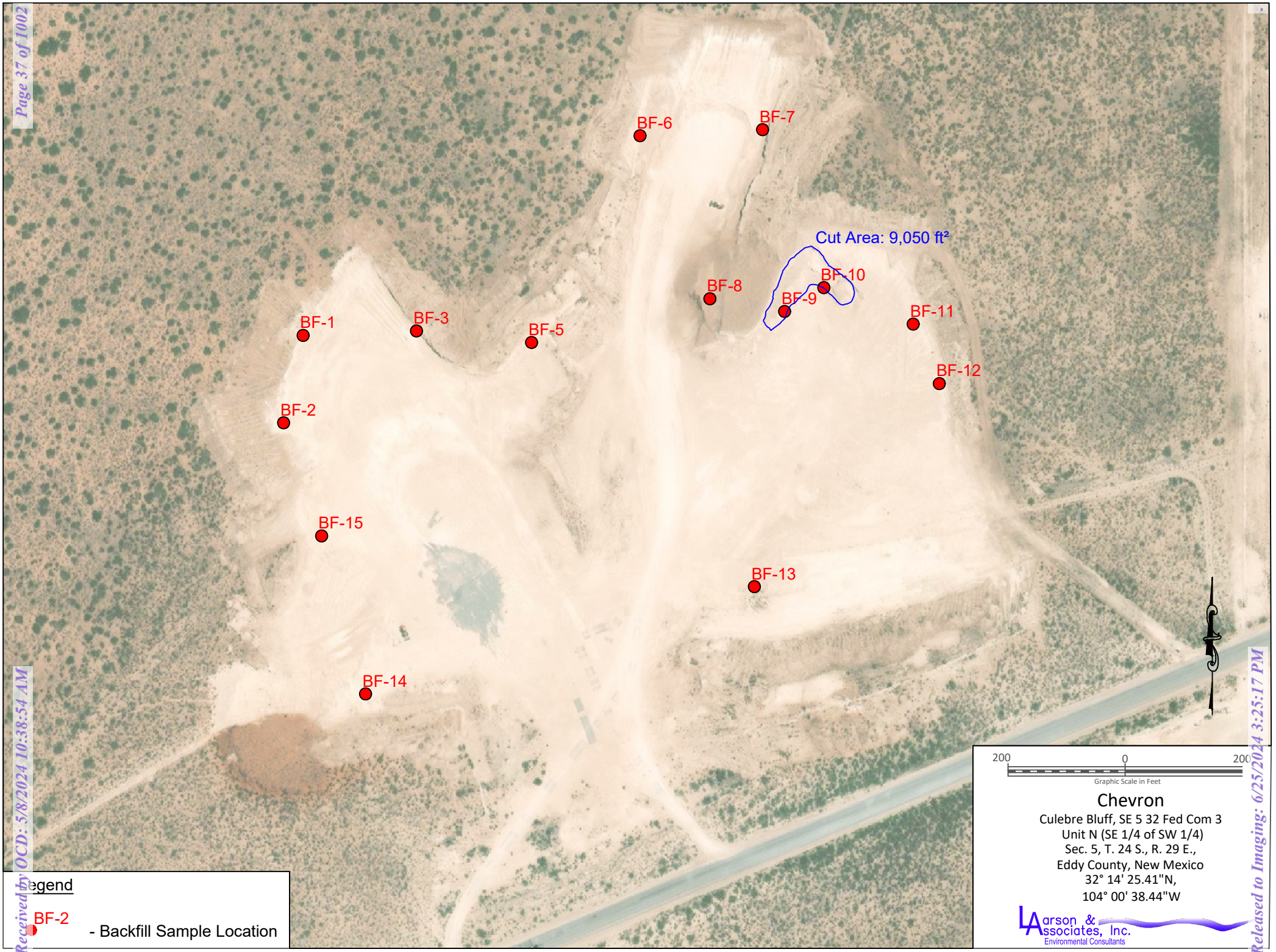

Figure 8 - Aerial Map Showing Backfill Sample Locations

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Appendix A

Initial C-141's and Chevron Spill Calculations

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Chevron USA Inc.	OGRID: 4323
Contact Name: Josepha DeLeon	Contact Telephone: 575-263-0424
Contact email: jdxd@chevron.com	Incident # *(assigned by OCD)*
Contact mailing address: 1616 W. Bender, Hobbs, NM 88240	

Location of Release Source

Latitude 32.240347 Longitude -104.010042

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: CB SE 5 32 Federal Com 3 #003H Drilling Rig – Patterson 257	Site Type: Gas
Date Release Discovered: 02/01/2019	API# *(if applicable): 30-015-44976*

Unit Letter	Section	Township	Range	County
N	05	24S	29E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☒ Other (describe) Brine Water	Volume/Weight Released (provide units): 10 barrels	Volume/Weight Recovered (provide units): 7 barrels

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Cause of Release:

While transferring brine from vacuum truck to storage tank, tank overfilled and leaked from secondary lined containment to rig pad ground.

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
☐ Yes ☒ No	Did not exceed 25 barrels for verbal notification.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

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.

☒ The impacted area has been secured to protect human health and the environment.

☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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.

Signature: JdeLeon Date: **February 21, 2019**

Printed Name: **Josepha DeLeon** Title: **Environmental Compliance Specialist.**

email: **jdxd@chevron.com** Telephone: **(575) 263-0424**

OCD Only

Received by: _____ Date: _____

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
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Responsible Party

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Location of Release Source

Latitude 32.240347 Longitude -104.010042

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: CB SE 5 32 Federal Com 3 #003H Drilling Rig – Patterson 257	Site Type: Gas
Date Release Discovered: 02/20/2019	API# *(if applicable): 30-015-44976*

Unit Letter	Section	Township	Range	County
N	05	24S	29E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☒ Other (describe) Oil Based Mud	Volume/Weight Released (provide units): 27.30 barrels	Volume/Weight Recovered (provide units): 27.30 barrels

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Cause of Release:

Cuttings box door was not properly secured, spilled oil based mud to secondary containment (lined drill pad). Liner integrity was confirmed to be intact and all was recovered (see attached picture)

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Exceeded 25 barrels.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Verbal to Mike Bratcher (NMOCD) and Jim Amos (BLM), 2/20/2019

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.

☒ The impacted area has been secured to protect human health and the environment.

☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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.

Signature: JdeLeon Date: **February 26, 2019**

Printed Name: **Josepha DeLeon** Title: **Environmental Compliance Specialist.**

email: **jdxd@chevron.com** Telephone: **(575) 263-0424**

OCD Only

Received by: _____ Date**:** _____

Incident ID	
District RP	
Facility ID	
Application ID	

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Chevron USA Inc.	OGRID: 4323
Contact Name: Josepha DeLeon	Contact Telephone: 575-263-0424
Contact email: jdxd@chevron.com	Incident # *(assigned by OCD)*
Contact mailing address: 1616 W. Bender, Hobbs, NM 88240	

Location of Release Source

Latitude 32.240347 Longitude -104.010042

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: CB SE 5 32 Federal Com 3 #003H	Site Type: Gas
Date Release Discovered: 01/10/2019	API# *(if applicable): 30-015-44976*

Unit Letter	Section	Township	Range	County
N	05	24S	29E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☒ Other (describe) Water/Diesel Based Mud	Volume/Weight Released (provide units) 16 Barrels	Volume/Weight Recovered (provide units): 16 Barrels

Cause of Release:

3" transfer hose swage fitting popped out causing release to secondary containment, lined drill pad. Liner was visually inspected and integrity of liner remains intact and had ability to contain leak. As stated in new regulation, liner will be inspected when rig moves out and NMOCD will be contacted.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release? Did not exceed 25 barrels for verbal notification.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

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.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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.

Signature: JdeLeon Date: **January 24, 2019**

Printed Name: **Josepha DeLeon** Title: **Environmental Compliance Specialist.**

email: **jdxd@chevron.com** Telephone: **(575) 263-0424**

OCD Only

Received by: _____ Date: _____

Appendix B

Karst Risk Potential

Received by OCD: 5/8/2024 10:38:54 AM

*New Mexico Kart or No Karst - QGIS

Project Edit View Layer Settings Plugins Vector Raster Database Web Mesh Processing Help

Browser

- Favorites
- Spatial Bookmarks
- Project Home
- Home
- C:\
- D:\
- L:\
- Z:\
- GeoPackage
- SpatiaLite
- PostGIS
- MSSQL
- Oracle
- DB2
- WMS/WMTS
- XYZ Tiles
- WCS
- WFS / OGC API - Features
- OWS
- ArcGisMapServer
- ArcGisFeatureServer
- GeoNode

Layers

- Added geom info
- Karst_or_No_Karst
  - High
  - Low
  - Medium
  -
- Bing Satellite

Released to Imaging: 6/25/2024 3:25:17 PM

Type to locate (Ctrl+K)

Coordinate 592121,3568259 Scale 1:6275 Magnifier 100% Rotation 0.0 ° Render EPSG:26913

Appendix C

Boring Log

BORING RECORD

Start: 11:33
Finish: 13:51

GEOLOGIC UNIT	DEPTH	DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG
	0	Caliche, 7.5YR 8/3, Pink, 1-10mm Angular Clasts, Poorly Sorted	Caliche	
	5	Sand, 7.5YR 8/3, Pink, Medium Quartz Sand, Poorly Sorted, 1-10mm Angular Clasts, Sandstone, Well Rounded Quartz	SandStone	
	10			
	15	10YR 8/3, Very Pale Brown, Medium Quartz Sand, Poorly Sorted, 1-10mm Angular Clasts, Poorly Sorted, Sandstone, Well Rounded Quartz		
	20			
	25			
	30			
	35	10YR 7/4, Very Pale Brown, Fine Quartz Sand, Moderately Sorted, 1-3mm Angular Clasts, Sandstone, Well Rounded Quartz		
	40			
	45	7.5YR 7/8, Reddish Yellow, Well Sorted, Sandstone, Well Rounded		
	50	Unconsolidated Silt, 10YR 7/4, Very Pale Brown, Well Sorted, Well Rounded	Silt	
	55			
	60			
	65			

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

SAMPLE
NUMBER | PID READING | RECOVERY | DEPTH

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

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

Larson & Associates, Inc. Environmental Consultants

DRILL DATE : 11/23/2020

BORING NUMBER : GWB-1

JOB NUMBER : Chevron/ 19-0180-07
HOLE DIAMETER : 5"
LOCATION : Culebra Bluff
LAI GEOLOGIST : R. Nelson
DRILLING CONTRACTOR : SDI
DRILLING METHOD : Air Rotary

BORING RECORD

Start: 11:33
Finish: 13:51

GEOLOGIC UNIT	DEPTH	DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG	PID READING PPM X	SAMPLE NUMBER	SAMPLE PID READING	SAMPLE RECOVERY	SAMPLE DEPTH	REMARKS BACKGROUND PID READING
Groundwater at 70.30'	70				2 4 6 8 10 12 14 16 18					SOIL : PPM SOIL : PPM
	75								75	
	80	Unconsolidated Silt, 10YR 7/4, Very Pale Brown,1-5mm Subangular Clasts,Moderately Sorted, Well Rounded							80	
	85								85	
	90		Silt						90	
	95								95	
	100								100	
	105								105	
	110								110	
	115	TD: 115'							115	
	120								120	

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

JOB NUMBER : Chevron/ 19-0180-07
HOLE DIAMETER : 5"
LOCATION : Culebra Bluff
LAI GEOLOGIST : R. Nelson
DRILLING CONTRACTOR : SDI
DRILLING METHOD : Air Rotary

Larson & Associates, Inc.
Environmental Consultants

DRILL DATE : 11/23/2020

BORING NUMBER : GWB-1

Appendix D

NMOCD Communications

From: Billings, Bradford, EMNRD
To: Robert Nelson
Cc: Barnhill, Amy D.; Mark Larson
Subject: RE: [EXTERNAL] FW: Culebra Bluff SE 5 32 Fed Com (nAB1902541117 / nAB1906052173 / nAB1909160291) Background Sampling Approval
Date: Wednesday, August 24, 2022 2:47:13 PM
Attachments: image001.png

Exception:

Some samples should be taken off pad, from unaffected area(s) to work on proving your idea.

Bradford Billings
EMNRD/OCD

From: Robert Nelson <rnelson@laenvironmental.com>
Sent: Wednesday, August 24, 2022 1:27 PM
To: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Cc: Barnhill, Amy D. <ABarnhill@chevron.com>; Mark Larson <Mark@laenvironmental.com>
Subject: [EXTERNAL] FW: Culebra Bluff SE 5 32 Fed Com (nAB1902541117 / nAB1906052173 / nAB1909160291) Background Sampling Approval

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

Bradford,

Per our conversation, LAI personnel will collect background composite soil samples over the pad measuring approximately 115,200 square feet at sample locations BG-1 through BG-5 (A through E) to confirm if elevated chloride concentrations exist throughout the entirety of the production pad. Analytical results will be presented to the OCD and a variance will be requested if elevated chloride concentrations are reported throughout the production pad. If you could please confirm this is an accurate representation of our telephone conversation.

Thank you,

Robert Nelson
Sr. Geologist
Office – 432-687-0901
Cell – 432-664-4804
rnelson@laenvironmental.com
Larson & Associates, Inc.
Environmental Consultants

From: Robert Nelson
Sent: Wednesday, August 10, 2022 8:25 AM

To: 'Bradford.Billings@state.nm.us' <bradford.billings@state.nm.us>
Cc: Barnhill, Amy D. <ABarnhill@chevron.com>; Mark Larson <Mark@laenvironmental.com>
Subject: FW: Culebra Bluff SE 5 32 Fed Com (nAB1902541117 / nAB1906052173 / nAB1909160291) Background Sampling Approval

Hello Bradford:

I'm following up on an email sent on July 28th on behalf of Chevron regarding a variance request for background sampling at the Culebra Bluff SE 5 32 Fed Com (nAB1902541117 / nAB1906052173 / nAB1909160291). If you could provide us a status of this request or if we're approved to proceed we would greatly appreciate it. If you have any questions or wish to discuss please let us know.

Thank you,

Robert Nelson
Sr. Geologist
Office – 432-687-0901
Cell – 432-664-4804
rnelson@laenvironmental.com

From: Robert Nelson
Sent: Thursday, July 28, 2022 7:58 AM
To: 'Bradford.Billings@state.nm.us' <bradford.billings@state.nm.us>
Cc: Barnhill, Amy D. <ABarnhill@chevron.com>; Mark Larson <Mark@laenvironmental.com>
Subject: Culebra Bluff SE 5 32 Fed Com (nAB1902541117 / nAB1906052173 / nAB1909160291) Background Sampling Approval

Hello Mr. Billings,

Beginning in January 2022, LAI personnel supervised the excavation at the Culebra Bluff SE 5 32 Fed Com 3 (nAB1902541117 / nAB1906052173 / nAB1909160291) (Site) in Eddy County, New Mexico. On January 7 and 12, 2022 eighty-three (83) bottom and sidewall confirmation soil samples were collected from within the excavated area. Laboratory analysis reported numerous bottom and sidewall samples above the NMOCD closure criteria. Further excavation was conducted in March 2022. LAI personnel began field testing the sidewall samples concurrent with excavation activities to determine the lateral extent of soil requiring removal at sample locations C-5 through C-16. The excavation encompassing the diesel-based mud spill area and oil -based mud spill area was extended an additional 25 to 35 feet east and north. Laboratory analysis reported C-10 and C-11 below the NMOCD closure criteria, where C-12 remained above the NMOCD closure criteria. Field analysis of the remaining sidewall soil samples reported concentrations above the NMOCD closure criteria and were not submitted for laboratory analysis.

On May 4, 2022, LAI personnel used the Geoprobe 7822 DT direct push rig to collect background delineation soil samples (BG-1 and BG-2) approximately 50 feet southeast on the production pad and north of the excavation in the pasture, respectively. Laboratory analysis of sample BG-1 reported chloride concentrations above the NMOCD delineation/closure criteria (600 mg/Kg) at a depth of approximately three (3) feet below ground surface (bgs) at 810 mg/Kg, the highest chloride concentration reported on the production pad.

LAI requests approval from the NMOCD to collect additional background composite soil samples over the pad at sample locations BG-1 through BG-5 (A through E) to confirm if elevated chloride concentrations exist throughout the entirety of the production pad. LAI on behalf of Chevron would like to request a variance from the NMOCD if elevated chloride concentrations are reported throughout the production pad. Groundwater occurs at a depth of approximately 70.30 feet below ground surface (bgs) based on a boring drilled to 115 feet, and gauged 72 hours after drilling. Please find attached the confirmation sample data summary (Table 2), background delineation data summary (Table 3), and aerial map showing excavation locations, confirmation samples, and background sample locations. Please let Amy Barnhill with Chevron at ABarnhill@Chevron.com, Mark Larson (432-556-8656) or mark@laenvironmental.com, or me know if you have any questions or wish to discuss further.

Thank you,

Robert Nelson
Sr. Geologist
Office – 432-687-0901
Cell – 432-664-4804
rnelson@laenvironmental.com

From:	Billings, Bradford, EMNRD
To:	Robert Nelson
Cc:	Barnhill, Amy D.; Mark Larson
Subject:	RE: [EXTERNAL] RE: Confirmation of Telephone Conversation, Chevron Culebra Bluff (nAB1902541117, nAB1906052173, and nAB1909160291)
Date:	Tuesday, January 25, 2022 9:21:42 AM
Attachments:	image001.png

Hi,

If GW is between 51 and 100 feet bgs one can use the middle Tier for clean-up criteria for soils, which among other aspects are 2,500 mg/kg Total TPH (MRO, DRO and GRO) and chlorides of 10,000 mg/kg or less. Top four feet is different as you know, wherein, basically one uses the top tier from Table I for restoration/reclamation values.

Hope this helps.

Bradford Billings
EMNRD/OCD

From: Robert Nelson <rnelson@laenvironmental.com>
Sent: Tuesday, January 25, 2022 7:04 AM
To: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Cc: Barnhill, Amy D. <ABarnhill@chevron.com>; Mark Larson <Mark@laenvironmental.com>
Subject: [EXTERNAL] RE: Confirmation of Telephone Conversation, Chevron Culebra Bluff (nAB1902541117, nAB1906052173, and nAB1909160291)

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

Hello Bradford,

Per the email below dated May 4, 2021, the reported depth of groundwater at the Culebra Bluff (nAB1902541117, nAB1906052173, and nAB1909160291) about 70 feet bgs is adequate to calculate the closure criteria. Laboratory analysis of thirty five (35) confirmation soil samples collected at 4.1 feet below ground surface (bgs) reported TPH and/or chloride concentrations above 100 mg/Kg and 600 mg/Kg, respectively. Please advise if the cleanup level is 2,500 mg/kg (TPH) and 10,000 mg/Kg (chloride) for groundwater greater than 50 feet bgs.

Thank you,

Robert Nelson
Sr. Geologist
Office – 432-687-0901
Cell – 432-664-4804
rnelson@laenvironmental.com

From: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Sent: Tuesday, May 4, 2021 9:14 AM
To: Robert Nelson <rnelson@laenvironmental.com>
Cc: Barnhill, Amy D. <ABarnhill@chevron.com>; Mark Larson <Mark@laenvironmental.com>
Subject: RE: Confirmation of Telephone Conversation, Chevron Culebra Bluff (nAB1902541117, nAB1906052173, and nAB1909160291)

Hello All,

Based on conversation indicated below, the following:

Current data and provided information is indicative of the incident being satisfactorily vertically delineated, and the reported depth of groundwater at about 70 feet is adequate to calculate closure criteria.

Overall chloride values reported at depth do suggest a potential that a value of 300-600 ppm is common is soils not impacted by the reported incident. Please make sure that the 600 ppm value for chloride in soils is used to generate excavation procedure and outcomes.

Thank you for your time and effort.

Sincerely,

Bradford Billings
EMNRD/OCD

From: Robert Nelson <rnelson@laenvironmental.com>
Sent: Tuesday, May 4, 2021 7:38 AM
To: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Cc: Barnhill, Amy D. <ABarnhill@chevron.com>; Mark Larson <Mark@laenvironmental.com>
Subject: [EXT] Confirmation of Telephone Conversation, Chevron Culebra Bluff (nAB1902541117, nAB1906052173, and nAB1909160291)

Hello Bradford,

Per our conversation, Chevron USA, Inc. (Chevron) will remediate the areas encompassing sample locations BH-1 and BH-2 to a depth of six (6) feet below ground surface (bgs) where laboratory analysis indicated chloride concentrations above the OCD delineation limit of 600 mg/Kg. Elevated chloride concentrations at BH-2 at depths of 60, 65, and 70 feet below ground surface (bgs) have the potential to be influenced by the nearby potash mine located about 0.46 miles northwest. The chloride concentrations from BH-1 and BH-2 at the depth interval between about 25 and 55 feet bgs

display concentrations that are analogous to the concentrations between about 60 and 70 feet bgs. Additionally, Chevron will remediate the spill area in accordance with NMOCD closure criteria for groundwater at 70.30 feet bgs. Chevron requests concurrence from the OCD for the chloride delineation at sample location BH-2 to be fully delineated. Please let me know if this accurately presents our conversation and respond with your approval, if correct. I've attached the proposed excavation map for your reference. Please contact Amy Barnhill with Chevron at (432) 687-7108 or ABarnhill@chevron.com, Mark Larson at (432) 687-0901 or mark@laenviormental.com or me if you have any questions.

Respectfully,

Robert Nelson
Sr. Geologist
Office – 432-687-0901
Cell – 432-664-4804
rnelson@laenvironmental.com

From: Billings, Bradford, EMNRD
To: Robert Nelson
Cc: Barnhill, Amy D.; Mark Larson
Subject: RE: Confirmation of Telephone Conversation, Chevron Culebra Bluff (nAB1902541117, nAB1906052173, and nAB1909160291)
Date: Tuesday, May 4, 2021 9:13:50 AM
Attachments: image001.png

Hello All,

Based on conversation indicated below, the following:

Current data and provided information is indicative of the incident being satisfactorily vertically delineated, and the reported depth of groundwater at about 70 feet is adequate to calculate closure criteria.

Overall chloride values reported at depth do suggest a potential that a value of 300-600 ppm is common is soils not impacted by the reported incident. Please make sure that the 600 ppm value for chloride in soils is used to generate excavation procedure and outcomes.

Thank you for your time and effort.

Sincerely,

Bradford Billings
EMNRD/OCD

From: Robert Nelson <rnelson@laenvironmental.com>
Sent: Tuesday, May 4, 2021 7:38 AM
To: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Cc: Barnhill, Amy D. <ABarnhill@chevron.com>; Mark Larson <Mark@laenvironmental.com>
Subject: [EXT] Confirmation of Telephone Conversation, Chevron Culebra Bluff (nAB1902541117, nAB1906052173, and nAB1909160291)

Hello Bradford,

Per our conversation, Chevron USA, Inc. (Chevron) will remediate the areas encompassing sample locations BH-1 and BH-2 to a depth of six (6) feet below ground surface (bgs) where laboratory analysis indicated chloride concentrations above the OCD delineation limit of 600 mg/Kg. Elevated chloride concentrations at BH-2 at depths of 60, 65, and 70 feet below ground surface (bgs) have the potential to be influenced by the nearby potash mine located about 0.46 miles northwest. The chloride concentrations from BH-1 and BH-2 at the depth interval between about 25 and 55 feet bgs display concentrations that are analogous to the concentrations between about 60 and 70 feet bgs. Additionally, Chevron will remediate the spill area in accordance with NMOCD closure criteria for groundwater at 70.30 feet bgs. Chevron requests concurrence from the OCD for the chloride delineation at sample location BH-2 to be fully delineated. Please let me know if this accurately presents our conversation and respond with your approval, if correct. I've attached the proposed

excavation map for your reference. Please contact Amy Barnhill with Chevron at (432) 687-7108 or ABarnhill@chevron.com, Mark Larson at (432) 687-0901 or mark@laenviormental.com or me if you have any questions.

Respectfully,

Robert Nelson
Sr. Geologist
Office – 432-687-0901
Cell – 432-664-4804
rnelson@laenvironmental.com

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 310387

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 310387
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAB1902541117**
Incident Name	**NAB1902541117 CB SE 5 32 FEDERAL COM 3 #003H @ 30-015-44976**
Incident Type	**Release Other**
Incident Status	**Initial C-141 Approved**
Incident Well	**[30-015-44976] CB SE 5 32 FEDERAL COM 3 #003H**

Location of Release Source	
Site Name	**CB SE 5 32 FEDERAL COM 3 #003H**
Date Release Discovered	**01/10/2019**
Surface Owner	**Federal**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	5,000
What is the estimated number of samples that will be gathered	25
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/06/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Robert Nelson 432-687-0901
Please provide any information necessary for navigation to sampling site	32.240410, -104.010122

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 310387
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
abarnhill	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	2/1/2024

District I
1625 N. French Dr., Hobbs, NM 88240
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District II
811 S. First St., Artesia, NM 88210
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District III
1000 Rio Brazos Rd., Aztec, NM 87410
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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 310388

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 310388
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAB1906052173**
Incident Name	**NAB1906052173 CB SE 5 32 FEDERAL COM 3 #003H @ 30-015-44976**
Incident Type	**Release Other**
Incident Status	**Initial C-141 Received**
Incident Well	**[30-015-44976] CB SE 5 32 FEDERAL COM 3 #003H**

Location of Release Source	
Site Name	**CB SE 5 32 FEDERAL COM 3 #003H**
Date Release Discovered	**02/01/2019**
Surface Owner	**Federal**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	5,000
What is the estimated number of samples that will be gathered	25
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/06/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Robert Nelson 432-687-0901
Please provide any information necessary for navigation to sampling site	32.240410, -104.010122

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

Action 310388

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 310388
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
abarnhill	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	2/1/2024

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

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 310393
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAB1909160291**
Incident Name	**NAB1909160291 CULEBRA BLUFF SE 5 32 FED. COM 3 #003H @ 30-015-44976**
Incident Type	**Release Other**
Incident Status	**Initial C-141 Approved**
Incident Well	**[30-015-44976] CB SE 5 32 FEDERAL COM 3 #003H**

Location of Release Source	
Site Name	**CULEBRA BLUFF SE 5 32 FED. COM 3 #003H**
Date Release Discovered	**02/20/2019**
Surface Owner	**Federal**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	5,000
What is the estimated number of samples that will be gathered	25
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/06/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	432-687-0901 Robert Nelson
Please provide any information necessary for navigation to sampling site	32.240410, -104.010122

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: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 310393
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
abarnhill	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	2/1/2024

Appendix E

Laboratory Reports

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report

Prepared for:

Mark Larson

Larson & Associates, Inc.

P.O. Box 50685

Midland, TX 79710

Project: Chevron-Culebra Bluff

Project Number: 19-0180-07

Location: NM

Lab Order Number: 9K19001

NELAP ACCREDITED TNI LABORATORY

NELAP/TCEQ # T104704516-17-8

Report Date: 12/05/19

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Chevron-Culebra Bluff
Project Number: 19-0180-07
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1	9K19001-01	Soil	11/18/19 11:30	11-19-2019 09:00
S-2	9K19001-02	Soil	11/18/19 11:31	11-19-2019 09:00
S-3	9K19001-03	Soil	11/18/19 11:32	11-19-2019 09:00
S-4	9K19001-04	Soil	11/18/19 11:33	11-19-2019 09:00
S-5	9K19001-05	Soil	11/18/19 11:34	11-19-2019 09:00
S-6	9K19001-06	Soil	11/18/19 11:37	11-19-2019 09:00
S-7	9K19001-07	Soil	11/18/19 11:40	11-19-2019 09:00
S-8	9K19001-08	Soil	11/18/19 12:29	11-19-2019 09:00
S-9	9K19001-09	Soil	11/18/19 12:31	11-19-2019 09:00
S-10	9K19001-10	Soil	11/18/19 12:38	11-19-2019 09:00
S-11	9K19001-11	Soil	11/18/19 12:39	11-19-2019 09:00
S-12	9K19001-12	Soil	11/18/19 12:42	11-19-2019 09:00
S-13	9K19001-13	Soil	11/18/19 12:44	11-19-2019 09:00
S-14	9K19001-14	Soil	11/18/19 12:47	11-19-2019 09:00
S-15	9K19001-15	Soil	11/18/19 12:58	11-19-2019 09:00
S-16	9K19001-16	Soil	11/18/19 13:00	11-19-2019 09:00
S-17	9K19001-17	Soil	11/18/19 13:02	11-19-2019 09:00
S-18	9K19001-18	Soil	11/18/19 13:04	11-19-2019 09:00
S-19	9K19001-19	Soil	11/18/19 13:08	11-19-2019 09:00
S-20	9K19001-20	Soil	11/18/19 13:10	11-19-2019 09:00
S-21	9K19001-21	Soil	11/18/19 13:11	11-19-2019 09:00
S-22	9K19001-22	Soil	11/18/19 13:15	11-19-2019 09:00

Larson & Associates, Inc.	Project: Chevron-Culebra Bluff	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 19-0180-07	
Midland TX, 79710	Project Manager: Mark Larson	

S-1

9K19001-01 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*106 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*115 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**3790**	5.32	mg/kg dry	5	P9K2714	11/27/19	11/30/19	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P9K2001	11/20/19	11/20/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*104 %*	*70-130*		*P9K2006*	*11/20/19*	*11/22/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*113 %*	*70-130*		*P9K2006*	*11/20/19*	*11/22/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	11/20/19	11/22/19	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Chevron-Culebra Bluff	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 19-0180-07	
Midland TX, 79710	Project Manager: Mark Larson	

S-2

9K19001-02 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*91.1 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*93.8 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1790**	5.32	mg/kg dry	5	P9K2714	11/27/19	11/30/19	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P9K2001	11/20/19	11/20/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**403**	266	mg/kg dry	10	P9K2207	11/22/19	11/26/19	TPH 8015M	
>C12-C28	**13700**	266	mg/kg dry	10	P9K2207	11/22/19	11/26/19	TPH 8015M	
>C28-C35	**393**	266	mg/kg dry	10	P9K2207	11/22/19	11/26/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*104 %*	*70-130*		*P9K2207*	*11/22/19*	*11/26/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*138 %*	*70-130*		*P9K2207*	*11/22/19*	*11/26/19*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	**14500**	266	mg/kg dry	10	[CALC]	11/22/19	11/26/19	calc	

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Chevron-Culebra Bluff
Project Number: 19-0180-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-3

9K19001-03 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*104 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*102 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1540**	5.26	mg/kg dry	5	P9K2714	11/27/19	11/30/19	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P9K2001	11/20/19	11/20/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
>C12-C28	**183**	26.3	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
>C28-C35	**52.9**	26.3	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*120 %*	*70-130*		*P9K2207*	*11/22/19*	*11/22/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*132 %*	*70-130*		*P9K2207*	*11/22/19*	*11/22/19*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	**236**	26.3	mg/kg dry	1	[CALC]	11/22/19	11/22/19	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Chevron-Culebra Bluff
Project Number: 19-0180-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-4

9K19001-04 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*110 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*106 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**6770**	10.9	mg/kg dry	10	P9K2714	11/27/19	12/01/19	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P9K2001	11/20/19	11/20/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
>C12-C28	**2190**	27.2	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
>C28-C35	**1070**	27.2	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*121 %*	*70-130*		*P9K2207*	*11/22/19*	*11/22/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*136 %*	*70-130*		*P9K2207*	*11/22/19*	*11/22/19*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	**3260**	27.2	mg/kg dry	1	[CALC]	11/22/19	11/22/19	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Chevron-Culebra Bluff	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 19-0180-07	
Midland TX, 79710	Project Manager: Mark Larson	

S-5

9K19001-05 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*111 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*107 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1610**	10.4	mg/kg dry	10	P9K2714	11/27/19	12/01/19	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P9K2001	11/20/19	11/20/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
>C12-C28	**139**	26.0	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
>C28-C35	**59.1**	26.0	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*109 %*	*70-130*		*P9K2207*	*11/22/19*	*11/22/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*117 %*	*70-130*		*P9K2207*	*11/22/19*	*11/22/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**198**	26.0	mg/kg dry	1	[CALC]	11/22/19	11/22/19	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Chevron-Culebra Bluff	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 19-0180-07	
Midland TX, 79710	Project Manager: Mark Larson	

S-6

9K19001-06 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*110 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*106 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**5550**	10.5	mg/kg dry	10	P9K2714	11/27/19	12/01/19	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P9K2001	11/20/19	11/20/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
>C12-C28	**417**	26.3	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
>C28-C35	**110**	26.3	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*87.9 %*	*70-130*		*P9K2207*	*11/22/19*	*11/22/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*92.2 %*	*70-130*		*P9K2207*	*11/22/19*	*11/22/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**527**	26.3	mg/kg dry	1	[CALC]	11/22/19	11/22/19	calc	

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Chevron-Culebra Bluff
Project Number: 19-0180-07
Project Manager: Mark Larson

Fax: (432) 687-0456

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9K19001-07 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*117 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*105 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**7130**	11.0	mg/kg dry	10	P9K2714	11/27/19	12/01/19	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P9K2001	11/20/19	11/20/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.5	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
>C12-C28	**243**	27.5	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
>C28-C35	**87.2**	27.5	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.8 %*	*70-130*		*P9K2207*	*11/22/19*	*11/22/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*95.0 %*	*70-130*		*P9K2207*	*11/22/19*	*11/22/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**330**	27.5	mg/kg dry	1	[CALC]	11/22/19	11/22/19	calc	

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Larson & Associates, Inc.	Project: Chevron-Culebra Bluff	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 19-0180-07	
Midland TX, 79710	Project Manager: Mark Larson	

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9K19001-08 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*111 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.9 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2940**	5.26	mg/kg dry	5	P9K2714	11/27/19	12/01/19	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P9K2001	11/20/19	11/20/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
>C12-C28	**84.3**	26.3	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
>C28-C35	**28.9**	26.3	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*84.6 %*	*70-130*		*P9K2207*	*11/22/19*	*11/22/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*89.3 %*	*70-130*		*P9K2207*	*11/22/19*	*11/22/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**113**	26.3	mg/kg dry	1	[CALC]	11/22/19	11/22/19	calc	

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Larson & Associates, Inc.	Project: Chevron-Culebra Bluff	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 19-0180-07	
Midland TX, 79710	Project Manager: Mark Larson	

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9K19001-09 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*106 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*103 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**6350**	10.6	mg/kg dry	10	P9K3002	11/30/19	12/02/19	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P9K2001	11/20/19	11/20/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
>C12-C28	**189**	26.6	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
>C28-C35	**76.0**	26.6	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*80.2 %*	*70-130*		*P9K2207*	*11/22/19*	*11/22/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*85.8 %*	*70-130*		*P9K2207*	*11/22/19*	*11/22/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**265**	26.6	mg/kg dry	1	[CALC]	11/22/19	11/22/19	calc	

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Chevron-Culebra Bluff
Project Number: 19-0180-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-10

9K19001-10 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*110 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.9 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**5120**	10.5	mg/kg dry	10	P9K3002	11/30/19	12/02/19	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P9K2001	11/20/19	11/20/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
>C12-C28	**139**	26.3	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
>C28-C35	**55.4**	26.3	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*78.1 %*	*70-130*		*P9K2207*	*11/22/19*	*11/22/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*83.8 %*	*70-130*		*P9K2207*	*11/22/19*	*11/22/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**194**	26.3	mg/kg dry	1	[CALC]	11/22/19	11/22/19	calc	

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Chevron-Culebra Bluff
Project Number: 19-0180-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-11

9K19001-11 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*106 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*85.5 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1160**	5.21	mg/kg dry	5	P9K3002	11/30/19	12/02/19	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P9K2001	11/20/19	11/20/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
>C12-C28	**162**	26.0	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
>C28-C35	**67.1**	26.0	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*83.6 %*	*70-130*		*P9K2207*	*11/22/19*	*11/22/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*89.1 %*	*70-130*		*P9K2207*	*11/22/19*	*11/22/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**229**	26.0	mg/kg dry	1	[CALC]	11/22/19	11/22/19	calc	

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Larson & Associates, Inc.	Project: Chevron-Culebra Bluff	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 19-0180-07	
Midland TX, 79710	Project Manager: Mark Larson	

S-12

9K19001-12 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*126 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*107 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1330**	5.21	mg/kg dry	5	P9K3002	11/30/19	12/02/19	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P9K2001	11/20/19	11/20/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
>C12-C28	**432**	26.0	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
>C28-C35	**144**	26.0	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*82.7 %*	*70-130*		*P9K2207*	*11/22/19*	*11/22/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*87.7 %*	*70-130*		*P9K2207*	*11/22/19*	*11/22/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**575**	26.0	mg/kg dry	1	[CALC]	11/22/19	11/22/19	calc	

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Chevron-Culebra Bluff
Project Number: 19-0180-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-13

9K19001-13 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*106 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*94.1 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**3720**	10.3	mg/kg dry	10	P9K3002	11/30/19	12/02/19	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P9K2001	11/20/19	11/20/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
>C12-C28	**410**	25.8	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
>C28-C35	**135**	25.8	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*73.3 %*	*70-130*		*P9K2207*	*11/22/19*	*11/22/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*79.7 %*	*70-130*		*P9K2207*	*11/22/19*	*11/22/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**545**	25.8	mg/kg dry	1	[CALC]	11/22/19	11/22/19	calc	

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Larson & Associates, Inc.	Project: Chevron-Culebra Bluff	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 19-0180-07	
Midland TX, 79710	Project Manager: Mark Larson	

S-14

9K19001-14 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*111 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.1 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**640**	1.09	mg/kg dry	1	P9K3002	11/30/19	12/02/19	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P9K2001	11/20/19	11/20/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
>C12-C28	**42.8**	27.2	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*86.9 %*	*70-130*		*P9K2207*	*11/22/19*	*11/22/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*93.4 %*	*70-130*		*P9K2207*	*11/22/19*	*11/22/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**42.8**	27.2	mg/kg dry	1	[CALC]	11/22/19	11/22/19	calc	

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Chevron-Culebra Bluff
Project Number: 19-0180-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-15

9K19001-15 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*110 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*111 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2520**	10.6	mg/kg dry	10	P9K3002	11/30/19	12/02/19	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P9K2001	11/20/19	11/20/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
>C12-C28	**1270**	26.6	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
>C28-C35	**342**	26.6	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*85.2 %*	*70-130*		*P9K2207*	*11/22/19*	*11/22/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*99.1 %*	*70-130*		*P9K2207*	*11/22/19*	*11/22/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**1610**	26.6	mg/kg dry	1	[CALC]	11/22/19	11/22/19	calc	

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Chevron-Culebra Bluff
Project Number: 19-0180-07
Project Manager: Mark Larson

Fax: (432) 687-0456

S-16

9K19001-16 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*90.6 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*93.6 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**7360**	10.4	mg/kg dry	10	P9K3002	11/30/19	12/02/19	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P9K2001	11/20/19	11/20/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	260	mg/kg dry	10	P9K2207	11/22/19	11/26/19	TPH 8015M	
>C12-C28	**24000**	260	mg/kg dry	10	P9K2207	11/22/19	11/26/19	TPH 8015M	
>C28-C35	**3460**	260	mg/kg dry	10	P9K2207	11/22/19	11/26/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*85.4 %*	*70-130*		*P9K2207*	*11/22/19*	*11/26/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*127 %*	*70-130*		*P9K2207*	*11/22/19*	*11/26/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**27500**	260	mg/kg dry	10	[CALC]	11/22/19	11/26/19	calc	

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Larson & Associates, Inc.	Project: Chevron-Culebra Bluff	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 19-0180-07	
Midland TX, 79710	Project Manager: Mark Larson	

S-17

9K19001-17 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*104 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*94.7 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**10700**	10.9	mg/kg dry	10	P9K3002	11/30/19	12/02/19	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P9K2001	11/20/19	11/20/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
>C12-C28	**1320**	27.2	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
>C28-C35	**247**	27.2	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.3 %*	*70-130*		*P9K2207*	*11/22/19*	*11/22/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*101 %*	*70-130*		*P9K2207*	*11/22/19*	*11/22/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**1570**	27.2	mg/kg dry	1	[CALC]	11/22/19	11/22/19	calc	

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Larson & Associates, Inc.	Project: Chevron-Culebra Bluff	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 19-0180-07	
Midland TX, 79710	Project Manager: Mark Larson	

S-18

9K19001-18 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*92.0 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*86.8 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**7090**	10.8	mg/kg dry	10	P9K3002	11/30/19	12/02/19	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P9K2001	11/20/19	11/20/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
>C12-C28	**433**	26.9	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
>C28-C35	**71.2**	26.9	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*76.8 %*	*70-130*		*P9K2207*	*11/22/19*	*11/22/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*85.0 %*	*70-130*		*P9K2207*	*11/22/19*	*11/22/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**504**	26.9	mg/kg dry	1	[CALC]	11/22/19	11/22/19	calc	

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Larson & Associates, Inc.	Project: Chevron-Culebra Bluff	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 19-0180-07	
Midland TX, 79710	Project Manager: Mark Larson	

S-19

9K19001-19 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9K2203	11/22/19	11/22/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9K2203	11/22/19	11/22/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9K2203	11/22/19	11/22/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9K2203	11/22/19	11/22/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9K2203	11/22/19	11/22/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*108 %*	*75-125*		*P9K2203*	*11/22/19*	*11/22/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*87.9 %*	*75-125*		*P9K2203*	*11/22/19*	*11/22/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1120**	5.15	mg/kg dry	5	P9K3002	11/30/19	12/02/19	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P9K2001	11/20/19	11/20/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
>C12-C28	**363**	25.8	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
>C28-C35	**94.6**	25.8	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*98.3 %*	*70-130*		*P9K2207*	*11/22/19*	*11/22/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*103 %*	*70-130*		*P9K2207*	*11/22/19*	*11/22/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**458**	25.8	mg/kg dry	1	[CALC]	11/22/19	11/22/19	calc	

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Larson & Associates, Inc.	Project: Chevron-Culebra Bluff	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 19-0180-07	
Midland TX, 79710	Project Manager: Mark Larson	

S-20

9K19001-20 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9K2203	11/22/19	11/22/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9K2203	11/22/19	11/22/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9K2203	11/22/19	11/22/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9K2203	11/22/19	11/22/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9K2203	11/22/19	11/22/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*107 %*	*75-125*		*P9K2203*	*11/22/19*	*11/22/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*91.5 %*	*75-125*		*P9K2203*	*11/22/19*	*11/22/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**5590**	10.5	mg/kg dry	10	P9K3002	11/30/19	12/02/19	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P9K2001	11/20/19	11/20/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**29.3**	26.3	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
>C12-C28	**4730**	26.3	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
>C28-C35	**584**	26.3	mg/kg dry	1	P9K2207	11/22/19	11/22/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*82.3 %*	*70-130*		*P9K2207*	*11/22/19*	*11/22/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*93.7 %*	*70-130*		*P9K2207*	*11/22/19*	*11/22/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**5340**	26.3	mg/kg dry	1	[CALC]	11/22/19	11/22/19	calc	

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Larson & Associates, Inc.	Project: Chevron-Culebra Bluff	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 19-0180-07	
Midland TX, 79710	Project Manager: Mark Larson	

S-21

9K19001-21 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9K2203	11/22/19	11/22/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9K2203	11/22/19	11/22/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9K2203	11/22/19	11/22/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9K2203	11/22/19	11/22/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9K2203	11/22/19	11/22/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*75-125*		*P9K2203*	*11/22/19*	*11/22/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*114 %*	*75-125*		*P9K2203*	*11/22/19*	*11/22/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**4720**	10.6	mg/kg dry	10	P9L0311	12/03/19	12/03/19	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P9K2001	11/20/19	11/20/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	266	mg/kg dry	10	P9K2207	11/22/19	11/26/19	TPH 8015M	
>C12-C28	**15000**	266	mg/kg dry	10	P9K2207	11/22/19	11/26/19	TPH 8015M	
>C28-C35	**1490**	266	mg/kg dry	10	P9K2207	11/22/19	11/26/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.7 %*	*70-130*		*P9K2207*	*11/22/19*	*11/26/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*110 %*	*70-130*		*P9K2207*	*11/22/19*	*11/26/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**16500**	266	mg/kg dry	10	[CALC]	11/22/19	11/26/19	calc	

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Larson & Associates, Inc.	Project: Chevron-Culebra Bluff	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 19-0180-07	
Midland TX, 79710	Project Manager: Mark Larson	

S-22

9K19001-22 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9K2203	11/22/19	11/22/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9K2203	11/22/19	11/22/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9K2203	11/22/19	11/22/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9K2203	11/22/19	11/22/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9K2203	11/22/19	11/22/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*106 %*	*75-125*		*P9K2203*	*11/22/19*	*11/22/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.8 %*	*75-125*		*P9K2203*	*11/22/19*	*11/22/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**3270**	10.6	mg/kg dry	10	P9L0311	12/03/19	12/03/19	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P9K2001	11/20/19	11/20/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	133	mg/kg dry	5	P9K2208	11/22/19	11/26/19	TPH 8015M	
>C12-C28	**10500**	133	mg/kg dry	5	P9K2208	11/22/19	11/26/19	TPH 8015M	
>C28-C35	**1520**	133	mg/kg dry	5	P9K2208	11/22/19	11/26/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*106 %*	*70-130*		*P9K2208*	*11/22/19*	*11/26/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*125 %*	*70-130*		*P9K2208*	*11/22/19*	*11/26/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**12000**	133	mg/kg dry	5	[CALC]	11/22/19	11/26/19	calc	

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Chevron-Culebra Bluff
Project Number: 19-0180-07
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9K2103 - General Preparation (GC)										
Blank (P9K2103-BLK1)				Prepared & Analyzed: 11/21/19						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00200	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	*0.128*		*"*	*0.120*		*107*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.126*		*"*	*0.120*		*105*	*75-125*			
LCS (P9K2103-BS1)				Prepared & Analyzed: 11/21/19						
Benzene	0.0925	0.00100	mg/kg wet	0.100		92.5	80-120			
Toluene	0.0973	0.00100	"	0.100		97.3	80-120			
Ethylbenzene	0.110	0.00200	"	0.100		110	80-120			
Xylene (p/m)	0.178	0.00100	"	0.200		89.2	80-120			
Xylene (o)	0.0966	0.00100	"	0.100		96.6	80-120			
Surrogate: 4-Bromofluorobenzene	*0.115*		*"*	*0.120*		*96.1*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.122*		*"*	*0.120*		*102*	*75-125*			
LCS Dup (P9K2103-BSD1)				Prepared & Analyzed: 11/21/19						
Benzene	0.0945	0.00100	mg/kg wet	0.100		94.5	80-120	2.17	20	
Toluene	0.0972	0.00100	"	0.100		97.2	80-120	0.113	20	
Ethylbenzene	0.107	0.00200	"	0.100		107	80-120	2.71	20	
Xylene (p/m)	0.181	0.00100	"	0.200		90.6	80-120	1.57	20	
Xylene (o)	0.0978	0.00100	"	0.100		97.8	80-120	1.34	20	
Surrogate: 4-Bromofluorobenzene	*0.122*		*"*	*0.120*		*102*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.135*		*"*	*0.120*		*113*	*75-125*			
Calibration Blank (P9K2103-CCB1)				Prepared & Analyzed: 11/21/19						
Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.121*		*"*	*0.120*		*101*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.120*		*"*	*0.120*		*100*	*75-125*			

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Midland TX, 79710

Project: Chevron-Culebra Bluff
Project Number: 19-0180-07
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9K2103 - General Preparation (GC)										
Calibration Blank (P9K2103-CCB2)				Prepared: 11/21/19 Analyzed: 11/22/19						
Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.125*		*"*	*0.120*		*104*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.108*		*"*	*0.120*		*89.9*	*75-125*			
Calibration Check (P9K2103-CCV1)				Prepared & Analyzed: 11/21/19						
Benzene	0.0890	0.00100	mg/kg wet	0.100		89.0	80-120			
Toluene	0.0891	0.00100	"	0.100		89.1	80-120			
Ethylbenzene	0.102	0.00200	"	0.100		102	80-120			
Xylene (p/m)	0.167	0.00100	"	0.200		83.3	80-120			
Xylene (o)	0.0932	0.00100	"	0.100		93.2	80-120			
Surrogate: 4-Bromofluorobenzene	*0.113*		*"*	*0.120*		*94.4*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.125*		*"*	*0.120*		*104*	*75-125*			
Calibration Check (P9K2103-CCV2)				Prepared: 11/21/19 Analyzed: 11/22/19						
Benzene	0.0852	0.00100	mg/kg wet	0.100		85.2	80-120			
Toluene	0.0856	0.00100	"	0.100		85.6	80-120			
Ethylbenzene	0.0921	0.00200	"	0.100		92.1	80-120			
Xylene (p/m)	0.164	0.00100	"	0.200		82.0	80-120			
Xylene (o)	0.0907	0.00100	"	0.100		90.7	80-120			
Surrogate: 4-Bromofluorobenzene	*0.105*		*"*	*0.120*		*87.8*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.121*		*"*	*0.120*		*101*	*75-125*			
Calibration Check (P9K2103-CCV3)				Prepared: 11/21/19 Analyzed: 11/22/19						
Benzene	0.0890	0.00100	mg/kg wet	0.100		89.0	80-120			
Toluene	0.0935	0.00100	"	0.100		93.5	80-120			
Ethylbenzene	0.103	0.00200	"	0.100		103	80-120			
Xylene (p/m)	0.175	0.00100	"	0.200		87.5	80-120			
Xylene (o)	0.0955	0.00100	"	0.100		95.5	80-120			
Surrogate: 4-Bromofluorobenzene	*0.105*		*"*	*0.120*		*87.3*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.128*		*"*	*0.120*		*106*	*75-125*			

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Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9K2103 - General Preparation (GC)										
Matrix Spike (P9K2103-MS1)	**Source: 9K18006-11**			Prepared: 11/21/19 Analyzed: 11/22/19						
Benzene	0.0650	0.00100	mg/kg dry	0.102	ND	63.7	80-120			QM-07
Toluene	0.0598	0.00100	"	0.102	ND	58.6	80-120			QM-07
Ethylbenzene	0.0734	0.00200	"	0.102	ND	71.9	80-120			QM-07
Xylene (p/m)	0.116	0.00100	"	0.204	ND	56.7	80-120			QM-07
Xylene (o)	0.0604	0.00100	"	0.102	ND	59.2	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	*0.117*		*"*	*0.122*		*95.9*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.135*		*"*	*0.122*		*110*	*75-125*			
Matrix Spike Dup (P9K2103-MSD1)	**Source: 9K18006-11**			Prepared: 11/21/19 Analyzed: 11/22/19						
Benzene	0.0568	0.00100	mg/kg dry	0.102	ND	55.6	80-120	13.5	20	QM-07
Toluene	0.0496	0.00100	"	0.102	ND	48.6	80-120	18.6	20	QM-07
Ethylbenzene	0.0591	0.00200	"	0.102	ND	57.9	80-120	21.6	20	QM-07
Xylene (p/m)	0.0998	0.00100	"	0.204	ND	48.9	80-120	14.7	20	QM-07
Xylene (o)	0.0567	0.00100	"	0.102	ND	55.5	80-120	6.30	20	QM-07
Surrogate: 4-Bromofluorobenzene	*0.106*		*"*	*0.122*		*86.4*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.120*		*"*	*0.122*		*97.8*	*75-125*			
Batch P9K2203 - General Preparation (GC)										
Blank (P9K2203-BLK1)				Prepared & Analyzed: 11/22/19						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00200	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	*0.144*		*"*	*0.120*		*120*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*95.9*	*75-125*			

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Project Number: 19-0180-07
Project Manager: Mark Larson

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Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9K2203 - General Preparation (GC)										
LCS (P9K2203-BS1)				Prepared & Analyzed: 11/22/19						
Benzene	0.0992	0.00100	mg/kg wet	0.100		99.2	80-120			
Toluene	0.104	0.00100	"	0.100		104	80-120			
Ethylbenzene	0.113	0.00200	"	0.100		113	80-120			
Xylene (p/m)	0.215	0.00100	"	0.200		107	80-120			
Xylene (o)	0.114	0.00100	"	0.100		114	80-120			
Surrogate: 4-Bromofluorobenzene	*0.126*		*"*	*0.120*		*105*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.125*		*"*	*0.120*		*104*	*75-125*			
LCS Dup (P9K2203-BSD1)				Prepared & Analyzed: 11/22/19						
Benzene	0.109	0.00100	mg/kg wet	0.100		109	80-120	9.58	20	
Toluene	0.119	0.00100	"	0.100		119	80-120	13.9	20	
Ethylbenzene	0.117	0.00200	"	0.100		117	80-120	3.06	20	
Xylene (p/m)	0.239	0.00100	"	0.200		120	80-120	10.9	20	
Xylene (o)	0.120	0.00100	"	0.100		120	80-120	5.33	20	
Surrogate: 4-Bromofluorobenzene	*0.132*		*"*	*0.120*		*110*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.129*		*"*	*0.120*		*107*	*75-125*			
Calibration Blank (P9K2203-CCB1)				Prepared & Analyzed: 11/22/19						
Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.135*		*"*	*0.120*		*113*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.108*		*"*	*0.120*		*90.0*	*75-125*			
Calibration Blank (P9K2203-CCB2)				Prepared & Analyzed: 11/22/19						
Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.110*		*"*	*0.120*		*91.5*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.0922*		*"*	*0.120*		*76.8*	*75-125*			

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Project Manager: Mark Larson

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Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9K2203 - General Preparation (GC)										
Calibration Check (P9K2203-CCV1)				Prepared & Analyzed: 11/22/19						
Benzene	0.0991	0.00100	mg/kg wet	0.100		99.1	80-120			
Toluene	0.112	0.00100	"	0.100		112	80-120			
Ethylbenzene	0.118	0.00200	"	0.100		118	80-120			
Xylene (p/m)	0.229	0.00100	"	0.200		115	80-120			
Xylene (o)	0.114	0.00100	"	0.100		114	80-120			
Surrogate: 4-Bromofluorobenzene	*0.122*		*"*	*0.120*		*102*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.125*		*"*	*0.120*		*104*	*75-125*			
Calibration Check (P9K2203-CCV2)				Prepared & Analyzed: 11/22/19						
Benzene	0.0974	0.00100	mg/kg wet	0.100		97.4	80-120			
Toluene	0.112	0.00100	"	0.100		112	80-120			
Ethylbenzene	0.115	0.00200	"	0.100		115	80-120			
Xylene (p/m)	0.219	0.00100	"	0.200		110	80-120			
Xylene (o)	0.114	0.00100	"	0.100		114	80-120			
Surrogate: 4-Bromofluorobenzene	*0.134*		*"*	*0.120*		*112*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.132*		*"*	*0.120*		*110*	*75-125*			
Calibration Check (P9K2203-CCV3)				Prepared & Analyzed: 11/22/19						
Benzene	0.0993	0.00100	mg/kg wet	0.100		99.3	80-120			
Toluene	0.105	0.00100	"	0.100		105	80-120			
Ethylbenzene	0.112	0.00200	"	0.100		112	80-120			
Xylene (p/m)	0.218	0.00100	"	0.200		109	80-120			
Xylene (o)	0.110	0.00100	"	0.100		110	80-120			
Surrogate: 4-Bromofluorobenzene	*0.126*		*"*	*0.120*		*105*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.126*		*"*	*0.120*		*105*	*75-125*			
Matrix Spike (P9K2203-MS1)	**Source: 9K19001-19**			Prepared & Analyzed: 11/22/19						
Benzene	0.0853	0.00100	mg/kg dry	0.103	ND	82.8	80-120			
Toluene	0.0853	0.00100	"	0.103	ND	82.8	80-120			
Ethylbenzene	0.101	0.00200	"	0.103	ND	97.7	80-120			
Xylene (p/m)	0.152	0.00100	"	0.206	ND	73.5	80-120			QM-07
Xylene (o)	0.0767	0.00100	"	0.103	ND	74.4	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	*0.145*		*"*	*0.124*		*118*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.160*		*"*	*0.124*		*129*	*75-125*			*S-GC*

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Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9K2203 - General Preparation (GC)										
Matrix Spike Dup (P9K2203-MSD1)	**Source: 9K19001-19**			Prepared & Analyzed: 11/22/19						
Benzene	0.0750	0.00100	mg/kg dry	0.103	ND	72.7	80-120	12.9	20	QM-07
Toluene	0.0725	0.00100	"	0.103	ND	70.3	80-120	16.2	20	QM-07
Ethylbenzene	0.0868	0.00200	"	0.103	ND	84.2	80-120	14.9	20	
Xylene (p/m)	0.137	0.00100	"	0.206	ND	66.7	80-120	9.73	20	QM-07
Xylene (o)	0.0704	0.00100	"	0.103	ND	68.3	80-120	8.51	20	QM-07
Surrogate: 4-Bromofluorobenzene	*0.141*		*"*	*0.124*		*114*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.137*		*"*	*0.124*		*110*	*75-125*			

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General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9K2001 - * DEFAULT PREP *** **										
Blank (P9K2001-BLK1)				Prepared & Analyzed: 11/20/19						
% Moisture	ND	0.1	%							
Duplicate (P9K2001-DUP1)		**Source: 9K19002-04**		Prepared & Analyzed: 11/20/19						
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P9K2001-DUP2)		**Source: 9K19002-26**		Prepared & Analyzed: 11/20/19						
% Moisture	1.0	0.1	%		2.0			66.7	20	
Duplicate (P9K2001-DUP3)		**Source: 9K19004-13**		Prepared & Analyzed: 11/20/19						
% Moisture	ND	0.1	%		ND				20	
Batch P9K2714 - * DEFAULT PREP *** **										
Blank (P9K2714-BLK1)				Prepared: 11/27/19 Analyzed: 11/30/19						
Chloride	ND	0.100	mg/kg wet							
LCS (P9K2714-BS1)				Prepared: 11/27/19 Analyzed: 11/30/19						
Chloride	376	1.00	mg/kg wet	400		94.1	80-120			
LCS Dup (P9K2714-BSD1)				Prepared: 11/27/19 Analyzed: 11/30/19						
Chloride	399	1.00	mg/kg wet	400		99.8	80-120	5.92	20	
Calibration Blank (P9K2714-CCB1)				Prepared: 11/27/19 Analyzed: 11/30/19						
Chloride	0.00		mg/kg wet							
Calibration Blank (P9K2714-CCB2)				Prepared: 11/27/19 Analyzed: 11/30/19						
Chloride	-0.0580		mg/kg wet							

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General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9K2714 - * DEFAULT PREP *** **										
Calibration Check (P9K2714-CCV1)				Prepared: 11/27/19 Analyzed: 11/30/19						
Chloride	22.4		mg/kg	20.0		112	0-200			
Calibration Check (P9K2714-CCV2)				Prepared: 11/27/19 Analyzed: 11/30/19						
Chloride	22.4		mg/kg	20.0		112	0-200			
Calibration Check (P9K2714-CCV3)				Prepared: 11/27/19 Analyzed: 12/01/19						
Chloride	22.2		mg/kg	20.0		111	0-200			
Matrix Spike (P9K2714-MS1)		**Source: 9K26020-09**		Prepared: 11/27/19 Analyzed: 11/30/19						
Chloride	4010	11.2	mg/kg dry	1120	3000	90.0	80-120			
Matrix Spike (P9K2714-MS2)		**Source: 9K18006-11**		Prepared: 11/27/19 Analyzed: 11/30/19						
Chloride	815	5.10	mg/kg dry	510	247	111	80-120			
Matrix Spike Dup (P9K2714-MSD1)		**Source: 9K26020-09**		Prepared: 11/27/19 Analyzed: 11/30/19						
Chloride	4170	11.2	mg/kg dry	1120	3000	104	80-120	3.80	20	
Matrix Spike Dup (P9K2714-MSD2)		**Source: 9K18006-11**		Prepared: 11/27/19 Analyzed: 11/30/19						
Chloride	822	5.10	mg/kg dry	510	247	113	80-120	0.810	20	
Batch P9K3002 - * DEFAULT PREP *** **										
Blank (P9K3002-BLK1)				Prepared: 11/30/19 Analyzed: 12/02/19						
Chloride	ND	0.100	mg/kg wet							
LCS (P9K3002-BS1)				Prepared: 11/30/19 Analyzed: 12/02/19						
Chloride	445	1.00	mg/kg wet	400		111	80-120			

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General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9K3002 - * DEFAULT PREP *** **										
LCS Dup (P9K3002-BSD1)				Prepared: 11/30/19 Analyzed: 12/02/19						
Chloride	445	1.00	mg/kg wet	400		111	80-120	0.124	20	
Calibration Blank (P9K3002-CCB1)				Prepared: 11/30/19 Analyzed: 12/02/19						
Chloride	-0.0500		mg/kg wet							
Calibration Blank (P9K3002-CCB2)				Prepared: 11/30/19 Analyzed: 12/02/19						
Chloride	0.00		mg/kg wet							
Calibration Check (P9K3002-CCV1)				Prepared: 11/30/19 Analyzed: 12/01/19						
Chloride	22.2		mg/kg	20.0		111	0-200			
Calibration Check (P9K3002-CCV2)				Prepared: 11/30/19 Analyzed: 12/02/19						
Chloride	22.4		mg/kg	20.0		112	0-200			
Calibration Check (P9K3002-CCV3)				Prepared: 11/30/19 Analyzed: 12/02/19						
Chloride	22.7		mg/kg	20.0		113	0-200			
Matrix Spike (P9K3002-MS1)		**Source: 9K19009-01**		Prepared: 11/30/19 Analyzed: 12/02/19						
Chloride	1950	5.62	mg/kg dry	562	1320	111	80-120			
Matrix Spike (P9K3002-MS2)		**Source: 9K19001-11**		Prepared: 11/30/19 Analyzed: 12/02/19						
Chloride	1710	5.21	mg/kg dry	521	1160	107	80-120			
Matrix Spike Dup (P9K3002-MSD1)		**Source: 9K19009-01**		Prepared: 11/30/19 Analyzed: 12/02/19						
Chloride	1970	5.62	mg/kg dry	562	1320	115	80-120	1.00	20	
Matrix Spike Dup (P9K3002-MSD2)		**Source: 9K19001-11**		Prepared: 11/30/19 Analyzed: 12/02/19						
Chloride	1730	5.21	mg/kg dry	521	1160	109	80-120	0.696	20	

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Chevron-Culebra Bluff
Project Number: 19-0180-07
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9L0311 - * DEFAULT PREP *** **										
Blank (P9L0311-BLK1)				Prepared & Analyzed: 12/03/19						
Chloride	ND	0.100	mg/kg wet							
LCS (P9L0311-BS1)				Prepared & Analyzed: 12/03/19						
Chloride	411	1.00	mg/kg wet	400		103	80-120			
LCS Dup (P9L0311-BSD1)				Prepared & Analyzed: 12/03/19						
Chloride	411	1.00	mg/kg wet	400		103	80-120	0.124	20	
Calibration Blank (P9L0311-CCB1)				Prepared & Analyzed: 12/03/19						
Chloride	0.00		mg/kg wet							
Calibration Blank (P9L0311-CCB2)				Prepared & Analyzed: 12/03/19						
Chloride	0.00		mg/kg wet							
Calibration Check (P9L0311-CCV1)				Prepared & Analyzed: 12/03/19						
Chloride	20.0		mg/kg	20.0		100	0-200			
Calibration Check (P9L0311-CCV2)				Prepared & Analyzed: 12/03/19						
Chloride	20.5		mg/kg	20.0		103	0-200			
Calibration Check (P9L0311-CCV3)				Prepared: 12/03/19 Analyzed: 12/04/19						
Chloride	20.6		mg/kg	20.0		103	0-200			
Matrix Spike (P9L0311-MS1)		**Source: 9K19001-21**		Prepared & Analyzed: 12/03/19						
Chloride	5670	10.6	mg/kg dry	1060	4720	90.1	80-120			
Matrix Spike (P9L0311-MS2)		**Source: 9K19002-18**		Prepared & Analyzed: 12/03/19						
Chloride	1530	5.56	mg/kg dry	556	993	96.3	80-120			

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Larson & Associates, Inc.	Project: Chevron-Culebra Bluff	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 19-0180-07	
Midland TX, 79710	Project Manager: Mark Larson	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9L0311 - * DEFAULT PREP *** **										
Matrix Spike Dup (P9L0311-MSD1)	**Source: 9K19001-21**			Prepared & Analyzed: 12/03/19						
Chloride	5680	10.6	mg/kg dry	1060	4720	91.1	80-120	0.189	20	
Matrix Spike Dup (P9L0311-MSD2)	**Source: 9K19002-18**			Prepared & Analyzed: 12/03/19						
Chloride	1530	5.56	mg/kg dry	556	993	97.3	80-120	0.392	20	

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Larson & Associates, Inc.	Project: Chevron-Culebra Bluff	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 19-0180-07	
Midland TX, 79710	Project Manager: Mark Larson	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9K2006 - TX 1005										
Blank (P9K2006-BLK1)				Prepared: 11/20/19 Analyzed: 11/22/19						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*92.8*		*"*	*100*		*92.8*	*70-130*			
Surrogate: o-Terphenyl	*48.7*		*"*	*50.0*		*97.4*	*70-130*			
LCS (P9K2006-BS1)				Prepared: 11/20/19 Analyzed: 11/22/19						
C6-C12	890	25.0	mg/kg wet	1000		89.0	75-125			
>C12-C28	940	25.0	"	1000		94.0	75-125			
Surrogate: 1-Chlorooctane	*111*		*"*	*100*		*111*	*70-130*			
Surrogate: o-Terphenyl	*47.0*		*"*	*50.0*		*94.1*	*70-130*			
LCS Dup (P9K2006-BSD1)				Prepared: 11/20/19 Analyzed: 11/22/19						
C6-C12	806	25.0	mg/kg wet	1000		80.6	75-125	9.93	20	
>C12-C28	846	25.0	"	1000		84.6	75-125	10.6	20	
Surrogate: 1-Chlorooctane	*97.4*		*"*	*100*		*97.4*	*70-130*			
Surrogate: o-Terphenyl	*42.3*		*"*	*50.0*		*84.6*	*70-130*			
Calibration Check (P9K2006-CCV1)				Prepared: 11/20/19 Analyzed: 11/22/19						
C6-C12	474	25.0	mg/kg wet	500		94.9	85-115			
>C12-C28	511	25.0	"	500		102	85-115			
Surrogate: 1-Chlorooctane	*112*		*"*	*100*		*112*	*70-130*			
Surrogate: o-Terphenyl	*48.6*		*"*	*50.0*		*97.1*	*70-130*			
Calibration Check (P9K2006-CCV2)				Prepared: 11/20/19 Analyzed: 11/22/19						
C6-C12	461	25.0	mg/kg wet	500		92.2	85-115			
>C12-C28	501	25.0	"	500		100	85-115			
Surrogate: 1-Chlorooctane	*110*		*"*	*100*		*110*	*70-130*			
Surrogate: o-Terphenyl	*47.7*		*"*	*50.0*		*95.5*	*70-130*			

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Chevron-Culebra Bluff
Project Number: 19-0180-07
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9K2006 - TX 1005										
Calibration Check (P9K2006-CCV3)				Prepared: 11/20/19 Analyzed: 11/22/19						
C6-C12	492	25.0	mg/kg wet	500		98.4	85-115			
>C12-C28	504	25.0	"	500		101	85-115			
Surrogate: 1-Chlorooctane	*114*		*"*	*100*		*114*	*70-130*			
Surrogate: o-Terphenyl	*48.7*		*"*	*50.0*		*97.4*	*70-130*			
Matrix Spike (P9K2006-MS1)		**Source: 9K19001-01**		Prepared: 11/20/19 Analyzed: 11/22/19						
C6-C12	931	26.6	mg/kg dry	1060	11.8	86.4	75-125			
>C12-C28	1010	26.6	"	1060	12.2	94.0	75-125			
Surrogate: 1-Chlorooctane	*125*		*"*	*106*		*118*	*70-130*			
Surrogate: o-Terphenyl	*51.6*		*"*	*53.2*		*97.0*	*70-130*			
Matrix Spike Dup (P9K2006-MSD1)		**Source: 9K19001-01**		Prepared: 11/20/19 Analyzed: 11/22/19						
C6-C12	958	26.6	mg/kg dry	1060	11.8	89.0	75-125	2.92	20	
>C12-C28	1050	26.6	"	1060	12.2	97.4	75-125	3.65	20	
Surrogate: 1-Chlorooctane	*128*		*"*	*106*		*120*	*70-130*			
Surrogate: o-Terphenyl	*50.5*		*"*	*53.2*		*95.0*	*70-130*			
Batch P9K2207 - TX 1005										
Blank (P9K2207-BLK1)				Prepared & Analyzed: 11/22/19						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*91.6*		*"*	*100*		*91.6*	*70-130*			
Surrogate: o-Terphenyl	*48.0*		*"*	*50.0*		*96.1*	*70-130*			
LCS (P9K2207-BS1)				Prepared & Analyzed: 11/22/19						
C6-C12	935	25.0	mg/kg wet	1000		93.5	75-125			
>C12-C28	997	25.0	"	1000		99.7	75-125			
Surrogate: 1-Chlorooctane	*116*		*"*	*100*		*116*	*70-130*			
Surrogate: o-Terphenyl	*50.9*		*"*	*50.0*		*102*	*70-130*			

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Chevron-Culebra Bluff
Project Number: 19-0180-07
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9K2207 - TX 1005										
LCS Dup (P9K2207-BSD1)				Prepared & Analyzed: 11/22/19						
C6-C12	791	25.0	mg/kg wet	1000		79.1	75-125	16.7	20	
>C12-C28	859	25.0	"	1000		85.9	75-125	14.8	20	
Surrogate: 1-Chlorooctane	*109*		*"*	*100*		*109*	*70-130*			
Surrogate: o-Terphenyl	*41.6*		*"*	*50.0*		*83.2*	*70-130*			
Calibration Blank (P9K2207-CCB1)				Prepared & Analyzed: 11/22/19						
C6-C12	13.1		mg/kg wet							
>C12-C28	18.1		"							
Surrogate: 1-Chlorooctane	*102*		*"*	*100*		*102*	*70-130*			
Surrogate: o-Terphenyl	*53.6*		*"*	*50.0*		*107*	*70-130*			
Calibration Blank (P9K2207-CCB2)				Prepared & Analyzed: 11/22/19						
C6-C12	11.3		mg/kg wet							
>C12-C28	23.9		"							
Surrogate: 1-Chlorooctane	*94.6*		*"*	*100*		*94.6*	*70-130*			
Surrogate: o-Terphenyl	*49.1*		*"*	*50.0*		*98.1*	*70-130*			
Calibration Check (P9K2207-CCV1)				Prepared & Analyzed: 11/22/19						
C6-C12	490	25.0	mg/kg wet	500		98.1	85-115			
>C12-C28	532	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	*112*		*"*	*100*		*112*	*70-130*			
Surrogate: o-Terphenyl	*49.6*		*"*	*50.0*		*99.2*	*70-130*			
Calibration Check (P9K2207-CCV2)				Prepared & Analyzed: 11/22/19						
C6-C12	429	25.0	mg/kg wet	500		85.8	85-115			
>C12-C28	470	25.0	"	500		94.0	85-115			
Surrogate: 1-Chlorooctane	*101*		*"*	*100*		*101*	*70-130*			
Surrogate: o-Terphenyl	*43.8*		*"*	*50.0*		*87.6*	*70-130*			

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Chevron-Culebra Bluff
Project Number: 19-0180-07
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9K2208 - TX 1005										
Blank (P9K2208-BLK1)				Prepared: 11/22/19 Analyzed: 11/23/19						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*93.1*		*"*	*100*		*93.1*	*70-130*			
Surrogate: o-Terphenyl	*50.6*		*"*	*50.0*		*101*	*70-130*			
LCS (P9K2208-BS1)				Prepared: 11/22/19 Analyzed: 11/23/19						
C6-C12	924	25.0	mg/kg wet	1000		92.4	75-125			
>C12-C28	1000	25.0	"	1000		100	75-125			
Surrogate: 1-Chlorooctane	*110*		*"*	*100*		*110*	*70-130*			
Surrogate: o-Terphenyl	*48.8*		*"*	*50.0*		*97.6*	*70-130*			
LCS Dup (P9K2208-BSD1)				Prepared: 11/22/19 Analyzed: 11/23/19						
C6-C12	810	25.0	mg/kg wet	1000		81.0	75-125	13.1	20	
>C12-C28	862	25.0	"	1000		86.2	75-125	15.0	20	
Surrogate: 1-Chlorooctane	*99.6*		*"*	*100*		*99.6*	*70-130*			
Surrogate: o-Terphenyl	*43.0*		*"*	*50.0*		*86.1*	*70-130*			
Calibration Blank (P9K2208-CCB1)				Prepared: 11/22/19 Analyzed: 11/23/19						
C6-C12	12.5		mg/kg wet							
>C12-C28	16.7		"							
Surrogate: 1-Chlorooctane	*102*		*"*	*100*		*102*	*70-130*			
Surrogate: o-Terphenyl	*54.6*		*"*	*50.0*		*109*	*70-130*			
Calibration Blank (P9K2208-CCB2)				Prepared: 11/22/19 Analyzed: 11/23/19						
C6-C12	11.5		mg/kg wet							
>C12-C28	19.9		"							
Surrogate: 1-Chlorooctane	*102*		*"*	*100*		*102*	*70-130*			
Surrogate: o-Terphenyl	*54.0*		*"*	*50.0*		*108*	*70-130*			

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Midland TX, 79710

Project: Chevron-Culebra Bluff
Project Number: 19-0180-07
Project Manager: Mark Larson

Fax: (432) 687-0456

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9K2208 - TX 1005										
Calibration Check (P9K2208-CCV1)				Prepared: 11/22/19 Analyzed: 11/23/19						
C6-C12	481	25.0	mg/kg wet	500		96.1	85-115			
>C12-C28	504	25.0	"	500		101	85-115			
Surrogate: 1-Chlorooctane	*113*		*"*	*100*		*113*	*70-130*			
Surrogate: o-Terphenyl	*49.6*		*"*	*50.0*		*99.3*	*70-130*			
Calibration Check (P9K2208-CCV2)				Prepared: 11/22/19 Analyzed: 11/23/19						
C6-C12	499	25.0	mg/kg wet	500		99.8	85-115			
>C12-C28	518	25.0	"	500		104	85-115			
Surrogate: 1-Chlorooctane	*119*		*"*	*100*		*119*	*70-130*			
Surrogate: o-Terphenyl	*51.4*		*"*	*50.0*		*103*	*70-130*			
Duplicate (P9K2208-DUP1)		**Source: 9K19002-15**		Prepared: 11/22/19 Analyzed: 11/23/19						
C6-C12	1070	255	mg/kg dry		1060			1.41	20	
>C12-C28	13700	255	"		13400			1.79	20	
Surrogate: 1-Chlorooctane	*99.7*		*"*	*102*		*97.7*	*70-130*			
Surrogate: o-Terphenyl	*62.0*		*"*	*51.0*		*122*	*70-130*			

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Chevron-Culebra Bluff
Project Number: 19-0180-07
Project Manager: Mark Larson

Fax: (432) 687-0456

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
ROI	Received on Ice
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BULK	Samples received in Bulk soil containers
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 12/5/2019

Brent Barron, Laboratory Director/Technical Director

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If you have received this material in error, please notify us immediately at 432-686-7235.

Larson & Associates, Inc.	Project: Chevron-Culebra Bluff	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 19-0180-07	
Midland TX, 79710	Project Manager: Mark Larson	

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Page 112 of 1002

№ 0577

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 11/19/2019 PAGE 1 OF 1

PO#: LAB WORK ORDER#: 9K19001

PROJECT LOCATION OR NAME: Chevron-Culebra Bluff

LAI PROJECT #: 19-0180-07 COLLECTOR: BD/EC

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST

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 ☐	TBLP - 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
S-1	1	11/18/19	11:30	S	1				X		X		X	X	X													X		
S-2	2		11:31																											
S-3	3		11:32																											
S-4	4		11:33																											
S-5	5		11:34																											
S-6	6		11:37																											
S-7	7		11:40																											
S-8	8		12:29																											
S-9	9		12:31																											
S-10	10		12:38																											
S-11	11		12:39																											
S-12	12		12:42																											
S-13	13		12:44																											
S-14	14		12:47																											
S-15	15		12:58																											
TOTAL		15																												

RELINQUISHED BY:(Signature) DATE/TIME 11.19.19 9:00 RECEIVED BY: (Signature)

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

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

LABORATORY: PBEL

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

LABORATORY USE ONLY: -1.8 CF+1 C2
RECEIVING TEMP: 2.8 THERM#:
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Received by OCD: 5/8/2024 10:38:54 AM

Released to Imaging: 6/25/2024 3:25:17 PM

Page 113 of 1002

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 11/19/2019 PAGE 2 OF 2

PO#: LAB WORK ORDER#: 9K19001

PROJECT LOCATION OR NAME: Chevron - Culebra Bluff

LAI PROJECT #: 19-0180-07 COLLECTOR: RO/EC

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST

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

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

ANALYSES: BTEX ☒ MTBE ☐ | TRPH 418.1 ☐ TPH 1005 ☐ TPH 1008 ☐ | GASOLINE MOD 8015 ☐ | DIESEL - MOD 8015 ☒ | OIL - MOD 8015 ☐ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLD PAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	BTEX ☒ MTBE ☐	TRPH 418.1 ☐ TPH 1005 ☐ TPH 1008 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLD PAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
S-16	16	11/18/19	13:00	S	1				X		X		X	X	X												X		
S-17	17		13:02																										
S-18	18		13:04																										
S-19	19		13:08																										
S-20	20		13:10																										
S-21	21		13:11																										
S-22	22		13:15		4																								
TOTAL																													

RELINQUISHED BY:(Signature) DATE/TIME 11.19.19 9:00 RECEIVED BY: (Signature)

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

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

LABORATORY: PBEL

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

LABORATORY USE ONLY:
RECEIVING TEMP: -2.8 -1.8 THERM#: CF+1 L2
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Received by OCD: 5/8/2024 10:38:54 AM

Released to Imaging: 6/25/2024 3:25:17 PM

Received by OCD: 5/8/2024 10:38:54 AM

Certificate of Analysis Summary 647206

Larson and Associates, Inc., Midland, TX

Project Name: Chevron Culebra Bluff

Project Id: 19-0180-07
Contact: Mark Larson
Project Location: NM

Date Received in Lab: Fri Dec-20-19 11:10 am
Report Date: 31-DEC-19
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	647206-001		647206-002		647206-003		647206-004		647206-005		647206-006	
	Field Id:	S-23 (0.5')		S-23 (1')		S-17 (1.5')		S-10 (5')		S-16 (1')		S-15 (1')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-17-19 10:41		Dec-17-19 10:42		Dec-17-19 13:21		Dec-17-19 13:48		Dec-17-19 14:30		Dec-17-19 15:04	
BTEX by EPA 8021B	***Extracted:***	Dec-26-19 17:15		Dec-26-19 17:15		Dec-26-19 17:15		Dec-26-19 17:15		Dec-26-19 17:15		Dec-26-19 17:15	
	Analyzed:	Dec-27-19 08:20		Dec-27-19 08:40		Dec-27-19 09:00		Dec-27-19 09:21		Dec-27-19 09:41		Dec-27-19 10:02	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00201	0.00201	<0.00200	0.00200	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Toluene		<0.00201	0.00201	<0.00200	0.00200	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Ethylbenzene		<0.00201	0.00201	<0.00200	0.00200	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
m,p-Xylenes		<0.00402	0.00402	<0.00400	0.00400	<0.00403	0.00403	<0.00398	0.00398	<0.00401	0.00401	<0.00401	0.00401
o-Xylene		<0.00201	0.00201	<0.00200	0.00200	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Total Xylenes		<0.00201	0.00201	<0.00200	0.00200	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Total BTEX		<0.00201	0.00201	<0.00200	0.00200	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Chloride by EPA 300	***Extracted:***	Dec-20-19 16:05		Dec-20-19 16:05		Dec-20-19 16:05		Dec-20-19 16:05		Dec-20-19 16:05		Dec-20-19 16:05	
	Analyzed:	Dec-20-19 22:24		Dec-20-19 22:31		Dec-20-19 22:38		Dec-20-19 22:45		Dec-20-19 22:53		Dec-20-19 23:00	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		6.05	5.00	9.26	5.00	6040	50.0	1340	5.00	1470	25.0	4960	50.0
TPH By SW8015 Mod	***Extracted:***	Dec-20-19 17:00		Dec-20-19 17:00		Dec-20-19 17:00		Dec-20-19 17:00		Dec-20-19 17:00		Dec-20-19 17:00	
	Analyzed:	Dec-21-19 13:23		Dec-21-19 14:27		Dec-21-19 14:48		Dec-21-19 15:09		Dec-21-19 15:30		Dec-21-19 15:51	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons		<49.9	49.9	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0	<50.0	50.0
Diesel Range Organics		<49.9	49.9	<49.9	49.9	703	49.8	<50.0	50.0	<50.0	50.0	1070	50.0
Oil Range Hydrocarbons		<49.9	49.9	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0	205	50.0
Total TPH		<49.9	49.9	<49.9	49.9	703	49.8	<50.0	50.0	<50.0	50.0	1280	50.0

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Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor
Project Manager

Final 1.000

Released to Imaging: 6/25/2024 3:25:17 PM

Certificate of Analysis Summary 647206

Larson and Associates, Inc., Midland, TX

Project Name: Chevron Culebra Bluff

Project Id: 19-0180-07
Contact: Mark Larson
Project Location: NM

Date Received in Lab: Fri Dec-20-19 11:10 am
Report Date: 31-DEC-19
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	647206-007		647206-008		647206-009		647206-010		647206-011		647206-012	
	Field Id:	S-14 (5')		S-13 (5')		S-12 (5')		S-12 (7')		S-11 (5')		S-11 (7')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-17-19 15:15		Dec-17-19 15:43		Dec-17-19 16:09		Dec-17-19 16:10		Dec-17-19 16:42		Dec-17-19 16:45	
BTEX by EPA 8021B	*Extracted:*	Dec-26-19 17:15		Dec-26-19 17:15		Dec-26-19 17:15		Dec-26-19 17:15		Dec-29-19 12:00		Dec-29-19 12:00	
	Analyzed:	Dec-27-19 10:22		Dec-27-19 10:43		Dec-27-19 11:03		Dec-27-19 11:24		Dec-29-19 21:20		Dec-29-19 21:41	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00199	0.00199
Toluene		<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00199	0.00199
Ethylbenzene		<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00199	0.00199
m,p-Xylenes		<0.00402	0.00402	<0.00401	0.00401	<0.00399	0.00399	<0.00398	0.00398	<0.00398	0.00398	<0.00398	0.00398
o-Xylene		<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00199	0.00199
Total Xylenes		<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00199	0.00199
Total BTEX		<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00199	0.00199
Chloride by EPA 300	*Extracted:*	Dec-20-19 16:25		Dec-20-19 16:25		Dec-20-19 16:25		Dec-20-19 16:25		Dec-20-19 16:25		Dec-20-19 16:25	
	Analyzed:	Dec-22-19 16:32		Dec-22-19 16:13		Dec-22-19 16:39		Dec-22-19 16:45		Dec-22-19 16:52		Dec-22-19 17:12	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1120	4.96	1080	5.04	671	5.00	828	5.03	1540	25.1	992	4.98
TPH By SW8015 Mod	*Extracted:*	Dec-20-19 17:00		Dec-20-19 17:00		Dec-20-19 17:00		Dec-20-19 17:00		Dec-20-19 17:00		Dec-20-19 17:00	
	Analyzed:	Dec-21-19 16:12		Dec-21-19 16:33		Dec-21-19 16:54		Dec-21-19 17:15		Dec-21-19 17:57		Dec-21-19 18:18	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons		<49.9	49.9	<50.0	50.0	<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9
Diesel Range Organics		<49.9	49.9	<50.0	50.0	<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9
Oil Range Hydrocarbons		<49.9	49.9	<50.0	50.0	<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9
Total TPH		<49.9	49.9	<50.0	50.0	<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9

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Holly Taylor
Project Manager

Final 1.000

Certificate of Analysis Summary 647206

Larson and Associates, Inc., Midland, TX

Project Name: Chevron Culebra Bluff

Project Id: 19-0180-07
Contact: Mark Larson
Project Location: NM

Date Received in Lab: Fri Dec-20-19 11:10 am
Report Date: 31-DEC-19
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	647206-013		647206-014		647206-015		647206-016		647206-017		647206-018	
	Field Id:	S-9 (5')		S-9 (7')		S-8 (5')		S-7 (5')		S-6 (5')		S-6 (7')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-17-19 16:58		Dec-17-19 16:59		Dec-18-19 09:08		Dec-18-19 09:19		Dec-18-19 09:36		Dec-18-19 09:42	
BTEX by EPA 8021B	***Extracted:***	Dec-29-19 12:00		Dec-29-19 12:00		Dec-29-19 12:00		Dec-29-19 12:00		Dec-29-19 12:00		Dec-29-19 12:00	
	Analyzed:	Dec-29-19 22:01		Dec-29-19 23:42		Dec-30-19 00:03		Dec-30-19 00:23		Dec-30-19 00:43		Dec-30-19 01:04	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00198	0.00198	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201	<0.00198	0.00198	<0.00200	0.00200
Toluene		<0.00198	0.00198	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201	<0.00198	0.00198	<0.00200	0.00200
Ethylbenzene		<0.00198	0.00198	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201	<0.00198	0.00198	<0.00200	0.00200
m,p-Xylenes		<0.00397	0.00397	<0.00402	0.00402	<0.00400	0.00400	<0.00402	0.00402	<0.00397	0.00397	<0.00399	0.00399
o-Xylene		<0.00198	0.00198	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201	<0.00198	0.00198	<0.00200	0.00200
Total Xylenes		<0.00198	0.00198	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201	<0.00198	0.00198	<0.00200	0.00200
Total BTEX		<0.00198	0.00198	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201	<0.00198	0.00198	<0.00200	0.00200
Chloride by EPA 300	***Extracted:***	Dec-20-19 16:25		Dec-20-19 16:25		Dec-20-19 16:25		Dec-20-19 16:25		Dec-20-19 16:25		Dec-20-19 16:25	
	Analyzed:	Dec-22-19 17:18		Dec-22-19 17:25		Dec-22-19 17:31		Dec-22-19 17:38		Dec-22-19 17:44		Dec-22-19 18:04	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		2060	24.8	293	4.95	1880	24.8	3130	24.9	1030	5.04	913	4.96
TPH By SW8015 Mod	***Extracted:***	Dec-20-19 17:00		Dec-20-19 17:00		Dec-20-19 17:00		Dec-20-19 17:00		Dec-20-19 17:00		Dec-20-19 17:00	
	Analyzed:	Dec-21-19 18:39		Dec-21-19 19:00		Dec-21-19 19:20		Dec-21-19 19:42		Dec-21-19 20:03		Dec-21-19 20:24	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons		<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0
Diesel Range Organics		<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0
Oil Range Hydrocarbons		<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0
Total TPH		<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0

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Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor
Project Manager

Final 1.000

Certificate of Analysis Summary 647206

Larson and Associates, Inc., Midland, TX

Project Name: Chevron Culebra Bluff

Project Id: 19-0180-07
Contact: Mark Larson
Project Location: NM

Date Received in Lab: Fri Dec-20-19 11:10 am
Report Date: 31-DEC-19
Project Manager: Holly Taylor

Analysis Requested	*Lab Id:*	647206-019		647206-020		647206-021		647206-022		647206-023		647206-024	
	Field Id:	S-5 (5')		S-5 (7')		S-4 (5')		S-4 (7')		S-3 (5')		S-3 (7')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-18-19 09:57		Dec-18-19 10:02		Dec-18-19 10:17		Dec-18-19 10:26		Dec-18-19 10:55		Dec-18-19 11:00	
BTEX by EPA 8021B	*Extracted:*	Dec-29-19 12:00		Dec-29-19 12:00		Dec-27-19 08:45		Dec-27-19 08:45		Dec-27-19 08:45		Dec-27-19 08:45	
	Analyzed:	Dec-30-19 01:24		Dec-30-19 09:03		Dec-30-19 13:45		Dec-30-19 14:26		Dec-30-19 14:47		Dec-30-19 15:18	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200
Toluene		<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200
Ethylbenzene		<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200
m,p-Xylenes		<0.00398	0.00398	<0.00396	0.00396	<0.00401	0.00401	<0.00399	0.00399	<0.00397	0.00397	<0.00400	0.00400
o-Xylene		<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200
Total Xylenes		<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200
Total BTEX		<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200
Chloride by EPA 300	*Extracted:*	Dec-20-19 16:25		Dec-20-19 16:25		Dec-20-19 16:25		Dec-20-19 16:25		Dec-20-19 16:25		Dec-20-19 16:25	
	Analyzed:	Dec-22-19 18:11		Dec-22-19 18:30		Dec-22-19 18:37		Dec-22-19 18:43		Dec-22-19 18:50		Dec-22-19 18:56	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		2930	25.1	2770	25.2	5390	49.8	2630	25.3	2380	24.8	1850	25.0
TPH By SW8015 Mod	*Extracted:*	Dec-20-19 17:00		Dec-20-19 17:00		Dec-21-19 09:00		Dec-21-19 09:00		Dec-21-19 09:00		Dec-21-19 09:00	
	Analyzed:	Dec-21-19 20:46		Dec-21-19 21:07		Dec-21-19 22:52		Dec-21-19 23:55		Dec-22-19 00:16		Dec-22-19 00:36	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons		<50.0	50.0	<49.8	49.8	<50.0	50.0	<49.8	49.8	<49.9	49.9	<50.0	50.0
Diesel Range Organics		<50.0	50.0	<49.8	49.8	<50.0	50.0	<49.8	49.8	<49.9	49.9	<50.0	50.0
Oil Range Hydrocarbons		<50.0	50.0	<49.8	49.8	<50.0	50.0	<49.8	49.8	<49.9	49.9	<50.0	50.0
Total TPH		<50.0	50.0	<49.8	49.8	<50.0	50.0	<49.8	49.8	<49.9	49.9	<50.0	50.0

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Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor
Project Manager

Final 1.000

Certificate of Analysis Summary 647206

Larson and Associates, Inc., Midland, TX

Project Name: Chevron Culebra Bluff

Project Id: 19-0180-07
Contact: Mark Larson
Project Location: NM

Date Received in Lab: Fri Dec-20-19 11:10 am
Report Date: 31-DEC-19
Project Manager: Holly Taylor

Analysis Requested	*Lab Id:*	647206-025		647206-026		647206-027		647206-028		647206-029		647206-030	
	Field Id:	S-2 (5')		S-2 (7')		S-1 (5')		S-1 (7')		S-21 (5')		S-21 (10')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-18-19 11:13		Dec-18-19 11:19		Dec-18-19 11:30		Dec-18-19 11:34		Dec-18-19 12:04		Dec-18-19 12:07	
BTEX by EPA 8021B	*Extracted:*	Dec-27-19 08:45		Dec-27-19 08:45		Dec-27-19 08:45		Dec-27-19 08:45		Dec-27-19 08:45		Dec-27-19 08:45	
	Analyzed:	Dec-30-19 15:38		Dec-30-19 15:59		Dec-30-19 16:19		Dec-30-19 16:40		Dec-30-19 17:00		Dec-30-19 18:40	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00202	0.00202	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201
Toluene		<0.00202	0.00202	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201
Ethylbenzene		<0.00202	0.00202	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201
m,p-Xylenes		<0.00403	0.00403	<0.00397	0.00397	<0.00397	0.00397	<0.00399	0.00399	<0.00398	0.00398	<0.00402	0.00402
o-Xylene		<0.00202	0.00202	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201
Total Xylenes		<0.00202	0.00202	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201
Total BTEX		<0.00202	0.00202	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201
Chloride by EPA 300	*Extracted:*	Dec-20-19 16:25		Dec-20-19 16:25		Dec-22-19 19:00		Dec-22-19 19:00		Dec-22-19 19:00		Dec-22-19 19:00	
	Analyzed:	Dec-22-19 19:03		Dec-22-19 19:09		Dec-22-19 21:47		Dec-22-19 22:06		Dec-22-19 19:49		Dec-22-19 22:13	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		851	25.0	2790	25.0	2020	24.9	1790	25.0	321	4.96	1770	25.0
TPH By SW8015 Mod	*Extracted:*	Dec-21-19 09:00		Dec-21-19 09:00		Dec-21-19 09:00		Dec-21-19 09:00		Dec-21-19 09:00		Dec-21-19 09:00	
	Analyzed:	Dec-22-19 00:58		Dec-22-19 01:19		Dec-22-19 01:40		Dec-22-19 02:01		Dec-22-19 02:22		Dec-22-19 02:43	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons		<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0
Diesel Range Organics		139	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9	96.0	49.8	<50.0	50.0
Oil Range Hydrocarbons		<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0
Total TPH		139	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9	96.0	49.8	<50.0	50.0

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Holly Taylor
Project Manager

Final 1.000

Certificate of Analysis Summary 647206

Larson and Associates, Inc., Midland, TX

Project Name: Chevron Culebra Bluff

Project Id: 19-0180-07
Contact: Mark Larson
Project Location: NM

Date Received in Lab: Fri Dec-20-19 11:10 am
Report Date: 31-DEC-19
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	647206-031		647206-032		647206-033		647206-034		647206-035		647206-036	
	Field Id:	S-18 (2')		S-19 (3')		S-20 (3')		S-22 (3')		S-24 (0.5')		S-24 (1')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-18-19 12:37		Dec-18-19 12:52		Dec-18-19 13:45		Dec-18-19 13:53		Dec-18-19 13:56		Dec-18-19 13:57	
BTEX by EPA 8021B	***Extracted:***	Dec-27-19 08:45		Dec-27-19 08:45		Dec-27-19 08:45		Dec-27-19 08:45		Dec-27-19 08:45		Dec-27-19 08:45	
	Analyzed:	Dec-30-19 19:00		Dec-30-19 19:20		Dec-30-19 19:41		Dec-30-19 20:01		Dec-30-19 20:22		Dec-30-19 20:42	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00198	0.00198
Toluene		<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00198	0.00198
Ethylbenzene		<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00198	0.00198
m,p-Xylenes		<0.00403	0.00403	<0.00399	0.00399	<0.00401	0.00401	<0.00399	0.00399	<0.00397	0.00397	<0.00396	0.00396
o-Xylene		<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00198	0.00198
Total Xylenes		<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00198	0.00198
Total BTEX		<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00198	0.00198
Chloride by EPA 300	***Extracted:***	Dec-22-19 19:00		Dec-22-19 19:00		Dec-22-19 19:00		Dec-22-19 19:00		Dec-22-19 19:00		Dec-22-19 19:00	
	Analyzed:	Dec-22-19 22:19		Dec-22-19 21:20		Dec-22-19 22:26		Dec-22-19 22:32		Dec-22-19 22:39		Dec-22-19 22:46	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1270	5.00	34.9	4.98	295	5.03	1400	4.96	24.8	4.99	22.6	4.95
TPH By SW8015 Mod	***Extracted:***	Dec-21-19 09:00		Dec-21-19 09:00		Dec-21-19 09:00		Dec-21-19 09:00		Dec-21-19 09:00		Dec-21-19 09:00	
	Analyzed:	Dec-22-19 03:24		Dec-22-19 03:45		Dec-22-19 04:06		Dec-22-19 04:27		Dec-22-19 04:48		Dec-22-19 05:10	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons		<50.0	50.0	<49.8	49.8	<49.9	49.9	<49.9	49.9	<50.0	50.0	<49.9	49.9
Diesel Range Organics		<50.0	50.0	<49.8	49.8	<49.9	49.9	<49.9	49.9	<50.0	50.0	<49.9	49.9
Oil Range Hydrocarbons		<50.0	50.0	<49.8	49.8	<49.9	49.9	<49.9	49.9	<50.0	50.0	<49.9	49.9
Total TPH		<50.0	50.0	<49.8	49.8	<49.9	49.9	<49.9	49.9	<50.0	50.0	<49.9	49.9

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Holly Taylor
Project Manager

Final 1.000

Certificate of Analysis Summary 647206

Larson and Associates, Inc., Midland, TX

Project Name: Chevron Culebra Bluff

Project Id: 19-0180-07
Contact: Mark Larson
Project Location: NM

Date Received in Lab: Fri Dec-20-19 11:10 am
Report Date: 31-DEC-19
Project Manager: Holly Taylor

Analysis Requested									
	Lab Id:	647206-037		647206-038					
	Field Id:	S-25 (0.5')		S-25 (1')					
	Depth:								
	Matrix:	SOIL		SOIL					
	Sampled:	Dec-18-19 13:59		Dec-18-19 14:03					
BTEX by EPA 8021B	***Extracted:***	Dec-27-19 08:45		Dec-27-19 08:45					
	Analyzed:	Dec-30-19 21:03		Dec-30-19 21:23					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Benzene		<0.00202	0.00202	<0.00200	0.00200				
Toluene		<0.00202	0.00202	<0.00200	0.00200				
Ethylbenzene		<0.00202	0.00202	<0.00200	0.00200				
m,p-Xylenes		<0.00403	0.00403	<0.00400	0.00400				
o-Xylene		<0.00202	0.00202	<0.00200	0.00200				
Total Xylenes		<0.00202	0.00202	<0.00200	0.00200				
Total BTEX		<0.00202	0.00202	<0.00200	0.00200				
Chloride by EPA 300	***Extracted:***	Dec-23-19 12:30		Dec-23-19 12:30					
	Analyzed:	Dec-23-19 16:48		Dec-23-19 16:54					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Chloride		6.77	5.04	<5.05	5.05				
TPH By SW8015 Mod	***Extracted:***	Dec-21-19 09:00		Dec-21-19 09:00					
	Analyzed:	Dec-22-19 05:31		Dec-22-19 05:52					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons		<49.8	49.8	<50.0	50.0				
Diesel Range Organics		<49.8	49.8	<50.0	50.0				
Oil Range Hydrocarbons		<49.8	49.8	<50.0	50.0				
Total TPH		<49.8	49.8	<50.0	50.0				

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Holly Taylor
Project Manager

Analytical Report 647206

for

Larson and Associates, Inc.

Project Manager: Mark Larson

Chevron Culebra Bluff

19-0180-07

31-DEC-19

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

31-DEC-19

Project Manager: **Mark Larson**
Larson and Associates, Inc.
P. O. Box 50685
Midland, TX 79710

Reference: XENCO Report No(s): **647206**
Chevron Culebra Bluff
Project Address: NM

Mark Larson:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 647206. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 647206 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Holly Taylor

Holly Taylor
Project Manager

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Sample Cross Reference 647206

Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S-23 (0.5')	S	12-17-19 10:41		647206-001
S-23 (1')	S	12-17-19 10:42		647206-002
S-17 (1.5')	S	12-17-19 13:21		647206-003
S-10 (5')	S	12-17-19 13:48		647206-004
S-16 (1')	S	12-17-19 14:30		647206-005
S-15 (1')	S	12-17-19 15:04		647206-006
S-14 (5')	S	12-17-19 15:15		647206-007
S-13 (5')	S	12-17-19 15:43		647206-008
S-12 (5')	S	12-17-19 16:09		647206-009
S-12 (7')	S	12-17-19 16:10		647206-010
S-11 (5')	S	12-17-19 16:42		647206-011
S-11 (7')	S	12-17-19 16:45		647206-012
S-9 (5')	S	12-17-19 16:58		647206-013
S-9 (7')	S	12-17-19 16:59		647206-014
S-8 (5')	S	12-18-19 09:08		647206-015
S-7 (5')	S	12-18-19 09:19		647206-016
S-6 (5')	S	12-18-19 09:36		647206-017
S-6 (7')	S	12-18-19 09:42		647206-018
S-5 (5')	S	12-18-19 09:57		647206-019
S-5 (7')	S	12-18-19 10:02		647206-020
S-4 (5')	S	12-18-19 10:17		647206-021
S-4 (7')	S	12-18-19 10:26		647206-022
S-3 (5')	S	12-18-19 10:55		647206-023
S-3 (7')	S	12-18-19 11:00		647206-024
S-2 (5')	S	12-18-19 11:13		647206-025
S-2 (7')	S	12-18-19 11:19		647206-026
S-1 (5')	S	12-18-19 11:30		647206-027
S-1 (7')	S	12-18-19 11:34		647206-028
S-21 (5')	S	12-18-19 12:04		647206-029
S-21 (10')	S	12-18-19 12:07		647206-030
S-18 (2')	S	12-18-19 12:37		647206-031
S-19 (3')	S	12-18-19 12:52		647206-032
S-20 (3')	S	12-18-19 13:45		647206-033
S-22 (3')	S	12-18-19 13:53		647206-034
S-24 (0.5')	S	12-18-19 13:56		647206-035
S-24 (1')	S	12-18-19 13:57		647206-036
S-25 (0.5')	S	12-18-19 13:59		647206-037
S-25 (1')	S	12-18-19 14:03		647206-038

CASE NARRATIVE

Client Name: Larson and Associates, Inc.
Project Name: Chevron Culebra Bluff

Project ID: *19-0180-07*
Work Order Number(s): *647206*

Report Date: *31-DEC-19*
Date Received: *12/20/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3111388 Chloride by EPA 300
Lab Sample ID 647206-032 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 647206-027, -028, -029, -030, -031, -032, -033, -034, -035, -036.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3111390 Chloride by EPA 300
Lab Sample ID 647206-017 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 647206-007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020, -021, -022, -023, -024, -025, -026.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3111563 Chloride by EPA 300
Lab Sample ID 647361-005 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3111938 BTEX by EPA 8021B
Lab Sample ID 647206-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). o-Xylene recovered below QC limits in the Matrix Spike. Ethylbenzene, Toluene, m,p-Xylenes recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 647206-001, -002, -003, -004, -005, -006, -007, -008, -009, -010.
The Laboratory Control Sample for Toluene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

CASE NARRATIVE

Client Name: Larson and Associates, Inc.
Project Name: Chevron Culebra Bluff

Project ID: *19-0180-07*
Work Order Number(s): *647206*

Report Date: *31-DEC-19*
Date Received: *12/20/2019*

Batch: LBA-3111947 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3112074 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analytical Results 647206

Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-23 (0.5')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-001	Date Collected:	12.17.19 10.41		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.20.19 16.05	Basis:	Wet Weight
Seq Number:	3111364				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6.05**	5.00	mg/kg	12.20.19 22.24		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.20.19 17.00	Basis:	Wet Weight
Seq Number:	3111414				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<49.9	49.9	mg/kg	12.21.19 13.23	U	1
Diesel Range Organics	C10C28DRO	<49.9	49.9	mg/kg	12.21.19 13.23	U	1
Oil Range Hydrocarbons	PHCG2835	<49.9	49.9	mg/kg	12.21.19 13.23	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.21.19 13.23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	12.21.19 13.23	
o-Terphenyl	84-15-1	109	%	70-135	12.21.19 13.23	

Certificate of Analytical Results 647206

Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-23 (0.5')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-001	Date Collected:	12.17.19 10.41		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.26.19 17.15	Basis:	Wet Weight
Seq Number:	3111938				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.27.19 08.20	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.27.19 08.20	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.27.19 08.20	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.27.19 08.20	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.27.19 08.20	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.27.19 08.20	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.27.19 08.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	93	%	70-130	12.27.19 08.20	
1,4-Difluorobenzene	540-36-3	113	%	70-130	12.27.19 08.20	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id: **S-23 (1')** Matrix: Soil Date Received:12.20.19 11.10

Lab Sample Id: 647206-002 Date Collected: 12.17.19 10.42

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 12.20.19 16.05 Basis: Wet Weight

Seq Number: 3111364

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9.26**	5.00	mg/kg	12.20.19 22.31		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 12.20.19 17.00 Basis: Wet Weight

Seq Number: 3111414

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<49.9	49.9	mg/kg	12.21.19 14.27	U	1
Diesel Range Organics	C10C28DRO	<49.9	49.9	mg/kg	12.21.19 14.27	U	1
Oil Range Hydrocarbons	PHCG2835	<49.9	49.9	mg/kg	12.21.19 14.27	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.21.19 14.27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	12.21.19 14.27	
o-Terphenyl	84-15-1	106	%	70-135	12.21.19 14.27	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-23 (1')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-002	Date Collected:	12.17.19 10.42		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.26.19 17.15	Basis:	Wet Weight
Seq Number:	3111938				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.27.19 08.40	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.27.19 08.40	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.27.19 08.40	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.27.19 08.40	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.27.19 08.40	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.27.19 08.40	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.27.19 08.40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	70-130	12.27.19 08.40	
1,4-Difluorobenzene	540-36-3	115	%	70-130	12.27.19 08.40	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-17 (1.5')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-003	Date Collected:	12.17.19 13.21		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.20.19 16.05	Basis:	Wet Weight
Seq Number:	3111364				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6040**	50.0	mg/kg	12.20.19 22.38		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.20.19 17.00	Basis:	Wet Weight
Seq Number:	3111414				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<49.8	49.8	mg/kg	12.21.19 14.48	U	1
Diesel Range Organics	C10C28DRO	**703**	49.8	mg/kg	12.21.19 14.48		1
Oil Range Hydrocarbons	PHCG2835	<49.8	49.8	mg/kg	12.21.19 14.48	U	1
Total TPH	PHC635	**703**	49.8	mg/kg	12.21.19 14.48		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	12.21.19 14.48	
o-Terphenyl	84-15-1	107	%	70-135	12.21.19 14.48	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-17 (1.5')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-003	Date Collected:	12.17.19 13.21		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.26.19 17.15	Basis:	Wet Weight
Seq Number:	3111938				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	12.27.19 09.00	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	12.27.19 09.00	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	12.27.19 09.00	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	12.27.19 09.00	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	12.27.19 09.00	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	12.27.19 09.00	U	1
Total BTEX		<0.00202	0.00202	mg/kg	12.27.19 09.00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	70-130	12.27.19 09.00	
1,4-Difluorobenzene	540-36-3	117	%	70-130	12.27.19 09.00	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-10 (5')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-004	Date Collected:	12.17.19 13.48		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.20.19 16.05	Basis:	Wet Weight
Seq Number:	3111364				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1340**	5.00	mg/kg	12.20.19 22.45		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.20.19 17.00	Basis:	Wet Weight
Seq Number:	3111414				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<50.0	50.0	mg/kg	12.21.19 15.09	U	1
Diesel Range Organics	C10C28DRO	<50.0	50.0	mg/kg	12.21.19 15.09	U	1
Oil Range Hydrocarbons	PHCG2835	<50.0	50.0	mg/kg	12.21.19 15.09	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.21.19 15.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	12.21.19 15.09	
o-Terphenyl	84-15-1	103	%	70-135	12.21.19 15.09	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-10 (5')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-004	Date Collected:	12.17.19 13.48		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.26.19 17.15	Basis:	Wet Weight
Seq Number:	3111938				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.27.19 09.21	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.27.19 09.21	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.27.19 09.21	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.27.19 09.21	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.27.19 09.21	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.27.19 09.21	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.27.19 09.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	100	%	70-130	12.27.19 09.21	
1,4-Difluorobenzene	540-36-3	112	%	70-130	12.27.19 09.21	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-16 (1')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-005	Date Collected:	12.17.19 14.30		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.20.19 16.05	Basis:	Wet Weight
Seq Number:	3111364				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1470**	25.0	mg/kg	12.20.19 22.53		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.20.19 17.00	Basis:	Wet Weight
Seq Number:	3111414				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<50.0	50.0	mg/kg	12.21.19 15.30	U	1
Diesel Range Organics	C10C28DRO	<50.0	50.0	mg/kg	12.21.19 15.30	U	1
Oil Range Hydrocarbons	PHCG2835	<50.0	50.0	mg/kg	12.21.19 15.30	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.21.19 15.30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	12.21.19 15.30	
o-Terphenyl	84-15-1	109	%	70-135	12.21.19 15.30	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-16 (1')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-005	Date Collected:	12.17.19 14.30		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.26.19 17.15	Basis:	Wet Weight
Seq Number:	3111938				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.27.19 09.41	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.27.19 09.41	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.27.19 09.41	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	12.27.19 09.41	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.27.19 09.41	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.27.19 09.41	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.27.19 09.41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	115	%	70-130	12.27.19 09.41	
4-Bromofluorobenzene	460-00-4	101	%	70-130	12.27.19 09.41	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id: **S-15 (1')** Matrix: Soil Date Received:12.20.19 11.10

Lab Sample Id: 647206-006 Date Collected: 12.17.19 15.04

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 12.20.19 16.05 Basis: Wet Weight

Seq Number: 3111364

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4960**	50.0	mg/kg	12.20.19 23.00		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 12.20.19 17.00 Basis: Wet Weight

Seq Number: 3111414

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<50.0	50.0	mg/kg	12.21.19 15.51	U	1
Diesel Range Organics	C10C28DRO	**1070**	50.0	mg/kg	12.21.19 15.51		1
Oil Range Hydrocarbons	PHCG2835	**205**	50.0	mg/kg	12.21.19 15.51		1
Total TPH	PHC635	**1280**	50.0	mg/kg	12.21.19 15.51		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-135	12.21.19 15.51	
o-Terphenyl	84-15-1	94	%	70-135	12.21.19 15.51	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-15 (1')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-006	Date Collected:	12.17.19 15.04		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.26.19 17.15	Basis:	Wet Weight
Seq Number:	3111938				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.27.19 10.02	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.27.19 10.02	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.27.19 10.02	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	12.27.19 10.02	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.27.19 10.02	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.27.19 10.02	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.27.19 10.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	96	%	70-130	12.27.19 10.02	
1,4-Difluorobenzene	540-36-3	114	%	70-130	12.27.19 10.02	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-14 (5')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-007	Date Collected:	12.17.19 15.15		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.20.19 16.25	Basis:	Wet Weight
Seq Number:	3111390				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1120**	4.96	mg/kg	12.22.19 16.32		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.20.19 17.00	Basis:	Wet Weight
Seq Number:	3111414				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<49.9	49.9	mg/kg	12.21.19 16.12	U	1
Diesel Range Organics	C10C28DRO	<49.9	49.9	mg/kg	12.21.19 16.12	U	1
Oil Range Hydrocarbons	PHCG2835	<49.9	49.9	mg/kg	12.21.19 16.12	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.21.19 16.12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	12.21.19 16.12	
o-Terphenyl	84-15-1	109	%	70-135	12.21.19 16.12	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-14 (5')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-007	Date Collected:	12.17.19 15.15		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.26.19 17.15	Basis:	Wet Weight
Seq Number:	3111938				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.27.19 10.22	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.27.19 10.22	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.27.19 10.22	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.27.19 10.22	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.27.19 10.22	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.27.19 10.22	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.27.19 10.22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	114	%	70-130	12.27.19 10.22	
4-Bromofluorobenzene	460-00-4	100	%	70-130	12.27.19 10.22	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-13 (5')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-008	Date Collected:	12.17.19 15.43		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.20.19 16.25	Basis:	Wet Weight
Seq Number:	3111390				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1080**	5.04	mg/kg	12.22.19 16.13		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.20.19 17.00	Basis:	Wet Weight
Seq Number:	3111414				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<50.0	50.0	mg/kg	12.21.19 16.33	U	1
Diesel Range Organics	C10C28DRO	<50.0	50.0	mg/kg	12.21.19 16.33	U	1
Oil Range Hydrocarbons	PHCG2835	<50.0	50.0	mg/kg	12.21.19 16.33	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.21.19 16.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	12.21.19 16.33	
o-Terphenyl	84-15-1	106	%	70-135	12.21.19 16.33	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-13 (5')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-008	Date Collected:	12.17.19 15.43		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.26.19 17.15	Basis:	Wet Weight
Seq Number:	3111938				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.27.19 10.43	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.27.19 10.43	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.27.19 10.43	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	12.27.19 10.43	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.27.19 10.43	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.27.19 10.43	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.27.19 10.43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	12.27.19 10.43	
1,4-Difluorobenzene	540-36-3	116	%	70-130	12.27.19 10.43	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-12 (5')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-009	Date Collected:	12.17.19 16.09		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.20.19 16.25	Basis:	Wet Weight
Seq Number:	3111390				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**671**	5.00	mg/kg	12.22.19 16.39		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.20.19 17.00	Basis:	Wet Weight
Seq Number:	3111414				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<49.8	49.8	mg/kg	12.21.19 16.54	U	1
Diesel Range Organics	C10C28DRO	<49.8	49.8	mg/kg	12.21.19 16.54	U	1
Oil Range Hydrocarbons	PHCG2835	<49.8	49.8	mg/kg	12.21.19 16.54	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	12.21.19 16.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	12.21.19 16.54	
o-Terphenyl	84-15-1	103	%	70-135	12.21.19 16.54	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-12 (5')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-009	Date Collected:	12.17.19 16.09		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.26.19 17.15	Basis:	Wet Weight
Seq Number:	3111938				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.27.19 11.03	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.27.19 11.03	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.27.19 11.03	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.27.19 11.03	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.27.19 11.03	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.27.19 11.03	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.27.19 11.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	70-130	12.27.19 11.03	
1,4-Difluorobenzene	540-36-3	114	%	70-130	12.27.19 11.03	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id: **S-12 (7')** Matrix: Soil Date Received:12.20.19 11.10

Lab Sample Id: 647206-010 Date Collected: 12.17.19 16.10

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 12.20.19 16.25 Basis: Wet Weight

Seq Number: 3111390

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**828**	5.03	mg/kg	12.22.19 16.45		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 12.20.19 17.00 Basis: Wet Weight

Seq Number: 3111414

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<50.0	50.0	mg/kg	12.21.19 17.15	U	1
Diesel Range Organics	C10C28DRO	<50.0	50.0	mg/kg	12.21.19 17.15	U	1
Oil Range Hydrocarbons	PHCG2835	<50.0	50.0	mg/kg	12.21.19 17.15	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.21.19 17.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	12.21.19 17.15	
o-Terphenyl	84-15-1	101	%	70-135	12.21.19 17.15	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-12 (7')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-010	Date Collected:	12.17.19 16.10		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.26.19 17.15	Basis:	Wet Weight
Seq Number:	3111938				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.27.19 11.24	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.27.19 11.24	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.27.19 11.24	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.27.19 11.24	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.27.19 11.24	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.27.19 11.24	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.27.19 11.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	70-130	12.27.19 11.24	
1,4-Difluorobenzene	540-36-3	114	%	70-130	12.27.19 11.24	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id: **S-11 (5')** Matrix: Soil Date Received:12.20.19 11.10

Lab Sample Id: 647206-011 Date Collected: 12.17.19 16.42

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 12.20.19 16.25 Basis: Wet Weight

Seq Number: 3111390

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1540**	25.1	mg/kg	12.22.19 16.52		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 12.20.19 17.00 Basis: Wet Weight

Seq Number: 3111414

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<50.0	50.0	mg/kg	12.21.19 17.57	U	1
Diesel Range Organics	C10C28DRO	<50.0	50.0	mg/kg	12.21.19 17.57	U	1
Oil Range Hydrocarbons	PHCG2835	<50.0	50.0	mg/kg	12.21.19 17.57	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.21.19 17.57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	12.21.19 17.57	
o-Terphenyl	84-15-1	111	%	70-135	12.21.19 17.57	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-11 (5')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-011	Date Collected:	12.17.19 16.42		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.29.19 12.00	Basis:	Wet Weight
Seq Number:	3111947				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.29.19 21.20	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.29.19 21.20	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.29.19 21.20	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.29.19 21.20	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.29.19 21.20	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.29.19 21.20	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.29.19 21.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	70-130	12.29.19 21.20	
1,4-Difluorobenzene	540-36-3	114	%	70-130	12.29.19 21.20	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-11 (7')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-012	Date Collected:	12.17.19 16.45		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.20.19 16.25	Basis:	Wet Weight
Seq Number:	3111390				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**992**	4.98	mg/kg	12.22.19 17.12		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.20.19 17.00	Basis:	Wet Weight
Seq Number:	3111414				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<49.9	49.9	mg/kg	12.21.19 18.18	U	1
Diesel Range Organics	C10C28DRO	<49.9	49.9	mg/kg	12.21.19 18.18	U	1
Oil Range Hydrocarbons	PHCG2835	<49.9	49.9	mg/kg	12.21.19 18.18	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.21.19 18.18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	12.21.19 18.18	
o-Terphenyl	84-15-1	105	%	70-135	12.21.19 18.18	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-11 (7')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-012	Date Collected:	12.17.19 16.45		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.29.19 12.00	Basis:	Wet Weight
Seq Number:	3111947				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.29.19 21.41	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.29.19 21.41	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.29.19 21.41	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.29.19 21.41	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.29.19 21.41	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.29.19 21.41	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.29.19 21.41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	114	%	70-130	12.29.19 21.41	
4-Bromofluorobenzene	460-00-4	104	%	70-130	12.29.19 21.41	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-9 (5')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-013	Date Collected:	12.17.19 16.58		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.20.19 16.25	Basis:	Wet Weight
Seq Number:	3111390				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2060**	24.8	mg/kg	12.22.19 17.18		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.20.19 17.00	Basis:	Wet Weight
Seq Number:	3111414				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<49.9	49.9	mg/kg	12.21.19 18.39	U	1
Diesel Range Organics	C10C28DRO	<49.9	49.9	mg/kg	12.21.19 18.39	U	1
Oil Range Hydrocarbons	PHCG2835	<49.9	49.9	mg/kg	12.21.19 18.39	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.21.19 18.39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	12.21.19 18.39	
o-Terphenyl	84-15-1	106	%	70-135	12.21.19 18.39	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-9 (5')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-013	Date Collected:	12.17.19 16.58		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.29.19 12.00	Basis:	Wet Weight
Seq Number:	3111947				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	12.29.19 22.01	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	12.29.19 22.01	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	12.29.19 22.01	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	12.29.19 22.01	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	12.29.19 22.01	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	12.29.19 22.01	U	1
Total BTEX		<0.00198	0.00198	mg/kg	12.29.19 22.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	115	%	70-130	12.29.19 22.01	
4-Bromofluorobenzene	460-00-4	100	%	70-130	12.29.19 22.01	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-9 (7')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-014	Date Collected:	12.17.19 16.59		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.20.19 16.25	Basis:	Wet Weight
Seq Number:	3111390				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**293**	4.95	mg/kg	12.22.19 17.25		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.20.19 17.00	Basis:	Wet Weight
Seq Number:	3111414				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<50.0	50.0	mg/kg	12.21.19 19.00	U	1
Diesel Range Organics	C10C28DRO	<50.0	50.0	mg/kg	12.21.19 19.00	U	1
Oil Range Hydrocarbons	PHCG2835	<50.0	50.0	mg/kg	12.21.19 19.00	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.21.19 19.00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	12.21.19 19.00	
o-Terphenyl	84-15-1	108	%	70-135	12.21.19 19.00	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-9 (7')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-014	Date Collected:	12.17.19 16.59		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.29.19 12.00	Basis:	Wet Weight
Seq Number:	3111947				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.29.19 23.42	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.29.19 23.42	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.29.19 23.42	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.29.19 23.42	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.29.19 23.42	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.29.19 23.42	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.29.19 23.42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	112	%	70-130	12.29.19 23.42	
4-Bromofluorobenzene	460-00-4	95	%	70-130	12.29.19 23.42	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id: **S-8 (5')** Matrix: Soil Date Received:12.20.19 11.10

Lab Sample Id: 647206-015 Date Collected: 12.18.19 09.08

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 12.20.19 16.25 Basis: Wet Weight

Seq Number: 3111390

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1880**	24.8	mg/kg	12.22.19 17.31		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 12.20.19 17.00 Basis: Wet Weight

Seq Number: 3111414

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<49.9	49.9	mg/kg	12.21.19 19.20	U	1
Diesel Range Organics	C10C28DRO	<49.9	49.9	mg/kg	12.21.19 19.20	U	1
Oil Range Hydrocarbons	PHCG2835	<49.9	49.9	mg/kg	12.21.19 19.20	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.21.19 19.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	12.21.19 19.20	
o-Terphenyl	84-15-1	105	%	70-135	12.21.19 19.20	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-8 (5')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-015	Date Collected:	12.18.19 09.08		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.29.19 12.00	Basis:	Wet Weight
Seq Number:	3111947				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.30.19 00.03	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.30.19 00.03	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.30.19 00.03	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.30.19 00.03	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.30.19 00.03	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.30.19 00.03	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.30.19 00.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	92	%	70-130	12.30.19 00.03	
1,4-Difluorobenzene	540-36-3	110	%	70-130	12.30.19 00.03	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-7 (5')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-016	Date Collected:	12.18.19 09.19		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.20.19 16.25	Basis:	Wet Weight
Seq Number:	3111390				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3130**	24.9	mg/kg	12.22.19 17.38		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.20.19 17.00	Basis:	Wet Weight
Seq Number:	3111414				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<49.8	49.8	mg/kg	12.21.19 19.42	U	1
Diesel Range Organics	C10C28DRO	<49.8	49.8	mg/kg	12.21.19 19.42	U	1
Oil Range Hydrocarbons	PHCG2835	<49.8	49.8	mg/kg	12.21.19 19.42	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	12.21.19 19.42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	12.21.19 19.42	
o-Terphenyl	84-15-1	109	%	70-135	12.21.19 19.42	

Certificate of Analytical Results 647206

Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-7 (5')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-016	Date Collected:	12.18.19 09.19		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.29.19 12.00	Basis:	Wet Weight
Seq Number:	3111947				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.30.19 00.23	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.30.19 00.23	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.30.19 00.23	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.30.19 00.23	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.30.19 00.23	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.30.19 00.23	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.30.19 00.23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	70-130	12.30.19 00.23	
1,4-Difluorobenzene	540-36-3	115	%	70-130	12.30.19 00.23	

Certificate of Analytical Results 647206

Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id: **S-6 (5')** Matrix: Soil Date Received:12.20.19 11.10

Lab Sample Id: 647206-017 Date Collected: 12.18.19 09.36

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 12.20.19 16.25 Basis: Wet Weight

Seq Number: 3111390

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1030**	5.04	mg/kg	12.22.19 17.44		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 12.20.19 17.00 Basis: Wet Weight

Seq Number: 3111414

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<50.0	50.0	mg/kg	12.21.19 20.03	U	1
Diesel Range Organics	C10C28DRO	<50.0	50.0	mg/kg	12.21.19 20.03	U	1
Oil Range Hydrocarbons	PHCG2835	<50.0	50.0	mg/kg	12.21.19 20.03	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.21.19 20.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-135	12.21.19 20.03	
o-Terphenyl	84-15-1	97	%	70-135	12.21.19 20.03	

Certificate of Analytical Results 647206

Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-6 (5')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-017	Date Collected:	12.18.19 09.36		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.29.19 12.00	Basis:	Wet Weight
Seq Number:	3111947				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	12.30.19 00.43	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	12.30.19 00.43	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	12.30.19 00.43	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	12.30.19 00.43	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	12.30.19 00.43	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	12.30.19 00.43	U	1
Total BTEX		<0.00198	0.00198	mg/kg	12.30.19 00.43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	100	%	70-130	12.30.19 00.43	
1,4-Difluorobenzene	540-36-3	114	%	70-130	12.30.19 00.43	

Certificate of Analytical Results 647206

Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id: **S-6 (7')** Matrix: Soil Date Received:12.20.19 11.10

Lab Sample Id: 647206-018 Date Collected: 12.18.19 09.42

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 12.20.19 16.25 Basis: Wet Weight

Seq Number: 3111390

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**913**	4.96	mg/kg	12.22.19 18.04		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 12.20.19 17.00 Basis: Wet Weight

Seq Number: 3111414

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<50.0	50.0	mg/kg	12.21.19 20.24	U	1
Diesel Range Organics	C10C28DRO	<50.0	50.0	mg/kg	12.21.19 20.24	U	1
Oil Range Hydrocarbons	PHCG2835	<50.0	50.0	mg/kg	12.21.19 20.24	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.21.19 20.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	12.21.19 20.24	
o-Terphenyl	84-15-1	104	%	70-135	12.21.19 20.24	

Certificate of Analytical Results 647206

Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-6 (7')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-018	Date Collected:	12.18.19 09.42		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.29.19 12.00	Basis:	Wet Weight
Seq Number:	3111947				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.30.19 01.04	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.30.19 01.04	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.30.19 01.04	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.30.19 01.04	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.30.19 01.04	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.30.19 01.04	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.30.19 01.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	100	%	70-130	12.30.19 01.04	
1,4-Difluorobenzene	540-36-3	113	%	70-130	12.30.19 01.04	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id: **S-5 (5')** Matrix: Soil Date Received:12.20.19 11.10

Lab Sample Id: 647206-019 Date Collected: 12.18.19 09.57

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 12.20.19 16.25 Basis: Wet Weight

Seq Number: 3111390

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2930**	25.1	mg/kg	12.22.19 18.11		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 12.20.19 17.00 Basis: Wet Weight

Seq Number: 3111414

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<50.0	50.0	mg/kg	12.21.19 20.46	U	1
Diesel Range Organics	C10C28DRO	<50.0	50.0	mg/kg	12.21.19 20.46	U	1
Oil Range Hydrocarbons	PHCG2835	<50.0	50.0	mg/kg	12.21.19 20.46	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.21.19 20.46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	12.21.19 20.46	
o-Terphenyl	84-15-1	105	%	70-135	12.21.19 20.46	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-5 (5')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-019	Date Collected:	12.18.19 09.57		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.29.19 12.00	Basis:	Wet Weight
Seq Number:	3111947				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.30.19 01.24	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.30.19 01.24	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.30.19 01.24	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.30.19 01.24	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.30.19 01.24	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.30.19 01.24	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.30.19 01.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	115	%	70-130	12.30.19 01.24	
4-Bromofluorobenzene	460-00-4	97	%	70-130	12.30.19 01.24	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id: **S-5 (7')** Matrix: Soil Date Received:12.20.19 11.10

Lab Sample Id: 647206-020 Date Collected: 12.18.19 10.02

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 12.20.19 16.25 Basis: Wet Weight

Seq Number: 3111390

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2770**	25.2	mg/kg	12.22.19 18.30		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 12.20.19 17.00 Basis: Wet Weight

Seq Number: 3111414

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<49.8	49.8	mg/kg	12.21.19 21.07	U	1
Diesel Range Organics	C10C28DRO	<49.8	49.8	mg/kg	12.21.19 21.07	U	1
Oil Range Hydrocarbons	PHCG2835	<49.8	49.8	mg/kg	12.21.19 21.07	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	12.21.19 21.07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	12.21.19 21.07	
o-Terphenyl	84-15-1	107	%	70-135	12.21.19 21.07	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-5 (7')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-020	Date Collected:	12.18.19 10.02		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.29.19 12.00	Basis:	Wet Weight
Seq Number:	3111947				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	12.30.19 09.03	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	12.30.19 09.03	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	12.30.19 09.03	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	12.30.19 09.03	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	12.30.19 09.03	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	12.30.19 09.03	U	1
Total BTEX		<0.00198	0.00198	mg/kg	12.30.19 09.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	70-130	12.30.19 09.03	
1,4-Difluorobenzene	540-36-3	107	%	70-130	12.30.19 09.03	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id: **S-4 (5')** Matrix: Soil Date Received:12.20.19 11.10

Lab Sample Id: 647206-021 Date Collected: 12.18.19 10.17

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 12.20.19 16.25 Basis: Wet Weight

Seq Number: 3111390

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5390**	49.8	mg/kg	12.22.19 18.37		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 12.21.19 09.00 Basis: Wet Weight

Seq Number: 3111415

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<50.0	50.0	mg/kg	12.21.19 22.52	U	1
Diesel Range Organics	C10C28DRO	<50.0	50.0	mg/kg	12.21.19 22.52	U	1
Oil Range Hydrocarbons	PHCG2835	<50.0	50.0	mg/kg	12.21.19 22.52	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.21.19 22.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	12.21.19 22.52	
o-Terphenyl	84-15-1	108	%	70-135	12.21.19 22.52	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-4 (5')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-021	Date Collected:	12.18.19 10.17		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.27.19 08.45	Basis:	Wet Weight
Seq Number:	3112074				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.30.19 13.45	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.30.19 13.45	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.30.19 13.45	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	12.30.19 13.45	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.30.19 13.45	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.30.19 13.45	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.30.19 13.45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	110	%	70-130	12.30.19 13.45	
4-Bromofluorobenzene	460-00-4	91	%	70-130	12.30.19 13.45	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id: **S-4 (7')** Matrix: Soil Date Received:12.20.19 11.10

Lab Sample Id: 647206-022 Date Collected: 12.18.19 10.26

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 12.20.19 16.25 Basis: Wet Weight

Seq Number: 3111390

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2630**	25.3	mg/kg	12.22.19 18.43		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 12.21.19 09.00 Basis: Wet Weight

Seq Number: 3111415

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<49.8	49.8	mg/kg	12.21.19 23.55	U	1
Diesel Range Organics	C10C28DRO	<49.8	49.8	mg/kg	12.21.19 23.55	U	1
Oil Range Hydrocarbons	PHCG2835	<49.8	49.8	mg/kg	12.21.19 23.55	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	12.21.19 23.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	12.21.19 23.55	
o-Terphenyl	84-15-1	105	%	70-135	12.21.19 23.55	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-4 (7')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-022	Date Collected:	12.18.19 10.26		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.27.19 08.45	Basis:	Wet Weight
Seq Number:	3112074				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.30.19 14.26	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.30.19 14.26	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.30.19 14.26	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.30.19 14.26	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.30.19 14.26	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.30.19 14.26	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.30.19 14.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	127	%	70-130	12.30.19 14.26	
1,4-Difluorobenzene	540-36-3	114	%	70-130	12.30.19 14.26	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id: **S-3 (5')** Matrix: Soil Date Received:12.20.19 11.10

Lab Sample Id: 647206-023 Date Collected: 12.18.19 10.55

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 12.20.19 16.25 Basis: Wet Weight

Seq Number: 3111390

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2380**	24.8	mg/kg	12.22.19 18.50		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 12.21.19 09.00 Basis: Wet Weight

Seq Number: 3111415

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<49.9	49.9	mg/kg	12.22.19 00.16	U	1
Diesel Range Organics	C10C28DRO	<49.9	49.9	mg/kg	12.22.19 00.16	U	1
Oil Range Hydrocarbons	PHCG2835	<49.9	49.9	mg/kg	12.22.19 00.16	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.22.19 00.16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	12.22.19 00.16	
o-Terphenyl	84-15-1	106	%	70-135	12.22.19 00.16	

Certificate of Analytical Results 647206

Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-3 (5')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-023	Date Collected:	12.18.19 10.55		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.27.19 08.45	Basis:	Wet Weight
Seq Number:	3112074				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	12.30.19 14.47	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	12.30.19 14.47	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	12.30.19 14.47	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	12.30.19 14.47	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	12.30.19 14.47	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	12.30.19 14.47	U	1
Total BTEX		<0.00198	0.00198	mg/kg	12.30.19 14.47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	112	%	70-130	12.30.19 14.47	
4-Bromofluorobenzene	460-00-4	106	%	70-130	12.30.19 14.47	

Certificate of Analytical Results 647206

Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id: **S-3 (7')** Matrix: Soil Date Received:12.20.19 11.10

Lab Sample Id: 647206-024 Date Collected: 12.18.19 11.00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 12.20.19 16.25 Basis: Wet Weight

Seq Number: 3111390

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1850**	25.0	mg/kg	12.22.19 18.56		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 12.21.19 09.00 Basis: Wet Weight

Seq Number: 3111415

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<50.0	50.0	mg/kg	12.22.19 00.36	U	1
Diesel Range Organics	C10C28DRO	<50.0	50.0	mg/kg	12.22.19 00.36	U	1
Oil Range Hydrocarbons	PHCG2835	<50.0	50.0	mg/kg	12.22.19 00.36	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.22.19 00.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	12.22.19 00.36	
o-Terphenyl	84-15-1	106	%	70-135	12.22.19 00.36	

Certificate of Analytical Results 647206

Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-3 (7')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-024	Date Collected:	12.18.19 11.00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.27.19 08.45	Basis:	Wet Weight
Seq Number:	3112074				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.30.19 15.18	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.30.19 15.18	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.30.19 15.18	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.30.19 15.18	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.30.19 15.18	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.30.19 15.18	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.30.19 15.18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	112	%	70-130	12.30.19 15.18	
4-Bromofluorobenzene	460-00-4	105	%	70-130	12.30.19 15.18	

Certificate of Analytical Results 647206

Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-2 (5')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-025	Date Collected:	12.18.19 11.13		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.20.19 16.25	Basis:	Wet Weight
Seq Number:	3111390				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**851**	25.0	mg/kg	12.22.19 19.03		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.21.19 09.00	Basis:	Wet Weight
Seq Number:	3111415				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<50.0	50.0	mg/kg	12.22.19 00.58	U	1
Diesel Range Organics	C10C28DRO	**139**	50.0	mg/kg	12.22.19 00.58		1
Oil Range Hydrocarbons	PHCG2835	<50.0	50.0	mg/kg	12.22.19 00.58	U	1
Total TPH	PHC635	**139**	50.0	mg/kg	12.22.19 00.58		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	12.22.19 00.58	
o-Terphenyl	84-15-1	105	%	70-135	12.22.19 00.58	

Certificate of Analytical Results 647206

Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-2 (5')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-025	Date Collected:	12.18.19 11.13		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.27.19 08.45	Basis:	Wet Weight
Seq Number:	3112074				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	12.30.19 15.38	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	12.30.19 15.38	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	12.30.19 15.38	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	12.30.19 15.38	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	12.30.19 15.38	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	12.30.19 15.38	U	1
Total BTEX		<0.00202	0.00202	mg/kg	12.30.19 15.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	105	%	70-130	12.30.19 15.38	
1,4-Difluorobenzene	540-36-3	115	%	70-130	12.30.19 15.38	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-2 (7')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-026	Date Collected:	12.18.19 11.19		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.20.19 16.25	Basis:	Wet Weight
Seq Number:	3111390				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2790**	25.0	mg/kg	12.22.19 19.09		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.21.19 09.00	Basis:	Wet Weight
Seq Number:	3111415				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<49.9	49.9	mg/kg	12.22.19 01.19	U	1
Diesel Range Organics	C10C28DRO	<49.9	49.9	mg/kg	12.22.19 01.19	U	1
Oil Range Hydrocarbons	PHCG2835	<49.9	49.9	mg/kg	12.22.19 01.19	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.22.19 01.19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	12.22.19 01.19	
o-Terphenyl	84-15-1	104	%	70-135	12.22.19 01.19	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-2 (7')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-026	Date Collected:	12.18.19 11.19		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.27.19 08.45	Basis:	Wet Weight
Seq Number:	3112074				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	12.30.19 15.59	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	12.30.19 15.59	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	12.30.19 15.59	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	12.30.19 15.59	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	12.30.19 15.59	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	12.30.19 15.59	U	1
Total BTEX		<0.00198	0.00198	mg/kg	12.30.19 15.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	70-130	12.30.19 15.59	
1,4-Difluorobenzene	540-36-3	113	%	70-130	12.30.19 15.59	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id: **S-1 (5')** Matrix: Soil Date Received:12.20.19 11.10

Lab Sample Id: 647206-027 Date Collected: 12.18.19 11.30

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 12.22.19 19.00 Basis: Wet Weight

Seq Number: 3111388

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2020**	24.9	mg/kg	12.22.19 21.47		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 12.21.19 09.00 Basis: Wet Weight

Seq Number: 3111415

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<50.0	50.0	mg/kg	12.22.19 01.40	U	1
Diesel Range Organics	C10C28DRO	<50.0	50.0	mg/kg	12.22.19 01.40	U	1
Oil Range Hydrocarbons	PHCG2835	<50.0	50.0	mg/kg	12.22.19 01.40	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.22.19 01.40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	12.22.19 01.40	
o-Terphenyl	84-15-1	104	%	70-135	12.22.19 01.40	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-1 (5')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-027	Date Collected:	12.18.19 11.30		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.27.19 08.45	Basis:	Wet Weight
Seq Number:	3112074				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	12.30.19 16.19	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	12.30.19 16.19	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	12.30.19 16.19	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	12.30.19 16.19	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	12.30.19 16.19	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	12.30.19 16.19	U	1
Total BTEX		<0.00198	0.00198	mg/kg	12.30.19 16.19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	115	%	70-130	12.30.19 16.19	
4-Bromofluorobenzene	460-00-4	103	%	70-130	12.30.19 16.19	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-1 (7')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-028	Date Collected:	12.18.19 11.34		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.22.19 19.00	Basis:	Wet Weight
Seq Number:	3111388				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1790**	25.0	mg/kg	12.22.19 22.06		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.21.19 09.00	Basis:	Wet Weight
Seq Number:	3111415				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<49.9	49.9	mg/kg	12.22.19 02.01	U	1
Diesel Range Organics	C10C28DRO	<49.9	49.9	mg/kg	12.22.19 02.01	U	1
Oil Range Hydrocarbons	PHCG2835	<49.9	49.9	mg/kg	12.22.19 02.01	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.22.19 02.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	12.22.19 02.01	
o-Terphenyl	84-15-1	106	%	70-135	12.22.19 02.01	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-1 (7')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-028	Date Collected:	12.18.19 11.34		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.27.19 08.45	Basis:	Wet Weight
Seq Number:	3112074				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.30.19 16.40	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.30.19 16.40	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.30.19 16.40	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.30.19 16.40	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.30.19 16.40	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.30.19 16.40	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.30.19 16.40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	70-130	12.30.19 16.40	
1,4-Difluorobenzene	540-36-3	115	%	70-130	12.30.19 16.40	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-21 (5')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-029	Date Collected:	12.18.19 12.04		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.22.19 19.00	Basis:	Wet Weight
Seq Number:	3111388				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**321**	4.96	mg/kg	12.22.19 19.49		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.21.19 09.00	Basis:	Wet Weight
Seq Number:	3111415				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<49.8	49.8	mg/kg	12.22.19 02.22	U	1
Diesel Range Organics	C10C28DRO	**96.0**	49.8	mg/kg	12.22.19 02.22		1
Oil Range Hydrocarbons	PHCG2835	<49.8	49.8	mg/kg	12.22.19 02.22	U	1
Total TPH	PHC635	**96.0**	49.8	mg/kg	12.22.19 02.22		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	12.22.19 02.22	
o-Terphenyl	84-15-1	110	%	70-135	12.22.19 02.22	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-21 (5')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-029	Date Collected:	12.18.19 12.04		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.27.19 08.45	Basis:	Wet Weight
Seq Number:	3112074				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.30.19 17.00	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.30.19 17.00	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.30.19 17.00	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.30.19 17.00	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.30.19 17.00	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.30.19 17.00	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.30.19 17.00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	12.30.19 17.00	
1,4-Difluorobenzene	540-36-3	118	%	70-130	12.30.19 17.00	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id: **S-21 (10')** Matrix: Soil Date Received:12.20.19 11.10

Lab Sample Id: 647206-030 Date Collected: 12.18.19 12.07

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 12.22.19 19.00 Basis: Wet Weight

Seq Number: 3111388

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1770**	25.0	mg/kg	12.22.19 22.13		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 12.21.19 09.00 Basis: Wet Weight

Seq Number: 3111415

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<50.0	50.0	mg/kg	12.22.19 02.43	U	1
Diesel Range Organics	C10C28DRO	<50.0	50.0	mg/kg	12.22.19 02.43	U	1
Oil Range Hydrocarbons	PHCG2835	<50.0	50.0	mg/kg	12.22.19 02.43	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.22.19 02.43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	12.22.19 02.43	
o-Terphenyl	84-15-1	102	%	70-135	12.22.19 02.43	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-21 (10')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-030	Date Collected:	12.18.19 12.07		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.27.19 08.45	Basis:	Wet Weight
Seq Number:	3112074				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.30.19 18.40	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.30.19 18.40	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.30.19 18.40	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.30.19 18.40	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.30.19 18.40	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.30.19 18.40	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.30.19 18.40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	112	%	70-130	12.30.19 18.40	
4-Bromofluorobenzene	460-00-4	93	%	70-130	12.30.19 18.40	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-18 (2')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-031	Date Collected:	12.18.19 12.37		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.22.19 19.00	Basis:	Wet Weight
Seq Number:	3111388				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1270**	5.00	mg/kg	12.22.19 22.19		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.21.19 09.00	Basis:	Wet Weight
Seq Number:	3111415				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<50.0	50.0	mg/kg	12.22.19 03.24	U	1
Diesel Range Organics	C10C28DRO	<50.0	50.0	mg/kg	12.22.19 03.24	U	1
Oil Range Hydrocarbons	PHCG2835	<50.0	50.0	mg/kg	12.22.19 03.24	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.22.19 03.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	12.22.19 03.24	
o-Terphenyl	84-15-1	104	%	70-135	12.22.19 03.24	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-18 (2')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-031	Date Collected:	12.18.19 12.37		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.27.19 08.45	Basis:	Wet Weight
Seq Number:	3112074				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	12.30.19 19.00	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	12.30.19 19.00	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	12.30.19 19.00	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	12.30.19 19.00	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	12.30.19 19.00	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	12.30.19 19.00	U	1
Total BTEX		<0.00202	0.00202	mg/kg	12.30.19 19.00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	102	%	70-130	12.30.19 19.00	
1,4-Difluorobenzene	540-36-3	115	%	70-130	12.30.19 19.00	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id: **S-19 (3')** Matrix: Soil Date Received:12.20.19 11.10

Lab Sample Id: 647206-032 Date Collected: 12.18.19 12.52

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 12.22.19 19.00 Basis: Wet Weight

Seq Number: 3111388

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**34.9**	4.98	mg/kg	12.22.19 21.20		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 12.21.19 09.00 Basis: Wet Weight

Seq Number: 3111415

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<49.8	49.8	mg/kg	12.22.19 03.45	U	1
Diesel Range Organics	C10C28DRO	<49.8	49.8	mg/kg	12.22.19 03.45	U	1
Oil Range Hydrocarbons	PHCG2835	<49.8	49.8	mg/kg	12.22.19 03.45	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	12.22.19 03.45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	12.22.19 03.45	
o-Terphenyl	84-15-1	103	%	70-135	12.22.19 03.45	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-19 (3')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-032	Date Collected:	12.18.19 12.52		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.27.19 08.45	Basis:	Wet Weight
Seq Number:	3112074				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.30.19 19.20	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.30.19 19.20	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.30.19 19.20	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.30.19 19.20	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.30.19 19.20	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.30.19 19.20	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.30.19 19.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	70-130	12.30.19 19.20	
1,4-Difluorobenzene	540-36-3	113	%	70-130	12.30.19 19.20	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-20 (3')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-033	Date Collected:	12.18.19 13.45		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.22.19 19.00	Basis:	Wet Weight
Seq Number:	3111388				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**295**	5.03	mg/kg	12.22.19 22.26		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.21.19 09.00	Basis:	Wet Weight
Seq Number:	3111415				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<49.9	49.9	mg/kg	12.22.19 04.06	U	1
Diesel Range Organics	C10C28DRO	<49.9	49.9	mg/kg	12.22.19 04.06	U	1
Oil Range Hydrocarbons	PHCG2835	<49.9	49.9	mg/kg	12.22.19 04.06	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.22.19 04.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	12.22.19 04.06	
o-Terphenyl	84-15-1	103	%	70-135	12.22.19 04.06	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-20 (3')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-033	Date Collected:	12.18.19 13.45		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.27.19 08.45	Basis:	Wet Weight
Seq Number:	3112074				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.30.19 19.41	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.30.19 19.41	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.30.19 19.41	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	12.30.19 19.41	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.30.19 19.41	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.30.19 19.41	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.30.19 19.41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	115	%	70-130	12.30.19 19.41	
4-Bromofluorobenzene	460-00-4	99	%	70-130	12.30.19 19.41	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id: **S-22 (3')** Matrix: Soil Date Received:12.20.19 11.10

Lab Sample Id: 647206-034 Date Collected: 12.18.19 13.53

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 12.22.19 19.00 Basis: Wet Weight

Seq Number: 3111388

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1400**	4.96	mg/kg	12.22.19 22.32		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 12.21.19 09.00 Basis: Wet Weight

Seq Number: 3111415

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<49.9	49.9	mg/kg	12.22.19 04.27	U	1
Diesel Range Organics	C10C28DRO	<49.9	49.9	mg/kg	12.22.19 04.27	U	1
Oil Range Hydrocarbons	PHCG2835	<49.9	49.9	mg/kg	12.22.19 04.27	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.22.19 04.27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	12.22.19 04.27	
o-Terphenyl	84-15-1	99	%	70-135	12.22.19 04.27	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-22 (3')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-034	Date Collected:	12.18.19 13.53		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.27.19 08.45	Basis:	Wet Weight
Seq Number:	3112074				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.30.19 20.01	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.30.19 20.01	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.30.19 20.01	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.30.19 20.01	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.30.19 20.01	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.30.19 20.01	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.30.19 20.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	70-130	12.30.19 20.01	
1,4-Difluorobenzene	540-36-3	114	%	70-130	12.30.19 20.01	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-24 (0.5')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-035	Date Collected:	12.18.19 13.56		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.22.19 19.00	Basis:	Wet Weight
Seq Number:	3111388				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**24.8**	4.99	mg/kg	12.22.19 22.39		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.21.19 09.00	Basis:	Wet Weight
Seq Number:	3111415				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<50.0	50.0	mg/kg	12.22.19 04.48	U	1
Diesel Range Organics	C10C28DRO	<50.0	50.0	mg/kg	12.22.19 04.48	U	1
Oil Range Hydrocarbons	PHCG2835	<50.0	50.0	mg/kg	12.22.19 04.48	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.22.19 04.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	12.22.19 04.48	
o-Terphenyl	84-15-1	106	%	70-135	12.22.19 04.48	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-24 (0.5')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-035	Date Collected:	12.18.19 13.56		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.27.19 08.45	Basis:	Wet Weight
Seq Number:	3112074				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	12.30.19 20.22	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	12.30.19 20.22	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	12.30.19 20.22	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	12.30.19 20.22	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	12.30.19 20.22	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	12.30.19 20.22	U	1
Total BTEX		<0.00198	0.00198	mg/kg	12.30.19 20.22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	97	%	70-130	12.30.19 20.22	
1,4-Difluorobenzene	540-36-3	113	%	70-130	12.30.19 20.22	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id: **S-24 (1')** Matrix: Soil Date Received:12.20.19 11.10

Lab Sample Id: 647206-036 Date Collected: 12.18.19 13.57

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 12.22.19 19.00 Basis: Wet Weight

Seq Number: 3111388

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**22.6**	4.95	mg/kg	12.22.19 22.46		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 12.21.19 09.00 Basis: Wet Weight

Seq Number: 3111415

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<49.9	49.9	mg/kg	12.22.19 05.10	U	1
Diesel Range Organics	C10C28DRO	<49.9	49.9	mg/kg	12.22.19 05.10	U	1
Oil Range Hydrocarbons	PHCG2835	<49.9	49.9	mg/kg	12.22.19 05.10	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.22.19 05.10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-135	12.22.19 05.10	
o-Terphenyl	84-15-1	99	%	70-135	12.22.19 05.10	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-24 (1')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-036	Date Collected:	12.18.19 13.57		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.27.19 08.45	Basis:	Wet Weight
Seq Number:	3112074				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	12.30.19 20.42	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	12.30.19 20.42	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	12.30.19 20.42	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	12.30.19 20.42	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	12.30.19 20.42	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	12.30.19 20.42	U	1
Total BTEX		<0.00198	0.00198	mg/kg	12.30.19 20.42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	70-130	12.30.19 20.42	
1,4-Difluorobenzene	540-36-3	117	%	70-130	12.30.19 20.42	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-25 (0.5')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-037	Date Collected:	12.18.19 13.59		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.23.19 12.30	Basis:	Wet Weight
Seq Number:	3111563				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6.77**	5.04	mg/kg	12.23.19 16.48		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.21.19 09.00	Basis:	Wet Weight
Seq Number:	3111415				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<49.8	49.8	mg/kg	12.22.19 05.31	U	1
Diesel Range Organics	C10C28DRO	<49.8	49.8	mg/kg	12.22.19 05.31	U	1
Oil Range Hydrocarbons	PHCG2835	<49.8	49.8	mg/kg	12.22.19 05.31	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	12.22.19 05.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	12.22.19 05.31	
o-Terphenyl	84-15-1	100	%	70-135	12.22.19 05.31	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-25 (0.5')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-037	Date Collected:	12.18.19 13.59		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.27.19 08.45	Basis:	Wet Weight
Seq Number:	3112074				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	12.30.19 21.03	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	12.30.19 21.03	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	12.30.19 21.03	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	12.30.19 21.03	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	12.30.19 21.03	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	12.30.19 21.03	U	1
Total BTEX		<0.00202	0.00202	mg/kg	12.30.19 21.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	115	%	70-130	12.30.19 21.03	
4-Bromofluorobenzene	460-00-4	100	%	70-130	12.30.19 21.03	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id: **S-25 (1')** Matrix: Soil Date Received:12.20.19 11.10

Lab Sample Id: 647206-038 Date Collected: 12.18.19 14.03

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 12.23.19 12.30 Basis: Wet Weight

Seq Number: 3111563

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.05	5.05	mg/kg	12.23.19 16.54	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 12.21.19 09.00 Basis: Wet Weight

Seq Number: 3111415

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<50.0	50.0	mg/kg	12.22.19 05.52	U	1
Diesel Range Organics	C10C28DRO	<50.0	50.0	mg/kg	12.22.19 05.52	U	1
Oil Range Hydrocarbons	PHCG2835	<50.0	50.0	mg/kg	12.22.19 05.52	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.22.19 05.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	12.22.19 05.52	
o-Terphenyl	84-15-1	102	%	70-135	12.22.19 05.52	

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Larson and Associates, Inc., Midland, TX

Chevron Culebra Bluff

Sample Id:	**S-25 (1')**	Matrix:	Soil	Date Received:	12.20.19 11.10
Lab Sample Id:	647206-038	Date Collected:	12.18.19 14.03		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.27.19 08.45	Basis:	Wet Weight
Seq Number:	3112074				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.30.19 21.23	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.30.19 21.23	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.30.19 21.23	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.30.19 21.23	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.30.19 21.23	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.30.19 21.23	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.30.19 21.23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	70-130	12.30.19 21.23	
1,4-Difluorobenzene	540-36-3	115	%	70-130	12.30.19 21.23	

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

QC Summary 647206

Larson and Associates, Inc.

Chevron Culebra Bluff

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3111364 — Matrix: Solid — Date Prep: 12.20.19
MB Sample Id: 7693011-1-BLK — LCS Sample Id: 7693011-1-BKS — LCSD Sample Id: 7693011-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	245	98	243	97	90-110	1	20	mg/kg	12.20.19 19:29	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3111390 — Matrix: Solid — Date Prep: 12.20.19
MB Sample Id: 7693017-1-BLK — LCS Sample Id: 7693017-1-BKS — LCSD Sample Id: 7693017-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	261	104	260	104	90-110	0	20	mg/kg	12.22.19 16:00	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3111388 — Matrix: Solid — Date Prep: 12.22.19
MB Sample Id: 7693046-1-BLK — LCS Sample Id: 7693046-1-BKS — LCSD Sample Id: 7693046-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	261	104	262	105	90-110	0	20	mg/kg	12.22.19 19:36	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3111563 — Matrix: Solid — Date Prep: 12.23.19
MB Sample Id: 7693114-1-BLK — LCS Sample Id: 7693114-1-BKS — LCSD Sample Id: 7693114-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	264	106	274	110	90-110	4	20	mg/kg	12.23.19 16:02	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3111364 — Matrix: Soil — Date Prep: 12.20.19
Parent Sample Id: 647131-007 — MS Sample Id: 647131-007 S — MSD Sample Id: 647131-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	55.6	250	308	101	311	102	90-110	1	20	mg/kg	12.20.19 21:33	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 647206

Larson and Associates, Inc.

Chevron Culebra Bluff

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3111364 — Matrix: Soil — Date Prep: 12.20.19
Parent Sample Id: 647182-008 — MS Sample Id: 647182-008 S — MSD Sample Id: 647182-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	6.39	250	259	101	258	101	90-110	0	20	mg/kg	12.20.19 19:51	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3111390 — Matrix: Soil — Date Prep: 12.20.19
Parent Sample Id: 647206-008 — MS Sample Id: 647206-008 S — MSD Sample Id: 647206-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1080	252	1320	95	1300	87	90-110	2	20	mg/kg	12.22.19 16:19	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3111390 — Matrix: Soil — Date Prep: 12.20.19
Parent Sample Id: 647206-017 — MS Sample Id: 647206-017 S — MSD Sample Id: 647206-017 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1030	252	1240	83	1240	83	90-110	0	20	mg/kg	12.22.19 17:51	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3111388 — Matrix: Soil — Date Prep: 12.22.19
Parent Sample Id: 647206-029 — MS Sample Id: 647206-029 S — MSD Sample Id: 647206-029 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	321	248	589	108	579	104	90-110	2	20	mg/kg	12.22.19 19:55	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3111388 — Matrix: Soil — Date Prep: 12.22.19
Parent Sample Id: 647206-032 — MS Sample Id: 647206-032 S — MSD Sample Id: 647206-032 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	34.9	249	316	113	309	110	90-110	2	20	mg/kg	12.22.19 21:27	X

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 647206

Larson and Associates, Inc.

Chevron Culebra Bluff

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3111563 — Matrix: Soil — Date Prep: 12.23.19
Parent Sample Id: 646743-002 — MS Sample Id: 646743-002 S — MSD Sample Id: 646743-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	39.8	248	302	106	310	109	90-110	3	20	mg/kg	12.23.19 17:53	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3111563 — Matrix: Soil — Date Prep: 12.23.19
Parent Sample Id: 647361-005 — MS Sample Id: 647361-005 S — MSD Sample Id: 647361-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	468	250	671	81	674	82	90-110	0	20	mg/kg	12.23.19 16:21	X

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3111414 — Matrix: Solid — Date Prep: 12.20.19
MB Sample Id: 7693059-1-BLK — LCS Sample Id: 7693059-1-BKS — LCSD Sample Id: 7693059-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons	<15.0	1000	962	96	949	95	70-135	1	20	mg/kg	12.21.19 12:42	
Diesel Range Organics	<15.0	1000	972	97	946	95	70-135	3	20	mg/kg	12.21.19 12:42	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	103		118		105		70-135	%	12.21.19 12:42
o-Terphenyl	108		122		107		70-135	%	12.21.19 12:42

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3111415 — Matrix: Solid — Date Prep: 12.21.19
MB Sample Id: 7693060-1-BLK — LCS Sample Id: 7693060-1-BKS — LCSD Sample Id: 7693060-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons	<50.0	1000	977	98	950	95	70-135	3	20	mg/kg	12.21.19 22:10	
Diesel Range Organics	<15.0	1000	1000	100	963	96	70-135	4	20	mg/kg	12.21.19 22:10	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	98		107		114		70-135	%	12.21.19 22:10
o-Terphenyl	103		109		120		70-135	%	12.21.19 22:10

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 647206

Larson and Associates, Inc.

Chevron Culebra Bluff

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3111414 — Matrix: Solid — Date Prep: 12.20.19
MB Sample Id: 7693059-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Oil Range Hydrocarbons	<50.0	mg/kg	12.21.19 12:21	

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3111415 — Matrix: Solid — Date Prep: 12.21.19
MB Sample Id: 7693060-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Oil Range Hydrocarbons	<50.0	mg/kg	12.21.19 21:49	

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3111414 — Matrix: Soil — Date Prep: 12.20.19
Parent Sample Id: 647206-001 — MS Sample Id: 647206-001 S — MSD Sample Id: 647206-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons	<15.0	999	961	96	968	97	70-135	1	20	mg/kg	12.22.19 07:54	
Diesel Range Organics	19.2	999	978	96	988	97	70-135	1	20	mg/kg	12.22.19 07:54	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	117		107		70-135	%	12.22.19 07:54
o-Terphenyl	122		107		70-135	%	12.22.19 07:54

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3111415 — Matrix: Soil — Date Prep: 12.21.19
Parent Sample Id: 647206-021 — MS Sample Id: 647206-021 S — MSD Sample Id: 647206-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons	<15.0	997	915	92	948	95	70-135	4	20	mg/kg	12.22.19 08:36	
Diesel Range Organics	15.4	997	929	92	974	96	70-135	5	20	mg/kg	12.22.19 08:36	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	101		116		70-135	%	12.22.19 08:36
o-Terphenyl	101		121		70-135	%	12.22.19 08:36

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 647206

Larson and Associates, Inc.

Chevron Culebra Bluff

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3111938 — Matrix: Solid — Date Prep: 12.26.19
MB Sample Id: 7693365-1-BLK — LCS Sample Id: 7693365-1-BKS — LCSD Sample Id: 7693365-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.120	120	0.103	103	70-130	15	35	mg/kg	12.27.19 05:49	
Toluene	<0.00200	0.100	0.107	107	0.0919	92	70-130	15	35	mg/kg	12.27.19 05:49	
Ethylbenzene	<0.00200	0.100	0.106	106	0.0913	91	70-130	15	35	mg/kg	12.27.19 05:49	
m,p-Xylenes	<0.00400	0.200	0.215	108	0.184	92	70-130	16	35	mg/kg	12.27.19 05:49	
o-Xylene	<0.00200	0.100	0.107	107	0.0923	92	70-130	15	35	mg/kg	12.27.19 05:49	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	112		112		112		70-130	%	12.27.19 05:49
4-Bromofluorobenzene	90		95		93		70-130	%	12.27.19 05:49

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3112074 — Matrix: Solid — Date Prep: 12.27.19
MB Sample Id: 7693363-1-BLK — LCS Sample Id: 7693363-1-BKS — LCSD Sample Id: 7693363-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.105	105	0.101	101	70-130	4	35	mg/kg	12.30.19 11:14	
Toluene	<0.00200	0.100	0.0957	96	0.0919	92	70-130	4	35	mg/kg	12.30.19 11:14	
Ethylbenzene	<0.00200	0.100	0.0961	96	0.0920	92	70-130	4	35	mg/kg	12.30.19 11:14	
m,p-Xylenes	<0.00400	0.200	0.193	97	0.186	93	70-130	4	35	mg/kg	12.30.19 11:14	
o-Xylene	<0.00200	0.100	0.0962	96	0.0942	94	70-130	2	35	mg/kg	12.30.19 11:14	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		108		112		70-130	%	12.30.19 11:14
4-Bromofluorobenzene	86		93		98		70-130	%	12.30.19 11:14

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3111947 — Matrix: Solid — Date Prep: 12.29.19
MB Sample Id: 7693451-1-BLK — LCS Sample Id: 7693451-1-BKS — LCSD Sample Id: 7693451-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.108	108	0.105	105	70-130	3	35	mg/kg	12.29.19 16:27	
Toluene	<0.00200	0.100	0.0988	99	0.0979	98	70-130	1	35	mg/kg	12.29.19 16:27	
Ethylbenzene	<0.00200	0.100	0.0998	100	0.101	101	70-130	1	35	mg/kg	12.29.19 16:27	
m,p-Xylenes	<0.00400	0.200	0.203	102	0.206	103	70-130	1	35	mg/kg	12.29.19 16:27	
o-Xylene	<0.00200	0.100	0.100	100	0.102	102	70-130	2	35	mg/kg	12.29.19 16:27	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	111		111		110		70-130	%	12.29.19 16:27
4-Bromofluorobenzene	91		93		100		70-130	%	12.29.19 16:27

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 647206

Larson and Associates, Inc.

Chevron Culebra Bluff

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3111938 — Matrix: Soil — Date Prep: 12.26.19
Parent Sample Id: 647206-001 — MS Sample Id: 647206-001 S — MSD Sample Id: 647206-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0793	79	0.0802	80	70-130	1	35	mg/kg	12.27.19 06:30	
Toluene	<0.00200	0.0998	0.0639	64	0.0651	65	70-130	2	35	mg/kg	12.27.19 06:30	X
Ethylbenzene	<0.00200	0.0998	0.0653	65	0.0679	68	70-130	4	35	mg/kg	12.27.19 06:30	X
m,p-Xylenes	<0.00399	0.200	0.129	65	0.134	67	70-130	4	35	mg/kg	12.27.19 06:30	X
o-Xylene	<0.00200	0.0998	0.0686	69	0.0728	73	70-130	6	35	mg/kg	12.27.19 06:30	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	117		115		70-130	%	12.27.19 06:30
4-Bromofluorobenzene	101		103		70-130	%	12.27.19 06:30

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3112074 — Matrix: Soil — Date Prep: 12.27.19
Parent Sample Id: 647206-021 — MS Sample Id: 647206-021 S — MSD Sample Id: 647206-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.118	118	0.110	110	70-130	7	35	mg/kg	12.30.19 11:55	
Toluene	<0.00200	0.100	0.102	102	0.101	101	70-130	1	35	mg/kg	12.30.19 11:55	
Ethylbenzene	<0.00200	0.100	0.103	103	0.101	101	70-130	2	35	mg/kg	12.30.19 11:55	
m,p-Xylenes	<0.00400	0.200	0.224	112	0.205	103	70-130	9	35	mg/kg	12.30.19 11:55	
o-Xylene	<0.00200	0.100	0.117	117	0.105	105	70-130	11	35	mg/kg	12.30.19 11:55	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	114		113		70-130	%	12.30.19 11:55
4-Bromofluorobenzene	112		105		70-130	%	12.30.19 11:55

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3111947 — Matrix: Soil — Date Prep: 12.29.19
Parent Sample Id: 647357-001 — MS Sample Id: 647357-001 S — MSD Sample Id: 647357-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0886	89	0.0857	86	70-130	3	35	mg/kg	12.29.19 17:08	
Toluene	<0.00200	0.100	0.0834	83	0.0799	80	70-130	4	35	mg/kg	12.29.19 17:08	
Ethylbenzene	<0.00200	0.100	0.0849	85	0.0807	81	70-130	5	35	mg/kg	12.29.19 17:08	
m,p-Xylenes	<0.00401	0.200	0.175	88	0.165	83	70-130	6	35	mg/kg	12.29.19 17:08	
o-Xylene	<0.00200	0.100	0.0877	88	0.0823	82	70-130	6	35	mg/kg	12.29.19 17:08	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	111		112		70-130	%	12.29.19 17:08
4-Bromofluorobenzene	104		103		70-130	%	12.29.19 17:08

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

Page 209 of 1002

647206 Nº 0857

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

DATE: 12-20-2019 PAGE 1 OF 3

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Chevron- Culebra Bluff

LAI PROJECT #: 194180-07 COLLECTOR: RN/EC/DS

Data Reported to:

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST

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

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX X MTBE ☐	TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 X	DIESEL - MOD 8015 X	OIL - MOD 8015 X	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TBLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES X ANIONS ☐ ALKALINITY ☐	FIELD NOTES
S-23 (0.5')		12-17-19	10:41	S	1				X		X		X	X	X													X	
S-23 (1')			10:42																										
S-17 (1.5')			13:21																										
S-10 (5')			13:48																										
S-16 (1')			14:30																										
S-15 (1')			15:04																										
S-14 (5')			15:15																										
S-13 (5')			15:43																										
S-12 (5')			16:09																										
S-12 (7')			16:10																										
S-11 (5')			16:42																										
S-11 (7')			16:45																										
S-9 (5')			16:58																										
(7')			16:59																										

TOTAL 14

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
Rachel Owen	12-20-19/11:10	[signature]
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)

LABORATORY: Xenco

TURN AROUND TIME
NORMAL ☐
1 DAY ☐
2 DAY ☐
OTHER ☒ 4day RUSH

LABORATORY USE ONLY:
RECEIVING TEMP: 6.1 THERM#: R8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

Received by OCD: 5/8/2024 10:38:54 AM
Page 96 of 99
Final 1.000
Released to Imaging: 6/25/2024 3:25:17 PM

Page 210 of 1002

647206 Nº 0858

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 12-20-2019 PAGE 2 OF 3

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Chevron Cuthbert Bluff

LAI PROJECT #: 19-0180-07 COLLECTOR: RN/EC/DS

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST

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 ☐	TBLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐	m360	FIELD NOTES
S-8 (5')		12-18-19	9:08	S	1				X		X		X	X	X														X		
S-7 (5')			9:19																												
S-8 (5')			9:36																												
S-6 (7')			9:42																												
S-5 (5')			9:57																												
S-5 (7')			10:02																												
S-4 (5')			10:17																												
S-4 (7')			10:26																												
S-3 (5')			10:55																												
S-3 (7')			11:00																												
S-2 (5')			11:13																												
S-2 (7')			11:19																												
S-1 (5')			11:30																												
S-1 (7')			11:34																												
S-21 (5')			12:04																												
TOTAL					15																										

RELINQUISHED BY:(Signature) Rachel Ivey DATE/TIME 12-20-19/11:10 RECEIVED BY: (Signature) Fluamer

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

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

LABORATORY: Xenco

TURN AROUND TIME
NORMAL ☐
1 DAY ☐
2 DAY ☐
OTHER ☒ 4 day Rush

LABORATORY USE ONLY:
RECEIVING TEMP: -6.1 THERM#: R8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Received by OCD: 5/8/2024 10:38:54 AM
Released to Imaging: 6/25/2024 3:25:17 PM
Final 1.000
Page 97 of 99

Page 211 of 1002

6472206 Nº 0859

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 12-20-2019 PAGE 3 OF 3

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Chevron-Culebra Bluff

LAI PROJECT #: 19-0180-07 COLLECTOR: RN/EC/DS

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST

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 VOC ☐	TBLP - METALS (RCRA) ☐	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
S-21 (10')		12-18-19	12:07	S	1				X		X			X	X	X																									X			
S-18 (2')			12:37																																									
S-19 (3')			12:52																																									
S-20 (3')			13:45																																									
S-22 (3')			13:53																																									
S-24 (0.5')			13:56																																									
S-24 (1')			13:57																																									
S-25 (0.5')			13:59																																									
S25 (1')			14:03																																									
TOTAL		9																																									

RELINQUISHED BY:(Signature) Rachel Owen DATE/TIME 12-20-19/11:10 RECEIVED BY: (Signature)

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

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

LABORATORY: Xenco

TURN AROUND TIME
NORMAL ☐
1 DAY ☐
2 DAY ☐
OTHER ☒ 4 day

LABORATORY USE ONLY:
RECEIVING TEMP: 6.1 THERM#: R8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Received by OCD: 5/8/2024 10:38:54 AM
Released to Imaging: 6/25/2024 3:25:17 PM
Final 1.000
Page 98 of 99

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Larson and Associates, Inc.

Date/ Time Received: 12/20/2019 11:10:00 AM

Work Order #: 647206

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	-6.1
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Jessica Kramer Date: 12/20/2019
Jessica Kramer

Checklist reviewed by: Holly Taylor Date: 12/27/2019
Holly Taylor

Certificate of Analysis Summary 650826

Larson and Associates, Inc., Midland, TX

Project Name: Culebra Bluff-Chevron

Project Id: 19-0180-07
Contact: Mark Larson
Project Location:

Date Received in Lab: Thu Jan-30-20 10:01 am
Report Date: 02-MAR-20
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	650826-001		650826-005		650826-009		650826-013		650826-014		650826-015	
	Field Id:	S-13 (6')		S-10 (6')		S-14 (6')		S-12 (6')		S-12 (15')		S-12 (20')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-28-20 10:15		Jan-28-20 10:26		Jan-28-20 10:37		Jan-28-20 10:48		Jan-28-20 10:49		Jan-28-20 10:50	
Chloride by EPA 300	***Extracted:***	Jan-31-20 12:30		Jan-31-20 12:30		Jan-31-20 12:30		Jan-31-20 12:30		Feb-03-20 14:35		Feb-11-20 08:20	
	Analyzed:	Jan-31-20 14:14		Jan-31-20 14:54		Jan-31-20 15:14		Jan-31-20 15:21		Feb-03-20 21:12		Feb-11-20 09:45	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		382	5.00	325	5.03	589	4.98	670	5.05	865	5.05	738	4.96

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The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor
Project Manager

Final 1.001

Certificate of Analysis Summary 650826

Larson and Associates, Inc., Midland, TX

Project Name: Culebra Bluff-Chevron

Project Id: 19-0180-07
Contact: Mark Larson
Project Location:

Date Received in Lab: Thu Jan-30-20 10:01 am
Report Date: 02-MAR-20
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	650826-016		650826-017		650826-018		650826-019		650826-020		650826-021	
	Field Id:	S-8 (6')		S-8 (10')		S-8 (15')		S-8 (20')		S-11 (10')		S-11 (15')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-28-20 10:59		Jan-28-20 11:01		Jan-28-20 11:03		Jan-28-20 11:05		Jan-28-20 11:15		Jan-28-20 11:17	
Chloride by EPA 300	***Extracted:***	Jan-31-20 12:30		Feb-03-20 14:35		Feb-11-20 08:20		Feb-13-20 16:30		Jan-31-20 12:30		Feb-03-20 14:35	
	Analyzed:	Jan-31-20 15:28		Feb-03-20 21:39		Feb-11-20 10:18		Feb-13-20 21:11		Jan-31-20 15:48		Feb-03-20 21:59	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1130	24.8	1700	25.0	1540	25.2	1440	25.0	928	5.03	1110	5.00

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Holly Taylor
Project Manager

Certificate of Analysis Summary 650826

Larson and Associates, Inc., Midland, TX

Project Name: Culebra Bluff-Chevron

Project Id: 19-0180-07
Contact: Mark Larson
Project Location:

Date Received in Lab: Thu Jan-30-20 10:01 am
Report Date: 02-MAR-20
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	650826-022		650826-023		650826-024		650826-025		650826-026		650826-027	
	Field Id:	S-11 (20')		S-1 (10')		S-1 (15')		S-1 (20')		S-4 (10')		S-4 (15')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-28-20 11:20		Jan-28-20 11:23		Jan-28-20 11:25		Jan-28-20 11:28		Jan-28-20 11:35		Jan-28-20 11:38	
Chloride by EPA 300	***Extracted:***	Feb-11-20 11:45		Jan-31-20 12:30		Feb-03-20 14:35		Feb-11-20 11:45		Jan-31-20 12:30		Feb-03-20 14:35	
	Analyzed:	Feb-12-20 14:13		Jan-31-20 15:34		Feb-03-20 22:05		Feb-12-20 14:18		Jan-31-20 15:41		Feb-03-20 22:12	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1060	4.99	1470	4.99	999	5.00	1070	5.01	1430	4.95	1360	4.98

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Holly Taylor
Project Manager

Certificate of Analysis Summary 650826

Larson and Associates, Inc., Midland, TX

Project Name: Culebra Bluff-Chevron

Project Id: 19-0180-07
Contact: Mark Larson
Project Location:

Date Received in Lab: Thu Jan-30-20 10:01 am
Report Date: 02-MAR-20
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	650826-028		650826-029		650826-030		650826-031		650826-032		650826-033	
	Field Id:	S-4 (20')		S-2(10')		S-2 (15')		S-2 (20')		S-3 (10')		S-3 (15')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-28-20 11:40		Jan-28-20 11:45		Jan-28-20 11:47		Jan-28-20 11:49		Jan-28-20 11:53		Jan-28-20 11:54	
Chloride by EPA 300	***Extracted:***	Feb-11-20 11:45		Jan-31-20 12:30		Feb-03-20 14:35		Feb-11-20 11:45		Jan-31-20 12:30		Feb-03-20 14:35	
	Analyzed:	Feb-12-20 14:24		Jan-31-20 16:08		Feb-03-20 22:19		Feb-12-20 14:29		Jan-31-20 16:14		Feb-03-20 22:25	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1050	5.00	751	4.99	1150	4.99	1060	5.03	879	4.97	1240	5.03

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Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor
Project Manager

Certificate of Analysis Summary 650826

Larson and Associates, Inc., Midland, TX

Project Name: Culebra Bluff-Chevron

Project Id: 19-0180-07
Contact: Mark Larson
Project Location:

Date Received in Lab: Thu Jan-30-20 10:01 am
Report Date: 02-MAR-20
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	650826-034		650826-035		650826-036		650826-037		650826-038		650826-039	
	Field Id:	S-3 (20')		S-7 (6')		S-7 (10')		S-7 (15')		S-7 (20')		S-5 10')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-28-20 11:55		Jan-28-20 12:07		Jan-28-20 12:08		Jan-28-20 12:09		Jan-28-20 12:10		Jan-28-20 12:17	
Chloride by EPA 300	***Extracted:***	Feb-11-20 11:45		Jan-31-20 12:30		Feb-03-20 14:35		Feb-11-20 11:45		Feb-13-20 16:30		Jan-31-20 12:30	
	Analyzed:	Feb-12-20 14:34		Jan-31-20 16:34		Feb-03-20 22:32		Feb-12-20 14:40		Feb-13-20 21:41		Jan-31-20 16:41	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1240	4.98	1930	24.8	1020	5.01	1030	4.98	847	5.05	1110	5.02

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Holly Taylor
Project Manager

Certificate of Analysis Summary 650826

Larson and Associates, Inc., Midland, TX

Project Name: Culebra Bluff-Chevron

Project Id: 19-0180-07
Contact: Mark Larson
Project Location:

Date Received in Lab: Thu Jan-30-20 10:01 am
Report Date: 02-MAR-20
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	650826-040		650826-041		650826-042		650826-043		650826-044		650826-045	
	Field Id:	S-5 (15')		S-5 (20')		S-6 (10')		S-6(15')		S-6 (20')		S-21 (11')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-28-20 12:19		Jan-28-20 12:21		Jan-28-20 12:30		Jan-28-20 12:32		Jan-28-20 12:35		Jan-28-20 12:45	
Chloride by EPA 300	***Extracted:***	Feb-03-20 14:35		Feb-11-20 12:10		Jan-31-20 12:30		Feb-03-20 16:10		Feb-13-20 16:30		Jan-31-20 12:30	
	Analyzed:	Feb-03-20 22:39		Feb-12-20 17:56		Jan-31-20 16:48		Feb-03-20 23:19		Feb-13-20 21:48		Jan-31-20 16:55	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		845	4.96	711	5.04	693	5.05	521	5.03	921	5.03	900	4.98

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Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor
Project Manager

Certificate of Analysis Summary 650826

Larson and Associates, Inc., Midland, TX

Project Name: Culebra Bluff-Chevron

Project Id: 19-0180-07
Contact: Mark Larson
Project Location:

Date Received in Lab: Thu Jan-30-20 10:01 am
Report Date: 02-MAR-20
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	650826-046		650826-047		650826-048		650826-049		650826-050		650826-051	
	Field Id:	S-21 (15')		S-21 (20')		S-15 (2')		S-15 (5')		S-15 (10')		S-15 (15')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-28-20 12:47		Jan-28-20 12:49		Jan-28-20 13:50		Jan-28-20 13:51		Jan-28-20 13:52		Jan-28-20 13:53	
Chloride by EPA 300	***Extracted:***	Feb-03-20 16:10		Feb-11-20 12:10		Jan-31-20 12:30		Feb-11-20 12:10		Feb-13-20 16:30		Feb-17-20 13:05	
	Analyzed:	Feb-03-20 23:39		Feb-12-20 18:12		Jan-31-20 17:01		Feb-12-20 19:10		Feb-13-20 22:10		Feb-17-20 15:02	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		805	4.98	1230	5.05	751	5.00	1140	5.00	823	4.97	721	4.99
TPH by SW8015 Mod	***Extracted:***					Feb-21-20 17:00							
	Analyzed:					Feb-21-20 20:19							
	Units/RL:					mg/kg	RL						
Gasoline Range Hydrocarbons (GRO)						<49.9	49.9						
Diesel Range Organics (DRO)						171 K	49.9						
Motor Oil Range Hydrocarbons (MRO)						<49.9	49.9						
Total TPH						171 K	49.9						

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
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Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor
Project Manager

Certificate of Analysis Summary 650826

Larson and Associates, Inc., Midland, TX

Project Name: Culebra Bluff-Chevron

Project Id: 19-0180-07
Contact: Mark Larson
Project Location:

Date Received in Lab: Thu Jan-30-20 10:01 am
Report Date: 02-MAR-20
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	650826-052		650826-053		650826-054		650826-055		650826-058		650826-063	
	Field Id:	S-15 (20')		S-16 (2')		S-16 (5')		S-16 (10')		S-17 (2')		S-18 (5')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-28-20 13:54		Jan-29-20 09:16		Jan-29-20 09:17		Jan-29-20 09:22		Jan-29-20 09:29		Jan-29-20 09:42	
Chloride by EPA 300	***Extracted:***	Feb-18-20 17:30		Jan-31-20 12:30		Feb-03-20 16:10		Feb-17-20 13:05		Jan-31-20 12:30		Jan-31-20 13:20	
	Analyzed:	Feb-18-20 21:42		Jan-31-20 17:08		Feb-03-20 23:45		Feb-17-20 15:17		Jan-31-20 17:15		Jan-31-20 16:41	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		722	5.01	966	4.97	301	5.00	506	5.02	223	4.96	63.8	4.96
TPH by SW8015 Mod	***Extracted:***									Feb-21-20 17:00			
	Analyzed:									Feb-21-20 20:38			
	Units/RL:									mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)										<50.0	50.0		
Diesel Range Organics (DRO)										<50.0	50.0		
Motor Oil Range Hydrocarbons (MRO)										<50.0	50.0		
Total TPH										<50.0	50.0		

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Holly Taylor
Project Manager

Certificate of Analysis Summary 650826

Larson and Associates, Inc., Midland, TX

Project Name: Culebra Bluff-Chevron

Project Id: 19-0180-07
Contact: Mark Larson
Project Location:

Date Received in Lab: Thu Jan-30-20 10:01 am
Report Date: 02-MAR-20
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	650826-067		650826-071		650826-072		650826-073		650826-077		650826-078	
	Field Id:	S-22 (5')		S-26 (0-0.5')		S-26 (2')		S-26 (5')		S-27 (0-0.5')		S-27 (0.5-1')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-29-20 09:53		Jan-29-20 10:06		Jan-29-20 10:07		Jan-29-20 10:08		Jan-29-20 10:31		Jan-29-20 10:33	
BTEX by EPA 8021B	***Extracted:***			Mar-01-20 10:00		Mar-01-20 08:00		Mar-01-20 08:00		Mar-01-20 08:00		Mar-01-20 08:00	
	Analyzed:			Mar-01-20 20:50		Mar-01-20 18:27		Mar-01-20 18:48		Mar-01-20 19:09		Mar-01-20 19:29	
	Units/RL:			mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene				<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200
Toluene				<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200
Ethylbenzene				<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200
m,p-Xylenes				<0.00403	0.00403	<0.00398	0.00398	<0.00399	0.00399	<0.00396	0.00396	<0.00400	0.00400
o-Xylene				<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200
Total Xylenes				<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200
Total BTEX				<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200
Chloride by EPA 300	***Extracted:***	Jan-31-20 13:20		Jan-31-20 13:20						Jan-31-20 13:20		Feb-21-20 17:10	
	Analyzed:	Jan-31-20 17:01		Jan-31-20 17:08						Jan-31-20 17:14		Feb-22-20 19:37	
	Units/RL:	mg/kg	RL	mg/kg	RL					mg/kg	RL	mg/kg	RL
Chloride		150	5.00	594	5.03					63.7	5.05	76.0	4.97
TPH by SW8015 Mod	***Extracted:***			Feb-21-20 17:00						Feb-21-20 17:00		Feb-21-20 17:00	
	Analyzed:			Feb-21-20 20:57						Feb-21-20 21:16		Feb-21-20 21:35	
	Units/RL:			mg/kg	RL					mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)				<49.8	49.8					<49.9	49.9	<50.0	50.0
Diesel Range Organics (DRO)				<49.8	49.8					<49.9	49.9	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)				<49.8	49.8					<49.9	49.9	<50.0	50.0
Total TPH				<49.8	49.8					<49.9	49.9	<50.0	50.0

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Holly Taylor
Project Manager

Analytical Report 650826

for

Larson and Associates, Inc.

Project Manager: Mark Larson

Culebra Bluff-Chevron

19-0180-07

02-MAR-20

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

02-MAR-20

Project Manager: **Mark Larson**
Larson and Associates, Inc.
P. O. Box 50685
Midland, TX 79710

Reference: XENCO Report No(s): **650826**
Culebra Bluff-Chevron
Project Address:

Mark Larson :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 650826. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 650826 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Holly Taylor

Holly Taylor
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Sample Cross Reference 650826

Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S-13 (6')	S	01-28-20 10:15		650826-001
S-10 (6')	S	01-28-20 10:26		650826-005
S-14 (6')	S	01-28-20 10:37		650826-009
S-12 (6')	S	01-28-20 10:48		650826-013
S-12 (15')	S	01-28-20 10:49		650826-014
S-12 (20')	S	01-28-20 10:50		650826-015
S-8 (6')	S	01-28-20 10:59		650826-016
S-8 (10')	S	01-28-20 11:01		650826-017
S-8 (15')	S	01-28-20 11:03		650826-018
S-8 (20')	S	01-28-20 11:05		650826-019
S-11 (10')	S	01-28-20 11:15		650826-020
S-11 (15')	S	01-28-20 11:17		650826-021
S-11 (20')	S	01-28-20 11:20		650826-022
S-1 (10')	S	01-28-20 11:23		650826-023
S-1 (15')	S	01-28-20 11:25		650826-024
S-1 (20')	S	01-28-20 11:28		650826-025
S-4 (10')	S	01-28-20 11:35		650826-026
S-4 (15')	S	01-28-20 11:38		650826-027
S-4 (20')	S	01-28-20 11:40		650826-028
S-2(10')	S	01-28-20 11:45		650826-029
S-2 (15')	S	01-28-20 11:47		650826-030
S-2 (20')	S	01-28-20 11:49		650826-031
S-3 (10')	S	01-28-20 11:53		650826-032
S-3 (15')	S	01-28-20 11:54		650826-033
S-3 (20')	S	01-28-20 11:55		650826-034
S-7 (6')	S	01-28-20 12:07		650826-035
S-7 (10')	S	01-28-20 12:08		650826-036
S-7 (15')	S	01-28-20 12:09		650826-037
S-7 (20')	S	01-28-20 12:10		650826-038
S-5 10')	S	01-28-20 12:17		650826-039
S-5 (15')	S	01-28-20 12:19		650826-040
S-5 (20')	S	01-28-20 12:21		650826-041
S-6 (10')	S	01-28-20 12:30		650826-042
S-6(15')	S	01-28-20 12:32		650826-043
S-6 (20')	S	01-28-20 12:35		650826-044
S-21 (11')	S	01-28-20 12:45		650826-045
S-21 (15')	S	01-28-20 12:47		650826-046
S-21 (20')	S	01-28-20 12:49		650826-047
S-15 (2')	S	01-28-20 13:50		650826-048
S-15 (5')	S	01-28-20 13:51		650826-049
S-15 (10')	S	01-28-20 13:52		650826-050
S-15 (15')	S	01-28-20 13:53		650826-051
S-15 (20')	S	01-28-20 13:54		650826-052

Sample Cross Reference 650826

Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

S-16 (2')	S	01-29-20 09:16	650826-053
S-16 (5')	S	01-29-20 09:17	650826-054
S-16 (10')	S	01-29-20 09:22	650826-055
S-17 (2')	S	01-29-20 09:29	650826-058
S-18 (5')	S	01-29-20 09:42	650826-063
S-22 (5')	S	01-29-20 09:53	650826-067
S-26 (0-0.5')	S	01-29-20 10:06	650826-071
S-26 (2')	S	01-29-20 10:07	650826-072
S-26 (5')	S	01-29-20 10:08	650826-073
S-27 (0-0.5')	S	01-29-20 10:31	650826-077
S-27 (0.5-1')	S	01-29-20 10:33	650826-078
S-13 (10')	S	01-28-20 10:17	Not Analyzed
S-13 (15')	S	01-28-20 10:18	Not Analyzed
S-13 (20')	S	01-28-20 10:20	Not Analyzed
S-10 (10')	S	01-28-20 10:28	Not Analyzed
S-10 (15')	S	01-28-20 10:29	Not Analyzed
S-10 (20')	S	01-28-20 10:30	Not Analyzed
S-14 (10')	S	01-28-20 10:38	Not Analyzed
S-14 (15')	S	01-28-20 10:39	Not Analyzed
S-14 (20')	S	01-28-20 10:40	Not Analyzed
S-16 (15')	S	01-29-20 09:23	Not Analyzed
S-16 (20')	S	01-29-20 09:24	Not Analyzed
S-17 (5')	S	01-29-20 09:30	Not Analyzed
S-17 (10')	S	01-29-20 09:31	Not Analyzed
S-17 (15')	S	01-29-20 09:32	Not Analyzed
S-17 (20')	S	01-29-20 09:33	Not Analyzed
S-18 (10')	S	01-29-20 09:43	Not Analyzed
S-18 (15')	S	01-29-20 09:44	Not Analyzed
S-18 (20')	S	01-29-20 09:45	Not Analyzed
S-22 (10')	S	01-29-20 09:55	Not Analyzed
S-22 (15')	S	01-29-20 09:57	Not Analyzed
S-22 (20')	S	01-29-20 09:59	Not Analyzed
S-26 (10')	S	01-29-20 10:09	Not Analyzed
S-26 (15')	S	01-29-20 10:10	Not Analyzed
S-26 (20')	S	01-29-20 10:11	Not Analyzed

CASE NARRATIVE

Client Name: Larson and Associates, Inc.
Project Name: Culebra Bluff-Chevron

Project ID: *19-0180-07*
Work Order Number(s): *650826*

Report Date: *02-MAR-20*
Date Received: *01/30/2020*

Sample receipt non conformances and comments:

2/21/2020 1.001 Revised to report BTEX and TPH per COC (run out of hold time) per Rachal Owen (phone).

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3115217 Chloride by EPA 300
Lab Sample ID 650826-020 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 650826-001, -005, -009, -013, -016, -020, -023, -026, -029, -032, -035, -039, -042, -045, -048, -053, -058.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3115218 Chloride by EPA 300
Lab Sample ID 650835-010 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 650826-063, -067, -071, -077.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3115405 Chloride by EPA 300
Lab Sample ID 650994-004 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 650826-014, -017, -021, -024, -027, -030, -033, -036, -040.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3116337 Chloride by EPA 300
Lab Sample ID 650826-049 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 650826-041, -047, -049.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

CASE NARRATIVE

Client Name: Larson and Associates, Inc.
Project Name: Culebra Bluff-Chevron

Project ID: *19-0180-07*
Work Order Number(s): *650826*

Report Date: *02-MAR-20*
Date Received: *01/30/2020*

Batch: LBA-3116782 Chloride by EPA 300
Lab Sample ID 652504-008 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 650826-051, -055.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3118135 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3118235 BTEX by EPA 8021B
Surrogate 4-Bromofluorobenzene recovered above QC limits. Samples affected are: 7697827-1-BLK,650826-073.
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analytical Results 650826

Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-13 (6')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-001	Date Collected:	01.28.20 10.15		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	01.31.20 12.30	Basis:	Wet Weight
Seq Number:	3115217				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**382**	5.00	mg/kg	01.31.20 14.14		1

Certificate of Analytical Results 650826

Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-10 (6')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-005	Date Collected:	01.28.20 10.26		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	01.31.20 12.30	Basis:	Wet Weight
Seq Number:	3115217				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**325**	5.03	mg/kg	01.31.20 14.54		1

Certificate of Analytical Results 650826

Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-14 (6')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-009	Date Collected:	01.28.20 10.37		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	01.31.20 12.30	Basis:	Wet Weight
Seq Number:	3115217				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**589**	4.98	mg/kg	01.31.20 15.14		1

Certificate of Analytical Results 650826

Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-12 (6')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-013	Date Collected:	01.28.20 10.48		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	01.31.20 12.30	Basis:	Wet Weight
Seq Number:	3115217				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**670**	5.05	mg/kg	01.31.20 15.21		1

Certificate of Analytical Results 650826

Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-12 (15')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-014	Date Collected:	01.28.20 10.49		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	02.03.20 14.35	Basis:	Wet Weight
Seq Number:	3115405				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**865**	5.05	mg/kg	02.03.20 21.12		1

Certificate of Analytical Results 650826

Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-12 (20')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-015	Date Collected:	01.28.20 10.50		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	02.11.20 08.20	Basis:	Wet Weight
Seq Number:	3116222				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**738**	4.96	mg/kg	02.11.20 09.45		1

Certificate of Analytical Results 650826

Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-8 (6')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-016	Date Collected:	01.28.20 10.59		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	01.31.20 12.30	Basis:	Wet Weight
Seq Number:	3115217				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1130**	24.8	mg/kg	01.31.20 15.28		5

Certificate of Analytical Results 650826

Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-8 (10')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-017	Date Collected:	01.28.20 11.01		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	02.03.20 14.35	Basis:	Wet Weight
Seq Number:	3115405				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1700**	25.0	mg/kg	02.03.20 21.39		5

Certificate of Analytical Results 650826

Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-8 (15')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-018	Date Collected:	01.28.20 11.03		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	02.11.20 08.20	Basis:	Wet Weight
Seq Number:	3116222				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1540**	25.2	mg/kg	02.11.20 10.18		5

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Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-8 (20')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-019	Date Collected:	01.28.20 11.05		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	02.13.20 16.30	Basis:	Wet Weight
Seq Number:	3116535				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1440**	25.0	mg/kg	02.13.20 21.11		5

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Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-11 (10')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-020	Date Collected:	01.28.20 11.15		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	01.31.20 12.30	Basis:	Wet Weight
Seq Number:	3115217				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**928**	5.03	mg/kg	01.31.20 15.48		1

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Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-11 (15')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-021	Date Collected:	01.28.20 11.17		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	02.03.20 14.35	Basis:	Wet Weight
Seq Number:	3115405				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1110**	5.00	mg/kg	02.03.20 21.59		1

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Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-11 (20')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-022	Date Collected:	01.28.20 11.20		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	CHE	Date Prep:	02.11.20 11.45	Basis:	Wet Weight
Seq Number:	3116306				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1060**	4.99	mg/kg	02.12.20 14.13		1

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Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-1 (10')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-023	Date Collected:	01.28.20 11.23		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	01.31.20 12.30	Basis:	Wet Weight
Seq Number:	3115217				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1470**	4.99	mg/kg	01.31.20 15.34		1

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Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-1 (15')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-024	Date Collected:	01.28.20 11.25		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	02.03.20 14.35	Basis:	Wet Weight
Seq Number:	3115405				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**999**	5.00	mg/kg	02.03.20 22.05		1

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Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-1 (20')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-025	Date Collected:	01.28.20 11.28		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	CHE	Date Prep:	02.11.20 11.45	Basis:	Wet Weight
Seq Number:	3116306				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1070**	5.01	mg/kg	02.12.20 14.18		1

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Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-4 (10')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-026	Date Collected:	01.28.20 11.35		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	01.31.20 12.30	Basis:	Wet Weight
Seq Number:	3115217				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1430**	4.95	mg/kg	01.31.20 15.41		1

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Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-4 (15')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-027	Date Collected:	01.28.20 11.38		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	02.03.20 14.35	Basis:	Wet Weight
Seq Number:	3115405				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1360**	4.98	mg/kg	02.03.20 22.12		1

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Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-4 (20')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-028	Date Collected:	01.28.20 11.40		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	CHE	Date Prep:	02.11.20 11.45	Basis:	Wet Weight
Seq Number:	3116306				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1050**	5.00	mg/kg	02.12.20 14.24		1

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Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-2(10')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-029	Date Collected:	01.28.20 11.45		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	01.31.20 12.30	Basis:	Wet Weight
Seq Number:	3115217				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**751**	4.99	mg/kg	01.31.20 16.08		1

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Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-2 (15')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-030	Date Collected:	01.28.20 11.47		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	02.03.20 14.35	Basis:	Wet Weight
Seq Number:	3115405				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1150**	4.99	mg/kg	02.03.20 22.19		1

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Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-2 (20')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-031	Date Collected:	01.28.20 11.49		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	CHE	Date Prep:	02.11.20 11.45	Basis:	Wet Weight
Seq Number:	3116306				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1060**	5.03	mg/kg	02.12.20 14.29		1

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Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-3 (10')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-032	Date Collected:	01.28.20 11.53		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	01.31.20 12.30	Basis:	Wet Weight
Seq Number:	3115217				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**879**	4.97	mg/kg	01.31.20 16.14		1

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Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-3 (15')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-033	Date Collected:	01.28.20 11.54		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	02.03.20 14.35	Basis:	Wet Weight
Seq Number:	3115405				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1240**	5.03	mg/kg	02.03.20 22.25		1

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Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-3 (20')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-034	Date Collected:	01.28.20 11.55		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	CHE	Date Prep:	02.11.20 11.45	Basis:	Wet Weight
Seq Number:	3116306				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1240**	4.98	mg/kg	02.12.20 14.34		1

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Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-7 (6')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-035	Date Collected:	01.28.20 12.07		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	01.31.20 12.30	Basis:	Wet Weight
Seq Number:	3115217				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1930**	24.8	mg/kg	01.31.20 16.34		5

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Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-7 (10')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-036	Date Collected:	01.28.20 12.08		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	02.03.20 14.35	Basis:	Wet Weight
Seq Number:	3115405				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1020**	5.01	mg/kg	02.03.20 22.32		1

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Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-7 (15')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-037	Date Collected:	01.28.20 12.09		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	CHE	Date Prep:	02.11.20 11.45	Basis:	Wet Weight
Seq Number:	3116306				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1030**	4.98	mg/kg	02.12.20 14.40		1

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Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-7 (20')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-038	Date Collected:	01.28.20 12.10		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	02.13.20 16.30	Basis:	Wet Weight
Seq Number:	3116535				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**847**	5.05	mg/kg	02.13.20 21.41		1

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Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-5 10')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-039	Date Collected:	01.28.20 12.17		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	01.31.20 12.30	Basis:	Wet Weight
Seq Number:	3115217				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1110**	5.02	mg/kg	01.31.20 16.41		1

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Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-5 (15')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-040	Date Collected:	01.28.20 12.19		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	02.03.20 14.35	Basis:	Wet Weight
Seq Number:	3115405				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**845**	4.96	mg/kg	02.03.20 22.39		1

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Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-5 (20')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-041	Date Collected:	01.28.20 12.21		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	CHE	Date Prep:	02.11.20 12.10	Basis:	Wet Weight
Seq Number:	3116337				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**711**	5.04	mg/kg	02.12.20 17.56		1

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Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-6 (10')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-042	Date Collected:	01.28.20 12.30		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	01.31.20 12.30	Basis:	Wet Weight
Seq Number:	3115217				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**693**	5.05	mg/kg	01.31.20 16.48		1

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Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-6(15')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-043	Date Collected:	01.28.20 12.32		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	02.03.20 16.10	Basis:	Wet Weight
Seq Number:	3115408				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**521**	5.03	mg/kg	02.03.20 23.19		1

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Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-6 (20')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-044	Date Collected:	01.28.20 12.35		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	02.13.20 16.30	Basis:	Wet Weight
Seq Number:	3116535				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**921**	5.03	mg/kg	02.13.20 21.48		1

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Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-21 (11')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-045	Date Collected:	01.28.20 12.45		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	01.31.20 12.30	Basis:	Wet Weight
Seq Number:	3115217				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**900**	4.98	mg/kg	01.31.20 16.55		1

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Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-21 (15')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-046	Date Collected:	01.28.20 12.47		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	02.03.20 16.10	Basis:	Wet Weight
Seq Number:	3115408				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**805**	4.98	mg/kg	02.03.20 23.39		1

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Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-21 (20')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-047	Date Collected:	01.28.20 12.49		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	CHE	Date Prep:	02.11.20 12.10	Basis:	Wet Weight
Seq Number:	3116337				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1230**	5.05	mg/kg	02.12.20 18.12		1

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Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id: **S-15 (2')** Matrix: Soil Date Received:01.30.20 10.01

Lab Sample Id: 650826-048 Date Collected: 01.28.20 13.50

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 01.31.20 12.30 Basis: Wet Weight

Seq Number: 3115217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**751**	5.00	mg/kg	01.31.20 17.01		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 02.21.20 17.00 Basis: Wet Weight

Seq Number: 3117254

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.21.20 20.19	UK	1
Diesel Range Organics (DRO)	C10C28DRO	**171**	49.9	mg/kg	02.21.20 20.19	K	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.21.20 20.19	UK	1
Total TPH	PHC635	**171**	49.9	mg/kg	02.21.20 20.19	K	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-135	02.21.20 20.19	
o-Terphenyl	84-15-1	77	%	70-135	02.21.20 20.19	

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Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-15 (5')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-049	Date Collected:	01.28.20 13.51		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	CHE	Date Prep:	02.11.20 12.10	Basis:	Wet Weight
Seq Number:	3116337				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1140**	5.00	mg/kg	02.12.20 19.10		1

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Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-15 (10')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-050	Date Collected:	01.28.20 13.52		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	02.13.20 16.30	Basis:	Wet Weight
Seq Number:	3116535				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**823**	4.97	mg/kg	02.13.20 22.10		1

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Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-15 (15')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-051	Date Collected:	01.28.20 13.53		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	02.17.20 13.05	Basis:	Wet Weight
Seq Number:	3116782				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**721**	4.99	mg/kg	02.17.20 15.02		1

Certificate of Analytical Results 650826

Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-15 (20')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-052	Date Collected:	01.28.20 13.54		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	02.18.20 17.30	Basis:	Wet Weight
Seq Number:	3116902				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**722**	5.01	mg/kg	02.18.20 21.42		1

Certificate of Analytical Results 650826

Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-16 (2')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-053	Date Collected:	01.29.20 09.16		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	01.31.20 12.30	Basis:	Wet Weight
Seq Number:	3115217				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**966**	4.97	mg/kg	01.31.20 17.08		1

Certificate of Analytical Results 650826

Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-16 (5')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-054	Date Collected:	01.29.20 09.17		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	02.03.20 16.10	Basis:	Wet Weight
Seq Number:	3115408				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**301**	5.00	mg/kg	02.03.20 23.45		1

Certificate of Analytical Results 650826

Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-16 (10')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-055	Date Collected:	01.29.20 09.22		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	02.17.20 13.05	Basis:	Wet Weight
Seq Number:	3116782				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**506**	5.02	mg/kg	02.17.20 15.17		1

Certificate of Analytical Results 650826

Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id: **S-17 (2')** Matrix: Soil Date Received:01.30.20 10.01

Lab Sample Id: 650826-058 Date Collected: 01.29.20 09.29

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 01.31.20 12.30 Basis: Wet Weight

Seq Number: 3115217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**223**	4.96	mg/kg	01.31.20 17.15		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 02.21.20 17.00 Basis: Wet Weight

Seq Number: 3117254

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.21.20 20.38	UK	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.21.20 20.38	UK	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.21.20 20.38	UK	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.21.20 20.38	UK	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-135	02.21.20 20.38	
o-Terphenyl	84-15-1	74	%	70-135	02.21.20 20.38	

Certificate of Analytical Results 650826

Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-18 (5')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-063	Date Collected:	01.29.20 09.42		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	01.31.20 13.20	Basis:	Wet Weight
Seq Number:	3115218				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**63.8**	4.96	mg/kg	01.31.20 16.41		1

Certificate of Analytical Results 650826

Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-22 (5')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-067	Date Collected:	01.29.20 09.53		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	01.31.20 13.20	Basis:	Wet Weight
Seq Number:	3115218				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**150**	5.00	mg/kg	01.31.20 17.01		1

Certificate of Analytical Results 650826

Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-26 (0-0.5')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-071	Date Collected:	01.29.20 10.06		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	01.31.20 13.20	Basis:	Wet Weight
Seq Number:	3115218				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**594**	5.03	mg/kg	01.31.20 17.08		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	02.21.20 17.00	Basis:	Wet Weight
Seq Number:	3117254				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	02.21.20 20.57	UK	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	02.21.20 20.57	UK	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	02.21.20 20.57	UK	1
Total TPH	PHC635	<49.8	49.8	mg/kg	02.21.20 20.57	UK	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-135	02.21.20 20.57	
o-Terphenyl	84-15-1	76	%	70-135	02.21.20 20.57	

Certificate of Analytical Results 650826

Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-26 (0-0.5')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-071	Date Collected:	01.29.20 10.06		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	03.01.20 10.00	Basis:	Wet Weight
Seq Number:	3118135				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	03.01.20 20.50	UK	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	03.01.20 20.50	UK	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	03.01.20 20.50	UK	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	03.01.20 20.50	UK	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	03.01.20 20.50	UK	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	03.01.20 20.50	UK	1
Total BTEX		<0.00202	0.00202	mg/kg	03.01.20 20.50	UK	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	97	%	70-130	03.01.20 20.50	
4-Bromofluorobenzene	460-00-4	86	%	70-130	03.01.20 20.50	

Certificate of Analytical Results 650826

Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-26 (2')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-072	Date Collected:	01.29.20 10.07		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	03.01.20 08.00	Basis:	Wet Weight
Seq Number:	3118235				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.01.20 18.27	UK	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.01.20 18.27	UK	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.01.20 18.27	UK	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.01.20 18.27	UK	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.01.20 18.27	UK	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.01.20 18.27	UK	1
Total BTEX		<0.00199	0.00199	mg/kg	03.01.20 18.27	UK	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	70-130	03.01.20 18.27	
1,4-Difluorobenzene	540-36-3	97	%	70-130	03.01.20 18.27	

Certificate of Analytical Results 650826

Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-26 (5')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-073	Date Collected:	01.29.20 10.08		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	03.01.20 08.00	Basis:	Wet Weight
Seq Number:	3118235				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.01.20 18.48	UK	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.01.20 18.48	UK	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.01.20 18.48	UK	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	03.01.20 18.48	UK	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.01.20 18.48	UK	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.01.20 18.48	UK	1
Total BTEX		<0.00200	0.00200	mg/kg	03.01.20 18.48	UK	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	131	%	70-130	03.01.20 18.48	**
1,4-Difluorobenzene	540-36-3	88	%	70-130	03.01.20 18.48	

Certificate of Analytical Results 650826

Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-27 (0-0.5')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-077	Date Collected:	01.29.20 10.31		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	01.31.20 13.20	Basis:	Wet Weight
Seq Number:	3115218				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**63.7**	5.05	mg/kg	01.31.20 17.14		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	02.21.20 17.00	Basis:	Wet Weight
Seq Number:	3117254				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.21.20 21.16	UK	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.21.20 21.16	UK	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.21.20 21.16	UK	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.21.20 21.16	UK	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	02.21.20 21.16	
o-Terphenyl	84-15-1	84	%	70-135	02.21.20 21.16	

Certificate of Analytical Results 650826

Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-27 (0-0.5')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-077	Date Collected:	01.29.20 10.31		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	03.01.20 08.00	Basis:	Wet Weight
Seq Number:	3118235				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	03.01.20 19.09	UK	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	03.01.20 19.09	UK	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	03.01.20 19.09	UK	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	03.01.20 19.09	UK	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	03.01.20 19.09	UK	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	03.01.20 19.09	UK	1
Total BTEX		<0.00198	0.00198	mg/kg	03.01.20 19.09	UK	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	70-130	03.01.20 19.09	
1,4-Difluorobenzene	540-36-3	95	%	70-130	03.01.20 19.09	

Certificate of Analytical Results 650826

Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id: **S-27 (0.5-1')** Matrix: Soil Date Received:01.30.20 10.01

Lab Sample Id: 650826-078 Date Collected: 01.29.20 10.33

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 02.21.20 17.10 Basis: Wet Weight

Seq Number: 3117340

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**76.0**	4.97	mg/kg	02.22.20 19.37		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 02.21.20 17.00 Basis: Wet Weight

Seq Number: 3117254

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.21.20 21.35	UK	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.21.20 21.35	UK	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.21.20 21.35	UK	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.21.20 21.35	UK	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-135	02.21.20 21.35	
o-Terphenyl	84-15-1	75	%	70-135	02.21.20 21.35	

Certificate of Analytical Results 650826

Larson and Associates, Inc., Midland, TX

Culebra Bluff-Chevron

Sample Id:	**S-27 (0.5-1')**	Matrix:	Soil	Date Received:	01.30.20 10.01
Lab Sample Id:	650826-078	Date Collected:	01.29.20 10.33		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	03.01.20 08.00	Basis:	Wet Weight
Seq Number:	3118235				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.01.20 19.29	UK	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.01.20 19.29	UK	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.01.20 19.29	UK	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	03.01.20 19.29	UK	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.01.20 19.29	UK	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.01.20 19.29	UK	1
Total BTEX		<0.00200	0.00200	mg/kg	03.01.20 19.29	UK	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	03.01.20 19.29	
1,4-Difluorobenzene	540-36-3	95	%	70-130	03.01.20 19.29	

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

***** (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

QC Summary 650826

Larson and Associates, Inc.

Culebra Bluff-Chevron

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3115217 — Matrix: Solid — Date Prep: 01.31.20
MB Sample Id: 7695688-1-BLK — LCS Sample Id: 7695688-1-BKS — LCSD Sample Id: 7695688-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	261	104	255	102	90-110	2	20	mg/kg	01.31.20 14:01	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3115218 — Matrix: Solid — Date Prep: 01.31.20
MB Sample Id: 7695690-1-BLK — LCS Sample Id: 7695690-1-BKS — LCSD Sample Id: 7695690-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	252	101	253	101	90-110	0	20	mg/kg	01.31.20 16:28	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3115405 — Matrix: Solid — Date Prep: 02.03.20
MB Sample Id: 7695838-1-BLK — LCS Sample Id: 7695838-1-BKS — LCSD Sample Id: 7695838-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	255	102	255	102	90-110	0	20	mg/kg	02.03.20 19:26	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3115408 — Matrix: Solid — Date Prep: 02.03.20
MB Sample Id: 7695850-1-BLK — LCS Sample Id: 7695850-1-BKS — LCSD Sample Id: 7695850-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	262	105	263	105	90-110	0	20	mg/kg	02.03.20 23:05	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3116222 — Matrix: Solid — Date Prep: 02.11.20
MB Sample Id: 7696368-1-BLK — LCS Sample Id: 7696368-1-BKS — LCSD Sample Id: 7696368-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	249	100	250	100	90-110	0	20	mg/kg	02.11.20 09:32	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 650826

Larson and Associates, Inc.

Culebra Bluff-Chevron

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3116306 — Matrix: Solid — Date Prep: 02.11.20
MB Sample Id: 7696400-1-BLK — LCS Sample Id: 7696400-1-BKS — LCSD Sample Id: 7696400-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	265	106	267	107	90-110	1	20	mg/kg	02.12.20 12:07	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3116337 — Matrix: Solid — Date Prep: 02.11.20
MB Sample Id: 7696401-1-BLK — LCS Sample Id: 7696401-1-BKS — LCSD Sample Id: 7696401-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	262	105	262	105	90-110	0	20	mg/kg	02.12.20 17:45	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3116535 — Matrix: Solid — Date Prep: 02.13.20
MB Sample Id: 7696644-1-BLK — LCS Sample Id: 7696644-1-BKS — LCSD Sample Id: 7696644-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	256	102	256	102	90-110	0	20	mg/kg	02.13.20 19:21	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3116782 — Matrix: Solid — Date Prep: 02.17.20
MB Sample Id: 7696798-1-BLK — LCS Sample Id: 7696798-1-BKS — LCSD Sample Id: 7696798-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	256	102	245	98	90-110	4	20	mg/kg	02.17.20 13:37	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3116902 — Matrix: Solid — Date Prep: 02.18.20
MB Sample Id: 7696921-1-BLK — LCS Sample Id: 7696921-1-BKS — LCSD Sample Id: 7696921-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	248	99	249	100	90-110	0	20	mg/kg	02.18.20 20:00	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 650826

Larson and Associates, Inc.

Culebra Bluff-Chevron

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3117340 — Matrix: Solid — Date Prep: 02.21.20
MB Sample Id: 7697254-1-BLK — LCS Sample Id: 7697254-1-BKS — LCSD Sample Id: 7697254-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	251	100	249	100	90-110	1	20	mg/kg	02.22.20 18:34	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3115217 — Matrix: Soil — Date Prep: 01.31.20
Parent Sample Id: 650826-001 — MS Sample Id: 650826-001 S — MSD Sample Id: 650826-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	382	250	640	103	635	101	90-110	1	20	mg/kg	01.31.20 14:21	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3115217 — Matrix: Soil — Date Prep: 01.31.20
Parent Sample Id: 650826-020 — MS Sample Id: 650826-020 S — MSD Sample Id: 650826-020 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	928	252	1150	88	1140	84	90-110	1	20	mg/kg	01.31.20 15:54	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3115218 — Matrix: Soil — Date Prep: 01.31.20
Parent Sample Id: 650826-063 — MS Sample Id: 650826-063 S — MSD Sample Id: 650826-063 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	63.8	248	356	118	349	115	90-110	2	20	mg/kg	01.31.20 16:48	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3115218 — Matrix: Soil — Date Prep: 01.31.20
Parent Sample Id: 650835-010 — MS Sample Id: 650835-010 S — MSD Sample Id: 650835-010 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	397	250	660	105	656	104	90-110	1	20	mg/kg	01.31.20 18:21	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 650826

Larson and Associates, Inc.

Culebra Bluff-Chevron

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3115405 — Matrix: Soil — Date Prep: 02.03.20
Parent Sample Id: 650826-014 — MS Sample Id: 650826-014 S — MSD Sample Id: 650826-014 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	865	253	1090	89	1090	89	90-110	0	20	mg/kg	02.03.20 21:19	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3115405 — Matrix: Soil — Date Prep: 02.03.20
Parent Sample Id: 650994-004 — MS Sample Id: 650994-004 S — MSD Sample Id: 650994-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	272	250	533	104	530	103	90-110	1	20	mg/kg	02.03.20 19:46	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3115408 — Matrix: Soil — Date Prep: 02.03.20
Parent Sample Id: 650826-043 — MS Sample Id: 650826-043 S — MSD Sample Id: 650826-043 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	521	252	789	106	775	101	90-110	2	20	mg/kg	02.03.20 23:25	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3115408 — Matrix: Soil — Date Prep: 02.03.20
Parent Sample Id: 650846-001 — MS Sample Id: 650846-001 S — MSD Sample Id: 650846-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	291	250	555	106	551	104	90-110	1	20	mg/kg	02.04.20 00:58	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3116222 — Matrix: Soil — Date Prep: 02.11.20
Parent Sample Id: 650826-015 — MS Sample Id: 650826-015 S — MSD Sample Id: 650826-015 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	738	198	946	105	947	106	90-110	0	20	mg/kg	02.11.20 09:52	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 650826

Larson and Associates, Inc.

Culebra Bluff-Chevron

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3116222 — Matrix: Soil — Date Prep: 02.11.20
Parent Sample Id: 651875-007 — MS Sample Id: 651875-007 S — MSD Sample Id: 651875-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	982	202	1180	98	1190	103	90-110	1	20	mg/kg	02.11.20 11:45	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3116306 — Matrix: Soil — Date Prep: 02.11.20
Parent Sample Id: 651910-001 — MS Sample Id: 651910-001 S — MSD Sample Id: 651910-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	316	251	570	101	571	102	90-110	0	20	mg/kg	02.12.20 12:23	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3116306 — Matrix: Soil — Date Prep: 02.11.20
Parent Sample Id: 651910-011 — MS Sample Id: 651910-011 S — MSD Sample Id: 651910-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	186	249	432	99	429	98	90-110	1	20	mg/kg	02.12.20 13:36	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3116337 — Matrix: Soil — Date Prep: 02.11.20
Parent Sample Id: 650826-041 — MS Sample Id: 650826-041 S — MSD Sample Id: 650826-041 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	711	252	927	86	930	87	90-110	0	20	mg/kg	02.12.20 18:01	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3116337 — Matrix: Soil — Date Prep: 02.11.20
Parent Sample Id: 650826-049 — MS Sample Id: 650826-049 S — MSD Sample Id: 650826-049 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1140	250	1340	80	1350	84	90-110	1	20	mg/kg	02.12.20 19:15	X

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

QC Summary 650826

Larson and Associates, Inc.

Culebra Bluff-Chevron

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3116535 — Matrix: Soil — Date Prep: 02.13.20
Parent Sample Id: 652270-020 — MS Sample Id: 652270-020 S — MSD Sample Id: 652270-020 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	318	250	567	100	567	100	90-110	0	20	mg/kg	02.13.20 19:43	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3116535 — Matrix: Soil — Date Prep: 02.13.20
Parent Sample Id: 652270-027 — MS Sample Id: 652270-027 S — MSD Sample Id: 652270-027 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	65.0	249	322	103	323	104	90-110	0	20	mg/kg	02.13.20 21:26	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3116782 — Matrix: Soil — Date Prep: 02.17.20
Parent Sample Id: 650826-051 — MS Sample Id: 650826-051 S — MSD Sample Id: 650826-051 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	721	250	934	85	932	84	90-110	0	20	mg/kg	02.17.20 15:07	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3116782 — Matrix: Soil — Date Prep: 02.17.20
Parent Sample Id: 652504-008 — MS Sample Id: 652504-008 S — MSD Sample Id: 652504-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	115	249	363	100	363	100	90-110	0	20	mg/kg	02.17.20 13:53	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3116902 — Matrix: Soil — Date Prep: 02.18.20
Parent Sample Id: 652560-038 — MS Sample Id: 652560-038 S — MSD Sample Id: 652560-038 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	110	249	380	108	379	108	90-110	0	20	mg/kg	02.18.20 20:28	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 650826

Larson and Associates, Inc.

Culebra Bluff-Chevron

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3116902 — Matrix: Soil — Date Prep: 02.18.20
Parent Sample Id: 652805-003 — MS Sample Id: 652805-003 S — MSD Sample Id: 652805-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	274	252	508	93	509	93	90-110	0	20	mg/kg	02.18.20 22:37	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3117340 — Matrix: Soil — Date Prep: 02.21.20
Parent Sample Id: 652871-008 — MS Sample Id: 652871-008 S — MSD Sample Id: 652871-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	211	249	460	100	459	100	90-110	0	20	mg/kg	02.22.20 19:06	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3117340 — Matrix: Soil — Date Prep: 02.21.20
Parent Sample Id: 653280-008 — MS Sample Id: 653280-008 S — MSD Sample Id: 653280-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.05	253	259	102	260	103	90-110	0	20	mg/kg	02.22.20 21:35	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3117254 — Matrix: Solid — Date Prep: 02.21.20
MB Sample Id: 7697152-1-BLK — LCS Sample Id: 7697152-1-BKS — LCSD Sample Id: 7697152-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	1050	105	1010	101	70-135	4	20	mg/kg	02.21.20 10:00	
Diesel Range Organics (DRO)	<15.0	1000	1160	116	1100	110	70-135	5	20	mg/kg	02.21.20 10:00	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	84		122		120		70-135	%	02.21.20 10:00
o-Terphenyl	84		115		113		70-135	%	02.21.20 10:00

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3117254 — Matrix: Solid — Date Prep: 02.21.20
MB Sample Id: 7697152-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	02.21.20 09:41	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 650826

Larson and Associates, Inc.

Culebra Bluff-Chevron

Analytical Method: TPH by SW8015 Mod | Prep Method: SW8015P
Seq Number: 3117254 | Matrix: Soil | Date Prep: 02.21.20
Parent Sample Id: 653163-001 | MS Sample Id: 653163-001 S | MSD Sample Id: 653163-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	999	833	83	955	96	70-135	14	20	mg/kg	02.21.20 10:57	
Diesel Range Organics (DRO)	21.9	999	907	89	1040	102	70-135	14	20	mg/kg	02.21.20 10:57	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	107		123		70-135	%	02.21.20 10:57
o-Terphenyl	92		104		70-135	%	02.21.20 10:57

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3118235 | Matrix: Solid | Date Prep: 03.01.20
MB Sample Id: 7697827-1-BLK | LCS Sample Id: 7697827-1-BKS | LCSD Sample Id: 7697827-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.105	105	0.103	103	70-130	2	35	mg/kg	03.01.20 13:51	
Toluene	<0.00200	0.100	0.100	100	0.105	105	70-130	5	35	mg/kg	03.01.20 13:51	
Ethylbenzene	<0.00200	0.100	0.106	106	0.117	117	70-130	10	35	mg/kg	03.01.20 13:51	
m,p-Xylenes	<0.00400	0.200	0.207	104	0.241	121	70-130	15	35	mg/kg	03.01.20 13:51	
o-Xylene	<0.00200	0.100	0.102	102	0.121	121	70-130	17	35	mg/kg	03.01.20 13:51	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	93		93		90		70-130	%	03.01.20 13:51
4-Bromofluorobenzene	137	**	104		123		70-130	%	03.01.20 13:51

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3118135 | Matrix: Solid | Date Prep: 03.01.20
MB Sample Id: 7697798-1-BLK | LCS Sample Id: 7697798-1-BKS | LCSD Sample Id: 7697798-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000385	0.100	0.124	124	0.107	107	70-130	15	35	mg/kg	03.01.20 12:50	
Toluene	<0.000456	0.100	0.117	117	0.107	107	70-130	9	35	mg/kg	03.01.20 12:50	
Ethylbenzene	<0.000565	0.100	0.112	112	0.103	103	70-130	8	35	mg/kg	03.01.20 12:50	
m,p-Xylenes	<0.00101	0.200	0.222	111	0.209	105	70-130	6	35	mg/kg	03.01.20 12:50	
o-Xylene	<0.000344	0.100	0.111	111	0.104	104	70-130	7	35	mg/kg	03.01.20 12:50	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	93		102		100		70-130	%	03.01.20 12:50
4-Bromofluorobenzene	83		97		100		70-130	%	03.01.20 12:50

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

QC Summary 650826

Larson and Associates, Inc.

Culebra Bluff-Chevron

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3118235 — Matrix: Soil — Date Prep: 03.01.20
Parent Sample Id: 653428-011 — MS Sample Id: 653428-011 S — MSD Sample Id: 653428-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0992	0.0894	90	0.0958	96	70-130	7	35	mg/kg	03.01.20 14:33	
Toluene	<0.00198	0.0992	0.0980	99	0.0998	100	70-130	2	35	mg/kg	03.01.20 14:33	
Ethylbenzene	<0.00198	0.0992	0.0974	98	0.0995	100	70-130	2	35	mg/kg	03.01.20 14:33	
m,p-Xylenes	<0.00397	0.198	0.187	94	0.190	95	70-130	2	35	mg/kg	03.01.20 14:33	
o-Xylene	<0.00198	0.0992	0.0908	92	0.0915	92	70-130	1	35	mg/kg	03.01.20 14:33	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	91		87		70-130	%	03.01.20 14:33
4-Bromofluorobenzene	92		85		70-130	%	03.01.20 14:33

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3118135 — Matrix: Soil — Date Prep: 03.01.20
Parent Sample Id: 653393-002 — MS Sample Id: 653393-002 S — MSD Sample Id: 653393-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000387	0.101	0.137	136	0.132	132	70-130	4	35	mg/kg	03.01.20 13:30	X
Toluene	<0.000458	0.101	0.130	129	0.121	121	70-130	7	35	mg/kg	03.01.20 13:30	
Ethylbenzene	<0.000568	0.101	0.120	119	0.111	111	70-130	8	35	mg/kg	03.01.20 13:30	
m,p-Xylenes	<0.00102	0.201	0.229	114	0.212	106	70-130	8	35	mg/kg	03.01.20 13:30	
o-Xylene	<0.000346	0.101	0.116	115	0.108	108	70-130	7	35	mg/kg	03.01.20 13:30	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		103		70-130	%	03.01.20 13:30
4-Bromofluorobenzene	96		101		70-130	%	03.01.20 13:30

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

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605824

Nº 0961

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

DATE: 1/30/2020 PAGE 1 OF 6

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Culebra Bluff - Chevron

LAI PROJECT #: 19-0180-07 COLLECTOR: RD

Data Reported to:

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST

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: CHLORIDES ☒	FIELD NOTES
S-13 (0')		1/28/20	10:15	S	1				X		X	Sample Cl- from shallow to deep until samples are below 600 mg/kg
S-13 (10')			10:17									
S-13 (15')			10:18									
S-13 (20')			10:20									
S-10 (0')			10:26									
S-10 (10')			10:28									
S-10 (15')			10:29									
S-10 (20')			10:30									
S-14 (0')			10:37									
S-14 (10')			10:38									
S-14 (15')			10:39									
S-14 (20')			10:40									
S-12 (10')			10:48									
S-12 (15')			10:49									
S-12 (20')			10:50									
TOTAL												

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 ☐ | TBLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐

RELINQUISHED BY:(Signature) Rachel Owen | DATE/TIME 1/30/20 | RECEIVED BY: (Signature) [illegible] 1001

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

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

LABORATORY: Xenco

TURN AROUND TIME
NORMAL ☒ 5-7 days
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP: 6.3 THERM#: 128
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

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Received by OCD: 5/8/2024 10:38:54 AM

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Nº 0962

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 1/30/2020 PAGE 2 OF 6

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Culebra Bluff - Chevron

LAI PROJECT #: 19-0180-07 COLLECTOR: RD

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST

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	FIELD NOTES
S-8 (0')		1/28/20	10:59	S	1				X		Cl	Sample Cl- from shallow to deep until concentrations are below 600 mg/Kg
S-8 (10')			11:01									
S-8 (15')			11:03									
S-8 (20')			11:05									
S-11 (10')			11:15									
S-11 (15')			11:17									
S-11 (20')			11:20									
S-1 (10')			11:23									
S-1 (15')			11:25									
S-1 (20')			11:28									
S-4 (10')			11:35									
S-4 (15')			11:38									
S-4 (20')			11:40									
S-2 (10')			11:45									
S-2 (15')			11:47									
TOTAL					15							

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
Rachel Owen	1/30/2020	Xenco 10c1
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)

LABORATORY: Xenco

TURN AROUND TIME
NORMAL ☒ 5-7 days
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP: 0.3 THERM#: 26
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

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Nº 0963

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

DATE: 1/30/2020 PAGE 3 OF 6

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Culebra Bluff - Chevron

LAI PROJECT #: 19-0180-07 COLLECTOR: RD

Data Reported to:

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST

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

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES	FIELD NOTES
S-2 (20')		1/28/20	11:49	S	1				X			Sample Cl⁻ from shallow to deep until concentration is below 600 mg/kg
S-3 (10')			11:53									
S-3 (15')			11:54									
S-3 (20')			11:55									
S-7 (6')			12:07									
S-7 (10')			12:08									
S-7 (15')			12:09									
S-7 (20')			12:10									
S-5 (10')			12:17									
S-5 (15')			12:19									
S-5 (20')			12:21									
S-6 (10')			12:30									
S-6 (15')			12:32									
S-6 (20')			12:35									
S-21 (11')			12:45								X	
TOTAL	15											

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

RELINQUISHED BY:(Signature) Rachel Davis DATE/TIME 1/30/20 RECEIVED BY: (Signature) 1001

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

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

LABORATORY: Xenco

TURN AROUND TIME
NORMAL ☒ 5-7 days
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY
RECEIVING TEMP: 0.3 THERM#: D6
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

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LOSE46

№ 0964

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 1/30/2020 PAGE 4 OF 6

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Culebra Bluff - Chevron

LAI PROJECT #: 19-01807 COLLECTOR: RD

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST

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

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

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

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 NaOH	ICE	UNPRESSERVED	ANALYSES	FIELD NOTES
S-21 (15')		1/28/20	12:47	S	1				X		X	Sample Cl- / TPH from shallow to deep until concentrations are below (600 mg/kg for Cl- and 100 mg/kg for TPH
S-21 (20')		1/28/20	12:49									
S-15 (2')			13:50								XXX	
S-15 (5')			13:51									
S-15 (10')			13:52									
S-15 (15')			13:53									
S-15 (20')			13:54									
S-16 (2')		1/29/20	9:16									
S-16 (5')			9:17									
S-16 (10')			9:22									
S-16 (15')			9:23									
S-16 (20')			9:24									
S-17 (2')			9:29								XXX	
S-17 (5')			9:30									
S-17 (10')			9:31									
TOTAL					15							

RELINQUISHED BY:(Signature) Rachel Owen DATE/TIME 1/30/20 RECEIVED BY: (Signature) 1001

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

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

LABORATORY: Xenco

TURN AROUND TIME
NORMAL ☒ 5-7 days
1 DAY ☐
2 DAY ☐
OTHER ☐

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

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Nº 0965

1050824

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 1/30/2020 PAGE 5 OF 6

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Culebra Bluff-Chevron

LAI PROJECT #: 19-0180-07 COLLECTOR: RD

TRRP report? ☐ Yes ☒ No

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

TIME ZONE: Time zone/State: MST

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES	FIELD NOTES
S-17 (15')		1/29/20	9:32	S	1				X		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 ☐ TBLP - METALS (RCRA) ☐ TCLP VOC ☐ TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ TOTAL METALS (RCRA) ☐ OTHER LIST ☐ LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ RCI ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ pH ☐ HEXAVALENT CHROMIUM ☐ EXPLOSIVES ☐ PECHLORATE ☐ CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐	
S-17 (20')			9:33									Sample Cl- and TPH from shallow to deep until 600 mg/kg is reached for Cl- and 100 mg/kg is reached for TPH
S-18 (5')			9:42									
S-18 (10')			9:43									
S-18 (15')			9:44									
S-18 (20')			9:45									
S-22 (5')			9:53									
S-22 (10')			9:55									
S-22 (15')			9:57									
S-22 (20')			9:59									
S-26 (0-0.5')			10:06									
S-26 (2')			10:07									
S-26 (5')			10:08									
S-26 (10')			10:09									
S-26 (15')			10:10									
TOTAL	15											

RELINQUISHED BY:(Signature) Rachel Owen DATE/TIME 1/30/20 RECEIVED BY: (Signature) [illegible]

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

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

LABORATORY: Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP: 0.3 THERM#: R8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

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1050824

Nº 0966

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants

507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 1/30/2020 PAGE 6 OF 6

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Culebra Bluff-Chevron

LAI PROJECT #: 19-0180-07 COLLECTOR: RO

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE 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 ☐	TBLP - 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 ☐	CHLORIDES ☒	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
S-26 (20)		1/29/20	10:11	S	1				X				X	X	X																										X			
S-27 (0-0.5')		"	10:31	"	1				1		X		X	X	X																										1			analyze all BTEX/TPH + Cl- for S-27 (0-0.5') & S-27 (1-0.5')
S-27 (0.5-1')		"	10:33	"	1				1		X		X	X	X																										1			
TOTAL			3																																										

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY:(Signature)
Rachel Curtis	1/30/20	Rachel Curtis 1001
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)

LABORATORY: Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP: 0.3 THERM#: RS
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Final 1.001
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Received by OCD: 5/8/2024 10:38:54 AM
Released to Imaging: 6/25/2024 3:23:17 PM

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Larson and Associates, Inc.

Date/ Time Received: 01/30/2020 10:01:00 AM

Work Order #: 650826

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	.3
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 01/30/2020

Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 02/03/2020

Jessica Kramer

eurofins | Xenco

Certificate of Analysis Summary 666164

Larson and Associates, Inc., Midland, TX

Project Name: Cukbre Bluff

Project Id: 19-0180-07
Contact: Mark Larson
Project Location:

Date Received in Lab: Thu 07.02.2020 08:21
Report Date: 07.09.2020 13:46
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	666164-001		666164-002		666164-003		666164-004		666164-005		666164-006	
	Field Id:	BH-2 20'		BH-2 25'		BH-2 30'		BH-2 35'		BH-2 40'		BH-2 45'	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	06.26.2020 12:30		06.26.2020 12:35		06.26.2020 12:40		06.26.2020 12:45		06.26.2020 12:50		06.26.2020 12:55	
Chloride by EPA 300	***Extracted:***	07.02.2020 13:55		07.02.2020 13:55		07.02.2020 13:55		07.02.2020 13:55		07.02.2020 13:55		07.02.2020 14:35	
	Analyzed:	07.02.2020 21:34		07.02.2020 21:39		07.02.2020 21:44		07.02.2020 21:49		07.02.2020 21:54		07.02.2020 22:24	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		923	4.96	387	4.98	542	5.00	419	5.00	432	5.00	373 X	4.98

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Certificate of Analysis Summary 666164

Larson and Associates, Inc., Midland, TX

Project Name: Cukbre Bluff

Project Id: 19-0180-07
Contact: Mark Larson
Project Location:

Date Received in Lab: Thu 07.02.2020 08:21
Report Date: 07.09.2020 13:46
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	666164-007		666164-008		666164-009		666164-010		666164-011		666164-012	
	Field Id:	BH-2 50'		BH-2 55'		BH-2 60'		BH-1 20'		BH-1 25'		BH-1 30'	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	06.26.2020 12:00		06.26.2020 12:02		06.26.2020 12:03		06.26.2020 13:30		06.26.2020 13:35		06.26.2020 13:40	
Chloride by EPA 300	***Extracted:***	07.02.2020 14:35		07.02.2020 14:35		07.02.2020 14:35		07.02.2020 14:35		07.02.2020 14:35		07.02.2020 14:35	
	Analyzed:	07.02.2020 22:39		07.02.2020 22:44		07.02.2020 22:49		07.02.2020 22:55		07.02.2020 23:10		07.02.2020 23:15	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		421	4.95	465	5.04	617	4.96	881	5.00	554	5.03	953	4.98

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Certificate of Analysis Summary 666164

Larson and Associates, Inc., Midland, TX

Project Name: Cukbre Bluff

Project Id: 19-0180-07
Contact: Mark Larson
Project Location:

Date Received in Lab: Thu 07.02.2020 08:21
Report Date: 07.09.2020 13:46
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	666164-013		666164-014		666164-015		666164-016		666164-017		666164-018	
	Field Id:	BH-1 35'		BH-1 40'		BH-1 45'		BH-1 50'		BH-1 55'		BH-1 60'	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	06.26.2020 13:45		06.26.2020 13:50		06.26.2020 13:55		06.26.2020 14:00		06.26.2020 14:05		06.26.2020 14:10	
Chloride by EPA 300	***Extracted:***	07.02.2020 14:35		07.02.2020 14:35		07.02.2020 14:35		07.02.2020 14:35		07.02.2020 14:35		07.02.2020 14:35	
	Analyzed:	07.02.2020 23:20		07.02.2020 23:25		07.02.2020 23:30		07.02.2020 23:35		07.02.2020 23:50		07.02.2020 23:55	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		346	5.02	432	4.96	467	5.00	458	5.04	556	4.97	680	4.96

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Certificate of Analysis Summary 666164

Larson and Associates, Inc., Midland, TX

Project Name: Cukbre Bluff

Project Id: 19-0180-07
Contact: Mark Larson
Project Location:

Date Received in Lab: Thu 07.02.2020 08:21
Report Date: 07.09.2020 13:46
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	666164-019		666164-020		666164-021		666164-022		666164-023		666164-024	
	Field Id:	BH-3 20'		BH-3 25'		BH-3 30'		BH-3 35'		BH-3 40'		BH-4 20'	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	06.29.2020 11:25		06.29.2020 11:30		06.29.2020 11:32		06.29.2020 11:34		06.29.2020 11:36		06.29.2020 12:54	
Chloride by EPA 300	***Extracted:***	07.02.2020 14:35		07.02.2020 14:35		07.02.2020 14:35		07.02.2020 14:35		07.02.2020 14:35		07.02.2020 14:35	
	Analyzed:	07.03.2020 00:10		07.03.2020 00:16		07.03.2020 00:21		07.03.2020 00:26		07.03.2020 00:31		07.03.2020 00:36	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		396	5.03	307	4.96	274	5.00	370	4.98	265	4.99	711	5.02

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Certificate of Analysis Summary 666164

Larson and Associates, Inc., Midland, TX

Project Name: Cukbre Bluff

Project Id: 19-0180-07
Contact: Mark Larson
Project Location:

Date Received in Lab: Thu 07.02.2020 08:21
Report Date: 07.09.2020 13:46
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	666164-025		666164-026		666164-027		666164-028		666164-029		666164-030	
	Field Id:	BH-4 25'		BH-4 30'		BH-5 20'		BH-5 25'		BH-5 30'		BH-6 20'	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	06.29.2020 12:57		06.29.2020 13:00		06.29.2020 13:25		06.29.2020 13:30		06.29.2020 13:32		06.29.2020 13:55	
Chloride by EPA 300	***Extracted:***	07.02.2020 14:35		07.02.2020 14:45		07.02.2020 14:45		07.02.2020 14:45		07.02.2020 14:45		07.02.2020 14:45	
	Analyzed:	07.03.2020 00:41		07.03.2020 01:11		07.03.2020 01:26		07.03.2020 01:31		07.03.2020 01:36		07.03.2020 01:41	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		300	4.99	389	4.98	1550	25.2	331	4.96	369	4.99	794	5.00

BRL - Below Reporting Limit

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Certificate of Analysis Summary 666164

Larson and Associates, Inc., Midland, TX

Project Name: Cukbre Bluff

Project Id: 19-0180-07
Contact: Mark Larson
Project Location:

Date Received in Lab: Thu 07.02.2020 08:21
Report Date: 07.09.2020 13:46
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	666164-031		666164-032		666164-033		666164-034		666164-035		666164-036	
	Field Id:	BH-6 25'		BH-6 30'		BH-7 20'		BH-7 25'		BH-7 30'		BH-8 20'	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	06.29.2020 14:00		06.29.2020 14:03		06.29.2020 14:25		06.29.2020 14:33		06.29.2020 14:35		06.29.2020 14:55	
Chloride by EPA 300	***Extracted:***	07.02.2020 14:45		07.02.2020 14:45		07.02.2020 14:45		07.02.2020 14:45		07.02.2020 14:45		07.02.2020 14:45	
	Analyzed:	07.03.2020 01:57		07.03.2020 02:02		07.03.2020 02:07		07.03.2020 02:12		07.03.2020 02:17		07.03.2020 02:22	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		428	5.04	242	5.05	915	5.05	1340	5.05	198	4.99	1160 X	5.00

BRL - Below Reporting Limit

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Certificate of Analysis Summary 666164

Larson and Associates, Inc., Midland, TX

Project Name: Cukbre Bluff

Project Id: 19-0180-07
Contact: Mark Larson
Project Location:

Date Received in Lab: Thu 07.02.2020 08:21
Report Date: 07.09.2020 13:46
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	666164-037		666164-038		666164-039		666164-040		666164-041		666164-042	
	Field Id:	BH-8 25'		BH-8 30'		BH-9 20'		BH-9 25'		BH-9 30'		BH-10 20'	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	06.29.2020 15:00		06.29.2020 15:05		06.30.2020 09:20		06.30.2020 09:25		06.30.2020 09:30		06.30.2020 10:00	
Chloride by EPA 300	***Extracted:***	07.02.2020 14:45		07.02.2020 14:45		07.02.2020 14:45		07.02.2020 14:45		07.02.2020 14:45		07.02.2020 14:45	
	Analyzed:	07.03.2020 02:37		07.03.2020 02:42		07.03.2020 02:57		07.03.2020 03:02		07.03.2020 03:07		07.03.2020 03:12	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		247	5.04	198	4.98	900	4.96	332	5.00	397	5.04	1230	5.01

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Holly Taylor

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Certificate of Analysis Summary 666164

Larson and Associates, Inc., Midland, TX

Project Name: Cukbre Bluff

Project Id: 19-0180-07
Contact: Mark Larson
Project Location:

Date Received in Lab: Thu 07.02.2020 08:21
Report Date: 07.09.2020 13:46
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	666164-043		666164-044		666164-045		666164-046		666164-047		666164-048	
	Field Id:	BH-10 25'		BH-10 30'		BH-11 20'		BH-11 25'		BH-11 30'		BH-12 20'	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	06.30.2020 10:05		06.30.2020 10:10		06.30.2020 10:40		06.30.2020 10:45		06.30.2020 10:50		06.30.2020 11:10	
Chloride by EPA 300	***Extracted:***	07.02.2020 14:45		07.02.2020 14:45		07.02.2020 14:45		07.06.2020 16:30		07.06.2020 16:30		07.06.2020 16:30	
	Analyzed:	07.03.2020 03:17		07.03.2020 03:22		07.03.2020 03:28		07.06.2020 22:24		07.06.2020 22:30		07.06.2020 22:37	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		655	4.96	833	4.98	1170	5.00	826	25.0	749	4.99	1630	24.8

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Certificate of Analysis Summary 666164

Larson and Associates, Inc., Midland, TX

Project Name: Cukbre Bluff

Project Id: 19-0180-07
Contact: Mark Larson
Project Location:

Date Received in Lab: Thu 07.02.2020 08:21
Report Date: 07.09.2020 13:46
Project Manager: Holly Taylor

Analysis Requested											
	Lab Id:	666164-049		666164-050		666164-051		666164-052		666164-053	
	Field Id:	BH-12 25'		BH-12 30'		BH-13 20'		BH-13 25'		BH-13 30'	
	Depth:										
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	06.30.2020 11:15		06.30.2020 11:20		06.26.2020 11:40		06.26.2020 11:45		06.26.2020 11:50	
Chloride by EPA 300	***Extracted:***	07.06.2020 16:30		07.06.2020 16:30		07.06.2020 16:30		07.06.2020 16:30		07.06.2020 17:00	
	Analyzed:	07.06.2020 22:43		07.06.2020 19:58		07.06.2020 22:49		07.06.2020 21:27		07.06.2020 20:46	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		270	4.98	295	5.03	1200	5.02	224	5.00	350	5.05

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Analytical Report 666164

for

Larson and Associates, Inc.

Project Manager: Mark Larson

Cukbre Bluff

19-0180-07

07.09.2020

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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07.09.2020

Project Manager: **Mark Larson**
Larson and Associates, Inc.
P. O. Box 50685
Midland, TX 79710

Reference: Eurofins Xenco, LLC Report No(s): **666164**
Cukbre Bluff
Project Address:

Mark Larson:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 666164. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 666164 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Holly Taylor

Holly Taylor
Project Manager

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Sample Cross Reference 666164

Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH-2 20'	S	06.26.2020 12:30		666164-001
BH-2 25'	S	06.26.2020 12:35		666164-002
BH-2 30'	S	06.26.2020 12:40		666164-003
BH-2 35'	S	06.26.2020 12:45		666164-004
BH-2 40'	S	06.26.2020 12:50		666164-005
BH-2 45'	S	06.26.2020 12:55		666164-006
BH-2 50'	S	06.26.2020 12:00		666164-007
BH-2 55'	S	06.26.2020 12:02		666164-008
BH-2 60'	S	06.26.2020 12:03		666164-009
BH-1 20'	S	06.26.2020 13:30		666164-010
BH-1 25'	S	06.26.2020 13:35		666164-011
BH-1 30'	S	06.26.2020 13:40		666164-012
BH-1 35'	S	06.26.2020 13:45		666164-013
BH-1 40'	S	06.26.2020 13:50		666164-014
BH-1 45'	S	06.26.2020 13:55		666164-015
BH-1 50'	S	06.26.2020 14:00		666164-016
BH-1 55'	S	06.26.2020 14:05		666164-017
BH-1 60'	S	06.26.2020 14:10		666164-018
BH-3 20'	S	06.29.2020 11:25		666164-019
BH-3 25'	S	06.29.2020 11:30		666164-020
BH-3 30'	S	06.29.2020 11:32		666164-021
BH-3 35'	S	06.29.2020 11:34		666164-022
BH-3 40'	S	06.29.2020 11:36		666164-023
BH-4 20'	S	06.29.2020 12:54		666164-024
BH-4 25'	S	06.29.2020 12:57		666164-025
BH-4 30'	S	06.29.2020 13:00		666164-026
BH-5 20'	S	06.29.2020 13:25		666164-027
BH-5 25'	S	06.29.2020 13:30		666164-028
BH-5 30'	S	06.29.2020 13:32		666164-029
BH-6 20'	S	06.29.2020 13:55		666164-030
BH-6 25'	S	06.29.2020 14:00		666164-031
BH-6 30'	S	06.29.2020 14:03		666164-032
BH-7 20'	S	06.29.2020 14:25		666164-033
BH-7 25'	S	06.29.2020 14:33		666164-034
BH-7 30'	S	06.29.2020 14:35		666164-035
BH-8 20'	S	06.29.2020 14:55		666164-036
BH-8 25'	S	06.29.2020 15:00		666164-037
BH-8 30'	S	06.29.2020 15:05		666164-038
BH-9 20'	S	06.30.2020 09:20		666164-039
BH-9 25'	S	06.30.2020 09:25		666164-040
BH-9 30'	S	06.30.2020 09:30		666164-041
BH-10 20'	S	06.30.2020 10:00		666164-042
BH-10 25'	S	06.30.2020 10:05		666164-043

Sample Cross Reference 666164

Larson and Associates, Inc., Midland, TX

Cukbre Bluff

BH-10 30'	S	06.30.2020 10:10	666164-044
BH-11 20'	S	06.30.2020 10:40	666164-045
BH-11 25'	S	06.30.2020 10:45	666164-046
BH-11 30'	S	06.30.2020 10:50	666164-047
BH-12 20'	S	06.30.2020 11:10	666164-048
BH-12 25'	S	06.30.2020 11:15	666164-049
BH-12 30'	S	06.30.2020 11:20	666164-050
BH-13 20'	S	06.26.2020 11:40	666164-051
BH-13 25'	S	06.26.2020 11:45	666164-052
BH-13 30'	S	06.26.2020 11:50	666164-053

CASE NARRATIVE

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Client Name: Larson and Associates, Inc.

Project Name: Cukbre Bluff

Project ID: *19-0180-07*
Work Order Number(s): *666164*

Report Date: *07.09.2020*
Date Received: *07.02.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3130773 Chloride by EPA 300

Lab Sample ID 666164-016 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 666164-006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020, -021, -022, -023, -024, -025.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3130779 Chloride by EPA 300

Lab Sample ID 666164-036 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 666164-026, -027, -028, -029, -030, -031, -032, -033, -034, -035, -036, -037, -038, -039, -040, -041, -042, -043, -044, -045.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

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Certificate of Analytical Results 666164

Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-2 20'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-001	Date Collected:	06.26.2020 12:30		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 13:55	Basis:	Wet Weight
Seq Number:	3130770				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**923**	4.96	mg/kg	07.02.2020 21:34		1

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Certificate of Analytical Results 666164

Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-2 25'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-002	Date Collected:	06.26.2020 12:35		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 13:55	Basis:	Wet Weight
Seq Number:	3130770				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**387**	4.98	mg/kg	07.02.2020 21:39		1

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Certificate of Analytical Results 666164

Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-2 30'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-003	Date Collected:	06.26.2020 12:40		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 13:55	Basis:	Wet Weight
Seq Number:	3130770				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**542**	5.00	mg/kg	07.02.2020 21:44		1

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Certificate of Analytical Results 666164

Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-2 35'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-004	Date Collected:	06.26.2020 12:45		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 13:55	Basis:	Wet Weight
Seq Number:	3130770				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**419**	5.00	mg/kg	07.02.2020 21:49		1

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Certificate of Analytical Results 666164

Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-2 40'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-005	Date Collected:	06.26.2020 12:50		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 13:55	Basis:	Wet Weight
Seq Number:	3130770				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**432**	5.00	mg/kg	07.02.2020 21:54		1

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Certificate of Analytical Results 666164

Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-2 45'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-006	Date Collected:	06.26.2020 12:55		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:35	Basis:	Wet Weight
Seq Number:	3130773				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**373**	4.98	mg/kg	07.02.2020 22:24	X	1

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Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-2 50'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-007	Date Collected:	06.26.2020 12:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:35	Basis:	Wet Weight
Seq Number:	3130773				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**421**	4.95	mg/kg	07.02.2020 22:39		1

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Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-2 55'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-008	Date Collected:	06.26.2020 12:02		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:35	Basis:	Wet Weight
Seq Number:	3130773				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**465**	5.04	mg/kg	07.02.2020 22:44		1

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Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-2 60'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-009	Date Collected:	06.26.2020 12:03		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:35	Basis:	Wet Weight
Seq Number:	3130773				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**617**	4.96	mg/kg	07.02.2020 22:49		1

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Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-1 20'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-010	Date Collected:	06.26.2020 13:30		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:35	Basis:	Wet Weight
Seq Number:	3130773				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**881**	5.00	mg/kg	07.02.2020 22:55		1

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Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-1 25'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-011	Date Collected:	06.26.2020 13:35		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:35	Basis:	Wet Weight
Seq Number:	3130773				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**554**	5.03	mg/kg	07.02.2020 23:10		1

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Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-1 30'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-012	Date Collected:	06.26.2020 13:40		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:35	Basis:	Wet Weight
Seq Number:	3130773				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**953**	4.98	mg/kg	07.02.2020 23:15		1

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Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-1 35'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-013	Date Collected:	06.26.2020 13:45		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:35	Basis:	Wet Weight
Seq Number:	3130773				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**346**	5.02	mg/kg	07.02.2020 23:20		1

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Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-1 40'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-014	Date Collected:	06.26.2020 13:50		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:35	Basis:	Wet Weight
Seq Number:	3130773				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**432**	4.96	mg/kg	07.02.2020 23:25		1

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Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-1 45'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-015	Date Collected:	06.26.2020 13:55		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:35	Basis:	Wet Weight
Seq Number:	3130773				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**467**	5.00	mg/kg	07.02.2020 23:30		1

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Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-1 50'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-016	Date Collected:	06.26.2020 14:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:35	Basis:	Wet Weight
Seq Number:	3130773				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**458**	5.04	mg/kg	07.02.2020 23:35		1

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Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-1 55'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-017	Date Collected:	06.26.2020 14:05		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:35	Basis:	Wet Weight
Seq Number:	3130773				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**556**	4.97	mg/kg	07.02.2020 23:50		1

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Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-1 60'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-018	Date Collected:	06.26.2020 14:10		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:35	Basis:	Wet Weight
Seq Number:	3130773				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**680**	4.96	mg/kg	07.02.2020 23:55		1

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Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-3 20'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-019	Date Collected:	06.29.2020 11:25		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:35	Basis:	Wet Weight
Seq Number:	3130773				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**396**	5.03	mg/kg	07.03.2020 00:10		1

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Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-3 25'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-020	Date Collected:	06.29.2020 11:30		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:35	Basis:	Wet Weight
Seq Number:	3130773				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**307**	4.96	mg/kg	07.03.2020 00:16		1

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Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-3 30'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-021	Date Collected:	06.29.2020 11:32		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:35	Basis:	Wet Weight
Seq Number:	3130773				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**274**	5.00	mg/kg	07.03.2020 00:21		1

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Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-3 35'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-022	Date Collected:	06.29.2020 11:34		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:35	Basis:	Wet Weight
Seq Number:	3130773				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**370**	4.98	mg/kg	07.03.2020 00:26		1

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Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-3 40'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-023	Date Collected:	06.29.2020 11:36		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:35	Basis:	Wet Weight
Seq Number:	3130773				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**265**	4.99	mg/kg	07.03.2020 00:31		1

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Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-4 20'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-024	Date Collected:	06.29.2020 12:54		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:35	Basis:	Wet Weight
Seq Number:	3130773				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**711**	5.02	mg/kg	07.03.2020 00:36		1

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Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-4 25'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-025	Date Collected:	06.29.2020 12:57		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:35	Basis:	Wet Weight
Seq Number:	3130773				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**300**	4.99	mg/kg	07.03.2020 00:41		1

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Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-4 30'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-026	Date Collected:	06.29.2020 13:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:45	Basis:	Wet Weight
Seq Number:	3130779				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**389**	4.98	mg/kg	07.03.2020 01:11		1

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Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-5 20'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-027	Date Collected:	06.29.2020 13:25		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:45	Basis:	Wet Weight
Seq Number:	3130779				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1550**	25.2	mg/kg	07.03.2020 01:26		5

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Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-5 25'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-028	Date Collected:	06.29.2020 13:30		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:45	Basis:	Wet Weight
Seq Number:	3130779				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**331**	4.96	mg/kg	07.03.2020 01:31		1

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Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-5 30'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-029	Date Collected:	06.29.2020 13:32		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:45	Basis:	Wet Weight
Seq Number:	3130779				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**369**	4.99	mg/kg	07.03.2020 01:36		1

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Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-6 20'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-030	Date Collected:	06.29.2020 13:55		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:45	Basis:	Wet Weight
Seq Number:	3130779				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**794**	5.00	mg/kg	07.03.2020 01:41		1

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Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-6 25'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-031	Date Collected:	06.29.2020 14:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:45	Basis:	Wet Weight
Seq Number:	3130779				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**428**	5.04	mg/kg	07.03.2020 01:57		1

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Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-6 30'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-032	Date Collected:	06.29.2020 14:03		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:45	Basis:	Wet Weight
Seq Number:	3130779				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**242**	5.05	mg/kg	07.03.2020 02:02		1

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Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-7 20'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-033	Date Collected:	06.29.2020 14:25		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:45	Basis:	Wet Weight
Seq Number:	3130779				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**915**	5.05	mg/kg	07.03.2020 02:07		1

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Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-7 25'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-034	Date Collected:	06.29.2020 14:33		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:45	Basis:	Wet Weight
Seq Number:	3130779				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1340**	5.05	mg/kg	07.03.2020 02:12		1

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Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-7 30'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-035	Date Collected:	06.29.2020 14:35		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:45	Basis:	Wet Weight
Seq Number:	3130779				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**198**	4.99	mg/kg	07.03.2020 02:17		1

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Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-8 20'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-036	Date Collected:	06.29.2020 14:55		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:45	Basis:	Wet Weight
Seq Number:	3130779				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1160**	5.00	mg/kg	07.03.2020 02:22	X	1

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Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-8 25'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-037	Date Collected:	06.29.2020 15:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:45	Basis:	Wet Weight
Seq Number:	3130779				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**247**	5.04	mg/kg	07.03.2020 02:37		1

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Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-8 30'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-038	Date Collected:	06.29.2020 15:05		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:45	Basis:	Wet Weight
Seq Number:	3130779				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**198**	4.98	mg/kg	07.03.2020 02:42		1

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Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-9 20'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-039	Date Collected:	06.30.2020 09:20		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:45	Basis:	Wet Weight
Seq Number:	3130779				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**900**	4.96	mg/kg	07.03.2020 02:57		1

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Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-9 25'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-040	Date Collected:	06.30.2020 09:25		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:45	Basis:	Wet Weight
Seq Number:	3130779				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**332**	5.00	mg/kg	07.03.2020 03:02		1

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Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-9 30'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-041	Date Collected:	06.30.2020 09:30		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:45	Basis:	Wet Weight
Seq Number:	3130779				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**397**	5.04	mg/kg	07.03.2020 03:07		1

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Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-10 20'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-042	Date Collected:	06.30.2020 10:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:45	Basis:	Wet Weight
Seq Number:	3130779				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1230**	5.01	mg/kg	07.03.2020 03:12		1

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Certificate of Analytical Results 666164

Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-10 25'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-043	Date Collected:	06.30.2020 10:05		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:45	Basis:	Wet Weight
Seq Number:	3130779				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**655**	4.96	mg/kg	07.03.2020 03:17		1

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Certificate of Analytical Results 666164

Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-10 30'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-044	Date Collected:	06.30.2020 10:10		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:45	Basis:	Wet Weight
Seq Number:	3130779				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**833**	4.98	mg/kg	07.03.2020 03:22		1

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Certificate of Analytical Results 666164

Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-11 20'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-045	Date Collected:	06.30.2020 10:40		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.02.2020 14:45	Basis:	Wet Weight
Seq Number:	3130779				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1170**	5.00	mg/kg	07.03.2020 03:28		1

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Certificate of Analytical Results 666164

Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-11 25'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-046	Date Collected:	06.30.2020 10:45		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:30	Basis:	Wet Weight
Seq Number:	3130870				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**826**	25.0	mg/kg	07.06.2020 22:24		5

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Certificate of Analytical Results 666164

Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-11 30'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-047	Date Collected:	06.30.2020 10:50		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:30	Basis:	Wet Weight
Seq Number:	3130870				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**749**	4.99	mg/kg	07.06.2020 22:30		1

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Certificate of Analytical Results 666164

Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-12 20'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-048	Date Collected:	06.30.2020 11:10		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:30	Basis:	Wet Weight
Seq Number:	3130870				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1630**	24.8	mg/kg	07.06.2020 22:37		5

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Certificate of Analytical Results 666164

Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-12 25'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-049	Date Collected:	06.30.2020 11:15		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:30	Basis:	Wet Weight
Seq Number:	3130870				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**270**	4.98	mg/kg	07.06.2020 22:43		1

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Certificate of Analytical Results 666164

Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-12 30'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-050	Date Collected:	06.30.2020 11:20		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:30	Basis:	Wet Weight
Seq Number:	3130870				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**295**	5.03	mg/kg	07.06.2020 19:58		1

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Certificate of Analytical Results 666164

Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-13 20'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-051	Date Collected:	06.26.2020 11:40		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:30	Basis:	Wet Weight
Seq Number:	3130870				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1200**	5.02	mg/kg	07.06.2020 22:49		1

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Certificate of Analytical Results 666164

Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-13 25'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-052	Date Collected:	06.26.2020 11:45		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:30	Basis:	Wet Weight
Seq Number:	3130870				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**224**	5.00	mg/kg	07.06.2020 21:27		1

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Certificate of Analytical Results 666164

Larson and Associates, Inc., Midland, TX

Cukbre Bluff

Sample Id:	**BH-13 30'**	Matrix:	Soil	Date Received:	07.02.2020 08:21
Lab Sample Id:	666164-053	Date Collected:	06.26.2020 11:50		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 17:00	Basis:	Wet Weight
Seq Number:	3130872				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**350**	5.05	mg/kg	07.06.2020 20:46		1

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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QC Summary 666164

Larson and Associates, Inc.

Cukbre Bluff

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3130770 — Matrix: Solid — Date Prep: 07.02.2020
MB Sample Id: 7706695-1-BLK — LCS Sample Id: 7706695-1-BKS — LCSD Sample Id: 7706695-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	226	90	247	99	90-110	9	20	mg/kg	07.02.2020 19:27	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3130773 — Matrix: Solid — Date Prep: 07.02.2020
MB Sample Id: 7706696-1-BLK — LCS Sample Id: 7706696-1-BKS — LCSD Sample Id: 7706696-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	236	94	227	91	90-110	4	20	mg/kg	07.02.2020 22:14	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3130779 — Matrix: Solid — Date Prep: 07.02.2020
MB Sample Id: 7706697-1-BLK — LCS Sample Id: 7706697-1-BKS — LCSD Sample Id: 7706697-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	258	103	255	102	90-110	1	20	mg/kg	07.03.2020 01:01	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3130870 — Matrix: Solid — Date Prep: 07.06.2020
MB Sample Id: 7706807-1-BLK — LCS Sample Id: 7706807-1-BKS — LCSD Sample Id: 7706807-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	236	94	236	94	90-110	0	20	mg/kg	07.06.2020 19:45	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3130872 — Matrix: Solid — Date Prep: 07.06.2020
MB Sample Id: 7706808-1-BLK — LCS Sample Id: 7706808-1-BKS — LCSD Sample Id: 7706808-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	256	102	257	103	90-110	0	20	mg/kg	07.06.2020 20:36	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3130770 — Matrix: Soil — Date Prep: 07.02.2020
Parent Sample Id: 666004-003 — MS Sample Id: 666004-003 S — MSD Sample Id: 666004-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	16.9	250	288	108	289	109	90-110	0	20	mg/kg	07.02.2020 19:42	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

Final 1.000

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QC Summary 666164

Larson and Associates, Inc.

Cukbre Bluff

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3130770 — Matrix: Soil — Date Prep: 07.02.2020
Parent Sample Id: 666117-001 — MS Sample Id: 666117-001 S — MSD Sample Id: 666117-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	172	264	424	95	407	89	90-110	4	20	mg/kg	07.02.2020 20:53	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3130773 — Matrix: Soil — Date Prep: 07.02.2020
Parent Sample Id: 666164-006 — MS Sample Id: 666164-006 S — MSD Sample Id: 666164-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	373	249	585	85	646	110	90-110	10	20	mg/kg	07.02.2020 22:29	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3130773 — Matrix: Soil — Date Prep: 07.02.2020
Parent Sample Id: 666164-016 — MS Sample Id: 666164-016 S — MSD Sample Id: 666164-016 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	458	252	687	91	705	98	90-110	3	20	mg/kg	07.02.2020 23:40	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3130779 — Matrix: Soil — Date Prep: 07.02.2020
Parent Sample Id: 666164-026 — MS Sample Id: 666164-026 S — MSD Sample Id: 666164-026 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	389	249	625	95	643	102	90-110	3	20	mg/kg	07.03.2020 01:16	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3130779 — Matrix: Soil — Date Prep: 07.02.2020
Parent Sample Id: 666164-036 — MS Sample Id: 666164-036 S — MSD Sample Id: 666164-036 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1160	250	1360	80	1350	76	90-110	1	20	mg/kg	07.03.2020 02:27	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3130870 — Matrix: Soil — Date Prep: 07.06.2020
Parent Sample Id: 666164-050 — MS Sample Id: 666164-050 S — MSD Sample Id: 666164-050 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	295	252	551	102	540	97	90-110	2	20	mg/kg	07.06.2020 20:04	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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QC Summary 666164

Larson and Associates, Inc.

Cukbre Bluff

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3130870 Matrix: Soil Date Prep: 07.06.2020
Parent Sample Id: 666164-052 MS Sample Id: 666164-052 S MSD Sample Id: 666164-052 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	224	250	470	98	466	97	90-110	1	20	mg/kg	07.06.2020 21:33	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3130872 Matrix: Soil Date Prep: 07.06.2020
Parent Sample Id: 666164-053 MS Sample Id: 666164-053 S MSD Sample Id: 666164-053 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	350	253	600	99	603	100	90-110	0	20	mg/kg	07.06.2020 20:51	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3130872 Matrix: Soil Date Prep: 07.06.2020
Parent Sample Id: 666230-004 MS Sample Id: 666230-004 S MSD Sample Id: 666230-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	10.9	248	278	108	278	108	90-110	0	20	mg/kg	07.06.2020 22:02	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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№1190

L0606164

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 6/26/20 PAGE 1 OF 4

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Cukbre Bluff

LAI PROJECT #: 19-0180-07 COLLECTOR: JJ

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST

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

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

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

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES	FIELD NOTES
BH-2 20'		6-26-20	1230	S	1						X	
BH-2 25'			12 35									
BH-2 30'			12 40									
BH-2 35'			12 45									
BH-2 40'			12 50									
BH-2 45'			12 55									
BH-2 50'			12 00									
BH-2 55'			12 02									
BH-2 60'			12 03									
BH-1 20'			13 30									
BH-1 25'			13 35									
BH-1 30'			13 40									
BH-1 35'			13 45									
BH-1 40'			13 50									
BH-1 45'			13 55									

TOTAL 15

RELINQUISHED BY:(Signature) Jaime Jaime	DATE/TIME 7/2/20 EDT	RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)

LABORATORY: Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP: 26.9/26.4 THERM#: IR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Received by OCD: 5/8/2024 10:38:54 AM
Released to Imaging: 6/25/2024 3:25:17 PM
Final 1.000
Page 72 of 76

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6/26/64

№1191

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 6/26/20 PAGE 2 OF 4

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Cliff Bluff

LAI PROJECT #: COLLECTOR: TJ

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST

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	FIELD NOTES
~~6/26/20~~												
BH-1 50'		6/26/20	1400	S	1						X	
BH-1 55'		"	1405	"	"						"	
BH-1 60'		"	1410	"	"						"	
BH-3 20'		6/29/20	1125	"	"						"	
BH-3 25'		"	1130	"	"						"	
BH-3 30'		"	1132	"	"						"	
BH-3 35'		"	1134	"	"						"	
BH-3 40'		"	1136	"	"						"	
BH-4 20'		"	1254	"	"						"	
BH-4 25'		"	1257	"	"						"	
BH-4 30'		"	1300	"	"						"	
~~BH-4 35'~~												
~~BH-4 40'~~												

TOTAL 11

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
Trent Jam	7/1 821	PSW
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)

LABORATORY: Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP: 26/4/264 THERM#: TJ-8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Received by OCD: 5/8/2024 10:38:54 AM
Released to Imaging: 6/25/2024 3:25:17 PM
Final 1.000
Page 73 of 76

Page 375 of 1002

6/6/24

№1192

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants

507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 6/29/30 PAGE 3 OF 4

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Culebra Bluff

LAI PROJECT #: 19-0180-07 COLLECTOR: TJ

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST

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 ☐	TBLP - 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 ☐	CHLORIDES ☐	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
BH-5 20'		6/29/20	1325	S	1																																									X			
BH-5 25'			1330																																													
BH-5 30'			1332																																													
BH-6 20'			1355																																													
BH-6 25'			1400																																													
BH-6 30'			1403																																													
BH-7 20'			1425																																													
BH-7 25'			1433																																													
BH-7 30'			1435																																													
BH-8 20'			1455																																													
BH-8 25'			1500																																													
BH-8 30'			1505																																													

TOTAL 12

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
Trent Dalton	7/1 821	
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)

LABORATORY: Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP: 26.0/26.4 THERM#: JBS
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Received by OCD: 5/8/2024 10:38:54 AM
Released to Imaging: 6/25/2024 3:25:17 PM
Final 1.000
Page 74 of 76

Page 376 of 1002

Received by OCD: 5/8/2024 10:38:54 AM

Released to Imaging: 6/25/2024 3:25:17 PM

Final 1.000

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Nº 1193

6/6/6/164

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 6/30/20 PAGE 4 OF 4

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: CULBERSON BLUFF

LAI PROJECT #: 19-0180-07 COLLECTOR: TS + DS

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST

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	FIELD NOTES
BH-9 20'		6/30/20	0920	S	1						X	
BH-9 25'			0925									
BH-9 30'			0930									
BH-10 20'			1000									
BH-10 25'			1005									
BH-10 30'			1010									
BH-11 20'			1040									
BH-11 25'			1045									
BH-11 30'			1050									
BH-12 20'			1110									
BH-12 25'			1115									
BH-12 30'			1120									
BH-13 20'			1140									
BH-13 25'			1145									
BH-13 30'			1150									

TOTAL 15

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

RELINQUISHED BY:(Signature) Trent Sam DATE/TIME 6/30/20 RECEIVED BY: (Signature)

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

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

LABORATORY: XENCO

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

LABORATORY USE ONLY:
RECEIVING TEMP: 26.9/24.4 °C THERM#: IR-8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Larson and Associates, Inc.

Date/ Time Received: 07.02.2020 08.21.00 AM

Work Order #: 666164

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	26.4
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**No**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 07.02.2020

Brianna Teel

Checklist reviewed by: Holly Taylor Date: 07.02.2020

Holly Taylor

eurofins | Environment Testing Xenco

Certificate of Analysis Summary 687929

Larson and Associates, Inc., Midland, TX

Project Name: Culebra Bluff

Project Id: 19-0180-07
Contact: Mark Larson
Project Location:

Date Received in Lab: Wed 02.10.2021 09:03
Report Date: 02.18.2021 15:37
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	687929-001		687929-002		687929-003		687929-004					
	Field Id:	BH-2, 65'		BH-1, 65'		BH-10,35'		BH-11, 35'					
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	02.09.2021 12:23		02.09.2021 13:21		02.09.2021 14:11		02.09.2021 14:54					
Chloride by EPA 300	***Extracted:***	02.12.2021 08:50		02.12.2021 08:50		02.12.2021 08:50		02.12.2021 08:50					
	Analyzed:	02.13.2021 00:16		02.13.2021 00:21		02.13.2021 00:27		02.13.2021 00:32					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		601	4.98	531	5.02	375	5.05	354 X	5.00				

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor

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Analytical Report 687929

for

Larson and Associates, Inc.

Project Manager: Mark Larson

Culebra Bluff

19-0180-07

02.18.2021

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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02.18.2021

Project Manager: **Mark Larson**
Larson and Associates, Inc.
P. O. Box 50685
Midland, TX 79710

Reference: Eurofins Xenco, LLC Report No(s): **687929**
Culebra Bluff
Project Address:

Mark Larson:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 687929. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 687929 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Holly Taylor

Holly Taylor
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 687929

Larson and Associates, Inc., Midland, TX

Culebra Bluff

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH-2, 65'	S	02.09.2021 12:23		687929-001
BH-1, 65'	S	02.09.2021 13:21		687929-002
BH-10,35'	S	02.09.2021 14:11		687929-003
BH-11, 35'	S	02.09.2021 14:54		687929-004

CASE NARRATIVE

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Client Name: Larson and Associates, Inc.

Project Name: Culebra Bluff

Project ID: *19-0180-07*
Work Order Number(s): *687929*

Report Date: *02.18.2021*
Date Received: *02.10.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3151037 Chloride by EPA 300

Lab Sample ID 687929-004 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 687929-001, -002, -003, -004.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

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Certificate of Analytical Results 687929

Larson and Associates, Inc., Midland, TX

Culebra Bluff

Sample Id:	**BH-2, 65'**	Matrix:	Soil	Date Received:	02.10.2021 09:03
Lab Sample Id:	687929-001	Date Collected:	02.09.2021 12:23		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	02.12.2021 08:50	% Moisture:	
Seq Number:	3151037			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**601**	4.98	mg/kg	02.13.2021 00:16		1

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Certificate of Analytical Results 687929

Larson and Associates, Inc., Midland, TX

Culebra Bluff

Sample Id:	**BH-1, 65'**	Matrix:	Soil	Date Received:	02.10.2021 09:03
Lab Sample Id:	687929-002	Date Collected:	02.09.2021 13:21		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	02.12.2021 08:50	% Moisture:	
Seq Number:	3151037			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**531**	5.02	mg/kg	02.13.2021 00:21		1

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Certificate of Analytical Results 687929

Larson and Associates, Inc., Midland, TX

Culebra Bluff

Sample Id:	**BH-10,35'**	Matrix:	Soil	Date Received:	02.10.2021 09:03
Lab Sample Id:	687929-003	Date Collected:	02.09.2021 14:11		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	02.12.2021 08:50	% Moisture:	
Seq Number:	3151037			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**375**	5.05	mg/kg	02.13.2021 00:27		1

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Certificate of Analytical Results 687929

Larson and Associates, Inc., Midland, TX

Culebra Bluff

Sample Id:	**BH-11, 35'**	Matrix:	Soil	Date Received:	02.10.2021 09:03
Lab Sample Id:	687929-004	Date Collected:	02.09.2021 14:54		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	02.12.2021 08:50	% Moisture:	
Seq Number:	3151037			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**354**	5.00	mg/kg	02.13.2021 00:32	X	1

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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QC Summary 687929

Larson and Associates, Inc.

Culebra Bluff

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3151037 Matrix: Solid Date Prep: 02.12.2021
MB Sample Id: 7721393-1-BLK LCS Sample Id: 7721393-1-BKS LCSD Sample Id: 7721393-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	252	101	251	100	90-110	0	20	mg/kg	02.12.2021 21:52	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3151037 Matrix: Soil Date Prep: 02.12.2021
Parent Sample Id: 687927-001 MS Sample Id: 687927-001 S MSD Sample Id: 687927-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.04	252	249	99	241	96	90-110	3	20	mg/kg	02.12.2021 23:21	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3151037 Matrix: Soil Date Prep: 02.12.2021
Parent Sample Id: 687929-004 MS Sample Id: 687929-004 S MSD Sample Id: 687929-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	354	250	581	91	574	88	90-110	1	20	mg/kg	02.13.2021 00:37	X

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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№1413

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

DATE: 2/10/2021 PAGE 1 OF 1

PO#: LAB WORK ORDER#: 687929

PROJECT LOCATION OR NAME: Culebra Bluff

LAI PROJECT #: 19-0180-07 COLLECTOR: DV

Data Reported to:

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE 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 ☐	8082 PCBS ☐	8151 HERBICIDES ☐	TBLP - METALS (RCRA)	TCLP - PEST ☐	HERB ☐	TCLP VOC ☐	TOTAL METALS (RCRA) ☐	LEAD - TOTAL ☐	D.W. 200.8 ☐	Semi-VOC ☐	RCI ☐	TOX ☐	OTHER LIST ☐	TDS ☐	TSS ☐	FLASHPOINT ☐	TCLP ☐	pH ☐	% MOISTURE ☐	HEXAVALENT CHROMIUM ☐	CYANIDE ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDE ☐	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
BH-2, 6.5'		2/9/21	12:23	S	1				X																																					
BH-1, 6.5'		"	13:21	"	1				"																																					
BH-10, 3.5'		"	14:11	"	1				"																																					
BH-11, 3.5'		"	14:54	"	1				"																																					
TOTAL					4																																								

RELINQUISHED BY:(Signature) DATE/TIME 2/10/21 903 RECEIVED BY: (Signature)

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

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

LABORATORY: Xenco

TURN AROUND TIME

NORMAL ☒
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:

RECEIVING TEMP: 4.9 THERM#: IR8

CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED

☐ CARRIER BILL # ____

☐ HAND DELIVERED

Received by OCD: 5/8/2024 10:38:54 AM
Released to Imaging: 6/25/2024 3:25:17 PM
Page 12 of 13
Final 1.000

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Larson and Associates, Inc.

Date/ Time Received: 02.10.2021 09.03.00 AM

Work Order #: 687929

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	4.9
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 02.10.2021

Brianna Teel

Checklist reviewed by: Holly Taylor Date: 02.10.2021

Holly Taylor

eurofins | Environment Testing Xenco

Certificate of Analysis Summary 688860

Larson and Associates, Inc., Midland, TX

Project Name: Culebra Buff

Project Id: 19-0180-07
Contact: Mark Larson
Project Location:

Date Received in Lab: Tue 02.23.2021 08:51
Report Date: 03.02.2021 13:50
Project Manager: Holly Taylor

Analysis Requested							
	Lab Id:	688860-001					
	Field Id:	BH-2 70'					
	Depth:						
	Matrix:	SOIL					
	Sampled:	02.09.2021 12:44					
Chloride by EPA 300	***Extracted:***	02.23.2021 13:50					
	Analyzed:	02.23.2021 21:08					
	Units/RL:	mg/kg	RL				
Chloride		655	4.97				

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor

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Analytical Report 688860

for

Larson and Associates, Inc.

Project Manager: Mark Larson

Culebra Buff

19-0180-07

03.02.2021

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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03.02.2021

Project Manager: **Mark Larson**
Larson and Associates, Inc.
P. O. Box 50685
Midland, TX 79710

Reference: Eurofins Xenco, LLC Report No(s): **688860**
Culebra Buff
Project Address:

Mark Larson:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 688860. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 688860 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Holly Taylor

Holly Taylor
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 688860

Larson and Associates, Inc., Midland, TX

Culebra Buff

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH-2 70'	S	02.09.2021 12:44		688860-001

CASE NARRATIVE

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Client Name: Larson and Associates, Inc.

Project Name: Culebra Buff

Project ID: *19-0180-07*
Work Order Number(s): *688860*

Report Date: *03.02.2021*
Date Received: *02.23.2021*

Sample receipt non conformances and comments:

3/02/2021 1.001 Revised to change the project name per Robert Nelson (email). HT

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 688860

Larson and Associates, Inc., Midland, TX

Culebra Buff

Sample Id:	**BH-2 70'**	Matrix:	Soil	Date Received:	02.23.2021 08:51
Lab Sample Id:	688860-001	Date Collected:	02.09.2021 12:44		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	02.23.2021 13:50	% Moisture:	
Seq Number:	3151604			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**655**	4.97	mg/kg	02.23.2021 21:08		1

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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QC Summary 688860

Larson and Associates, Inc.

Culebra Buff

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3151604 Matrix: Solid Date Prep: 02.23.2021
MB Sample Id: 7721823-1-BLK LCS Sample Id: 7721823-1-BKS LCSD Sample Id: 7721823-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	245	98	245	98	90-110	0	20	mg/kg	02.23.2021 19:27	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3151604 Matrix: Soil Date Prep: 02.23.2021
Parent Sample Id: 688833-003 MS Sample Id: 688833-003 S MSD Sample Id: 688833-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	33.4	252	286	100	286	100	90-110	0	20	mg/kg	02.23.2021 19:43	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3151604 Matrix: Soil Date Prep: 02.23.2021
Parent Sample Id: 688859-005 MS Sample Id: 688859-005 S MSD Sample Id: 688859-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	12.0	250	261	100	262	100	90-110	0	20	mg/kg	02.23.2021 20:57	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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№1522

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 2/23/20 PAGE 1 OF 1

PO#: LAB WORK ORDER#: 688860

PROJECT LOCATION OR NAME: Culebra Bluff

LAI PROJECT #: 19-0180-07 COLLECTOR: ~~RN~~ RN

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE 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 ☐	TBLP - 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
BH-2 70'		2/9/20	1244	S	1				X																				X	

TOTAL 1

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
[signature]	2/23/21 0851	[signature]
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)

LABORATORY: Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP: -4.3 THERM#: IR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # ____
☐ HAND DELIVERED

Received by OCD: 5/8/2024 10:38:54 AM
Released to Imaging: 6/25/2024 3:25:17 PM
Final 1.001
Page 9 of 10

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Larson and Associates, Inc.

Date/ Time Received: 02.23.2021 08.51.00 AM

Work Order #: 688860

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	-4.3
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 02.23.2021

Brianna Teel

Checklist reviewed by: Holly Taylor Date: 02.24.2021

Holly Taylor

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ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-14444-1
Laboratory Sample Delivery Group: 19-0180-07
Client Project/Site: Culebra Bluff

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

Holly Taylor

Authorized for release by:
5/16/2022 2:26:47 PM

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

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff

Laboratory Job ID: 880-14444-1
SDG: 19-0180-07

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-14444-1
Project/Site: Culebra Bluff SDG: 19-0180-07

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.
Project/Site: Culebra Bluff

Job ID: 880-14444-1
SDG: 19-0180-07

Job ID: 880-14444-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-14444-1

Receipt
The samples were received on 5/5/2022 9:12 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.2°C

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: BG-1 1.0' (880-14444-8). Evidence of matrix interferences is not obvious.

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

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

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff

Job ID: 880-14444-1
SDG: 19-0180-07

Client Sample ID: BG-1 1.0'

Lab Sample ID: 880-14444-8
Matrix: Solid
Date Collected: 05/04/22 13:35
Date Received: 05/05/22 09:12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:58	05/13/22 18:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:58	05/13/22 18:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:58	05/13/22 18:16	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		05/10/22 13:58	05/13/22 18:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:58	05/13/22 18:16	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/10/22 13:58	05/13/22 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*05/10/22 13:58*	*05/13/22 18:16*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*05/10/22 13:58*	*05/13/22 18:16*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/14/22 15:19	1

Method: 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			05/09/22 12:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/06/22 14:38	05/08/22 06:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/06/22 14:38	05/08/22 06:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/06/22 14:38	05/08/22 06:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*122*		*70 - 130*	*05/06/22 14:38*	*05/08/22 06:05*	*1*
o-Terphenyl (Surr)	*132*	*S1+*	*70 - 130*	*05/06/22 14:38*	*05/08/22 06:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**502**		5.00		mg/Kg			05/11/22 00:09	1

Client Sample ID: BG-1 3.0'

Lab Sample ID: 880-14444-9
Matrix: Solid
Date Collected: 05/04/22 13:36
Date Received: 05/05/22 09:12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/10/22 13:58	05/13/22 18:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/10/22 13:58	05/13/22 18:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/10/22 13:58	05/13/22 18:36	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		05/10/22 13:58	05/13/22 18:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/10/22 13:58	05/13/22 18:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/10/22 13:58	05/13/22 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*05/10/22 13:58*	*05/13/22 18:36*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*05/10/22 13:58*	*05/13/22 18:36*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-14444-1
Project/Site: Culebra Bluff SDG: 19-0180-07

Client Sample ID: BG-1 3.0'
Lab Sample ID: 880-14444-9
Date Collected: 05/04/22 13:36 **Matrix: Solid**
Date Received: 05/05/22 09:12

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/14/22 15:19	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/09/22 12:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/06/22 14:38	05/08/22 06:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/06/22 14:38	05/08/22 06:25	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/06/22 14:38	05/08/22 06:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*91*		*70 - 130*	*05/06/22 14:38*	*05/08/22 06:25*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*05/06/22 14:38*	*05/08/22 06:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**810**		5.01		mg/Kg			05/11/22 00:34	1

Client Sample ID: BG-1 5.0'
Lab Sample ID: 880-14444-10
Date Collected: 05/04/22 13:37 **Matrix: Solid**
Date Received: 05/05/22 09:12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/10/22 13:58	05/13/22 18:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/10/22 13:58	05/13/22 18:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/10/22 13:58	05/13/22 18:57	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		05/10/22 13:58	05/13/22 18:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/10/22 13:58	05/13/22 18:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/10/22 13:58	05/13/22 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*05/10/22 13:58*	*05/13/22 18:57*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*05/10/22 13:58*	*05/13/22 18:57*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/14/22 15:19	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/09/22 12:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/06/22 14:42	05/07/22 13:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/06/22 14:42	05/07/22 13:12	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-14444-1
Project/Site: Culebra Bluff SDG: 19-0180-07

Client Sample ID: BG-1 5.0' Lab Sample ID: 880-14444-10

Date Collected: 05/04/22 13:37 **Matrix: Solid**
Date Received: 05/05/22 09:12

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/22 14:42	05/07/22 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*05/06/22 14:42*	*05/07/22 13:12*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*05/06/22 14:42*	*05/07/22 13:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**559**		25.0		mg/Kg			05/11/22 00:42	5

Client Sample ID: BG-1 10.0' Lab Sample ID: 880-14444-11

Date Collected: 05/04/22 13:38 **Matrix: Solid**
Date Received: 05/05/22 09:12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:58	05/13/22 19:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:58	05/13/22 19:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:58	05/13/22 19:18	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		05/10/22 13:58	05/13/22 19:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:58	05/13/22 19:18	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/10/22 13:58	05/13/22 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*05/10/22 13:58*	*05/13/22 19:18*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*05/10/22 13:58*	*05/13/22 19:18*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			05/14/22 15:19	1

Method: 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			05/09/22 12:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/06/22 14:42	05/07/22 14:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/06/22 14:42	05/07/22 14:16	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/06/22 14:42	05/07/22 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*74*		*70 - 130*	*05/06/22 14:42*	*05/07/22 14:16*	*1*
o-Terphenyl (Surr)	*72*		*70 - 130*	*05/06/22 14:42*	*05/07/22 14:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**439**		4.97		mg/Kg			05/11/22 00:50	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff

Job ID: 880-14444-1
SDG: 19-0180-07

Client Sample ID: BG-2 1.0'
Date Collected: 05/04/22 14:00
Date Received: 05/05/22 09:12

Lab Sample ID: 880-14444-12
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/10/22 13:58	05/13/22 19:39	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/10/22 13:58	05/13/22 19:39	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/10/22 13:58	05/13/22 19:39	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		05/10/22 13:58	05/13/22 19:39	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/10/22 13:58	05/13/22 19:39	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/10/22 13:58	05/13/22 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*05/10/22 13:58*	*05/13/22 19:39*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*05/10/22 13:58*	*05/13/22 19:39*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/14/22 15:19	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/09/22 12:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/06/22 14:42	05/07/22 14:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/06/22 14:42	05/07/22 14:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/22 14:42	05/07/22 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*82*		*70 - 130*	*05/06/22 14:42*	*05/07/22 14:38*	*1*
o-Terphenyl (Surr)	*83*		*70 - 130*	*05/06/22 14:42*	*05/07/22 14:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**76.7**		4.95		mg/Kg			05/11/22 00:58	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff

Job ID: 880-14444-1
SDG: 19-0180-07

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)
880-14444-8	BG-1 1.0'	83	109
880-14444-9	BG-1 3.0'	90	109
880-14444-10	BG-1 5.0'	93	106
880-14444-11	BG-1 10.0'	94	112
880-14444-12	BG-2 1.0'	94	109
880-14515-A-35-E MS	Matrix Spike	104	108
880-14515-A-35-F MSD	Matrix Spike Duplicate	98	107
LCS 880-25281/1-A	Lab Control Sample	105	103
LCSD 880-25281/2-A	Lab Control Sample Dup	96	102
MB 880-25281/5-A	Method Blank	92	100

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)
880-14444-8	BG-1 1.0'	122	132 S1+
880-14444-9	BG-1 3.0'	91	95
880-14444-10	BG-1 5.0'	98	95
880-14444-10 MS	BG-1 5.0'	80	72
880-14444-10 MSD	BG-1 5.0'	86	76
880-14444-11	BG-1 10.0'	74	72
880-14444-12	BG-2 1.0'	82	83
890-2276-A-1-D MS	Matrix Spike	89	86
890-2276-A-1-E MSD	Matrix Spike Duplicate	89	84
LCS 880-24992/2-A	Lab Control Sample	102	107
LCS 880-24993/2-A	Lab Control Sample	85	84
LCSD 880-24992/3-A	Lab Control Sample Dup	108	114
LCSD 880-24993/3-A	Lab Control Sample Dup	80	78
MB 880-24992/1-A	Method Blank	101	115
MB 880-24993/1-A	Method Blank	92	106

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff

Job ID: 880-14444-1
SDG: 19-0180-07

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-25281/5-A
Matrix: Solid
Analysis Batch: 25496

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 25281

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:58	05/13/22 12:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:58	05/13/22 12:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:58	05/13/22 12:08	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		05/10/22 13:58	05/13/22 12:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/10/22 13:58	05/13/22 12:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/10/22 13:58	05/13/22 12:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*05/10/22 13:58*	*05/13/22 12:08*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*05/10/22 13:58*	*05/13/22 12:08*	*1*

Lab Sample ID: LCS 880-25281/1-A
Matrix: Solid
Analysis Batch: 25496

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 25281

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.07938		mg/Kg		79	70 - 130		
Toluene			0.100	0.08493		mg/Kg		85	70 - 130		
Ethylbenzene			0.100	0.09484		mg/Kg		95	70 - 130		
m,p-Xylenes			0.200	0.2031		mg/Kg		102	70 - 130		
o-Xylene			0.100	0.09940		mg/Kg		99	70 - 130		

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

Lab Sample ID: LCSD 880-25281/2-A
Matrix: Solid
Analysis Batch: 25496

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 25281

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08261		mg/Kg		83	70 - 130	4	35
Toluene			0.100	0.08304		mg/Kg		83	70 - 130	2	35
Ethylbenzene			0.100	0.08772		mg/Kg		88	70 - 130	8	35
m,p-Xylenes			0.200	0.1866		mg/Kg		93	70 - 130	9	35
o-Xylene			0.100	0.09129		mg/Kg		91	70 - 130	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 880-14515-A-35-E MS
Matrix: Solid
Analysis Batch: 25496

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 25281

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.07072		mg/Kg		71	70 - 130		
Toluene	<0.00200	U	0.100	0.07246		mg/Kg		72	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff

Job ID: 880-14444-1
SDG: 19-0180-07

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

Lab Sample ID: 880-14515-A-35-E MS
Matrix: Solid
Analysis Batch: 25496

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 25281

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.07689		mg/Kg		77	70 - 130
m,p-Xylenes	<0.00401	U	0.200	0.1596		mg/Kg		80	70 - 130
o-Xylene	<0.00200	U	0.100	0.07994		mg/Kg		80	70 - 130

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

Lab Sample ID: 880-14515-A-35-F MSD
Matrix: Solid
Analysis Batch: 25496

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 25281

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0998	0.07018		mg/Kg		70	70 - 130	1	35
Toluene	<0.00200	U	0.0998	0.06987		mg/Kg		70	70 - 130	4	35
Ethylbenzene	<0.00200	U	0.0998	0.07365		mg/Kg		74	70 - 130	4	35
m,p-Xylenes	<0.00401	U	0.200	0.1506		mg/Kg		75	70 - 130	6	35
o-Xylene	<0.00200	U	0.0998	0.07514		mg/Kg		75	70 - 130	6	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

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

Lab Sample ID: MB 880-24992/1-A
Matrix: Solid
Analysis Batch: 25017

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 24992

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/06/22 14:38	05/07/22 21:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/06/22 14:38	05/07/22 21:59	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/22 14:38	05/07/22 21:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*05/06/22 14:38*	*05/07/22 21:59*	*1*
o-Terphenyl (Surr)	*115*		*70 - 130*	*05/06/22 14:38*	*05/07/22 21:59*	*1*

Lab Sample ID: LCS 880-24992/2-A
Matrix: Solid
Analysis Batch: 25017

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 24992

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1095		mg/Kg		109	70 - 130
Diesel Range Organics (Over C10-C28)			1000	926.5		mg/Kg		93	70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff

Job ID: 880-14444-1
SDG: 19-0180-07

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

Lab Sample ID: LCS 880-24992/2-A
Matrix: Solid
Analysis Batch: 25017

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 24992

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	102		70 - 130
o-Terphenyl (Surr)	107		70 - 130

Lab Sample ID: LCSD 880-24992/3-A
Matrix: Solid
Analysis Batch: 25017

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 24992

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1087		mg/Kg		109	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	918.9		mg/Kg		92	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	108		70 - 130
o-Terphenyl (Surr)	114		70 - 130

Lab Sample ID: 890-2276-A-1-D MS
Matrix: Solid
Analysis Batch: 25017

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 24992

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	1000	1038		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	780.9		mg/Kg		78	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	89		70 - 130
o-Terphenyl (Surr)	86		70 - 130

Lab Sample ID: 890-2276-A-1-E MSD
Matrix: Solid
Analysis Batch: 25017

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 24992

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	998	1044		mg/Kg		105	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	768.4		mg/Kg		77	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	89		70 - 130
o-Terphenyl (Surr)	84		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff

Job ID: 880-14444-1
SDG: 19-0180-07

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

Lab Sample ID: MB 880-24993/1-A
Matrix: Solid
Analysis Batch: 25019

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 24993

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/06/22 14:42	05/07/22 12:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/06/22 14:42	05/07/22 12:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/22 14:42	05/07/22 12:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*92*		*70 - 130*	*05/06/22 14:42*	*05/07/22 12:08*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*05/06/22 14:42*	*05/07/22 12:08*	*1*

Lab Sample ID: LCS 880-24993/2-A
Matrix: Solid
Analysis Batch: 25019

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 24993

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	960.1		mg/Kg		96	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	873.5		mg/Kg		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*85*		*70 - 130*
o-Terphenyl (Surr)	*84*		*70 - 130*

Lab Sample ID: LCSD 880-24993/3-A
Matrix: Solid
Analysis Batch: 25019

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 24993

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	956.9		mg/Kg		96	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	803.7		mg/Kg		80	70 - 130	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*80*		*70 - 130*
o-Terphenyl (Surr)	*78*		*70 - 130*

Lab Sample ID: 880-14444-10 MS
Matrix: Solid
Analysis Batch: 25019

Client Sample ID: BG-1 5.0'
Prep Type: Total/NA
Prep Batch: 24993

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	1000	881.4		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	747.4		mg/Kg		72	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff

Job ID: 880-14444-1
SDG: 19-0180-07

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

Lab Sample ID: 880-14444-10 MS
Matrix: Solid
Analysis Batch: 25019

Client Sample ID: BG-1 5.0'
Prep Type: Total/NA
Prep Batch: 24993

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	80		70 - 130
o-Terphenyl (Surr)	72		70 - 130

Lab Sample ID: 880-14444-10 MSD
Matrix: Solid
Analysis Batch: 25019

Client Sample ID: BG-1 5.0'
Prep Type: Total/NA
Prep Batch: 24993

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	998	967.2		mg/Kg		97	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	796.4		mg/Kg		77	70 - 130	6	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	86		70 - 130
o-Terphenyl (Surr)	76		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-24904/1-A
Matrix: Solid
Analysis Batch: 25285

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/10/22 23:45	1

Lab Sample ID: LCS 880-24904/2-A
Matrix: Solid
Analysis Batch: 25285

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	263.1		mg/Kg		105	90 - 110		

Lab Sample ID: LCSD 880-24904/3-A
Matrix: Solid
Analysis Batch: 25285

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	262.5		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-14444-8 MS
Matrix: Solid
Analysis Batch: 25285

Client Sample ID: BG-1 1.0'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	502		250	732.4		mg/Kg		92	90 - 110		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff

Job ID: 880-14444-1
SDG: 19-0180-07

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-14444-8 MSD
Matrix: Solid
Analysis Batch: 25285

Client Sample ID: BG-1 1.0'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	502		250	728.9		mg/Kg		91	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff

Job ID: 880-14444-1
SDG: 19-0180-07

GC VOA

Prep Batch: 25281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14444-8	BG-1 1.0'	Total/NA	Solid	5035	
880-14444-9	BG-1 3.0'	Total/NA	Solid	5035	
880-14444-10	BG-1 5.0'	Total/NA	Solid	5035	
880-14444-11	BG-1 10.0'	Total/NA	Solid	5035	
880-14444-12	BG-2 1.0'	Total/NA	Solid	5035	
MB 880-25281/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25281/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25281/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-14515-A-35-E MS	Matrix Spike	Total/NA	Solid	5035	
880-14515-A-35-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 25496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14444-8	BG-1 1.0'	Total/NA	Solid	8021B	25281
880-14444-9	BG-1 3.0'	Total/NA	Solid	8021B	25281
880-14444-10	BG-1 5.0'	Total/NA	Solid	8021B	25281
880-14444-11	BG-1 10.0'	Total/NA	Solid	8021B	25281
880-14444-12	BG-2 1.0'	Total/NA	Solid	8021B	25281
MB 880-25281/5-A	Method Blank	Total/NA	Solid	8021B	25281
LCS 880-25281/1-A	Lab Control Sample	Total/NA	Solid	8021B	25281
LCSD 880-25281/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25281
880-14515-A-35-E MS	Matrix Spike	Total/NA	Solid	8021B	25281
880-14515-A-35-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	25281

Analysis Batch: 25566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14444-8	BG-1 1.0'	Total/NA	Solid	Total BTEX	
880-14444-9	BG-1 3.0'	Total/NA	Solid	Total BTEX	
880-14444-10	BG-1 5.0'	Total/NA	Solid	Total BTEX	
880-14444-11	BG-1 10.0'	Total/NA	Solid	Total BTEX	
880-14444-12	BG-2 1.0'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 24992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14444-8	BG-1 1.0'	Total/NA	Solid	8015NM Prep	
880-14444-9	BG-1 3.0'	Total/NA	Solid	8015NM Prep	
MB 880-24992/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-24992/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-24992/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2276-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2276-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 24993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14444-10	BG-1 5.0'	Total/NA	Solid	8015NM Prep	
880-14444-11	BG-1 10.0'	Total/NA	Solid	8015NM Prep	
880-14444-12	BG-2 1.0'	Total/NA	Solid	8015NM Prep	
MB 880-24993/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-24993/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff

Job ID: 880-14444-1
SDG: 19-0180-07

GC Semi VOA (Continued)

Prep Batch: 24993 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-24993/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-14444-10 MS	BG-1 5.0'	Total/NA	Solid	8015NM Prep	
880-14444-10 MSD	BG-1 5.0'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 25017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14444-8	BG-1 1.0'	Total/NA	Solid	8015B NM	24992
880-14444-9	BG-1 3.0'	Total/NA	Solid	8015B NM	24992
MB 880-24992/1-A	Method Blank	Total/NA	Solid	8015B NM	24992
LCS 880-24992/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	24992
LCSD 880-24992/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	24992
890-2276-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	24992
890-2276-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	24992

Analysis Batch: 25019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14444-10	BG-1 5.0'	Total/NA	Solid	8015B NM	24993
880-14444-11	BG-1 10.0'	Total/NA	Solid	8015B NM	24993
880-14444-12	BG-2 1.0'	Total/NA	Solid	8015B NM	24993
MB 880-24993/1-A	Method Blank	Total/NA	Solid	8015B NM	24993
LCS 880-24993/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	24993
LCSD 880-24993/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	24993
880-14444-10 MS	BG-1 5.0'	Total/NA	Solid	8015B NM	24993
880-14444-10 MSD	BG-1 5.0'	Total/NA	Solid	8015B NM	24993

Analysis Batch: 25096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14444-8	BG-1 1.0'	Total/NA	Solid	8015 NM	
880-14444-9	BG-1 3.0'	Total/NA	Solid	8015 NM	
880-14444-10	BG-1 5.0'	Total/NA	Solid	8015 NM	
880-14444-11	BG-1 10.0'	Total/NA	Solid	8015 NM	
880-14444-12	BG-2 1.0'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 24904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14444-8	BG-1 1.0'	Soluble	Solid	DI Leach	
880-14444-9	BG-1 3.0'	Soluble	Solid	DI Leach	
880-14444-10	BG-1 5.0'	Soluble	Solid	DI Leach	
880-14444-11	BG-1 10.0'	Soluble	Solid	DI Leach	
880-14444-12	BG-2 1.0'	Soluble	Solid	DI Leach	
MB 880-24904/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-24904/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-24904/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-14444-8 MS	BG-1 1.0'	Soluble	Solid	DI Leach	
880-14444-8 MSD	BG-1 1.0'	Soluble	Solid	DI Leach	

Analysis Batch: 25285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14444-8	BG-1 1.0'	Soluble	Solid	300.0	24904

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff

Job ID: 880-14444-1
SDG: 19-0180-07

HPLC/IC (Continued)

Analysis Batch: 25285 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14444-9	BG-1 3.0'	Soluble	Solid	300.0	24904
880-14444-10	BG-1 5.0'	Soluble	Solid	300.0	24904
880-14444-11	BG-1 10.0'	Soluble	Solid	300.0	24904
880-14444-12	BG-2 1.0'	Soluble	Solid	300.0	24904
MB 880-24904/1-A	Method Blank	Soluble	Solid	300.0	24904
LCS 880-24904/2-A	Lab Control Sample	Soluble	Solid	300.0	24904
LCSD 880-24904/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24904
880-14444-8 MS	BG-1 1.0'	Soluble	Solid	300.0	24904
880-14444-8 MSD	BG-1 1.0'	Soluble	Solid	300.0	24904

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff

Job ID: 880-14444-1
SDG: 19-0180-07

Client Sample ID: BG-1 1.0'

Lab Sample ID: 880-14444-8
Matrix: Solid
Date Collected: 05/04/22 13:35
Date Received: 05/05/22 09:12

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	25281	05/10/22 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25496	05/13/22 18:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25566	05/14/22 15:19	MR	XEN MID
Total/NA	Analysis	8015 NM		1			25096	05/09/22 12:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	24992	05/06/22 14:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25017	05/08/22 06:05	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24904	05/05/22 13:27	SC	XEN MID
Soluble	Analysis	300.0		1			25285	05/11/22 00:09	CH	XEN MID

Client Sample ID: BG-1 3.0'

Lab Sample ID: 880-14444-9
Matrix: Solid
Date Collected: 05/04/22 13:36
Date Received: 05/05/22 09:12

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	25281	05/10/22 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25496	05/13/22 18:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25566	05/14/22 15:19	MR	XEN MID
Total/NA	Analysis	8015 NM		1			25096	05/09/22 12:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	24992	05/06/22 14:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25017	05/08/22 06:25	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	24904	05/05/22 13:27	SC	XEN MID
Soluble	Analysis	300.0		1			25285	05/11/22 00:34	CH	XEN MID

Client Sample ID: BG-1 5.0'

Lab Sample ID: 880-14444-10
Matrix: Solid
Date Collected: 05/04/22 13:37
Date Received: 05/05/22 09:12

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	25281	05/10/22 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25496	05/13/22 18:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25566	05/14/22 15:19	MR	XEN MID
Total/NA	Analysis	8015 NM		1			25096	05/09/22 12:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24993	05/06/22 14:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25019	05/07/22 13:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24904	05/05/22 13:27	SC	XEN MID
Soluble	Analysis	300.0		5			25285	05/11/22 00:42	CH	XEN MID

Client Sample ID: BG-1 10.0'

Lab Sample ID: 880-14444-11
Matrix: Solid
Date Collected: 05/04/22 13:38
Date Received: 05/05/22 09:12

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	25281	05/10/22 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25496	05/13/22 19:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25566	05/14/22 15:19	MR	XEN MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff

Job ID: 880-14444-1
SDG: 19-0180-07

Client Sample ID: BG-1 10.0'

Lab Sample ID: 880-14444-11
Matrix: Solid
Date Collected: 05/04/22 13:38
Date Received: 05/05/22 09:12

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			25096	05/09/22 12:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24993	05/06/22 14:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25019	05/07/22 14:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	24904	05/05/22 13:27	SC	XEN MID
Soluble	Analysis	300.0		1			25285	05/11/22 00:50	CH	XEN MID

Client Sample ID: BG-2 1.0'

Lab Sample ID: 880-14444-12
Matrix: Solid
Date Collected: 05/04/22 14:00
Date Received: 05/05/22 09:12

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	25281	05/10/22 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25496	05/13/22 19:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25566	05/14/22 15:19	MR	XEN MID
Total/NA	Analysis	8015 NM		1			25096	05/09/22 12:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24993	05/06/22 14:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25019	05/07/22 14:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24904	05/05/22 13:27	SC	XEN MID
Soluble	Analysis	300.0		1			25285	05/11/22 00:58	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-14444-1
Project/Site: Culebra Bluff SDG: 19-0180-07

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	T104704400-21-22	06-30-22

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: 880-14444-1
Project/Site: Culebra Bluff SDG: 19-0180-07

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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:

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

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff

Job ID: 880-14444-1
SDG: 19-0180-07

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-14444-8	BG-1 1.0'	Solid	05/04/22 13:35	05/05/22 09:12
880-14444-9	BG-1 3.0'	Solid	05/04/22 13:36	05/05/22 09:12
880-14444-10	BG-1 5.0'	Solid	05/04/22 13:37	05/05/22 09:12
880-14444-11	BG-1 10.0'	Solid	05/04/22 13:38	05/05/22 09:12
880-14444-12	BG-2 1.0'	Solid	05/04/22 14:00	05/05/22 09:12

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No. 2235

14444 CHAIN-OF-CUSTODY

5/16/2022

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

Data Reported to

DATE 5-5-22 PAGE 1 OF 1

PO# LAB WORK ORDER#

PROJECT LOCATION OR NAME Culebra Bluff

LAI PROJECT # 19-0180-07 COLLECTOR TP+JR

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State MST/NM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 / NaOH	ICE	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 PEST	TCLP HERB	TCLP VOC	TOTAL METALS (RCRA)	Semi-VOC	LEAD - TOTAL	OTHER LIST	DW 200.8	RCI	TCLP	TOX	TDS	FLASHPOINT	TSS	pH	% MOISTURE	HEXAVALENT CHROMIUM	CYANIDE	EXPLOSIVES	PECHLORATE	CHLORIDE & ANIONS	ALKALINITY	FIELD NOTES
PB-4 0-5'		5/4/22	0955	S	1				X		X		X	X	X																																
PB-6 0-5'			0936																																												
PB-8 0-5'			0930																																												
PB-9 0-5'			0922																																												
PB-11 0-5'			0914																																												
PB-13 0-5'			0910																																												
PB-5 0-5'			0945																																												
BG-1 1.0'			1335																																												
BG-1 3.0'			1336																																												
BG-1 5.0'			1337																																												
BG-1 10.0'			1338																																												
BG-2 1.0'			1400																																												

880-14444 Chain of Custody

TOTAL 12

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
[signature]	5/5/22 9:12	[signature]
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 4.2 THERM# ID#8 :2
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL #
☑ HAND DELIVERED

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Received by OCD: 5/8/2024 10:38:54 AM

Released to Imaging: 6/25/2024 3:25:17 PM

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-14444-1
SDG Number: 19-0180-07

Login Number: 14444
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: Mr. Mark J Larson
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland Texas 79701

Generated 11/21/2022 11:53:03 AM

JOB DESCRIPTION

Culebra Bluff SE 5 32
SDG NUMBER 19-0180-07

JOB NUMBER

880-21718-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Released to Imaging: 6/25/2024 3:25:17 PM

my EOL

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Laboratory Job ID: 880-21718-1
SDG: 19-0180-07

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Eurofins Midland
11/21/2022

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-21718-1
Project/Site: Culebra Bluff SE 5 32 SDG: 19-0180-07

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Job ID: 880-21718-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-21718-1

Receipt
The samples were received on 11/17/2022 10:33 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 was -4.1º C.

Receipt Exceptions
The following samples were received and analyzed from a bulk soil jar: BG-3, 1' (880-21718-1), BG-3, 3' (880-21718-2), BG-3, 5' (880-21718-3), BG-3, 10' (880-21718-4), BG-4, 1' (880-21718-5), BG-4, 3' (880-21718-6), BG-4, 5' (880-21718-7), BG-4, 10' (880-21718-8), BG-6, 1' (880-21718-9), BG-6, 3' (880-21718-10), BG-6, 5' (880-21718-11), BG-6, 10' (880-21718-12), BG-5, 1' (880-21718-13), BG-5, 3' (880-21718-14), BG-5, 5' (880-21718-15), BG-5, 10' (880-21718-16), BG-9, 1' (880-21718-17), BG-9, 3' (880-21718-18), BG-9, 5' (880-21718-19), BG-9, 10' (880-21718-20), BG-7, 1' (880-21718-21), BG-7, 3' (880-21718-22), BG-7, 5' (880-21718-23), BG-7, 10' (880-21718-24), BG-8, 1' (880-21718-25), BG-8, 3' (880-21718-26), BG-8, 5' (880-21718-27), BG-8, 10' (880-21718-28), BG-10, 1' (880-21718-29), BG-10, 3' (880-21718-30), BG-10, 5' (880-21718-31), BG-10, 10' (880-21718-32), BG-11, 1' (880-21718-33), BG-11, 3' (880-21718-34), BG-11, 5' (880-21718-35) and BG-11, 10' (880-21718-36).

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-39813 and analytical batch 880-39786 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BG-7, 1' (880-21718-21). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Benzene biased low in LCSD. Since only an acceptable LCS is required per the method, the data has been qualified and reported.
(LCSD 880-39813/2-A)

Method 8021B: CCV biased high for benzene, however an acceptable CCV was analyzed within the 12 hour window, therefore the data was qualified and reported.
(CCV 880-39772/20)

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

GC Semi VOA
Method 8015B NM: Surrogate recovery for the following samples were outside control limits: BG-7, 10' (880-21718-24). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: BG-11, 10' (880-21718-36). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

General Chemistry
Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-39796 and analytical batch 880-39854 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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

VOA Prep

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Job ID: 880-21718-1 (Continued)

Laboratory: Eurofins Midland (Continued)

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

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-3, 1'

Date Collected: 11/14/22 12:00
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/17/22 12:37	11/17/22 21:44	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/17/22 12:37	11/17/22 21:44	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/17/22 12:37	11/17/22 21:44	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		11/17/22 12:37	11/17/22 21:44	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/17/22 12:37	11/17/22 21:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/17/22 12:37	11/17/22 21:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*11/17/22 12:37*	*11/17/22 21:44*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*11/17/22 12:37*	*11/17/22 21:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/18/22 11:59	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			11/21/22 10:24	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		11/17/22 12:54	11/18/22 11:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/17/22 12:54	11/18/22 11:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 12:54	11/18/22 11:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*107*		*70 - 130*	*11/17/22 12:54*	*11/18/22 11:07*	*1*
o-Terphenyl (Surr)	*101*		*70 - 130*	*11/17/22 12:54*	*11/18/22 11:07*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**964**		24.9		mg/Kg			11/18/22 00:47	5

Client Sample ID: BG-3, 3'

Date Collected: 11/14/22 12:15
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-2

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		11/17/22 12:37	11/17/22 22:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:37	11/17/22 22:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:37	11/17/22 22:05	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/17/22 12:37	11/17/22 22:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:37	11/17/22 22:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 12:37	11/17/22 22:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*11/17/22 12:37*	*11/17/22 22:05*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*11/17/22 12:37*	*11/17/22 22:05*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-3, 3'

Date Collected: 11/14/22 12:15
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-2
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			11/18/22 11:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/21/22 10:24	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	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 12:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 12:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 12:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*126*		*70 - 130*	*11/17/22 12:54*	*11/18/22 12:12*	*1*
o-Terphenyl (Surr)	*113*		*70 - 130*	*11/17/22 12:54*	*11/18/22 12:12*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**276**		4.96		mg/Kg			11/18/22 01:04	1

Client Sample ID: BG-3, 5'

Date Collected: 11/14/22 12:30
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-3
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		11/17/22 12:37	11/17/22 22:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:37	11/17/22 22:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:37	11/17/22 22:25	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/17/22 12:37	11/17/22 22:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:37	11/17/22 22:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 12:37	11/17/22 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*11/17/22 12:37*	*11/17/22 22:25*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*11/17/22 12:37*	*11/17/22 22:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/18/22 11:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/21/22 10:24	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	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 12:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 12:35	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-3, 5'

Lab Sample ID: 880-21718-3
Matrix: Solid
Date Collected: 11/14/22 12:30
Date Received: 11/17/22 10:33

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*11/17/22 12:54*	*11/18/22 12:35*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*11/17/22 12:54*	*11/18/22 12:35*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**511**		5.00		mg/Kg			11/18/22 01:10	1

Client Sample ID: BG-3, 10'

Lab Sample ID: 880-21718-4
Matrix: Solid
Date Collected: 11/14/22 12:45
Date Received: 11/17/22 10:33

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/17/22 12:37	11/17/22 22:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 12:37	11/17/22 22:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 12:37	11/17/22 22:46	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		11/17/22 12:37	11/17/22 22:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 12:37	11/17/22 22:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/17/22 12:37	11/17/22 22:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*11/17/22 12:37*	*11/17/22 22:46*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*11/17/22 12:37*	*11/17/22 22:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/18/22 11:59	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			11/21/22 10:24	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		11/17/22 12:54	11/18/22 12:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/17/22 12:54	11/18/22 12:56	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 12:54	11/18/22 12:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*118*		*70 - 130*	*11/17/22 12:54*	*11/18/22 12:56*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*11/17/22 12:54*	*11/18/22 12:56*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1160**		25.2		mg/Kg			11/18/22 01:16	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-4, 1'

Date Collected: 11/14/22 13:00
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-5

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/17/22 12:37	11/17/22 23:06	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/17/22 12:37	11/17/22 23:06	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/17/22 12:37	11/17/22 23:06	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		11/17/22 12:37	11/17/22 23:06	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/17/22 12:37	11/17/22 23:06	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/17/22 12:37	11/17/22 23:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*11/17/22 12:37*	*11/17/22 23:06*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*11/17/22 12:37*	*11/17/22 23:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/18/22 11:59	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			11/21/22 10:24	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		11/17/22 12:54	11/18/22 13:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/17/22 12:54	11/18/22 13:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 12:54	11/18/22 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*113*		*70 - 130*	*11/17/22 12:54*	*11/18/22 13:18*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*11/17/22 12:54*	*11/18/22 13:18*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1370**		25.3		mg/Kg			11/18/22 01:21	5

Client Sample ID: BG-4, 3'

Date Collected: 11/14/22 13:15
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-6

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/17/22 12:37	11/17/22 23:27	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/17/22 12:37	11/17/22 23:27	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/17/22 12:37	11/17/22 23:27	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		11/17/22 12:37	11/17/22 23:27	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/17/22 12:37	11/17/22 23:27	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/17/22 12:37	11/17/22 23:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*11/17/22 12:37*	*11/17/22 23:27*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*11/17/22 12:37*	*11/17/22 23:27*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-4, 3'

Date Collected: 11/14/22 13:15
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-6
Matrix: Solid

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			11/18/22 11:59	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			11/21/22 10:24	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		11/17/22 12:54	11/18/22 13:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/17/22 12:54	11/18/22 13:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 12:54	11/18/22 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*127*		*70 - 130*	*11/17/22 12:54*	*11/18/22 13:39*	*1*
o-Terphenyl (Surr)	*124*		*70 - 130*	*11/17/22 12:54*	*11/18/22 13:39*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**379**		5.02		mg/Kg			11/18/22 01:38	1

Client Sample ID: BG-4, 5'

Date Collected: 11/14/22 13:30
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-7
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		11/17/22 12:37	11/17/22 23:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:37	11/17/22 23:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:37	11/17/22 23:47	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/17/22 12:37	11/17/22 23:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:37	11/17/22 23:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 12:37	11/17/22 23:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*11/17/22 12:37*	*11/17/22 23:47*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*11/17/22 12:37*	*11/17/22 23:47*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/18/22 11:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/21/22 10:24	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	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 14:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 14:02	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-4, 5'

Lab Sample ID: 880-21718-7
Matrix: Solid
Date Collected: 11/14/22 13:30
Date Received: 11/17/22 10:33

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*126*		*70 - 130*	*11/17/22 12:54*	*11/18/22 14:02*	*1*
o-Terphenyl (Surr)	*117*		*70 - 130*	*11/17/22 12:54*	*11/18/22 14:02*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**669**		4.98		mg/Kg			11/18/22 01:44	1

Client Sample ID: BG-4, 10'

Lab Sample ID: 880-21718-8
Matrix: Solid
Date Collected: 11/14/22 13:45
Date Received: 11/17/22 10:33

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/17/22 12:37	11/18/22 00:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 12:37	11/18/22 00:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 12:37	11/18/22 00:07	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		11/17/22 12:37	11/18/22 00:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 12:37	11/18/22 00:07	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/17/22 12:37	11/18/22 00:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*11/17/22 12:37*	*11/18/22 00:07*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*11/17/22 12:37*	*11/18/22 00:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/18/22 11:59	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			11/21/22 10:24	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		11/17/22 12:54	11/18/22 14:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/17/22 12:54	11/18/22 14:24	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 12:54	11/18/22 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*120*		*70 - 130*	*11/17/22 12:54*	*11/18/22 14:24*	*1*
o-Terphenyl (Surr)	*113*		*70 - 130*	*11/17/22 12:54*	*11/18/22 14:24*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**441**		4.97		mg/Kg			11/18/22 01:50	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-6, 1'

Date Collected: 11/14/22 14:00
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-9

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		11/17/22 12:37	11/18/22 00:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 12:37	11/18/22 00:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 12:37	11/18/22 00:28	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		11/17/22 12:37	11/18/22 00:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 12:37	11/18/22 00:28	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/17/22 12:37	11/18/22 00:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*11/17/22 12:37*	*11/18/22 00:28*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*11/17/22 12:37*	*11/18/22 00:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/18/22 11:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/21/22 10:24	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	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 14:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 14:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*121*		*70 - 130*	*11/17/22 12:54*	*11/18/22 14:46*	*1*
o-Terphenyl (Surr)	*113*		*70 - 130*	*11/17/22 12:54*	*11/18/22 14:46*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**226**		5.01		mg/Kg			11/18/22 01:55	1

Client Sample ID: BG-6, 3'

Date Collected: 11/14/22 14:15
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-10

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/17/22 12:37	11/18/22 00:48	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/17/22 12:37	11/18/22 00:48	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/17/22 12:37	11/18/22 00:48	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		11/17/22 12:37	11/18/22 00:48	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/17/22 12:37	11/18/22 00:48	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/17/22 12:37	11/18/22 00:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*11/17/22 12:37*	*11/18/22 00:48*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*11/17/22 12:37*	*11/18/22 00:48*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-6, 3'

Date Collected: 11/14/22 14:15
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-10
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/18/22 11:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/21/22 10:24	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	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 15:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 15:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*11/17/22 12:54*	*11/18/22 15:07*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*11/17/22 12:54*	*11/18/22 15:07*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**581**		4.98		mg/Kg			11/18/22 02:01	1

Client Sample ID: BG-6, 5'

Date Collected: 11/14/22 14:30
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-11
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/17/22 12:37	11/18/22 02:10	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/17/22 12:37	11/18/22 02:10	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/17/22 12:37	11/18/22 02:10	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		11/17/22 12:37	11/18/22 02:10	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/17/22 12:37	11/18/22 02:10	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/17/22 12:37	11/18/22 02:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*11/17/22 12:37*	*11/18/22 02:10*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*11/17/22 12:37*	*11/18/22 02:10*	*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			11/18/22 11:59	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			11/21/22 10:24	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		11/17/22 12:54	11/18/22 15:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/17/22 12:54	11/18/22 15:51	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-6, 5'

Lab Sample ID: 880-21718-11
Matrix: Solid
Date Collected: 11/14/22 14:30
Date Received: 11/17/22 10:33

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 12:54	11/18/22 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*111*		*70 - 130*	*11/17/22 12:54*	*11/18/22 15:51*	*1*
o-Terphenyl (Surr)	*105*		*70 - 130*	*11/17/22 12:54*	*11/18/22 15:51*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**684**		5.03		mg/Kg			11/18/22 02:07	1

Client Sample ID: BG-6, 10'

Lab Sample ID: 880-21718-12
Matrix: Solid
Date Collected: 11/14/22 14:45
Date Received: 11/17/22 10:33

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:37	11/18/22 02:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:37	11/18/22 02:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:37	11/18/22 02:31	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/17/22 12:37	11/18/22 02:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:37	11/18/22 02:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 12:37	11/18/22 02:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*11/17/22 12:37*	*11/18/22 02:31*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*11/17/22 12:37*	*11/18/22 02:31*	*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			11/18/22 11:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/21/22 10:24	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	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 16:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 16:13	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*130*		*70 - 130*	*11/17/22 12:54*	*11/18/22 16:13*	*1*
o-Terphenyl (Surr)	*123*		*70 - 130*	*11/17/22 12:54*	*11/18/22 16:13*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**631**		5.02		mg/Kg			11/18/22 02:24	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-5, 1'

Date Collected: 11/15/22 09:30
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-13
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		11/17/22 12:37	11/18/22 02:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 12:37	11/18/22 02:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 12:37	11/18/22 02:51	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		11/17/22 12:37	11/18/22 02:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 12:37	11/18/22 02:51	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/17/22 12:37	11/18/22 02:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*11/17/22 12:37*	*11/18/22 02:51*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*11/17/22 12:37*	*11/18/22 02:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/18/22 11:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/21/22 10:24	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	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 16:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 16:35	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*11/17/22 12:54*	*11/18/22 16:35*	*1*
o-Terphenyl (Surr)	*101*		*70 - 130*	*11/17/22 12:54*	*11/18/22 16:35*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**280**		5.04		mg/Kg			11/18/22 02:29	1

Client Sample ID: BG-5, 3'

Date Collected: 11/15/22 09:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-14
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		11/17/22 12:37	11/18/22 03:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:37	11/18/22 03:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:37	11/18/22 03:12	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/17/22 12:37	11/18/22 03:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:37	11/18/22 03:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 12:37	11/18/22 03:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*11/17/22 12:37*	*11/18/22 03:12*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*11/17/22 12:37*	*11/18/22 03:12*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-5, 3'

Date Collected: 11/15/22 09:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-14
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			11/18/22 11:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/21/22 10:24	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	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 16:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 16:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*126*		*70 - 130*	*11/17/22 12:54*	*11/18/22 16:57*	*1*
o-Terphenyl (Surr)	*120*		*70 - 130*	*11/17/22 12:54*	*11/18/22 16:57*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**190**		4.97		mg/Kg			11/18/22 02:46	1

Client Sample ID: BG-5, 5'

Date Collected: 11/15/22 10:00
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-15
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		11/17/22 12:37	11/18/22 03:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:37	11/18/22 03:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:37	11/18/22 03:32	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/17/22 12:37	11/18/22 03:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:37	11/18/22 03:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 12:37	11/18/22 03:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*11/17/22 12:37*	*11/18/22 03:32*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*11/17/22 12:37*	*11/18/22 03:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/18/22 11:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/21/22 10:24	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	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 17:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 17:18	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-5, 5'

Lab Sample ID: 880-21718-15
Matrix: Solid
Date Collected: 11/15/22 10:00
Date Received: 11/17/22 10:33

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*11/17/22 12:54*	*11/18/22 17:18*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*11/17/22 12:54*	*11/18/22 17:18*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**248**		5.05		mg/Kg			11/18/22 02:52	1

Client Sample ID: BG-5, 10'

Lab Sample ID: 880-21718-16
Matrix: Solid
Date Collected: 11/15/22 10:15
Date Received: 11/17/22 10:33

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:37	11/18/22 03:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:37	11/18/22 03:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:37	11/18/22 03:53	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/17/22 12:37	11/18/22 03:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:37	11/18/22 03:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 12:37	11/18/22 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*11/17/22 12:37*	*11/18/22 03:53*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*11/17/22 12:37*	*11/18/22 03:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/18/22 11:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/21/22 10:24	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	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 17:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 17:41	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*11/17/22 12:54*	*11/18/22 17:41*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*11/17/22 12:54*	*11/18/22 17:41*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**423**		5.04		mg/Kg			11/18/22 02:58	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-9, 1'

Date Collected: 11/15/22 10:30
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-17
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		11/17/22 12:37	11/18/22 04:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 12:37	11/18/22 04:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 12:37	11/18/22 04:13	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		11/17/22 12:37	11/18/22 04:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 12:37	11/18/22 04:13	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/17/22 12:37	11/18/22 04:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*11/17/22 12:37*	*11/18/22 04:13*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*11/17/22 12:37*	*11/18/22 04:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/18/22 11:59	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			11/21/22 10:24	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		11/17/22 12:54	11/18/22 18:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/17/22 12:54	11/18/22 18:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 12:54	11/18/22 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*116*		*70 - 130*	*11/17/22 12:54*	*11/18/22 18:02*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*11/17/22 12:54*	*11/18/22 18:02*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**499**		4.99		mg/Kg			11/18/22 03:03	1

Client Sample ID: BG-9, 3'

Date Collected: 11/15/22 10:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-18
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/17/22 12:37	11/18/22 04:33	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/17/22 12:37	11/18/22 04:33	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/17/22 12:37	11/18/22 04:33	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		11/17/22 12:37	11/18/22 04:33	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/17/22 12:37	11/18/22 04:33	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/17/22 12:37	11/18/22 04:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*11/17/22 12:37*	*11/18/22 04:33*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*11/17/22 12:37*	*11/18/22 04:33*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-9, 3'

Date Collected: 11/15/22 10:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-18
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/18/22 11:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/21/22 10:24	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	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 18:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 18:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*105*		*70 - 130*	*11/17/22 12:54*	*11/18/22 18:23*	*1*
o-Terphenyl (Surr)	*100*		*70 - 130*	*11/17/22 12:54*	*11/18/22 18:23*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**464**		5.00		mg/Kg			11/18/22 03:09	1

Client Sample ID: BG-9, 5'

Date Collected: 11/15/22 11:00
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-19
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/17/22 12:37	11/18/22 04:54	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/17/22 12:37	11/18/22 04:54	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/17/22 12:37	11/18/22 04:54	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		11/17/22 12:37	11/18/22 04:54	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/17/22 12:37	11/18/22 04:54	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/17/22 12:37	11/18/22 04:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*11/17/22 12:37*	*11/18/22 04:54*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*11/17/22 12:37*	*11/18/22 04:54*	*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			11/18/22 11:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/21/22 10:24	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	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 18:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 18:45	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-9, 5'

Lab Sample ID: 880-21718-19
Matrix: Solid
Date Collected: 11/15/22 11:00
Date Received: 11/17/22 10:33

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*11/17/22 12:54*	*11/18/22 18:45*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*11/17/22 12:54*	*11/18/22 18:45*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**167**		4.97		mg/Kg			11/18/22 03:14	1

Client Sample ID: BG-9, 10'

Lab Sample ID: 880-21718-20
Matrix: Solid
Date Collected: 11/15/22 11:15
Date Received: 11/17/22 10:33

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/17/22 12:37	11/18/22 05:14	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/17/22 12:37	11/18/22 05:14	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/17/22 12:37	11/18/22 05:14	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		11/17/22 12:37	11/18/22 05:14	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/17/22 12:37	11/18/22 05:14	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/17/22 12:37	11/18/22 05:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*11/17/22 12:37*	*11/18/22 05:14*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*11/17/22 12:37*	*11/18/22 05:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/18/22 11:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/21/22 10:24	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	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 19:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 19:07	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/17/22 12:54	11/18/22 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*117*		*70 - 130*	*11/17/22 12:54*	*11/18/22 19:07*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*11/17/22 12:54*	*11/18/22 19:07*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**671**		4.96		mg/Kg			11/18/22 03:20	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-7, 1'

Date Collected: 11/15/22 11:30
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-21
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *- F1	0.00201		mg/Kg		11/17/22 12:44	11/18/22 02:51	1
Toluene	<0.00201	U F1	0.00201		mg/Kg		11/17/22 12:44	11/18/22 02:51	1
Ethylbenzene	<0.00201	U F1	0.00201		mg/Kg		11/17/22 12:44	11/18/22 02:51	1
m,p-Xylenes	<0.00402	U F1	0.00402		mg/Kg		11/17/22 12:44	11/18/22 02:51	1
o-Xylene	<0.00201	U F1	0.00201		mg/Kg		11/17/22 12:44	11/18/22 02:51	1
Xylenes, Total	<0.00402	U F1	0.00402		mg/Kg		11/17/22 12:44	11/18/22 02:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*60*	*S1-*	*70 - 130*	*11/17/22 12:44*	*11/18/22 02:51*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*11/17/22 12:44*	*11/18/22 02:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/18/22 11:31	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**250**		50.0		mg/Kg			11/18/22 10:34	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	<50.0	U	50.0		mg/Kg		11/17/22 13:58	11/17/22 21:13	1
Diesel Range Organics (Over C10-C28)	**250**		50.0		mg/Kg		11/17/22 13:58	11/17/22 21:13	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 13:58	11/17/22 21:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*11/17/22 13:58*	*11/17/22 21:13*	*1*
o-Terphenyl (Surr)	*117*		*70 - 130*	*11/17/22 13:58*	*11/17/22 21:13*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**866**		4.95		mg/Kg			11/18/22 08:50	1

Client Sample ID: BG-7, 3'

Date Collected: 11/15/22 11:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-22
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		11/17/22 12:44	11/18/22 03:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 12:44	11/18/22 03:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 12:44	11/18/22 03:11	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		11/17/22 12:44	11/18/22 03:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 12:44	11/18/22 03:11	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/17/22 12:44	11/18/22 03:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*11/17/22 12:44*	*11/18/22 03:11*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*11/17/22 12:44*	*11/18/22 03:11*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-7, 3'

Date Collected: 11/15/22 11:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-22
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/18/22 11:31	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/18/22 10:34	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	<49.9	U	49.9		mg/Kg		11/17/22 13:58	11/17/22 22:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/17/22 13:58	11/17/22 22:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/17/22 13:58	11/17/22 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*108*		*70 - 130*	*11/17/22 13:58*	*11/17/22 22:18*	*1*
o-Terphenyl (Surr)	*115*		*70 - 130*	*11/17/22 13:58*	*11/17/22 22:18*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**431**		4.99		mg/Kg			11/18/22 08:57	1

Client Sample ID: BG-7, 5'

Date Collected: 11/15/22 12:00
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-23
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		11/17/22 12:44	11/18/22 03:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:44	11/18/22 03:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:44	11/18/22 03:31	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/17/22 12:44	11/18/22 03:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:44	11/18/22 03:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 12:44	11/18/22 03:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*11/17/22 12:44*	*11/18/22 03:31*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*11/17/22 12:44*	*11/18/22 03:31*	*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			11/18/22 11:31	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/18/22 10:34	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	<49.9	U	49.9		mg/Kg		11/17/22 13:58	11/17/22 22:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/17/22 13:58	11/17/22 22:40	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-7, 5'

Lab Sample ID: 880-21718-23
Matrix: Solid
Date Collected: 11/15/22 12:00
Date Received: 11/17/22 10:33

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/17/22 13:58	11/17/22 22:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*118*		*70 - 130*	*11/17/22 13:58*	*11/17/22 22:40*	*1*
o-Terphenyl (Surr)	*126*		*70 - 130*	*11/17/22 13:58*	*11/17/22 22:40*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**485**		24.9		mg/Kg			11/18/22 09:18	5

Client Sample ID: BG-7, 10'

Lab Sample ID: 880-21718-24
Matrix: Solid
Date Collected: 11/15/22 12:15
Date Received: 11/17/22 10:33

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200		mg/Kg		11/17/22 12:44	11/18/22 03:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 12:44	11/18/22 03:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 12:44	11/18/22 03:52	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		11/17/22 12:44	11/18/22 03:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 12:44	11/18/22 03:52	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/17/22 12:44	11/18/22 03:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*11/17/22 12:44*	*11/18/22 03:52*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*11/17/22 12:44*	*11/18/22 03:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/18/22 11:31	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			11/18/22 10:34	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	<50.0	U	50.0		mg/Kg		11/17/22 13:58	11/17/22 23:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/17/22 13:58	11/17/22 23:02	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 13:58	11/17/22 23:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*132*	*S1+*	*70 - 130*	*11/17/22 13:58*	*11/17/22 23:02*	*1*
o-Terphenyl (Surr)	*141*	*S1+*	*70 - 130*	*11/17/22 13:58*	*11/17/22 23:02*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**809**		5.00		mg/Kg			11/18/22 09:26	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-8, 1'

Date Collected: 11/15/22 12:30
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-25
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *-	0.00201		mg/Kg		11/17/22 12:44	11/18/22 04:12	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/17/22 12:44	11/18/22 04:12	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/17/22 12:44	11/18/22 04:12	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		11/17/22 12:44	11/18/22 04:12	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/17/22 12:44	11/18/22 04:12	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/17/22 12:44	11/18/22 04:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*11/17/22 12:44*	*11/18/22 04:12*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*11/17/22 12:44*	*11/18/22 04:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/18/22 11:31	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			11/18/22 10:34	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	<50.0	U	50.0		mg/Kg		11/17/22 13:58	11/17/22 23:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/17/22 13:58	11/17/22 23:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 13:58	11/17/22 23:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*117*		*70 - 130*	*11/17/22 13:58*	*11/17/22 23:24*	*1*
o-Terphenyl (Surr)	*125*		*70 - 130*	*11/17/22 13:58*	*11/17/22 23:24*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**197**		4.99		mg/Kg			11/18/22 09:33	1

Client Sample ID: BG-8, 3'

Date Collected: 11/15/22 12:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-26
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		11/17/22 12:44	11/18/22 04:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:44	11/18/22 04:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:44	11/18/22 04:33	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/17/22 12:44	11/18/22 04:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:44	11/18/22 04:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 12:44	11/18/22 04:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*74*		*70 - 130*	*11/17/22 12:44*	*11/18/22 04:33*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*11/17/22 12:44*	*11/18/22 04:33*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-8, 3'

Date Collected: 11/15/22 12:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-26
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			11/18/22 11:31	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			11/18/22 10:34	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	<50.0	U	50.0		mg/Kg		11/17/22 13:58	11/17/22 23:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/17/22 13:58	11/17/22 23:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 13:58	11/17/22 23:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*121*		*70 - 130*	*11/17/22 13:58*	*11/17/22 23:45*	*1*
o-Terphenyl (Surr)	*129*		*70 - 130*	*11/17/22 13:58*	*11/17/22 23:45*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**208**		4.98		mg/Kg			11/18/22 09:40	1

Client Sample ID: BG-8, 5'

Date Collected: 11/15/22 13:00
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-27
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		11/17/22 12:44	11/18/22 04:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:44	11/18/22 04:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:44	11/18/22 04:53	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/17/22 12:44	11/18/22 04:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:44	11/18/22 04:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 12:44	11/18/22 04:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*11/17/22 12:44*	*11/18/22 04:53*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*11/17/22 12:44*	*11/18/22 04:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/18/22 11:31	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/18/22 10:34	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	<49.9	U	49.9		mg/Kg		11/17/22 13:58	11/18/22 00:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/17/22 13:58	11/18/22 00:07	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-8, 5'

Lab Sample ID: 880-21718-27
Matrix: Solid
Date Collected: 11/15/22 13:00
Date Received: 11/17/22 10:33

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/17/22 13:58	11/18/22 00:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*11/17/22 13:58*	*11/18/22 00:07*	*1*
o-Terphenyl (Surr)	*100*		*70 - 130*	*11/17/22 13:58*	*11/18/22 00:07*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**166**		4.95		mg/Kg			11/18/22 09:47	1

Client Sample ID: BG-8, 10'

Lab Sample ID: 880-21718-28
Matrix: Solid
Date Collected: 11/15/22 13:15
Date Received: 11/17/22 10:33

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *-	0.00201		mg/Kg		11/17/22 12:44	11/18/22 05:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/17/22 12:44	11/18/22 05:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/17/22 12:44	11/18/22 05:13	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		11/17/22 12:44	11/18/22 05:13	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/17/22 12:44	11/18/22 05:13	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/17/22 12:44	11/18/22 05:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*11/17/22 12:44*	*11/18/22 05:13*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*11/17/22 12:44*	*11/18/22 05:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/18/22 11:31	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			11/18/22 10:34	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	<50.0	U	50.0		mg/Kg		11/17/22 13:58	11/18/22 00:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/17/22 13:58	11/18/22 00:29	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 13:58	11/18/22 00:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*11/17/22 13:58*	*11/18/22 00:29*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*11/17/22 13:58*	*11/18/22 00:29*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1050**		5.05		mg/Kg			11/18/22 09:54	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-10, 1'

Date Collected: 11/15/22 13:30
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-29
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *-	0.00202		mg/Kg		11/17/22 12:44	11/18/22 05:34	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/17/22 12:44	11/18/22 05:34	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/17/22 12:44	11/18/22 05:34	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		11/17/22 12:44	11/18/22 05:34	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/17/22 12:44	11/18/22 05:34	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/17/22 12:44	11/18/22 05:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*73*		*70 - 130*	*11/17/22 12:44*	*11/18/22 05:34*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*11/17/22 12:44*	*11/18/22 05:34*	*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			11/18/22 11:31	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/18/22 10:34	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	<49.9	U	49.9		mg/Kg		11/17/22 13:58	11/18/22 00:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/17/22 13:58	11/18/22 00:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/17/22 13:58	11/18/22 00:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*11/17/22 13:58*	*11/18/22 00:51*	*1*
o-Terphenyl (Surr)	*110*		*70 - 130*	*11/17/22 13:58*	*11/18/22 00:51*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**28.1**		4.98		mg/Kg			11/18/22 10:15	1

Client Sample ID: BG-10, 3'

Date Collected: 11/15/22 13:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-30
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		11/17/22 12:44	11/18/22 05:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:44	11/18/22 05:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:44	11/18/22 05:54	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/17/22 12:44	11/18/22 05:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:44	11/18/22 05:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 12:44	11/18/22 05:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*11/17/22 12:44*	*11/18/22 05:54*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*11/17/22 12:44*	*11/18/22 05:54*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-10, 3'

Date Collected: 11/15/22 13:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-30
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			11/18/22 11:31	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/18/22 10:34	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	<49.9	U	49.9		mg/Kg		11/17/22 13:58	11/18/22 01:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/17/22 13:58	11/18/22 01:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/17/22 13:58	11/18/22 01:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*11/17/22 13:58*	*11/18/22 01:13*	*1*
o-Terphenyl (Surr)	*101*		*70 - 130*	*11/17/22 13:58*	*11/18/22 01:13*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**21.2**		5.00		mg/Kg			11/18/22 10:23	1

Client Sample ID: BG-10, 5'

Date Collected: 11/15/22 14:00
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-31
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		11/17/22 12:44	11/18/22 07:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:44	11/18/22 07:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:44	11/18/22 07:44	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/17/22 12:44	11/18/22 07:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:44	11/18/22 07:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 12:44	11/18/22 07:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*11/17/22 12:44*	*11/18/22 07:44*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*11/17/22 12:44*	*11/18/22 07:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/18/22 11:31	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			11/18/22 10:34	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	<50.0	U	50.0		mg/Kg		11/17/22 13:58	11/18/22 01:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/17/22 13:58	11/18/22 01:57	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-10, 5'

Lab Sample ID: 880-21718-31
Matrix: Solid
Date Collected: 11/15/22 14:00
Date Received: 11/17/22 10:33

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 13:58	11/18/22 01:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*11/17/22 13:58*	*11/18/22 01:57*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*11/17/22 13:58*	*11/18/22 01:57*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**44.1**		4.95		mg/Kg			11/18/22 10:44	1

Client Sample ID: BG-10, 10'

Lab Sample ID: 880-21718-32
Matrix: Solid
Date Collected: 11/15/22 14:15
Date Received: 11/17/22 10:33

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200		mg/Kg		11/17/22 12:44	11/18/22 08:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 12:44	11/18/22 08:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 12:44	11/18/22 08:05	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		11/17/22 12:44	11/18/22 08:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 12:44	11/18/22 08:05	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/17/22 12:44	11/18/22 08:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*11/17/22 12:44*	*11/18/22 08:05*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*11/17/22 12:44*	*11/18/22 08:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/18/22 11:31	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			11/18/22 10:34	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	<50.0	U	50.0		mg/Kg		11/17/22 13:58	11/18/22 02:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/17/22 13:58	11/18/22 02:19	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 13:58	11/18/22 02:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*114*		*70 - 130*	*11/17/22 13:58*	*11/18/22 02:19*	*1*
o-Terphenyl (Surr)	*121*		*70 - 130*	*11/17/22 13:58*	*11/18/22 02:19*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**428**		5.01		mg/Kg			11/18/22 10:51	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-11, 1'

Date Collected: 11/15/22 14:30
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-33
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		11/17/22 12:44	11/18/22 08:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:44	11/18/22 08:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:44	11/18/22 08:54	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/17/22 12:44	11/18/22 08:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:44	11/18/22 08:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 12:44	11/18/22 08:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*11/17/22 12:44*	*11/18/22 08:54*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*11/17/22 12:44*	*11/18/22 08:54*	*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			11/18/22 11:31	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			11/18/22 10:34	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	<50.0	U	50.0		mg/Kg		11/17/22 13:58	11/18/22 02:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/17/22 13:58	11/18/22 02:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 13:58	11/18/22 02:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*11/17/22 13:58*	*11/18/22 02:40*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*11/17/22 13:58*	*11/18/22 02:40*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**89.4**		4.98		mg/Kg			11/18/22 10:58	1

Client Sample ID: BG-11, 3'

Date Collected: 11/15/22 14:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-34
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		11/17/22 12:44	11/18/22 09:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:44	11/18/22 09:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:44	11/18/22 09:15	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/17/22 12:44	11/18/22 09:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:44	11/18/22 09:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 12:44	11/18/22 09:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*11/17/22 12:44*	*11/18/22 09:15*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*11/17/22 12:44*	*11/18/22 09:15*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-11, 3'

Date Collected: 11/15/22 14:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-34
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			11/18/22 11:31	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/18/22 10:34	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	<49.9	U	49.9		mg/Kg		11/17/22 13:58	11/18/22 03:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/17/22 13:58	11/18/22 03:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/17/22 13:58	11/18/22 03:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*11/17/22 13:58*	*11/18/22 03:03*	*1*
o-Terphenyl (Surr)	*100*		*70 - 130*	*11/17/22 13:58*	*11/18/22 03:03*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**64.7**		5.00		mg/Kg			11/18/22 11:05	1

Client Sample ID: BG-11, 5'

Date Collected: 11/15/22 15:00
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-35
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *-	0.00201		mg/Kg		11/17/22 12:44	11/18/22 09:35	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/17/22 12:44	11/18/22 09:35	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/17/22 12:44	11/18/22 09:35	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		11/17/22 12:44	11/18/22 09:35	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/17/22 12:44	11/18/22 09:35	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/17/22 12:44	11/18/22 09:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*11/17/22 12:44*	*11/18/22 09:35*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*11/17/22 12:44*	*11/18/22 09:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/18/22 11:31	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/18/22 10:34	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	<49.9	U	49.9		mg/Kg		11/17/22 13:58	11/18/22 03:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/17/22 13:58	11/18/22 03:25	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-11, 5'

Lab Sample ID: 880-21718-35
Matrix: Solid
Date Collected: 11/15/22 15:00
Date Received: 11/17/22 10:33

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/17/22 13:58	11/18/22 03:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*121*		*70 - 130*	*11/17/22 13:58*	*11/18/22 03:25*	*1*
o-Terphenyl (Surr)	*129*		*70 - 130*	*11/17/22 13:58*	*11/18/22 03:25*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**152**		5.00		mg/Kg			11/18/22 11:12	1

Client Sample ID: BG-11, 10'

Lab Sample ID: 880-21718-36
Matrix: Solid
Date Collected: 11/15/22 15:15
Date Received: 11/17/22 10:33

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *-	0.00199		mg/Kg		11/17/22 12:44	11/18/22 09:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:44	11/18/22 09:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:44	11/18/22 09:56	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/17/22 12:44	11/18/22 09:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:44	11/18/22 09:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 12:44	11/18/22 09:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*74*		*70 - 130*	*11/17/22 12:44*	*11/18/22 09:56*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*11/17/22 12:44*	*11/18/22 09:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/18/22 11:31	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/18/22 10:34	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	<49.8	U	49.8		mg/Kg		11/17/22 13:58	11/18/22 03:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/17/22 13:58	11/18/22 03:46	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/17/22 13:58	11/18/22 03:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*122*		*70 - 130*	*11/17/22 13:58*	*11/18/22 03:46*	*1*
o-Terphenyl (Surr)	*135*	*S1+*	*70 - 130*	*11/17/22 13:58*	*11/18/22 03:46*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**570**		4.96		mg/Kg			11/18/22 11:19	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

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)
880-21718-1	BG-3, 1'	92	93
880-21718-1 MS	BG-3, 1'	101	119
880-21718-1 MSD	BG-3, 1'	95	116
880-21718-2	BG-3, 3'	101	94
880-21718-3	BG-3, 5'	94	97
880-21718-4	BG-3, 10'	90	100
880-21718-5	BG-4, 1'	82	84
880-21718-6	BG-4, 3'	96	103
880-21718-7	BG-4, 5'	95	99
880-21718-8	BG-4, 10'	97	98
880-21718-9	BG-6, 1'	95	97
880-21718-10	BG-6, 3'	87	85
880-21718-11	BG-6, 5'	94	87
880-21718-12	BG-6, 10'	97	92
880-21718-13	BG-5, 1'	86	78
880-21718-14	BG-5, 3'	90	86
880-21718-15	BG-5, 5'	88	89
880-21718-16	BG-5, 10'	99	100
880-21718-17	BG-9, 1'	95	97
880-21718-18	BG-9, 3'	95	82
880-21718-19	BG-9, 5'	95	100
880-21718-20	BG-9, 10'	90	92
880-21718-21	BG-7, 1'	60 S1-	107
880-21718-21 MS	BG-7, 1'	95	103
880-21718-21 MSD	BG-7, 1'	96	103
880-21718-22	BG-7, 3'	93	105
880-21718-23	BG-7, 5'	95	105
880-21718-24	BG-7, 10'	87	103
880-21718-25	BG-8, 1'	95	110
880-21718-26	BG-8, 3'	74	104
880-21718-27	BG-8, 5'	85	104
880-21718-28	BG-8, 10'	97	97
880-21718-29	BG-10, 1'	73	109
880-21718-30	BG-10, 3'	85	97
880-21718-31	BG-10, 5'	81	107
880-21718-32	BG-10, 10'	97	104
880-21718-33	BG-11, 1'	92	105
880-21718-34	BG-11, 3'	92	110
880-21718-35	BG-11, 5'	100	115
880-21718-36	BG-11, 10'	74	103
LCS 880-39811/1-A	Lab Control Sample	104	115
LCS 880-39813/1-A	Lab Control Sample	95	107
LCSD 880-39811/2-A	Lab Control Sample Dup	99	117
LCSD 880-39813/2-A	Lab Control Sample Dup	70	95
MB 880-39771/5-A	Method Blank	86	103
MB 880-39780/5-A	Method Blank	81	100
MB 880-39811/5-A	Method Blank	85	91
MB 880-39813/5-A	Method Blank	75	104

Surrogate Legend

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

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)
880-21718-1	BG-3, 1'	107	101
880-21718-1 MS	BG-3, 1'	109	96
880-21718-1 MSD	BG-3, 1'	104	91
880-21718-2	BG-3, 3'	126	113
880-21718-3	BG-3, 5'	109	103
880-21718-4	BG-3, 10'	118	111
880-21718-5	BG-4, 1'	113	103
880-21718-6	BG-4, 3'	127	124
880-21718-7	BG-4, 5'	126	117
880-21718-8	BG-4, 10'	120	113
880-21718-9	BG-6, 1'	121	113
880-21718-10	BG-6, 3'	101	95
880-21718-11	BG-6, 5'	111	105
880-21718-12	BG-6, 10'	130	123
880-21718-13	BG-5, 1'	109	101
880-21718-14	BG-5, 3'	126	120
880-21718-15	BG-5, 5'	109	103
880-21718-16	BG-5, 10'	103	96
880-21718-17	BG-9, 1'	116	109
880-21718-18	BG-9, 3'	105	100
880-21718-19	BG-9, 5'	98	93
880-21718-20	BG-9, 10'	117	109
880-21718-21	BG-7, 1'	110	117
880-21718-21 MS	BG-7, 1'	102	95
880-21718-21 MSD	BG-7, 1'	103	95
880-21718-22	BG-7, 3'	108	115
880-21718-23	BG-7, 5'	118	126
880-21718-24	BG-7, 10'	132 S1+	141 S1+
880-21718-25	BG-8, 1'	117	125
880-21718-26	BG-8, 3'	121	129
880-21718-27	BG-8, 5'	95	100
880-21718-28	BG-8, 10'	100	108
880-21718-29	BG-10, 1'	103	110
880-21718-30	BG-10, 3'	97	101
880-21718-31	BG-10, 5'	104	109
880-21718-32	BG-10, 10'	114	121
880-21718-33	BG-11, 1'	100	106
880-21718-34	BG-11, 3'	97	100
880-21718-35	BG-11, 5'	121	129
880-21718-36	BG-11, 10'	122	135 S1+
LCS 880-39815/2-A	Lab Control Sample	111	108
LCS 880-39823/2-A	Lab Control Sample	110	120
LCSD 880-39815/3-A	Lab Control Sample Dup	116	113
LCSD 880-39823/3-A	Lab Control Sample Dup	109	118
MB 880-39815/1-A	Method Blank	101	98
MB 880-39823/1-A	Method Blank	98	107

Surrogate Legend

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-39771/5-A
Matrix: Solid
Analysis Batch: 39772

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39771

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/17/22 07:54	11/17/22 10:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 07:54	11/17/22 10:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 07:54	11/17/22 10:49	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		11/17/22 07:54	11/17/22 10:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 07:54	11/17/22 10:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/17/22 07:54	11/17/22 10:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*11/17/22 07:54*	*11/17/22 10:49*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*11/17/22 07:54*	*11/17/22 10:49*	*1*

Lab Sample ID: MB 880-39780/5-A
Matrix: Solid
Analysis Batch: 39786

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39780

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/17/22 10:35	11/17/22 14:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 10:35	11/17/22 14:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 10:35	11/17/22 14:48	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		11/17/22 10:35	11/17/22 14:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 10:35	11/17/22 14:48	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/17/22 10:35	11/17/22 14:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*11/17/22 10:35*	*11/17/22 14:48*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*11/17/22 10:35*	*11/17/22 14:48*	*1*

Lab Sample ID: MB 880-39811/5-A
Matrix: Solid
Analysis Batch: 39772

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39811

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/17/22 12:37	11/17/22 21:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 12:37	11/17/22 21:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 12:37	11/17/22 21:23	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		11/17/22 12:37	11/17/22 21:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 12:37	11/17/22 21:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/17/22 12:37	11/17/22 21:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*11/17/22 12:37*	*11/17/22 21:23*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*11/17/22 12:37*	*11/17/22 21:23*	*1*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

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

Lab Sample ID: LCS 880-39811/1-A
Matrix: Solid
Analysis Batch: 39772

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39811

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1056		mg/Kg		106	70 - 130		
Toluene			0.100	0.09606		mg/Kg		96	70 - 130		
Ethylbenzene			0.100	0.09752		mg/Kg		98	70 - 130		
m,p-Xylenes			0.200	0.2032		mg/Kg		102	70 - 130		
o-Xylene			0.100	0.1014		mg/Kg		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*

Lab Sample ID: LCSD 880-39811/2-A
Matrix: Solid
Analysis Batch: 39772

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39811

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1142		mg/Kg		114	70 - 130	8	35
Toluene			0.100	0.09772		mg/Kg		98	70 - 130	2	35
Ethylbenzene			0.100	0.09608		mg/Kg		96	70 - 130	1	35
m,p-Xylenes			0.200	0.1977		mg/Kg		99	70 - 130	3	35
o-Xylene			0.100	0.09843		mg/Kg		98	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*

Lab Sample ID: 880-21718-1 MS
Matrix: Solid
Analysis Batch: 39772

Client Sample ID: BG-3, 1'
Prep Type: Total/NA
Prep Batch: 39811

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U	0.0996	0.09772		mg/Kg		98	70 - 130		
Toluene	<0.00201	U	0.0996	0.08073		mg/Kg		81	70 - 130		
Ethylbenzene	<0.00201	U	0.0996	0.07765		mg/Kg		78	70 - 130		
m,p-Xylenes	<0.00402	U	0.199	0.1557		mg/Kg		78	70 - 130		
o-Xylene	<0.00201	U	0.0996	0.07636		mg/Kg		77	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*

Lab Sample ID: 880-21718-1 MSD
Matrix: Solid
Analysis Batch: 39772

Client Sample ID: BG-3, 1'
Prep Type: Total/NA
Prep Batch: 39811

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.101	0.09454		mg/Kg		94	70 - 130	3	35
Toluene	<0.00201	U	0.101	0.07890		mg/Kg		78	70 - 130	2	35
Ethylbenzene	<0.00201	U	0.101	0.07515		mg/Kg		75	70 - 130	3	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

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

Lab Sample ID: 880-21718-1 MSD
Matrix: Solid
Analysis Batch: 39772

Client Sample ID: BG-3, 1'
Prep Type: Total/NA
Prep Batch: 39811

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes	<0.00402	U	0.202	0.1524		mg/Kg		76	70 - 130	2	35
o-Xylene	<0.00201	U	0.101	0.07469		mg/Kg		74	70 - 130	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*

Lab Sample ID: MB 880-39813/5-A
Matrix: Solid
Analysis Batch: 39786

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39813

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/17/22 12:44	11/18/22 02:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 12:44	11/18/22 02:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 12:44	11/18/22 02:22	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		11/17/22 12:44	11/18/22 02:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 12:44	11/18/22 02:22	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/17/22 12:44	11/18/22 02:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*75*		*70 - 130*	*11/17/22 12:44*	*11/18/22 02:22*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*11/17/22 12:44*	*11/18/22 02:22*	*1*

Lab Sample ID: LCS 880-39813/1-A
Matrix: Solid
Analysis Batch: 39786

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39813

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08797		mg/Kg		88	70 - 130		
Toluene			0.100	0.1054		mg/Kg		105	70 - 130		
Ethylbenzene			0.100	0.1042		mg/Kg		104	70 - 130		
m,p-Xylenes			0.200	0.1892		mg/Kg		95	70 - 130		
o-Xylene			0.100	0.09392		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: LCSD 880-39813/2-A
Matrix: Solid
Analysis Batch: 39786

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39813

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.06623	*-	mg/Kg		66	70 - 130	28	35
Toluene			0.100	0.08448		mg/Kg		84	70 - 130	22	35
Ethylbenzene			0.100	0.08458		mg/Kg		85	70 - 130	21	35
m,p-Xylenes			0.200	0.1516		mg/Kg		76	70 - 130	22	35
o-Xylene			0.100	0.07332		mg/Kg		73	70 - 130	25	35

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

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

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

Lab Sample ID: 880-21718-21 MS — **Client Sample ID: BG-7, 1'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39786 — **Prep Batch: 39813**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U *- F1	0.0996	0.05967	F1	mg/Kg		59	70 - 130
Toluene	<0.00201	U F1	0.0996	0.06701	F1	mg/Kg		67	70 - 130
Ethylbenzene	<0.00201	U F1	0.0996	0.06509	F1	mg/Kg		65	70 - 130
m,p-Xylenes	<0.00402	U F1	0.199	0.1177	F1	mg/Kg		59	70 - 130
o-Xylene	<0.00201	U F1	0.0996	0.05880	F1	mg/Kg		58	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-21718-21 MSD — **Client Sample ID: BG-7, 1'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39786 — **Prep Batch: 39813**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U *- F1	0.0994	0.07777		mg/Kg		77	70 - 130	26	35
Toluene	<0.00201	U F1	0.0994	0.08235		mg/Kg		83	70 - 130	21	35
Ethylbenzene	<0.00201	U F1	0.0994	0.07453		mg/Kg		75	70 - 130	14	35
m,p-Xylenes	<0.00402	U F1	0.199	0.1326	F1	mg/Kg		66	70 - 130	12	35
o-Xylene	<0.00201	U F1	0.0994	0.06544	F1	mg/Kg		65	70 - 130	11	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

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

Lab Sample ID: MB 880-39815/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39874 — **Prep Batch: 39815**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/17/22 12:54	11/18/22 08:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/17/22 12:54	11/18/22 08:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/17/22 12:54	11/18/22 08:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130	11/17/22 12:54	11/18/22 08:33	1
o-Terphenyl (Surr)	98		70 - 130	11/17/22 12:54	11/18/22 08:33	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

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

Lab Sample ID: LCS 880-39815/2-A
Matrix: Solid
Analysis Batch: 39874

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39815

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	810.8		mg/Kg		81	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	980.3		mg/Kg		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*111*		*70 - 130*
o-Terphenyl (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-39815/3-A
Matrix: Solid
Analysis Batch: 39874

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39815

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	958.5		mg/Kg		96	70 - 130	17	20
Diesel Range Organics (Over C10-C28)			1000	1025		mg/Kg		102	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*116*		*70 - 130*
o-Terphenyl (Surr)	*113*		*70 - 130*

Lab Sample ID: 880-21718-1 MS
Matrix: Solid
Analysis Batch: 39874

Client Sample ID: BG-3, 1'
Prep Type: Total/NA
Prep Batch: 39815

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	1122		mg/Kg		112	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1163		mg/Kg		114	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*109*		*70 - 130*
o-Terphenyl (Surr)	*96*		*70 - 130*

Lab Sample ID: 880-21718-1 MSD
Matrix: Solid
Analysis Batch: 39874

Client Sample ID: BG-3, 1'
Prep Type: Total/NA
Prep Batch: 39815

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	945.9		mg/Kg		95	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1117		mg/Kg		110	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*104*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

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

Lab Sample ID: 880-21718-1 MSD
Matrix: Solid
Analysis Batch: 39874

Client Sample ID: BG-3, 1'
Prep Type: Total/NA
Prep Batch: 39815

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl (Surr)	91		70 - 130

Lab Sample ID: MB 880-39823/1-A
Matrix: Solid
Analysis Batch: 39764

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39823

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/17/22 13:58	11/17/22 20:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/17/22 13:58	11/17/22 20:09	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 13:58	11/17/22 20:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130	11/17/22 13:58	11/17/22 20:09	1
o-Terphenyl (Surr)	107		70 - 130	11/17/22 13:58	11/17/22 20:09	1

Lab Sample ID: LCS 880-39823/2-A
Matrix: Solid
Analysis Batch: 39764

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39823

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	908.1		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	994.5		mg/Kg		99	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	110		70 - 130
o-Terphenyl (Surr)	120		70 - 130

Lab Sample ID: LCSD 880-39823/3-A
Matrix: Solid
Analysis Batch: 39764

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39823

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	910.7		mg/Kg		91	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	992.4		mg/Kg		99	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	109		70 - 130
o-Terphenyl (Surr)	118		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

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

Lab Sample ID: 880-21718-21 MS
Matrix: Solid
Analysis Batch: 39764

Client Sample ID: BG-7, 1'
Prep Type: Total/NA
Prep Batch: 39823

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	1033		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)	250		999	1388		mg/Kg		114	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*102*		*70 - 130*
o-Terphenyl (Surr)	*95*		*70 - 130*

Lab Sample ID: 880-21718-21 MSD
Matrix: Solid
Analysis Batch: 39764

Client Sample ID: BG-7, 1'
Prep Type: Total/NA
Prep Batch: 39823

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	1053		mg/Kg		104	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	250		997	1396		mg/Kg		115	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*103*		*70 - 130*
o-Terphenyl (Surr)	*95*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-39796/1-A
Matrix: Solid
Analysis Batch: 39854

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			11/18/22 07:53	1

Lab Sample ID: LCS 880-39796/2-A
Matrix: Solid
Analysis Batch: 39854

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			250	263.9		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-39796/3-A
Matrix: Solid
Analysis Batch: 39854

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	259.3		mg/Kg		104	90 - 110	2	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-21718-28 MS
Matrix: Solid
Analysis Batch: 39854

Client Sample ID: BG-8, 10'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1050		253	1240	4	mg/Kg		77	90 - 110

Lab Sample ID: 880-21718-28 MSD
Matrix: Solid
Analysis Batch: 39854

Client Sample ID: BG-8, 10'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1050		253	1264	4	mg/Kg		86	90 - 110	2	20

Lab Sample ID: MB 880-39797/1-A
Matrix: Solid
Analysis Batch: 39858

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			11/18/22 00:31	1

Lab Sample ID: LCS 880-39797/2-A
Matrix: Solid
Analysis Batch: 39858

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			250	257.4		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-39797/3-A
Matrix: Solid
Analysis Batch: 39858

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	258.8		mg/Kg		104	90 - 110	1	20

Lab Sample ID: 880-21718-1 MS
Matrix: Solid
Analysis Batch: 39858

Client Sample ID: BG-3, 1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	964		1240	2267		mg/Kg		105	90 - 110

Lab Sample ID: 880-21718-1 MSD
Matrix: Solid
Analysis Batch: 39858

Client Sample ID: BG-3, 1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	964		1240	2287		mg/Kg		106	90 - 110	1	20

Lab Sample ID: 880-21718-11 MS
Matrix: Solid
Analysis Batch: 39858

Client Sample ID: BG-6, 5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	684		252	916.8		mg/Kg		93	90 - 110

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-21718-11 MSD
Matrix: Solid
Analysis Batch: 39858

Client Sample ID: BG-6, 5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	684		252	914.1		mg/Kg		92	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

GC VOA

Prep Batch: 39771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-39771/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 39772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21718-1	BG-3, 1'	Total/NA	Solid	8021B	39811
880-21718-2	BG-3, 3'	Total/NA	Solid	8021B	39811
880-21718-3	BG-3, 5'	Total/NA	Solid	8021B	39811
880-21718-4	BG-3, 10'	Total/NA	Solid	8021B	39811
880-21718-5	BG-4, 1'	Total/NA	Solid	8021B	39811
880-21718-6	BG-4, 3'	Total/NA	Solid	8021B	39811
880-21718-7	BG-4, 5'	Total/NA	Solid	8021B	39811
880-21718-8	BG-4, 10'	Total/NA	Solid	8021B	39811
880-21718-9	BG-6, 1'	Total/NA	Solid	8021B	39811
880-21718-10	BG-6, 3'	Total/NA	Solid	8021B	39811
880-21718-11	BG-6, 5'	Total/NA	Solid	8021B	39811
880-21718-12	BG-6, 10'	Total/NA	Solid	8021B	39811
880-21718-13	BG-5, 1'	Total/NA	Solid	8021B	39811
880-21718-14	BG-5, 3'	Total/NA	Solid	8021B	39811
880-21718-15	BG-5, 5'	Total/NA	Solid	8021B	39811
880-21718-16	BG-5, 10'	Total/NA	Solid	8021B	39811
880-21718-17	BG-9, 1'	Total/NA	Solid	8021B	39811
880-21718-18	BG-9, 3'	Total/NA	Solid	8021B	39811
880-21718-19	BG-9, 5'	Total/NA	Solid	8021B	39811
880-21718-20	BG-9, 10'	Total/NA	Solid	8021B	39811
MB 880-39771/5-A	Method Blank	Total/NA	Solid	8021B	39771
MB 880-39811/5-A	Method Blank	Total/NA	Solid	8021B	39811
LCS 880-39811/1-A	Lab Control Sample	Total/NA	Solid	8021B	39811
LCSD 880-39811/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39811
880-21718-1 MS	BG-3, 1'	Total/NA	Solid	8021B	39811
880-21718-1 MSD	BG-3, 1'	Total/NA	Solid	8021B	39811

Prep Batch: 39780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-39780/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 39786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21718-21	BG-7, 1'	Total/NA	Solid	8021B	39813
880-21718-22	BG-7, 3'	Total/NA	Solid	8021B	39813
880-21718-23	BG-7, 5'	Total/NA	Solid	8021B	39813
880-21718-24	BG-7, 10'	Total/NA	Solid	8021B	39813
880-21718-25	BG-8, 1'	Total/NA	Solid	8021B	39813
880-21718-26	BG-8, 3'	Total/NA	Solid	8021B	39813
880-21718-27	BG-8, 5'	Total/NA	Solid	8021B	39813
880-21718-28	BG-8, 10'	Total/NA	Solid	8021B	39813
880-21718-29	BG-10, 1'	Total/NA	Solid	8021B	39813
880-21718-30	BG-10, 3'	Total/NA	Solid	8021B	39813
880-21718-31	BG-10, 5'	Total/NA	Solid	8021B	39813
880-21718-32	BG-10, 10'	Total/NA	Solid	8021B	39813
880-21718-33	BG-11, 1'	Total/NA	Solid	8021B	39813
880-21718-34	BG-11, 3'	Total/NA	Solid	8021B	39813

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

GC VOA (Continued)

Analysis Batch: 39786 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21718-35	BG-11, 5'	Total/NA	Solid	8021B	39813
880-21718-36	BG-11, 10'	Total/NA	Solid	8021B	39813
MB 880-39780/5-A	Method Blank	Total/NA	Solid	8021B	39780
MB 880-39813/5-A	Method Blank	Total/NA	Solid	8021B	39813
LCS 880-39813/1-A	Lab Control Sample	Total/NA	Solid	8021B	39813
LCSD 880-39813/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39813
880-21718-21 MS	BG-7, 1'	Total/NA	Solid	8021B	39813
880-21718-21 MSD	BG-7, 1'	Total/NA	Solid	8021B	39813

Prep Batch: 39811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21718-1	BG-3, 1'	Total/NA	Solid	5035	
880-21718-2	BG-3, 3'	Total/NA	Solid	5035	
880-21718-3	BG-3, 5'	Total/NA	Solid	5035	
880-21718-4	BG-3, 10'	Total/NA	Solid	5035	
880-21718-5	BG-4, 1'	Total/NA	Solid	5035	
880-21718-6	BG-4, 3'	Total/NA	Solid	5035	
880-21718-7	BG-4, 5'	Total/NA	Solid	5035	
880-21718-8	BG-4, 10'	Total/NA	Solid	5035	
880-21718-9	BG-6, 1'	Total/NA	Solid	5035	
880-21718-10	BG-6, 3'	Total/NA	Solid	5035	
880-21718-11	BG-6, 5'	Total/NA	Solid	5035	
880-21718-12	BG-6, 10'	Total/NA	Solid	5035	
880-21718-13	BG-5, 1'	Total/NA	Solid	5035	
880-21718-14	BG-5, 3'	Total/NA	Solid	5035	
880-21718-15	BG-5, 5'	Total/NA	Solid	5035	
880-21718-16	BG-5, 10'	Total/NA	Solid	5035	
880-21718-17	BG-9, 1'	Total/NA	Solid	5035	
880-21718-18	BG-9, 3'	Total/NA	Solid	5035	
880-21718-19	BG-9, 5'	Total/NA	Solid	5035	
880-21718-20	BG-9, 10'	Total/NA	Solid	5035	
MB 880-39811/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39811/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39811/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-21718-1 MS	BG-3, 1'	Total/NA	Solid	5035	
880-21718-1 MSD	BG-3, 1'	Total/NA	Solid	5035	

Prep Batch: 39813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21718-21	BG-7, 1'	Total/NA	Solid	5035	
880-21718-22	BG-7, 3'	Total/NA	Solid	5035	
880-21718-23	BG-7, 5'	Total/NA	Solid	5035	
880-21718-24	BG-7, 10'	Total/NA	Solid	5035	
880-21718-25	BG-8, 1'	Total/NA	Solid	5035	
880-21718-26	BG-8, 3'	Total/NA	Solid	5035	
880-21718-27	BG-8, 5'	Total/NA	Solid	5035	
880-21718-28	BG-8, 10'	Total/NA	Solid	5035	
880-21718-29	BG-10, 1'	Total/NA	Solid	5035	
880-21718-30	BG-10, 3'	Total/NA	Solid	5035	
880-21718-31	BG-10, 5'	Total/NA	Solid	5035	
880-21718-32	BG-10, 10'	Total/NA	Solid	5035	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

GC VOA (Continued)

Prep Batch: 39813 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21718-33	BG-11, 1'	Total/NA	Solid	5035	
880-21718-34	BG-11, 3'	Total/NA	Solid	5035	
880-21718-35	BG-11, 5'	Total/NA	Solid	5035	
880-21718-36	BG-11, 10'	Total/NA	Solid	5035	
MB 880-39813/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39813/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39813/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-21718-21 MS	BG-7, 1'	Total/NA	Solid	5035	
880-21718-21 MSD	BG-7, 1'	Total/NA	Solid	5035	

Analysis Batch: 39914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21718-1	BG-3, 1'	Total/NA	Solid	Total BTEX	
880-21718-2	BG-3, 3'	Total/NA	Solid	Total BTEX	
880-21718-3	BG-3, 5'	Total/NA	Solid	Total BTEX	
880-21718-4	BG-3, 10'	Total/NA	Solid	Total BTEX	
880-21718-5	BG-4, 1'	Total/NA	Solid	Total BTEX	
880-21718-6	BG-4, 3'	Total/NA	Solid	Total BTEX	
880-21718-7	BG-4, 5'	Total/NA	Solid	Total BTEX	
880-21718-8	BG-4, 10'	Total/NA	Solid	Total BTEX	
880-21718-9	BG-6, 1'	Total/NA	Solid	Total BTEX	
880-21718-10	BG-6, 3'	Total/NA	Solid	Total BTEX	
880-21718-11	BG-6, 5'	Total/NA	Solid	Total BTEX	
880-21718-12	BG-6, 10'	Total/NA	Solid	Total BTEX	
880-21718-13	BG-5, 1'	Total/NA	Solid	Total BTEX	
880-21718-14	BG-5, 3'	Total/NA	Solid	Total BTEX	
880-21718-15	BG-5, 5'	Total/NA	Solid	Total BTEX	
880-21718-16	BG-5, 10'	Total/NA	Solid	Total BTEX	
880-21718-17	BG-9, 1'	Total/NA	Solid	Total BTEX	
880-21718-18	BG-9, 3'	Total/NA	Solid	Total BTEX	
880-21718-19	BG-9, 5'	Total/NA	Solid	Total BTEX	
880-21718-20	BG-9, 10'	Total/NA	Solid	Total BTEX	
880-21718-21	BG-7, 1'	Total/NA	Solid	Total BTEX	
880-21718-22	BG-7, 3'	Total/NA	Solid	Total BTEX	
880-21718-23	BG-7, 5'	Total/NA	Solid	Total BTEX	
880-21718-24	BG-7, 10'	Total/NA	Solid	Total BTEX	
880-21718-25	BG-8, 1'	Total/NA	Solid	Total BTEX	
880-21718-26	BG-8, 3'	Total/NA	Solid	Total BTEX	
880-21718-27	BG-8, 5'	Total/NA	Solid	Total BTEX	
880-21718-28	BG-8, 10'	Total/NA	Solid	Total BTEX	
880-21718-29	BG-10, 1'	Total/NA	Solid	Total BTEX	
880-21718-30	BG-10, 3'	Total/NA	Solid	Total BTEX	
880-21718-31	BG-10, 5'	Total/NA	Solid	Total BTEX	
880-21718-32	BG-10, 10'	Total/NA	Solid	Total BTEX	
880-21718-33	BG-11, 1'	Total/NA	Solid	Total BTEX	
880-21718-34	BG-11, 3'	Total/NA	Solid	Total BTEX	
880-21718-35	BG-11, 5'	Total/NA	Solid	Total BTEX	
880-21718-36	BG-11, 10'	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

GC Semi VOA

Analysis Batch: 39764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21718-21	BG-7, 1'	Total/NA	Solid	8015B NM	39823
880-21718-22	BG-7, 3'	Total/NA	Solid	8015B NM	39823
880-21718-23	BG-7, 5'	Total/NA	Solid	8015B NM	39823
880-21718-24	BG-7, 10'	Total/NA	Solid	8015B NM	39823
880-21718-25	BG-8, 1'	Total/NA	Solid	8015B NM	39823
880-21718-26	BG-8, 3'	Total/NA	Solid	8015B NM	39823
880-21718-27	BG-8, 5'	Total/NA	Solid	8015B NM	39823
880-21718-28	BG-8, 10'	Total/NA	Solid	8015B NM	39823
880-21718-29	BG-10, 1'	Total/NA	Solid	8015B NM	39823
880-21718-30	BG-10, 3'	Total/NA	Solid	8015B NM	39823
880-21718-31	BG-10, 5'	Total/NA	Solid	8015B NM	39823
880-21718-32	BG-10, 10'	Total/NA	Solid	8015B NM	39823
880-21718-33	BG-11, 1'	Total/NA	Solid	8015B NM	39823
880-21718-34	BG-11, 3'	Total/NA	Solid	8015B NM	39823
880-21718-35	BG-11, 5'	Total/NA	Solid	8015B NM	39823
880-21718-36	BG-11, 10'	Total/NA	Solid	8015B NM	39823
MB 880-39823/1-A	Method Blank	Total/NA	Solid	8015B NM	39823
LCS 880-39823/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	39823
LCSD 880-39823/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39823
880-21718-21 MS	BG-7, 1'	Total/NA	Solid	8015B NM	39823
880-21718-21 MSD	BG-7, 1'	Total/NA	Solid	8015B NM	39823

Prep Batch: 39815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21718-1	BG-3, 1'	Total/NA	Solid	8015NM Prep	
880-21718-2	BG-3, 3'	Total/NA	Solid	8015NM Prep	
880-21718-3	BG-3, 5'	Total/NA	Solid	8015NM Prep	
880-21718-4	BG-3, 10'	Total/NA	Solid	8015NM Prep	
880-21718-5	BG-4, 1'	Total/NA	Solid	8015NM Prep	
880-21718-6	BG-4, 3'	Total/NA	Solid	8015NM Prep	
880-21718-7	BG-4, 5'	Total/NA	Solid	8015NM Prep	
880-21718-8	BG-4, 10'	Total/NA	Solid	8015NM Prep	
880-21718-9	BG-6, 1'	Total/NA	Solid	8015NM Prep	
880-21718-10	BG-6, 3'	Total/NA	Solid	8015NM Prep	
880-21718-11	BG-6, 5'	Total/NA	Solid	8015NM Prep	
880-21718-12	BG-6, 10'	Total/NA	Solid	8015NM Prep	
880-21718-13	BG-5, 1'	Total/NA	Solid	8015NM Prep	
880-21718-14	BG-5, 3'	Total/NA	Solid	8015NM Prep	
880-21718-15	BG-5, 5'	Total/NA	Solid	8015NM Prep	
880-21718-16	BG-5, 10'	Total/NA	Solid	8015NM Prep	
880-21718-17	BG-9, 1'	Total/NA	Solid	8015NM Prep	
880-21718-18	BG-9, 3'	Total/NA	Solid	8015NM Prep	
880-21718-19	BG-9, 5'	Total/NA	Solid	8015NM Prep	
880-21718-20	BG-9, 10'	Total/NA	Solid	8015NM Prep	
MB 880-39815/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-39815/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-39815/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-21718-1 MS	BG-3, 1'	Total/NA	Solid	8015NM Prep	
880-21718-1 MSD	BG-3, 1'	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

GC Semi VOA

Prep Batch: 39823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21718-21	BG-7, 1'	Total/NA	Solid	8015NM Prep	
880-21718-22	BG-7, 3'	Total/NA	Solid	8015NM Prep	
880-21718-23	BG-7, 5'	Total/NA	Solid	8015NM Prep	
880-21718-24	BG-7, 10'	Total/NA	Solid	8015NM Prep	
880-21718-25	BG-8, 1'	Total/NA	Solid	8015NM Prep	
880-21718-26	BG-8, 3'	Total/NA	Solid	8015NM Prep	
880-21718-27	BG-8, 5'	Total/NA	Solid	8015NM Prep	
880-21718-28	BG-8, 10'	Total/NA	Solid	8015NM Prep	
880-21718-29	BG-10, 1'	Total/NA	Solid	8015NM Prep	
880-21718-30	BG-10, 3'	Total/NA	Solid	8015NM Prep	
880-21718-31	BG-10, 5'	Total/NA	Solid	8015NM Prep	
880-21718-32	BG-10, 10'	Total/NA	Solid	8015NM Prep	
880-21718-33	BG-11, 1'	Total/NA	Solid	8015NM Prep	
880-21718-34	BG-11, 3'	Total/NA	Solid	8015NM Prep	
880-21718-35	BG-11, 5'	Total/NA	Solid	8015NM Prep	
880-21718-36	BG-11, 10'	Total/NA	Solid	8015NM Prep	
MB 880-39823/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-39823/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-39823/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-21718-21 MS	BG-7, 1'	Total/NA	Solid	8015NM Prep	
880-21718-21 MSD	BG-7, 1'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 39874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21718-1	BG-3, 1'	Total/NA	Solid	8015B NM	39815
880-21718-2	BG-3, 3'	Total/NA	Solid	8015B NM	39815
880-21718-3	BG-3, 5'	Total/NA	Solid	8015B NM	39815
880-21718-4	BG-3, 10'	Total/NA	Solid	8015B NM	39815
880-21718-5	BG-4, 1'	Total/NA	Solid	8015B NM	39815
880-21718-6	BG-4, 3'	Total/NA	Solid	8015B NM	39815
880-21718-7	BG-4, 5'	Total/NA	Solid	8015B NM	39815
880-21718-8	BG-4, 10'	Total/NA	Solid	8015B NM	39815
880-21718-9	BG-6, 1'	Total/NA	Solid	8015B NM	39815
880-21718-10	BG-6, 3'	Total/NA	Solid	8015B NM	39815
880-21718-11	BG-6, 5'	Total/NA	Solid	8015B NM	39815
880-21718-12	BG-6, 10'	Total/NA	Solid	8015B NM	39815
880-21718-13	BG-5, 1'	Total/NA	Solid	8015B NM	39815
880-21718-14	BG-5, 3'	Total/NA	Solid	8015B NM	39815
880-21718-15	BG-5, 5'	Total/NA	Solid	8015B NM	39815
880-21718-16	BG-5, 10'	Total/NA	Solid	8015B NM	39815
880-21718-17	BG-9, 1'	Total/NA	Solid	8015B NM	39815
880-21718-18	BG-9, 3'	Total/NA	Solid	8015B NM	39815
880-21718-19	BG-9, 5'	Total/NA	Solid	8015B NM	39815
880-21718-20	BG-9, 10'	Total/NA	Solid	8015B NM	39815
MB 880-39815/1-A	Method Blank	Total/NA	Solid	8015B NM	39815
LCS 880-39815/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	39815
LCSD 880-39815/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39815
880-21718-1 MS	BG-3, 1'	Total/NA	Solid	8015B NM	39815
880-21718-1 MSD	BG-3, 1'	Total/NA	Solid	8015B NM	39815

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

GC Semi VOA

Analysis Batch: 39909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21718-1	BG-3, 1'	Total/NA	Solid	8015 NM	
880-21718-2	BG-3, 3'	Total/NA	Solid	8015 NM	
880-21718-3	BG-3, 5'	Total/NA	Solid	8015 NM	
880-21718-4	BG-3, 10'	Total/NA	Solid	8015 NM	
880-21718-5	BG-4, 1'	Total/NA	Solid	8015 NM	
880-21718-6	BG-4, 3'	Total/NA	Solid	8015 NM	
880-21718-7	BG-4, 5'	Total/NA	Solid	8015 NM	
880-21718-8	BG-4, 10'	Total/NA	Solid	8015 NM	
880-21718-9	BG-6, 1'	Total/NA	Solid	8015 NM	
880-21718-10	BG-6, 3'	Total/NA	Solid	8015 NM	
880-21718-11	BG-6, 5'	Total/NA	Solid	8015 NM	
880-21718-12	BG-6, 10'	Total/NA	Solid	8015 NM	
880-21718-13	BG-5, 1'	Total/NA	Solid	8015 NM	
880-21718-14	BG-5, 3'	Total/NA	Solid	8015 NM	
880-21718-15	BG-5, 5'	Total/NA	Solid	8015 NM	
880-21718-16	BG-5, 10'	Total/NA	Solid	8015 NM	
880-21718-17	BG-9, 1'	Total/NA	Solid	8015 NM	
880-21718-18	BG-9, 3'	Total/NA	Solid	8015 NM	
880-21718-19	BG-9, 5'	Total/NA	Solid	8015 NM	
880-21718-20	BG-9, 10'	Total/NA	Solid	8015 NM	
880-21718-21	BG-7, 1'	Total/NA	Solid	8015 NM	
880-21718-22	BG-7, 3'	Total/NA	Solid	8015 NM	
880-21718-23	BG-7, 5'	Total/NA	Solid	8015 NM	
880-21718-24	BG-7, 10'	Total/NA	Solid	8015 NM	
880-21718-25	BG-8, 1'	Total/NA	Solid	8015 NM	
880-21718-26	BG-8, 3'	Total/NA	Solid	8015 NM	
880-21718-27	BG-8, 5'	Total/NA	Solid	8015 NM	
880-21718-28	BG-8, 10'	Total/NA	Solid	8015 NM	
880-21718-29	BG-10, 1'	Total/NA	Solid	8015 NM	
880-21718-30	BG-10, 3'	Total/NA	Solid	8015 NM	
880-21718-31	BG-10, 5'	Total/NA	Solid	8015 NM	
880-21718-32	BG-10, 10'	Total/NA	Solid	8015 NM	
880-21718-33	BG-11, 1'	Total/NA	Solid	8015 NM	
880-21718-34	BG-11, 3'	Total/NA	Solid	8015 NM	
880-21718-35	BG-11, 5'	Total/NA	Solid	8015 NM	
880-21718-36	BG-11, 10'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 39796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21718-21	BG-7, 1'	Soluble	Solid	DI Leach	
880-21718-22	BG-7, 3'	Soluble	Solid	DI Leach	
880-21718-23	BG-7, 5'	Soluble	Solid	DI Leach	
880-21718-24	BG-7, 10'	Soluble	Solid	DI Leach	
880-21718-25	BG-8, 1'	Soluble	Solid	DI Leach	
880-21718-26	BG-8, 3'	Soluble	Solid	DI Leach	
880-21718-27	BG-8, 5'	Soluble	Solid	DI Leach	
880-21718-28	BG-8, 10'	Soluble	Solid	DI Leach	
880-21718-29	BG-10, 1'	Soluble	Solid	DI Leach	
880-21718-30	BG-10, 3'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

HPLC/IC (Continued)

Leach Batch: 39796 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21718-31	BG-10, 5'	Soluble	Solid	DI Leach	
880-21718-32	BG-10, 10'	Soluble	Solid	DI Leach	
880-21718-33	BG-11, 1'	Soluble	Solid	DI Leach	
880-21718-34	BG-11, 3'	Soluble	Solid	DI Leach	
880-21718-35	BG-11, 5'	Soluble	Solid	DI Leach	
880-21718-36	BG-11, 10'	Soluble	Solid	DI Leach	
MB 880-39796/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-39796/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-39796/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-21718-28 MS	BG-8, 10'	Soluble	Solid	DI Leach	
880-21718-28 MSD	BG-8, 10'	Soluble	Solid	DI Leach	

Leach Batch: 39797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21718-1	BG-3, 1'	Soluble	Solid	DI Leach	
880-21718-2	BG-3, 3'	Soluble	Solid	DI Leach	
880-21718-3	BG-3, 5'	Soluble	Solid	DI Leach	
880-21718-4	BG-3, 10'	Soluble	Solid	DI Leach	
880-21718-5	BG-4, 1'	Soluble	Solid	DI Leach	
880-21718-6	BG-4, 3'	Soluble	Solid	DI Leach	
880-21718-7	BG-4, 5'	Soluble	Solid	DI Leach	
880-21718-8	BG-4, 10'	Soluble	Solid	DI Leach	
880-21718-9	BG-6, 1'	Soluble	Solid	DI Leach	
880-21718-10	BG-6, 3'	Soluble	Solid	DI Leach	
880-21718-11	BG-6, 5'	Soluble	Solid	DI Leach	
880-21718-12	BG-6, 10'	Soluble	Solid	DI Leach	
880-21718-13	BG-5, 1'	Soluble	Solid	DI Leach	
880-21718-14	BG-5, 3'	Soluble	Solid	DI Leach	
880-21718-15	BG-5, 5'	Soluble	Solid	DI Leach	
880-21718-16	BG-5, 10'	Soluble	Solid	DI Leach	
880-21718-17	BG-9, 1'	Soluble	Solid	DI Leach	
880-21718-18	BG-9, 3'	Soluble	Solid	DI Leach	
880-21718-19	BG-9, 5'	Soluble	Solid	DI Leach	
880-21718-20	BG-9, 10'	Soluble	Solid	DI Leach	
MB 880-39797/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-39797/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-39797/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-21718-1 MS	BG-3, 1'	Soluble	Solid	DI Leach	
880-21718-1 MSD	BG-3, 1'	Soluble	Solid	DI Leach	
880-21718-11 MS	BG-6, 5'	Soluble	Solid	DI Leach	
880-21718-11 MSD	BG-6, 5'	Soluble	Solid	DI Leach	

Analysis Batch: 39854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21718-21	BG-7, 1'	Soluble	Solid	300.0	39796
880-21718-22	BG-7, 3'	Soluble	Solid	300.0	39796
880-21718-23	BG-7, 5'	Soluble	Solid	300.0	39796
880-21718-24	BG-7, 10'	Soluble	Solid	300.0	39796
880-21718-25	BG-8, 1'	Soluble	Solid	300.0	39796
880-21718-26	BG-8, 3'	Soluble	Solid	300.0	39796
880-21718-27	BG-8, 5'	Soluble	Solid	300.0	39796

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

HPLC/IC (Continued)

Analysis Batch: 39854 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21718-28	BG-8, 10'	Soluble	Solid	300.0	39796
880-21718-29	BG-10, 1'	Soluble	Solid	300.0	39796
880-21718-30	BG-10, 3'	Soluble	Solid	300.0	39796
880-21718-31	BG-10, 5'	Soluble	Solid	300.0	39796
880-21718-32	BG-10, 10'	Soluble	Solid	300.0	39796
880-21718-33	BG-11, 1'	Soluble	Solid	300.0	39796
880-21718-34	BG-11, 3'	Soluble	Solid	300.0	39796
880-21718-35	BG-11, 5'	Soluble	Solid	300.0	39796
880-21718-36	BG-11, 10'	Soluble	Solid	300.0	39796
MB 880-39796/1-A	Method Blank	Soluble	Solid	300.0	39796
LCS 880-39796/2-A	Lab Control Sample	Soluble	Solid	300.0	39796
LCSD 880-39796/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	39796
880-21718-28 MS	BG-8, 10'	Soluble	Solid	300.0	39796
880-21718-28 MSD	BG-8, 10'	Soluble	Solid	300.0	39796

Analysis Batch: 39858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21718-1	BG-3, 1'	Soluble	Solid	300.0	39797
880-21718-2	BG-3, 3'	Soluble	Solid	300.0	39797
880-21718-3	BG-3, 5'	Soluble	Solid	300.0	39797
880-21718-4	BG-3, 10'	Soluble	Solid	300.0	39797
880-21718-5	BG-4, 1'	Soluble	Solid	300.0	39797
880-21718-6	BG-4, 3'	Soluble	Solid	300.0	39797
880-21718-7	BG-4, 5'	Soluble	Solid	300.0	39797
880-21718-8	BG-4, 10'	Soluble	Solid	300.0	39797
880-21718-9	BG-6, 1'	Soluble	Solid	300.0	39797
880-21718-10	BG-6, 3'	Soluble	Solid	300.0	39797
880-21718-11	BG-6, 5'	Soluble	Solid	300.0	39797
880-21718-12	BG-6, 10'	Soluble	Solid	300.0	39797
880-21718-13	BG-5, 1'	Soluble	Solid	300.0	39797
880-21718-14	BG-5, 3'	Soluble	Solid	300.0	39797
880-21718-15	BG-5, 5'	Soluble	Solid	300.0	39797
880-21718-16	BG-5, 10'	Soluble	Solid	300.0	39797
880-21718-17	BG-9, 1'	Soluble	Solid	300.0	39797
880-21718-18	BG-9, 3'	Soluble	Solid	300.0	39797
880-21718-19	BG-9, 5'	Soluble	Solid	300.0	39797
880-21718-20	BG-9, 10'	Soluble	Solid	300.0	39797
MB 880-39797/1-A	Method Blank	Soluble	Solid	300.0	39797
LCS 880-39797/2-A	Lab Control Sample	Soluble	Solid	300.0	39797
LCSD 880-39797/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	39797
880-21718-1 MS	BG-3, 1'	Soluble	Solid	300.0	39797
880-21718-1 MSD	BG-3, 1'	Soluble	Solid	300.0	39797
880-21718-11 MS	BG-6, 5'	Soluble	Solid	300.0	39797
880-21718-11 MSD	BG-6, 5'	Soluble	Solid	300.0	39797

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-3, 1'
Date Collected: 11/14/22 12:00
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-1
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			4.97 g	5 mL	39811	11/17/22 12:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39772	11/17/22 21:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39914	11/18/22 11:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			39909	11/21/22 10:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39815	11/17/22 12:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39874	11/18/22 11:07	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39797	11/17/22 12:01	KS	EET MID
Soluble	Analysis	300.0		5			39858	11/18/22 00:47	SMC	EET MID

Client Sample ID: BG-3, 3'
Date Collected: 11/14/22 12:15
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39811	11/17/22 12:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39772	11/17/22 22:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39914	11/18/22 11:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			39909	11/21/22 10:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39815	11/17/22 12:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39874	11/18/22 12:12	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39797	11/17/22 12:01	KS	EET MID
Soluble	Analysis	300.0		1			39858	11/18/22 01:04	SMC	EET MID

Client Sample ID: BG-3, 5'
Date Collected: 11/14/22 12:30
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-3
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			5.03 g	5 mL	39811	11/17/22 12:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39772	11/17/22 22:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39914	11/18/22 11:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			39909	11/21/22 10:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39815	11/17/22 12:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39874	11/18/22 12:35	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39797	11/17/22 12:01	KS	EET MID
Soluble	Analysis	300.0		1			39858	11/18/22 01:10	SMC	EET MID

Client Sample ID: BG-3, 10'
Date Collected: 11/14/22 12:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	39811	11/17/22 12:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39772	11/17/22 22:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39914	11/18/22 11:59	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-3, 10'
Date Collected: 11/14/22 12:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-4
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			39909	11/21/22 10:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39815	11/17/22 12:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39874	11/18/22 12:56	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	39797	11/17/22 12:01	KS	EET MID
Soluble	Analysis	300.0		5			39858	11/18/22 01:16	SMC	EET MID

Client Sample ID: BG-4, 1'
Date Collected: 11/14/22 13:00
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	39811	11/17/22 12:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39772	11/17/22 23:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39914	11/18/22 11:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			39909	11/21/22 10:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39815	11/17/22 12:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39874	11/18/22 13:18	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	39797	11/17/22 12:01	KS	EET MID
Soluble	Analysis	300.0		5			39858	11/18/22 01:21	SMC	EET MID

Client Sample ID: BG-4, 3'
Date Collected: 11/14/22 13:15
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	39811	11/17/22 12:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39772	11/17/22 23:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39914	11/18/22 11:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			39909	11/21/22 10:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39815	11/17/22 12:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39874	11/18/22 13:39	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	39797	11/17/22 12:01	KS	EET MID
Soluble	Analysis	300.0		1			39858	11/18/22 01:38	SMC	EET MID

Client Sample ID: BG-4, 5'
Date Collected: 11/14/22 13:30
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39811	11/17/22 12:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39772	11/17/22 23:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39914	11/18/22 11:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			39909	11/21/22 10:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39815	11/17/22 12:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39874	11/18/22 14:02	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-4, 5'
Date Collected: 11/14/22 13:30
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	39797	11/17/22 12:01	KS	EET MID
Soluble	Analysis	300.0		1			39858	11/18/22 01:44	SMC	EET MID

Client Sample ID: BG-4, 10'
Date Collected: 11/14/22 13:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	39811	11/17/22 12:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39772	11/18/22 00:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39914	11/18/22 11:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			39909	11/21/22 10:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39815	11/17/22 12:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39874	11/18/22 14:24	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39797	11/17/22 12:01	KS	EET MID
Soluble	Analysis	300.0		1			39858	11/18/22 01:50	SMC	EET MID

Client Sample ID: BG-6, 1'
Date Collected: 11/14/22 14:00
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	39811	11/17/22 12:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39772	11/18/22 00:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39914	11/18/22 11:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			39909	11/21/22 10:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39815	11/17/22 12:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39874	11/18/22 14:46	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	39797	11/17/22 12:01	KS	EET MID
Soluble	Analysis	300.0		1			39858	11/18/22 01:55	SMC	EET MID

Client Sample ID: BG-6, 3'
Date Collected: 11/14/22 14:15
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	39811	11/17/22 12:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39772	11/18/22 00:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39914	11/18/22 11:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			39909	11/21/22 10:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39815	11/17/22 12:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39874	11/18/22 15:07	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	39797	11/17/22 12:01	KS	EET MID
Soluble	Analysis	300.0		1			39858	11/18/22 02:01	SMC	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-6, 5'
Date Collected: 11/14/22 14:30
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	39811	11/17/22 12:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39772	11/18/22 02:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39914	11/18/22 11:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			39909	11/21/22 10:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39815	11/17/22 12:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39874	11/18/22 15:51	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	39797	11/17/22 12:01	KS	EET MID
Soluble	Analysis	300.0		1			39858	11/18/22 02:07	SMC	EET MID

Client Sample ID: BG-6, 10'
Date Collected: 11/14/22 14:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39811	11/17/22 12:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39772	11/18/22 02:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39914	11/18/22 11:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			39909	11/21/22 10:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39815	11/17/22 12:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39874	11/18/22 16:13	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	39797	11/17/22 12:01	KS	EET MID
Soluble	Analysis	300.0		1			39858	11/18/22 02:24	SMC	EET MID

Client Sample ID: BG-5, 1'
Date Collected: 11/15/22 09:30
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	39811	11/17/22 12:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39772	11/18/22 02:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39914	11/18/22 11:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			39909	11/21/22 10:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39815	11/17/22 12:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39874	11/18/22 16:35	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	39797	11/17/22 12:01	KS	EET MID
Soluble	Analysis	300.0		1			39858	11/18/22 02:29	SMC	EET MID

Client Sample ID: BG-5, 3'
Date Collected: 11/15/22 09:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39811	11/17/22 12:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39772	11/18/22 03:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39914	11/18/22 11:59	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-5, 3'
Date Collected: 11/15/22 09:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-14
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			39909	11/21/22 10:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39815	11/17/22 12:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39874	11/18/22 16:57	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39797	11/17/22 12:01	KS	EET MID
Soluble	Analysis	300.0		1			39858	11/18/22 02:46	SMC	EET MID

Client Sample ID: BG-5, 5'
Date Collected: 11/15/22 10:00
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-15
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			5.02 g	5 mL	39811	11/17/22 12:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39772	11/18/22 03:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39914	11/18/22 11:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			39909	11/21/22 10:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39815	11/17/22 12:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39874	11/18/22 17:18	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	39797	11/17/22 12:01	KS	EET MID
Soluble	Analysis	300.0		1			39858	11/18/22 02:52	SMC	EET MID

Client Sample ID: BG-5, 10'
Date Collected: 11/15/22 10:15
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-16
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			5.03 g	5 mL	39811	11/17/22 12:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39772	11/18/22 03:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39914	11/18/22 11:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			39909	11/21/22 10:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39815	11/17/22 12:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39874	11/18/22 17:41	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	39797	11/17/22 12:01	KS	EET MID
Soluble	Analysis	300.0		1			39858	11/18/22 02:58	SMC	EET MID

Client Sample ID: BG-9, 1'
Date Collected: 11/15/22 10:30
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-17
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			5.01 g	5 mL	39811	11/17/22 12:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39772	11/18/22 04:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39914	11/18/22 11:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			39909	11/21/22 10:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39815	11/17/22 12:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39874	11/18/22 18:02	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-9, 1'
Date Collected: 11/15/22 10:30
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	39797	11/17/22 12:01	KS	EET MID
Soluble	Analysis	300.0		1			39858	11/18/22 03:03	SMC	EET MID

Client Sample ID: BG-9, 3'
Date Collected: 11/15/22 10:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	39811	11/17/22 12:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39772	11/18/22 04:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39914	11/18/22 11:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			39909	11/21/22 10:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39815	11/17/22 12:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39874	11/18/22 18:23	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39797	11/17/22 12:01	KS	EET MID
Soluble	Analysis	300.0		1			39858	11/18/22 03:09	SMC	EET MID

Client Sample ID: BG-9, 5'
Date Collected: 11/15/22 11:00
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	39811	11/17/22 12:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39772	11/18/22 04:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39914	11/18/22 11:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			39909	11/21/22 10:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39815	11/17/22 12:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39874	11/18/22 18:45	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39797	11/17/22 12:01	KS	EET MID
Soluble	Analysis	300.0		1			39858	11/18/22 03:14	SMC	EET MID

Client Sample ID: BG-9, 10'
Date Collected: 11/15/22 11:15
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	39811	11/17/22 12:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39772	11/18/22 05:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39914	11/18/22 11:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			39909	11/21/22 10:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39815	11/17/22 12:54	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39874	11/18/22 19:07	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39797	11/17/22 12:01	KS	EET MID
Soluble	Analysis	300.0		1			39858	11/18/22 03:20	SMC	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-7, 1'
Date Collected: 11/15/22 11:30
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	39813	11/17/22 12:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39786	11/18/22 02:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39914	11/18/22 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39909	11/18/22 10:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39823	11/17/22 13:58	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39764	11/17/22 21:13	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	39796	11/17/22 11:59	KS	EET MID
Soluble	Analysis	300.0		1			39854	11/18/22 08:50	CH	EET MID

Client Sample ID: BG-7, 3'
Date Collected: 11/15/22 11:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	39813	11/17/22 12:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39786	11/18/22 03:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39914	11/18/22 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39909	11/18/22 10:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39823	11/17/22 13:58	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39764	11/17/22 22:18	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	39796	11/17/22 11:59	KS	EET MID
Soluble	Analysis	300.0		1			39854	11/18/22 08:57	CH	EET MID

Client Sample ID: BG-7, 5'
Date Collected: 11/15/22 12:00
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39813	11/17/22 12:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39786	11/18/22 03:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39914	11/18/22 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39909	11/18/22 10:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39823	11/17/22 13:58	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39764	11/17/22 22:40	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39796	11/17/22 11:59	KS	EET MID
Soluble	Analysis	300.0		5			39854	11/18/22 09:18	CH	EET MID

Client Sample ID: BG-7, 10'
Date Collected: 11/15/22 12:15
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	39813	11/17/22 12:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39786	11/18/22 03:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39914	11/18/22 11:31	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-7, 10'
Date Collected: 11/15/22 12:15
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			39909	11/18/22 10:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39823	11/17/22 13:58	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39764	11/17/22 23:02	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39796	11/17/22 11:59	KS	EET MID
Soluble	Analysis	300.0		1			39854	11/18/22 09:26	CH	EET MID

Client Sample ID: BG-8, 1'
Date Collected: 11/15/22 12:30
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	39813	11/17/22 12:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39786	11/18/22 04:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39914	11/18/22 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39909	11/18/22 10:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39823	11/17/22 13:58	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39764	11/17/22 23:24	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	39796	11/17/22 11:59	KS	EET MID
Soluble	Analysis	300.0		1			39854	11/18/22 09:33	CH	EET MID

Client Sample ID: BG-8, 3'
Date Collected: 11/15/22 12:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-26
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	39813	11/17/22 12:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39786	11/18/22 04:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39914	11/18/22 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39909	11/18/22 10:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39823	11/17/22 13:58	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39764	11/17/22 23:45	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	39796	11/17/22 11:59	KS	EET MID
Soluble	Analysis	300.0		1			39854	11/18/22 09:40	CH	EET MID

Client Sample ID: BG-8, 5'
Date Collected: 11/15/22 13:00
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-27
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	39813	11/17/22 12:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39786	11/18/22 04:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39914	11/18/22 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39909	11/18/22 10:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39823	11/17/22 13:58	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39764	11/18/22 00:07	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-8, 5'
Date Collected: 11/15/22 13:00
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	39796	11/17/22 11:59	KS	EET MID
Soluble	Analysis	300.0		1			39854	11/18/22 09:47	CH	EET MID

Client Sample ID: BG-8, 10'
Date Collected: 11/15/22 13:15
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	39813	11/17/22 12:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39786	11/18/22 05:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39914	11/18/22 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39909	11/18/22 10:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39823	11/17/22 13:58	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39764	11/18/22 00:29	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	39796	11/17/22 11:59	KS	EET MID
Soluble	Analysis	300.0		1			39854	11/18/22 09:54	CH	EET MID

Client Sample ID: BG-10, 1'
Date Collected: 11/15/22 13:30
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	39813	11/17/22 12:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39786	11/18/22 05:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39914	11/18/22 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39909	11/18/22 10:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39823	11/17/22 13:58	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39764	11/18/22 00:51	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	39796	11/17/22 11:59	KS	EET MID
Soluble	Analysis	300.0		1			39854	11/18/22 10:15	CH	EET MID

Client Sample ID: BG-10, 3'
Date Collected: 11/15/22 13:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39813	11/17/22 12:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39786	11/18/22 05:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39914	11/18/22 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39909	11/18/22 10:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39823	11/17/22 13:58	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39764	11/18/22 01:13	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39796	11/17/22 11:59	KS	EET MID
Soluble	Analysis	300.0		1			39854	11/18/22 10:23	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-10, 5'
Date Collected: 11/15/22 14:00
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39813	11/17/22 12:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39786	11/18/22 07:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39914	11/18/22 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39909	11/18/22 10:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39823	11/17/22 13:58	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39764	11/18/22 01:57	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	39796	11/17/22 11:59	KS	EET MID
Soluble	Analysis	300.0		1			39854	11/18/22 10:44	CH	EET MID

Client Sample ID: BG-10, 10'
Date Collected: 11/15/22 14:15
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	39813	11/17/22 12:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39786	11/18/22 08:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39914	11/18/22 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39909	11/18/22 10:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39823	11/17/22 13:58	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39764	11/18/22 02:19	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	39796	11/17/22 11:59	KS	EET MID
Soluble	Analysis	300.0		1			39854	11/18/22 10:51	CH	EET MID

Client Sample ID: BG-11, 1'
Date Collected: 11/15/22 14:30
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39813	11/17/22 12:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39786	11/18/22 08:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39914	11/18/22 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39909	11/18/22 10:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39823	11/17/22 13:58	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39764	11/18/22 02:40	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	39796	11/17/22 11:59	KS	EET MID
Soluble	Analysis	300.0		1			39854	11/18/22 10:58	CH	EET MID

Client Sample ID: BG-11, 3'
Date Collected: 11/15/22 14:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21718-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39813	11/17/22 12:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39786	11/18/22 09:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39914	11/18/22 11:31	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Client Sample ID: BG-11, 3'

Lab Sample ID: 880-21718-34
Matrix: Solid
Date Collected: 11/15/22 14:45
Date Received: 11/17/22 10:33

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			39909	11/18/22 10:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39823	11/17/22 13:58	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39764	11/18/22 03:03	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39796	11/17/22 11:59	KS	EET MID
Soluble	Analysis	300.0		1			39854	11/18/22 11:05	CH	EET MID

Client Sample ID: BG-11, 5'

Lab Sample ID: 880-21718-35
Matrix: Solid
Date Collected: 11/15/22 15:00
Date Received: 11/17/22 10:33

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	39813	11/17/22 12:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39786	11/18/22 09:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39914	11/18/22 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39909	11/18/22 10:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39823	11/17/22 13:58	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39764	11/18/22 03:25	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39796	11/17/22 11:59	KS	EET MID
Soluble	Analysis	300.0		1			39854	11/18/22 11:12	CH	EET MID

Client Sample ID: BG-11, 10'

Lab Sample ID: 880-21718-36
Matrix: Solid
Date Collected: 11/15/22 15:15
Date Received: 11/17/22 10:33

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	39813	11/17/22 12:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39786	11/18/22 09:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39914	11/18/22 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39909	11/18/22 10:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	39823	11/17/22 13:58	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39764	11/18/22 03:46	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39796	11/17/22 11:59	KS	EET MID
Soluble	Analysis	300.0		1			39854	11/18/22 11:19	CH	EET MID

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

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

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	T104704400-22-24	06-30-23

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

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

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

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	MCAWW	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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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: Culebra Bluff SE 5 32

Job ID: 880-21718-1
SDG: 19-0180-07

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-21718-1	BG-3, 1'	Solid	11/14/22 12:00	11/17/22 10:33
880-21718-2	BG-3, 3'	Solid	11/14/22 12:15	11/17/22 10:33
880-21718-3	BG-3, 5'	Solid	11/14/22 12:30	11/17/22 10:33
880-21718-4	BG-3, 10'	Solid	11/14/22 12:45	11/17/22 10:33
880-21718-5	BG-4, 1'	Solid	11/14/22 13:00	11/17/22 10:33
880-21718-6	BG-4, 3'	Solid	11/14/22 13:15	11/17/22 10:33
880-21718-7	BG-4, 5'	Solid	11/14/22 13:30	11/17/22 10:33
880-21718-8	BG-4, 10'	Solid	11/14/22 13:45	11/17/22 10:33
880-21718-9	BG-6, 1'	Solid	11/14/22 14:00	11/17/22 10:33
880-21718-10	BG-6, 3'	Solid	11/14/22 14:15	11/17/22 10:33
880-21718-11	BG-6, 5'	Solid	11/14/22 14:30	11/17/22 10:33
880-21718-12	BG-6, 10'	Solid	11/14/22 14:45	11/17/22 10:33
880-21718-13	BG-5, 1'	Solid	11/15/22 09:30	11/17/22 10:33
880-21718-14	BG-5, 3'	Solid	11/15/22 09:45	11/17/22 10:33
880-21718-15	BG-5, 5'	Solid	11/15/22 10:00	11/17/22 10:33
880-21718-16	BG-5, 10'	Solid	11/15/22 10:15	11/17/22 10:33
880-21718-17	BG-9, 1'	Solid	11/15/22 10:30	11/17/22 10:33
880-21718-18	BG-9, 3'	Solid	11/15/22 10:45	11/17/22 10:33
880-21718-19	BG-9, 5'	Solid	11/15/22 11:00	11/17/22 10:33
880-21718-20	BG-9, 10'	Solid	11/15/22 11:15	11/17/22 10:33
880-21718-21	BG-7, 1'	Solid	11/15/22 11:30	11/17/22 10:33
880-21718-22	BG-7, 3'	Solid	11/15/22 11:45	11/17/22 10:33
880-21718-23	BG-7, 5'	Solid	11/15/22 12:00	11/17/22 10:33
880-21718-24	BG-7, 10'	Solid	11/15/22 12:15	11/17/22 10:33
880-21718-25	BG-8, 1'	Solid	11/15/22 12:30	11/17/22 10:33
880-21718-26	BG-8, 3'	Solid	11/15/22 12:45	11/17/22 10:33
880-21718-27	BG-8, 5'	Solid	11/15/22 13:00	11/17/22 10:33
880-21718-28	BG-8, 10'	Solid	11/15/22 13:15	11/17/22 10:33
880-21718-29	BG-10, 1'	Solid	11/15/22 13:30	11/17/22 10:33
880-21718-30	BG-10, 3'	Solid	11/15/22 13:45	11/17/22 10:33
880-21718-31	BG-10, 5'	Solid	11/15/22 14:00	11/17/22 10:33
880-21718-32	BG-10, 10'	Solid	11/15/22 14:15	11/17/22 10:33
880-21718-33	BG-11, 1'	Solid	11/15/22 14:30	11/17/22 10:33
880-21718-34	BG-11, 3'	Solid	11/15/22 14:45	11/17/22 10:33
880-21718-35	BG-11, 5'	Solid	11/15/22 15:00	11/17/22 10:33
880-21718-36	BG-11, 10'	Solid	11/15/22 15:15	11/17/22 10:33

Released to Imaging: 6/25/2024 3:25:17 PM
Received by OCD: 5/8/2024 10:38:54 AM

21718 No. 2866

CHAIN-OF-CUSTODY

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

Data Reported to

DATE 11/17/2022 PAGE 1 OF 3
PO# LAB WORK ORDER#
PROJECT LOCATION OR NAME Culebra Bluff SE S 32
LAI PROJECT #. 19-0180-07 COLLECTOR JH

TRRP report? ☐ Yes ☑ No

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

TIME ZONE
Time zone/State
MST/NM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES BTEX 8021 ☐ 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
B6-3, 1'		11/14/22	1200	S	1				X		X		X	X	X												X		202
B6-3, 3'			1215																										
B6-3, 5'			1230																										
B6-3, 10'			1245																										
B6-4, 1'			1300																										
B6-4, 3'			1315																										
B6-4, 5'			1330																										
B6-4, 10'			1345																										
B6-6, 1'			1400																										
B6-6, 3'			1415																										
B6-6, 5'			1430																										
B6-6, 10'			1445																										
B6-5, 1'		11/15/22	0930																										
B6-5, 3'			0945																										
B6-5, 5'			1000																										
TOTAL																													

880-21718 Chain of Custody

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
	11/17/22 1033	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 4.4/-4.1 THERM# IR8-36
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL #
☑ HAND DELIVERED

Released to Imaging: 6/25/2024 3:25:17 PM
Received by OCD: 5/8/2024 10:38:54 AM

21718 No. 2867

CHAIN-OF-CUSTODY

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

Data Reported to

DATE 11/17/2022 PAGE 2 OF 3
PO# LAB WORK ORDER#
PROJECT LOCATION OR NAME Culebra Bluff SE 5 32
LAI PROJECT # 19-0180-07 COLLECTOR JH

TRRP report? ☐ Yes ☑ No
TIME ZONE Time zone/State: MST/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 ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ANIONS ☐ ALKALINITY ☐	FIELD NOTES
B6-5, 10'		11/15/22	1015	S	1				X		X		X	X	X													X	
B6-9, 1'			1030																										
B6-9, 3'			1045																										
B6-9, 5'			1100																										
B6-9, 10'			1115																										
B6-7, 1'			1130																										
B6-7, 3'			1145																										
B6-7, 5'			1200																										
B6-7, 10'			1215																										
B6-8, 1'			1230																										
B6-8, 3'			1245																										
B6-8, 5'			1300																										
B6-8, 10'			1315																										
B6-10, 1'			1330																										
B6-10, 3'			1345																										
TOTAL																													

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
	11/17/22 1033	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

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

Released to Imaging: 6/25/2024 3:25:17 PM
Received by OCD: 5/8/2024 10:38:54 AM

21718 No. 2868

CHAIN-OF-CUSTODY

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

Data Reported to

DATE. 11/17/2022 PAGE 3 OF 3

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME Culebra Bluff SE S 32

LAI PROJECT #: 19-0180-07 COLLECTOR JH

TRRP report? ☐ Yes ☑ No

TIME ZONE
Time zone/State: MST/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 ☐	CHLORIDES ☒	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
B6-10, 5'		11/15/22	1400	S	1				X		X				X	X	X																									X			
B6-10, 10'		"	1415	"	"				"		"				"	"	"																									"			
B6-11, 1'		"	1430	"	"				"		"				"	"	"																									"			
B6-11, 3'		"	1445	"	"				"		"				"	"	"																									"			
B6-11, 5'		"	1500	"	"				"		"				"	"	"																									"			
B6-11, 10'		"	1515	"	"				"		"				"	"	"																									"			

Loc: 880
21718

TOTAL

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
	11/17/22 1033	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

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

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-21718-1
SDG Number: 19-0180-07

Login Number: 21718
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

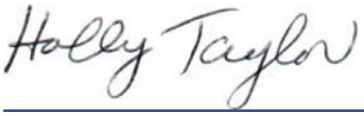
Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature 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 Midland

Job Notes

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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11/21/2022 11:53:03 AM

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

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report

Prepared for:

Mark Larson

Larson & Associates, Inc.

P.O. Box 50685

Midland, TX 79710

Project: Culebre Bluff Fed Com 3

Project Number: 19-0180-07

Location: New Mexico

Lab Order Number: 2D04008

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 04/11/22

Larson & Associates, Inc.	Project: Culebre Bluff Fed Com 3
P.O. Box 50685	Project Number: 19-0180-07
Midland TX, 79710	Project Manager: Mark Larson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C-56	2D04008-01	Soil	03/28/22 13:04	04-04-2022 09:58
C-57	2D04008-02	Soil	03/28/22 13:06	04-04-2022 09:58
C-63	2D04008-03	Soil	03/28/22 13:30	04-04-2022 09:58
C-65	2D04008-04	Soil	03/28/22 13:02	04-04-2022 09:58
C-89	2D04008-05	Soil	03/29/22 09:00	04-04-2022 09:58
C-90	2D04008-06	Soil	03/29/22 09:02	04-04-2022 09:58
C-91	2D04008-07	Soil	03/29/22 09:04	04-04-2022 09:58
C-92	2D04008-08	Soil	03/29/22 09:06	04-04-2022 09:58
C-2	2D04008-09	Soil	03/28/22 15:30	04-04-2022 09:58
C-10	2D04008-10	Soil	03/30/22 17:00	04-04-2022 09:58
C-11	2D04008-11	Soil	03/30/22 17:02	04-04-2022 09:58

Larson & Associates, Inc.	Project: Culebre Bluff Fed Com 3
P.O. Box 50685	Project Number: 19-0180-07
Midland TX, 79710	Project Manager: Mark Larson

C-56

2D04008-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 18:23	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 18:23	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 18:23	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 18:23	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 18:23	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		*P2D0503*	*04/05/22 13:36*	*04/05/22 18:23*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*107 %*	*80-120*		*P2D0503*	*04/05/22 13:36*	*04/05/22 18:23*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**321**	1.04	mg/kg dry	1	P2D0510	04/05/22 16:32	04/05/22 23:18	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P2D0602	04/06/22 10:39	04/06/22 10:58	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P2D0506	04/05/22 13:20	04/09/22 13:30	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P2D0506	04/05/22 13:20	04/09/22 13:30	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P2D0506	04/05/22 13:20	04/09/22 13:30	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.5 %*	*70-130*		*P2D0506*	*04/05/22 13:20*	*04/09/22 13:30*	*TPH 8015M*	
Surrogate: o-Terphenyl		*93.8 %*	*70-130*		*P2D0506*	*04/05/22 13:20*	*04/09/22 13:30*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	04/05/22 13:20	04/09/22 13:30	calc	

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Larson & Associates, Inc.	Project: Culebre Bluff Fed Com 3
P.O. Box 50685	Project Number: 19-0180-07
Midland TX, 79710	Project Manager: Mark Larson

C-57

2D04008-02 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 18:45	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 18:45	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 18:45	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 18:45	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 18:45	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P2D0503*	*04/05/22 13:36*	*04/05/22 18:45*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*106 %*	*80-120*		*P2D0503*	*04/05/22 13:36*	*04/05/22 18:45*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**375**	1.03	mg/kg dry	1	P2D0510	04/05/22 16:32	04/05/22 23:33	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P2D0602	04/06/22 10:39	04/06/22 10:58	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P2D0506	04/05/22 13:20	04/09/22 13:52	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P2D0506	04/05/22 13:20	04/09/22 13:52	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P2D0506	04/05/22 13:20	04/09/22 13:52	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.7 %*	*70-130*		*P2D0506*	*04/05/22 13:20*	*04/09/22 13:52*	*TPH 8015M*	
Surrogate: o-Terphenyl		*93.1 %*	*70-130*		*P2D0506*	*04/05/22 13:20*	*04/09/22 13:52*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	04/05/22 13:20	04/09/22 13:52	calc	

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Larson & Associates, Inc.	Project: Culebre Bluff Fed Com 3
P.O. Box 50685	Project Number: 19-0180-07
Midland TX, 79710	Project Manager: Mark Larson

C-63

2D04008-03 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00110	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 19:07	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 19:07	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 19:07	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 19:07	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 19:07	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		*P2D0503*	*04/05/22 13:36*	*04/05/22 19:07*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*106 %*	*80-120*		*P2D0503*	*04/05/22 13:36*	*04/05/22 19:07*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1230**	5.49	mg/kg dry	5	P2D0510	04/05/22 16:32	04/06/22 13:22	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P2D0602	04/06/22 10:39	04/06/22 10:58	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.5	mg/kg dry	1	P2D0506	04/05/22 13:20	04/09/22 14:14	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P2D0506	04/05/22 13:20	04/09/22 14:14	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P2D0506	04/05/22 13:20	04/09/22 14:14	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.9 %*	*70-130*		*P2D0506*	*04/05/22 13:20*	*04/09/22 14:14*	*TPH 8015M*	
Surrogate: o-Terphenyl		*93.9 %*	*70-130*		*P2D0506*	*04/05/22 13:20*	*04/09/22 14:14*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	04/05/22 13:20	04/09/22 14:14	calc	

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Larson & Associates, Inc.	Project: Culebre Bluff Fed Com 3
P.O. Box 50685	Project Number: 19-0180-07
Midland TX, 79710	Project Manager: Mark Larson

C-65

2D04008-04 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 19:28	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 19:28	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 19:28	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 19:28	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 19:28	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*105 %*	*80-120*		*P2D0503*	*04/05/22 13:36*	*04/05/22 19:28*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P2D0503*	*04/05/22 13:36*	*04/05/22 19:28*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**464**	1.04	mg/kg dry	1	P2D0510	04/05/22 16:32	04/06/22 00:04	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P2D0602	04/06/22 10:39	04/06/22 10:58	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P2D0506	04/05/22 13:20	04/09/22 14:35	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P2D0506	04/05/22 13:20	04/09/22 14:35	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P2D0506	04/05/22 13:20	04/09/22 14:35	TPH 8015M	
Surrogate: 1-Chlorooctane		*92.9 %*	*70-130*		*P2D0506*	*04/05/22 13:20*	*04/09/22 14:35*	*TPH 8015M*	
Surrogate: o-Terphenyl		*99.1 %*	*70-130*		*P2D0506*	*04/05/22 13:20*	*04/09/22 14:35*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	04/05/22 13:20	04/09/22 14:35	calc	

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Larson & Associates, Inc.	Project: Culebre Bluff Fed Com 3
P.O. Box 50685	Project Number: 19-0180-07
Midland TX, 79710	Project Manager: Mark Larson

C-89

2D04008-05 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 19:50	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 19:50	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 19:50	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 19:50	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 19:50	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*105 %*	*80-120*		*P2D0503*	*04/05/22 13:36*	*04/05/22 19:50*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*99.8 %*	*80-120*		*P2D0503*	*04/05/22 13:36*	*04/05/22 19:50*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1130**	5.15	mg/kg dry	5	P2D0510	04/05/22 16:32	04/06/22 13:38	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P2D0602	04/06/22 10:39	04/06/22 10:58	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P2D0506	04/05/22 13:20	04/09/22 14:57	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P2D0506	04/05/22 13:20	04/09/22 14:57	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P2D0506	04/05/22 13:20	04/09/22 14:57	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.4 %*	*70-130*		*P2D0506*	*04/05/22 13:20*	*04/09/22 14:57*	*TPH 8015M*	
Surrogate: o-Terphenyl		*92.9 %*	*70-130*		*P2D0506*	*04/05/22 13:20*	*04/09/22 14:57*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	04/05/22 13:20	04/09/22 14:57	calc	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Culebre Bluff Fed Com 3
P.O. Box 50685	Project Number: 19-0180-07
Midland TX, 79710	Project Manager: Mark Larson

C-90

2D04008-06 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 20:54	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 20:54	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 20:54	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 20:54	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 20:54	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*105 %*	*80-120*		*P2D0503*	*04/05/22 13:36*	*04/05/22 20:54*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*99.8 %*	*80-120*		*P2D0503*	*04/05/22 13:36*	*04/05/22 20:54*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1280**	5.32	mg/kg dry	5	P2D0510	04/05/22 16:32	04/06/22 13:53	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P2D0602	04/06/22 10:39	04/06/22 10:58	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P2D0506	04/05/22 13:20	04/09/22 15:19	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P2D0506	04/05/22 13:20	04/09/22 15:19	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P2D0506	04/05/22 13:20	04/09/22 15:19	TPH 8015M	
Surrogate: 1-Chlorooctane		*95.7 %*	*70-130*		*P2D0506*	*04/05/22 13:20*	*04/09/22 15:19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*99.0 %*	*70-130*		*P2D0506*	*04/05/22 13:20*	*04/09/22 15:19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	04/05/22 13:20	04/09/22 15:19	calc	

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Larson & Associates, Inc.	Project: Culebre Bluff Fed Com 3
P.O. Box 50685	Project Number: 19-0180-07
Midland TX, 79710	Project Manager: Mark Larson

C-91

2D04008-07 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 21:15	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 21:15	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 21:15	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 21:15	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 21:15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*106 %*	*80-120*		*P2D0503*	*04/05/22 13:36*	*04/05/22 21:15*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P2D0503*	*04/05/22 13:36*	*04/05/22 21:15*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1520**	5.38	mg/kg dry	5	P2D0607	04/06/22 13:57	04/06/22 17:51	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P2D0602	04/06/22 10:39	04/06/22 10:58	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P2D0506	04/05/22 13:20	04/09/22 15:41	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P2D0506	04/05/22 13:20	04/09/22 15:41	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P2D0506	04/05/22 13:20	04/09/22 15:41	TPH 8015M	
Surrogate: 1-Chlorooctane		*102 %*	*70-130*		*P2D0506*	*04/05/22 13:20*	*04/09/22 15:41*	*TPH 8015M*	
Surrogate: o-Terphenyl		*107 %*	*70-130*		*P2D0506*	*04/05/22 13:20*	*04/09/22 15:41*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	04/05/22 13:20	04/09/22 15:41	calc	

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Larson & Associates, Inc.	Project: Culebre Bluff Fed Com 3
P.O. Box 50685	Project Number: 19-0180-07
Midland TX, 79710	Project Manager: Mark Larson

C-92

2D04008-08 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 21:37	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 21:37	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 21:37	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 21:37	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 21:37	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*104 %*	*80-120*		*P2D0503*	*04/05/22 13:36*	*04/05/22 21:37*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*98.4 %*	*80-120*		*P2D0503*	*04/05/22 13:36*	*04/05/22 21:37*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1490**	5.43	mg/kg dry	5	P2D0607	04/06/22 13:57	04/06/22 18:07	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P2D0602	04/06/22 10:39	04/06/22 10:58	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P2D0506	04/05/22 13:20	04/09/22 16:03	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P2D0506	04/05/22 13:20	04/09/22 16:03	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P2D0506	04/05/22 13:20	04/09/22 16:03	TPH 8015M	
Surrogate: 1-Chlorooctane		*84.1 %*	*70-130*		*P2D0506*	*04/05/22 13:20*	*04/09/22 16:03*	*TPH 8015M*	
Surrogate: o-Terphenyl		*87.7 %*	*70-130*		*P2D0506*	*04/05/22 13:20*	*04/09/22 16:03*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	04/05/22 13:20	04/09/22 16:03	calc	

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Larson & Associates, Inc.	Project: Culebre Bluff Fed Com 3
P.O. Box 50685	Project Number: 19-0180-07
Midland TX, 79710	Project Manager: Mark Larson

C-2

2D04008-09 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 21:58	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 21:58	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 21:58	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 21:58	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 21:58	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*100 %*	*80-120*		*P2D0503*	*04/05/22 13:36*	*04/05/22 21:58*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*106 %*	*80-120*		*P2D0503*	*04/05/22 13:36*	*04/05/22 21:58*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1160**	1.05	mg/kg dry	1	P2D0607	04/06/22 13:57	04/06/22 18:22	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P2D0602	04/06/22 10:39	04/06/22 10:58	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P2D0509	04/05/22 15:45	04/09/22 19:19	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P2D0509	04/05/22 15:45	04/09/22 19:19	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P2D0509	04/05/22 15:45	04/09/22 19:19	TPH 8015M	
Surrogate: 1-Chlorooctane		*88.8 %*	*70-130*		*P2D0509*	*04/05/22 15:45*	*04/09/22 19:19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*93.1 %*	*70-130*		*P2D0509*	*04/05/22 15:45*	*04/09/22 19:19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	04/05/22 15:45	04/09/22 19:19	calc	

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Larson & Associates, Inc.	Project: Culebre Bluff Fed Com 3
P.O. Box 50685	Project Number: 19-0180-07
Midland TX, 79710	Project Manager: Mark Larson

C-10

2D04008-10 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00114	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 22:19	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 22:19	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 22:19	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 22:19	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 22:19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*97.5 %*	*80-120*		*P2D0503*	*04/05/22 13:36*	*04/05/22 22:19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*104 %*	*80-120*		*P2D0503*	*04/05/22 13:36*	*04/05/22 22:19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**204**	1.14	mg/kg dry	1	P2D0607	04/06/22 13:57	04/06/22 18:37	EPA 300.0	
% Moisture	**12.0**	0.1	%	1	P2D0602	04/06/22 10:39	04/06/22 10:58	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.4	mg/kg dry	1	P2D0509	04/05/22 15:45	04/09/22 19:41	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P2D0509	04/05/22 15:45	04/09/22 19:41	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P2D0509	04/05/22 15:45	04/09/22 19:41	TPH 8015M	
Surrogate: 1-Chlorooctane		*86.1 %*	*70-130*		*P2D0509*	*04/05/22 15:45*	*04/09/22 19:41*	*TPH 8015M*	
Surrogate: o-Terphenyl		*89.8 %*	*70-130*		*P2D0509*	*04/05/22 15:45*	*04/09/22 19:41*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	04/05/22 15:45	04/09/22 19:41	calc	

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Larson & Associates, Inc.	Project: Culebre Bluff Fed Com 3
P.O. Box 50685	Project Number: 19-0180-07
Midland TX, 79710	Project Manager: Mark Larson

C-11

2D04008-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00110	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 22:41	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 22:41	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 22:41	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 22:41	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P2D0503	04/05/22 13:36	04/05/22 22:41	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*98.6 %*		*80-120*		*P2D0503*	*04/05/22 13:36*	*04/05/22 22:41*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*105 %*		*80-120*		*P2D0503*	*04/05/22 13:36*	*04/05/22 22:41*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**82.4**	1.10	mg/kg dry	1	P2D0607	04/06/22 13:57	04/06/22 18:53	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P2D0602	04/06/22 10:39	04/06/22 10:58	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.5	mg/kg dry	1	P2D0509	04/05/22 15:45	04/09/22 20:02	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P2D0509	04/05/22 15:45	04/09/22 20:02	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P2D0509	04/05/22 15:45	04/09/22 20:02	TPH 8015M	
Surrogate: 1-Chlorooctane		*90.4 %*		*70-130*		*P2D0509*	*04/05/22 15:45*	*04/09/22 20:02*	*TPH 8015M*	
Surrogate: o-Terphenyl		*94.3 %*		*70-130*		*P2D0509*	*04/05/22 15:45*	*04/09/22 20:02*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	04/05/22 15:45	04/09/22 20:02	calc	

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Larson & Associates, Inc.	Project: Culebre Bluff Fed Com 3
P.O. Box 50685	Project Number: 19-0180-07
Midland TX, 79710	Project Manager: Mark Larson

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2D0503 - General Preparation (GC)										
Blank (P2D0503-BLK1)				Prepared & Analyzed: 04/05/22						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	*0.119*		"	*0.120*		*98.8*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.126*		"	*0.120*		*105*	*80-120*			
LCS (P2D0503-BS1)				Prepared & Analyzed: 04/05/22						
Benzene	0.100	0.00100	mg/kg wet	0.100		100	80-120			
Toluene	0.0978	0.00100	"	0.100		97.8	80-120			
Ethylbenzene	0.114	0.00100	"	0.100		114	80-120			
Xylene (p/m)	0.219	0.00200	"	0.200		110	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 4-Bromofluorobenzene	*0.115*		"	*0.120*		*96.0*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.124*		"	*0.120*		*103*	*80-120*			
LCS Dup (P2D0503-BSD1)				Prepared & Analyzed: 04/05/22						
Benzene	0.0939	0.00100	mg/kg wet	0.100		93.9	80-120	6.60	20	
Toluene	0.0934	0.00100	"	0.100		93.4	80-120	4.61	20	
Ethylbenzene	0.111	0.00100	"	0.100		111	80-120	2.81	20	
Xylene (p/m)	0.212	0.00200	"	0.200		106	80-120	3.44	20	
Xylene (o)	0.0994	0.00100	"	0.100		99.4	80-120	2.80	20	
Surrogate: 4-Bromofluorobenzene	*0.116*		"	*0.120*		*96.9*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.123*		"	*0.120*		*102*	*80-120*			
Calibration Check (P2D0503-CCV1)				Prepared & Analyzed: 04/05/22						
Benzene	0.0825	0.00100	mg/kg wet	0.0900		91.7	80-120			
Toluene	0.0801	0.00100	"	0.0900		89.0	80-120			
Ethylbenzene	0.0840	0.00100	"	0.0900		93.3	80-120			
Xylene (p/m)	0.173	0.00200	"	0.180		96.1	80-120			
Xylene (o)	0.0819	0.00100	"	0.0900		91.0	80-120			
Surrogate: 4-Bromofluorobenzene	*0.119*		"	*0.120*		*99.3*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.128*		"	*0.120*		*107*	*75-125*			

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Larson & Associates, Inc.	Project: Culebre Bluff Fed Com 3
P.O. Box 50685	Project Number: 19-0180-07
Midland TX, 79710	Project Manager: Mark Larson

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2D0503 - General Preparation (GC)										
Calibration Check (P2D0503-CCV2)				Prepared & Analyzed: 04/05/22						
Benzene	0.114	0.00100	mg/kg wet	0.100		114	80-120			
Toluene	0.110	0.00100	"	0.100		110	80-120			
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120			
Xylene (p/m)	0.239	0.00200	"	0.200		119	80-120			
Xylene (o)	0.114	0.00100	"	0.100		114	80-120			
Surrogate: 1,4-Difluorobenzene	*0.126*		*"*	*0.120*		*105*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.122*		*"*	*0.120*		*101*	*75-125*			
Calibration Check (P2D0503-CCV3)				Prepared: 04/05/22 Analyzed: 04/06/22						
Benzene	0.119	0.00100	mg/kg wet	0.100		119	80-120			
Toluene	0.116	0.00100	"	0.100		116	80-120			
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120			
Xylene (p/m)	0.245	0.00200	"	0.200		122	80-120			Z7
Xylene (o)	0.118	0.00100	"	0.100		118	80-120			
Surrogate: 4-Bromofluorobenzene	*0.116*		*"*	*0.120*		*96.6*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.123*		*"*	*0.120*		*103*	*75-125*			
Matrix Spike (P2D0503-MS1)		**Source: 2D05006-04**		Prepared: 04/05/22 Analyzed: 04/06/22						
Benzene	0.0501	0.00101	mg/kg dry	0.101	ND	49.6	80-120			QM-05
Toluene	0.0423	0.00101	"	0.101	ND	41.9	80-120			QM-05
Ethylbenzene	0.0419	0.00101	"	0.101	ND	41.5	80-120			QM-05
Xylene (p/m)	0.0787	0.00202	"	0.202	ND	39.0	80-120			QM-05
Xylene (o)	0.0389	0.00101	"	0.101	ND	38.5	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	*0.129*		*"*	*0.121*		*106*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.122*		*"*	*0.121*		*101*	*80-120*			
Matrix Spike Dup (P2D0503-MSD1)		**Source: 2D05006-04**		Prepared: 04/05/22 Analyzed: 04/06/22						
Benzene	0.0582	0.00101	mg/kg dry	0.101	ND	57.7	80-120	15.1	20	QM-05
Toluene	0.0490	0.00101	"	0.101	ND	48.5	80-120	14.6	20	QM-05
Ethylbenzene	0.0472	0.00101	"	0.101	ND	46.7	80-120	11.7	20	QM-05
Xylene (p/m)	0.0865	0.00202	"	0.202	ND	42.8	80-120	9.45	20	QM-05
Xylene (o)	0.0419	0.00101	"	0.101	ND	41.5	80-120	7.35	20	QM-05
Surrogate: 4-Bromofluorobenzene	*0.125*		*"*	*0.121*		*103*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.129*		*"*	*0.121*		*106*	*80-120*			

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Larson & Associates, Inc.	Project: Culebre Bluff Fed Com 3
P.O. Box 50685	Project Number: 19-0180-07
Midland TX, 79710	Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2D0510 - * DEFAULT PREP *** **										
Blank (P2D0510-BLK1)				Prepared & Analyzed: 04/05/22						
Chloride	ND	1.00	mg/kg wet							
LCS (P2D0510-BS1)				Prepared & Analyzed: 04/05/22						
Chloride	40.4		mg/kg	40.0		101	90-110			
LCS Dup (P2D0510-BSD1)				Prepared & Analyzed: 04/05/22						
Chloride	41.2		mg/kg	40.0		103	90-110	2.07	10	
Calibration Check (P2D0510-CCV1)				Prepared & Analyzed: 04/05/22						
Chloride	19.8		mg/kg	20.0		98.9	90-110			
Calibration Check (P2D0510-CCV2)				Prepared & Analyzed: 04/05/22						
Chloride	20.2		mg/kg	20.0		101	90-110			
Calibration Check (P2D0510-CCV3)				Prepared: 04/05/22 Analyzed: 04/06/22						
Chloride	20.3		mg/kg	20.0		102	90-110			
Matrix Spike (P2D0510-MS1)		**Source: 2D01006-02**		Prepared & Analyzed: 04/05/22						
Chloride	2010	5.68	mg/kg dry	284	1610	142	80-120			QM-05
Matrix Spike (P2D0510-MS2)		**Source: 2D01006-11**		Prepared & Analyzed: 04/05/22						
Chloride	1820	5.56	mg/kg dry	278	1470	124	80-120			QM-05
Matrix Spike Dup (P2D0510-MSD1)		**Source: 2D01006-02**		Prepared & Analyzed: 04/05/22						
Chloride	2000	5.68	mg/kg dry	284	1610	140	80-120	0.292	20	QM-05
Matrix Spike Dup (P2D0510-MSD2)		**Source: 2D01006-11**		Prepared & Analyzed: 04/05/22						
Chloride	1810	5.56	mg/kg dry	278	1470	120	80-120	0.601	20	

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Larson & Associates, Inc.	Project: Culebre Bluff Fed Com 3
P.O. Box 50685	Project Number: 19-0180-07
Midland TX, 79710	Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2D0602 - * DEFAULT PREP *** **										
Blank (P2D0602-BLK1)				Prepared & Analyzed: 04/06/22						
% Moisture	ND	0.1	%							
Blank (P2D0602-BLK2)				Prepared & Analyzed: 04/06/22						
% Moisture	ND	0.1	%							
Blank (P2D0602-BLK3)				Prepared & Analyzed: 04/06/22						
% Moisture	ND	0.1	%							
Blank (P2D0602-BLK4)				Prepared & Analyzed: 04/06/22						
% Moisture	ND	0.1	%							
Duplicate (P2D0602-DUP1)		**Source: 2D04008-10**		Prepared & Analyzed: 04/06/22						
% Moisture	12.0	0.1	%		12.0			0.00	20	
Duplicate (P2D0602-DUP2)		**Source: 2D04009-09**		Prepared & Analyzed: 04/06/22						
% Moisture	5.0	0.1	%		5.0			0.00	20	
Duplicate (P2D0602-DUP3)		**Source: 2D04009-24**		Prepared & Analyzed: 04/06/22						
% Moisture	9.0	0.1	%		9.0			0.00	20	
Duplicate (P2D0602-DUP4)		**Source: 2D04009-34**		Prepared & Analyzed: 04/06/22						
% Moisture	7.0	0.1	%		6.0			15.4	20	
Duplicate (P2D0602-DUP5)		**Source: 2D04016-01**		Prepared & Analyzed: 04/06/22						
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P2D0602-DUP6)		**Source: 2D04017-07**		Prepared & Analyzed: 04/06/22						
% Moisture	7.0	0.1	%		7.0			0.00	20	

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Larson & Associates, Inc.	Project: Culebre Bluff Fed Com 3
P.O. Box 50685	Project Number: 19-0180-07
Midland TX, 79710	Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2D0602 - * DEFAULT PREP *** **										
Duplicate (P2D0602-DUP7)	**Source: 2D04022-02**			Prepared & Analyzed: 04/06/22						
% Moisture	3.0	0.1	%		3.0			0.00	20	
Batch P2D0607 - * DEFAULT PREP *** **										
Blank (P2D0607-BLK1)				Prepared & Analyzed: 04/06/22						
Chloride	ND	1.00	mg/kg wet							
LCS (P2D0607-BS1)				Prepared & Analyzed: 04/06/22						
Chloride	41.7		mg/kg	40.0		104	90-110			
LCS Dup (P2D0607-BSD1)				Prepared & Analyzed: 04/06/22						
Chloride	42.0		mg/kg	40.0		105	90-110	0.626	10	
Calibration Blank (P2D0607-CCB1)				Prepared & Analyzed: 04/06/22						
Chloride	0.103		mg/kg wet							
Calibration Blank (P2D0607-CCB2)				Prepared & Analyzed: 04/06/22						
Chloride	0.169		mg/kg wet							
Calibration Check (P2D0607-CCV1)				Prepared & Analyzed: 04/06/22						
Chloride	20.7		mg/kg	20.0		103	90-110			
Calibration Check (P2D0607-CCV2)				Prepared & Analyzed: 04/06/22						
Chloride	20.6		mg/kg	20.0		103	90-110			
Calibration Check (P2D0607-CCV3)				Prepared & Analyzed: 04/06/22						
Chloride	20.3		mg/kg	20.0		102	90-110			

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Culebre Bluff Fed Com 3
P.O. Box 50685	Project Number: 19-0180-07
Midland TX, 79710	Project Manager: Mark Larson

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2D0607 - * DEFAULT PREP *** **										
Matrix Spike (P2D0607-MS1)	**Source: 2D05010-01**			Prepared & Analyzed: 04/06/22						
Chloride	2310	5.56	mg/kg dry	278	1890	151	80-120			QM-05
Matrix Spike (P2D0607-MS2)	**Source: 2D04009-02**			Prepared & Analyzed: 04/06/22						
Chloride	411	1.06	mg/kg dry	266	147	99.3	80-120			
Matrix Spike Dup (P2D0607-MSD1)	**Source: 2D05010-01**			Prepared & Analyzed: 04/06/22						
Chloride	2340	5.56	mg/kg dry	278	1890	160	80-120	1.12	20	QM-05
Matrix Spike Dup (P2D0607-MSD2)	**Source: 2D04009-02**			Prepared & Analyzed: 04/06/22						
Chloride	412	1.06	mg/kg dry	266	147	99.6	80-120	0.222	20	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Culebre Bluff Fed Com 3
P.O. Box 50685	Project Number: 19-0180-07
Midland TX, 79710	Project Manager: Mark Larson

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2D0506 - * DEFAULT PREP *** **										
Blank (P2D0506-BLK1)				Prepared: 04/05/22 Analyzed: 04/09/22						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*84.5*		"	*100*		*84.5*	*70-130*			
Surrogate: o-Terphenyl	*44.2*		"	*50.0*		*88.3*	*70-130*			
LCS (P2D0506-BS1)				Prepared: 04/05/22 Analyzed: 04/09/22						
C6-C12	806	25.0	mg/kg wet	1000		80.6	75-125			
>C12-C28	891	25.0	"	1000		89.1	75-125			
Surrogate: 1-Chlorooctane	*120*		"	*100*		*120*	*70-130*			
Surrogate: o-Terphenyl	*48.8*		"	*50.0*		*97.7*	*70-130*			
LCS Dup (P2D0506-BSD1)				Prepared: 04/05/22 Analyzed: 04/09/22						
C6-C12	813	25.0	mg/kg wet	1000		81.3	75-125	0.850	20	
>C12-C28	889	25.0	"	1000		88.9	75-125	0.224	20	
Surrogate: 1-Chlorooctane	*116*		"	*100*		*116*	*70-130*			
Surrogate: o-Terphenyl	*51.0*		"	*50.0*		*102*	*70-130*			
Calibration Check (P2D0506-CCV1)				Prepared: 04/05/22 Analyzed: 04/11/22						
C6-C12	476	25.0	mg/kg wet	500		95.2	85-115			
>C12-C28	481	25.0	"	500		96.3	85-115			
Surrogate: 1-Chlorooctane	*128*		"	*100*		*128*	*70-130*			
Surrogate: o-Terphenyl	*60.2*		"	*50.0*		*120*	*70-130*			
Calibration Check (P2D0506-CCV2)				Prepared: 04/05/22 Analyzed: 04/09/22						
C6-C12	482	25.0	mg/kg wet	500		96.3	85-115			
>C12-C28	470	25.0	"	500		94.1	85-115			
Surrogate: 1-Chlorooctane	*112*		"	*100*		*112*	*70-130*			
Surrogate: o-Terphenyl	*49.2*		"	*50.0*		*98.5*	*70-130*			

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Culebre Bluff Fed Com 3
P.O. Box 50685	Project Number: 19-0180-07
Midland TX, 79710	Project Manager: Mark Larson

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2D0506 - * DEFAULT PREP *** **										
Matrix Spike (P2D0506-MS1)	**Source: 2D04008-08**			Prepared: 04/05/22 Analyzed: 04/09/22						
C6-C12	751	27.2	mg/kg dry	1090	16.6	67.6	75-125			QM-05
>C12-C28	823	27.2	"	1090	ND	75.7	75-125			
Surrogate: 1-Chlorooctane	*106*		*"*	*109*		*97.8*	*70-130*			
Surrogate: o-Terphenyl	*43.3*		*"*	*54.3*		*79.7*	*70-130*			
Matrix Spike Dup (P2D0506-MSD1)	**Source: 2D04008-08**			Prepared: 04/05/22 Analyzed: 04/09/22						
C6-C12	783	27.2	mg/kg dry	1090	16.6	70.5	75-125	4.21	20	QM-05
>C12-C28	850	27.2	"	1090	ND	78.2	75-125	3.24	20	
Surrogate: 1-Chlorooctane	*107*		*"*	*109*		*98.1*	*70-130*			
Surrogate: o-Terphenyl	*43.1*		*"*	*54.3*		*79.3*	*70-130*			
Batch P2D0509 - * DEFAULT PREP *** **										
Blank (P2D0509-BLK1)				Prepared: 04/05/22 Analyzed: 04/09/22						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*102*		*"*	*100*		*102*	*70-130*			
Surrogate: o-Terphenyl	*53.7*		*"*	*50.0*		*107*	*70-130*			
LCS (P2D0509-BS1)				Prepared: 04/05/22 Analyzed: 04/09/22						
C6-C12	875	25.0	mg/kg wet	1000		87.5	75-125			
>C12-C28	940	25.0	"	1000		94.0	75-125			
Surrogate: 1-Chlorooctane	*120*		*"*	*100*		*120*	*70-130*			
Surrogate: o-Terphenyl	*53.0*		*"*	*50.0*		*106*	*70-130*			
LCS Dup (P2D0509-BSD1)				Prepared: 04/05/22 Analyzed: 04/09/22						
C6-C12	895	25.0	mg/kg wet	1000		89.5	75-125	2.25	20	
>C12-C28	951	25.0	"	1000		95.1	75-125	1.14	20	
Surrogate: 1-Chlorooctane	*104*		*"*	*100*		*104*	*70-130*			
Surrogate: o-Terphenyl	*57.6*		*"*	*50.0*		*115*	*70-130*			

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Larson & Associates, Inc.	Project: Culebre Bluff Fed Com 3
P.O. Box 50685	Project Number: 19-0180-07
Midland TX, 79710	Project Manager: Mark Larson

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P2D0509 - * DEFAULT PREP *** **										
Calibration Check (P2D0509-CCV1)				Prepared: 04/05/22 Analyzed: 04/09/22						
C6-C12	478	25.0	mg/kg wet	500		95.7	85-115			
>C12-C28	479	25.0	"	500		95.7	85-115			
Surrogate: 1-Chlorooctane	*118*		*"*	*100*		*118*	*70-130*			
Surrogate: o-Terphenyl	*53.0*		*"*	*50.0*		*106*	*70-130*			
Calibration Check (P2D0509-CCV2)				Prepared: 04/05/22 Analyzed: 04/09/22						
C6-C12	477	25.0	mg/kg wet	500		95.5	85-115			
>C12-C28	497	25.0	"	500		99.3	85-115			
Surrogate: 1-Chlorooctane	*121*		*"*	*100*		*121*	*70-130*			
Surrogate: o-Terphenyl	*54.4*		*"*	*50.0*		*109*	*70-130*			
Matrix Spike (P2D0509-MS1)	**Source: 2D04009-26**			Prepared: 04/05/22 Analyzed: 04/10/22						
C6-C12	789	26.6	mg/kg dry	1060	17.8	72.5	75-125			QM-05
>C12-C28	862	26.6	"	1060	18.4	79.3	75-125			
Surrogate: 1-Chlorooctane	*116*		*"*	*106*		*109*	*70-130*			
Surrogate: o-Terphenyl	*49.4*		*"*	*53.2*		*92.9*	*70-130*			
Matrix Spike Dup (P2D0509-MSD1)	**Source: 2D04009-26**			Prepared: 04/05/22 Analyzed: 04/10/22						
C6-C12	792	26.6	mg/kg dry	1060	17.8	72.8	75-125	0.438	20	QM-05
>C12-C28	859	26.6	"	1060	18.4	79.0	75-125	0.303	20	
Surrogate: 1-Chlorooctane	*104*		*"*	*106*		*98.1*	*70-130*			
Surrogate: o-Terphenyl	*44.3*		*"*	*53.2*		*83.2*	*70-130*			

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Culebre Bluff Fed Com 3
P.O. Box 50685	Project Number: 19-0180-07
Midland TX, 79710	Project Manager: Mark Larson

Notes and Definitions

Z7	CCV recovery was outside the recommended acceptance limits due to spiking error. QC batch accepted based on LCS/LCSD recoveries and RPD.
ROI	Received on Ice
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
NPBEL C(	Chain of Custody was not generated at PBELAB
BULK	Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 4/11/2022

Brent Barron, Laboratory Director/Technical Director

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.	Project: Culebre Bluff Fed Com 3
P.O. Box 50685	Project Number: 19-0180-07
Midland TX, 79710	Project Manager: Mark Larson

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LTB

№ 1949

CHAIN-OF-CUSTOD

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

DATE: 4/4/22 PAGE 1 OF

PO#: LAB WORK ORDER#: 2D04008

PROJECT LOCATION OR NAME: Culebra Bluff Fed Com 3

LAI PROJECT #: 19-0180-07 COLLECTOR: JR

Data Reported to:

TRRP report? ☐ Yes ☐ No

TIME ZONE: Time zone/State:

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

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

ANALYSES: BTEX ☒ 8021B ☐ MTBE ☐ | TRPH 418.1 ☐ | GASOLINE MOD 8015 ☐ TPH 1005 ☐ TPH 1006 ☐ | DIESEL - MOD 8015 ☒ | OIL - MOD 8015 ☐ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES	FIELD NOTES
C-56	1	3/28	13:04	S	1				X		X X X X X	
C-57	2	3/28	13:06	S	1				X		X X X X X	
C-63	3	3/28	13:30	S	1				X		X X X X X	
C-65	4	3/28	13:02	S	1				X		X X X X X	
C-89	5	3/29	9:00	S	1				X		X X X X X	
C-90	6	3/29	9:02	S	1				X		X X X X X	
C-91	7	3/29	9:04	S	1				X		X X X X X	
C-92	8	3/29	9:06	S	1				X		X X X X X	
C-2	9	3/28	15:36	S	1				X		X X X X X	
C-10	10	3/30	17:00	S	1				X		X X X X X	
C-11	11	3/30	17:02	S	1				X		X X X X X	

TOTAL 11

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
Jen Ds	4/4/22 9:58	Tina Bledsoe
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)

LABORATORY: PBE Labs

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

LABORATORY USE ONLY:
RECEIVING TEMP: -13.1 -12.1 THERM#: CF1 L2
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Received by OCD: 5/8/2024 10:36:54 AM

Released to Imaging: 6/25/2024 3:25:17 PM

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PBELAB

DOC #: PBEL_SAMPLE_CHECKLIST
REVISION #: PBEL_2021_1
REVISION Date: 10/30/2021
EFFECTIVE DATE: 10/30/2021

Sample Receipt Checklist

Yes		Notes
✓	Chain of custody present?	
	Chain of custody signed/dated/time when relinquished and received?	
	Sample date/time present on COC for all samples?	
	Samplers name present on COC?	
	Chain of Custody agrees with sample labels?	
	Sample containers intact?	
X	Custody seals intact on sample bottles?	
✓	Samples in proper container/bottle?	
	Sufficient sample volume for indicated test?	
	All samples received within holding time?	
	Samples received within appropriate temp?	-12.1
	Analysis requested for all samples submitted?	
	Shipping container/cooler in good condition?	
	Custody seals intact on shipping container/cooler?	

Login Notes:
203 2D04008

PBELAB

DOC #: PBEL_SAMPLE_CHECKLIST
REVISION #: PBEL_2021_1
REVISION Date: 10/30/2021
EFFECTIVE DATE: 10/30/2021

SAMPLE VARIANCE/NON-CONFORMANCE

Variance/Discrepancy:

Resolution:

Client Contacted

Name:

Date/Time:

NC Initiated by:_____ Approved by:_____

Received by OCD: 5/8/2024 10:38:54 AM

Released to Imaging: 6/25/2024 3:25:17 PM

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-10005-1
Laboratory Sample Delivery Group: 19-0180-07
Client Project/Site: Culebre Bluff

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

Holly Taylor

Authorized for release by:
1/18/2022 11:08:36 AM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Laboratory Job ID: 880-10005-1
SDG: 19-0180-07

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-10005-1
Project/Site: Culebre Bluff SDG: 19-0180-07

Qualifiers

GC 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.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

Job ID: 880-10005-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-10005-1

Receipt
The samples were received on 1/10/2022 8:54 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.2°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-16392 and analytical batch 880-16475 were outside control limits. The associated laboratory control sample (LCS) recovery was within acceptance limits; therefore data was accepted.

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

GC Semi VOA
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-16424 and analytical batch 880-16336 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-21 (880-10005-21), C-27 (880-10005-27), C-39 (880-10005-39), C-48 (880-10005-48), C-49 (880-10005-49), C-50 (880-10005-50), C-51 (880-10005-51), (880-10005-A-48-E MS) and (880-10005-A-48-F MSD). Evidence of matrix interferences is not obvious.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-16446 and analytical batch 880-16870 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

Client Sample ID: C-1

Date Collected: 01/07/22 10:00
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/10/22 10:10	01/11/22 11:10	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/10/22 10:10	01/11/22 11:10	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/10/22 10:10	01/11/22 11:10	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/10/22 10:10	01/11/22 11:10	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/10/22 10:10	01/11/22 11:10	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/10/22 10:10	01/11/22 11:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*01/10/22 10:10*	*01/11/22 11:10*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*01/10/22 10:10*	*01/11/22 11:10*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/13/22 13:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/10/22 11:10	01/11/22 14:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/10/22 11:10	01/11/22 14:38	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/10/22 11:10	01/11/22 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*01/10/22 11:10*	*01/11/22 14:38*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*01/10/22 11:10*	*01/11/22 14:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**358**		5.04		mg/Kg			01/15/22 18:07	1

Client Sample ID: C-2

Date Collected: 01/07/22 10:02
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/10/22 10:10	01/11/22 11:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/22 10:10	01/11/22 11:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/22 10:10	01/11/22 11:31	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/10/22 10:10	01/11/22 11:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/22 10:10	01/11/22 11:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/22 10:10	01/11/22 11:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*01/10/22 10:10*	*01/11/22 11:31*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*01/10/22 10:10*	*01/11/22 11:31*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10005-1
Project/Site: Culebre Bluff SDG: 19-0180-07

Client Sample ID: C-2 Lab Sample ID: 880-10005-2

Date Collected: 01/07/22 10:02 **Matrix: Solid**
Date Received: 01/10/22 08:54

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/13/22 13:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**299**		50.0		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 15:40	1
Diesel Range Organics (Over C10-C28)	**299**		50.0		mg/Kg		01/10/22 11:10	01/11/22 15:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*01/10/22 11:10*	*01/11/22 15:40*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*01/10/22 11:10*	*01/11/22 15:40*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3210**		24.9		mg/Kg			01/15/22 18:15	5

Client Sample ID: C-3 Lab Sample ID: 880-10005-3

Date Collected: 01/07/22 10:04 **Matrix: Solid**
Date Received: 01/10/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:10	01/11/22 11:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:10	01/11/22 11:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:10	01/11/22 11:51	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/10/22 10:10	01/11/22 11:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:10	01/11/22 11:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/10/22 10:10	01/11/22 11:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*01/10/22 10:10*	*01/11/22 11:51*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*01/10/22 10:10*	*01/11/22 11:51*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/13/22 13:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/10/22 11:10	01/11/22 16:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/10/22 11:10	01/11/22 16:00	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10005-1
Project/Site: Culebre Bluff SDG: 19-0180-07

Client Sample ID: C-3 Lab Sample ID: 880-10005-3

Date Collected: 01/07/22 10:04 **Matrix: Solid**
Date Received: 01/10/22 08:54

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/10/22 11:10	01/11/22 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*01/10/22 11:10*	*01/11/22 16:00*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*01/10/22 11:10*	*01/11/22 16:00*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2240**		24.8		mg/Kg			01/15/22 18:23	5

Client Sample ID: C-4 Lab Sample ID: 880-10005-4

Date Collected: 01/07/22 10:06 **Matrix: Solid**
Date Received: 01/10/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:10	01/11/22 12:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:10	01/11/22 12:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:10	01/11/22 12:12	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/10/22 10:10	01/11/22 12:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:10	01/11/22 12:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/10/22 10:10	01/11/22 12:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*01/10/22 10:10*	*01/11/22 12:12*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*01/10/22 10:10*	*01/11/22 12:12*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/13/22 13:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/10/22 11:10	01/11/22 16:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/10/22 11:10	01/11/22 16:21	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/10/22 11:10	01/11/22 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*91*		*70 - 130*	*01/10/22 11:10*	*01/11/22 16:21*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*01/10/22 11:10*	*01/11/22 16:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**695**		4.99		mg/Kg			01/15/22 18:32	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

Client Sample ID: C-5

Date Collected: 01/07/22 10:08
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-5
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:10	01/11/22 12:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:10	01/11/22 12:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:10	01/11/22 12:32	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/10/22 10:10	01/11/22 12:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:10	01/11/22 12:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/10/22 10:10	01/11/22 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*01/10/22 10:10*	*01/11/22 12:32*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*01/10/22 10:10*	*01/11/22 12:32*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/13/22 13:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 16:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 16:41	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*01/10/22 11:10*	*01/11/22 16:41*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*01/10/22 11:10*	*01/11/22 16:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1440**		5.00		mg/Kg			01/17/22 14:04	1

Client Sample ID: C-6

Date Collected: 01/07/22 10:10
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-6
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/10/22 10:10	01/11/22 12:52	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/10/22 10:10	01/11/22 12:52	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/10/22 10:10	01/11/22 12:52	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		01/10/22 10:10	01/11/22 12:52	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/10/22 10:10	01/11/22 12:52	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/10/22 10:10	01/11/22 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*01/10/22 10:10*	*01/11/22 12:52*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*01/10/22 10:10*	*01/11/22 12:52*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10005-1
Project/Site: Culebre Bluff SDG: 19-0180-07

Client Sample ID: C-6 Lab Sample ID: 880-10005-6

Date Collected: 01/07/22 10:10 **Matrix: Solid**
Date Received: 01/10/22 08:54

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/13/22 13:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 17:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 17:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*01/10/22 11:10*	*01/11/22 17:02*	*1*
o-Terphenyl (Surr)	*100*		*70 - 130*	*01/10/22 11:10*	*01/11/22 17:02*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1900**		25.0		mg/Kg			01/15/22 18:58	5

Client Sample ID: C-7 Lab Sample ID: 880-10005-7

Date Collected: 01/07/22 10:12 **Matrix: Solid**
Date Received: 01/10/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/10/22 10:10	01/11/22 13:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/22 10:10	01/11/22 13:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/22 10:10	01/11/22 13:13	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/10/22 10:10	01/11/22 13:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/22 10:10	01/11/22 13:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/22 10:10	01/11/22 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*01/10/22 10:10*	*01/11/22 13:13*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*01/10/22 10:10*	*01/11/22 13:13*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/13/22 13:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 17:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 17:23	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10005-1
Project/Site: Culebre Bluff SDG: 19-0180-07

Client Sample ID: C-7 Lab Sample ID: 880-10005-7

Date Collected: 01/07/22 10:12 **Matrix: Solid**
Date Received: 01/10/22 08:54

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*01/10/22 11:10*	*01/11/22 17:23*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*01/10/22 11:10*	*01/11/22 17:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1500**		25.0		mg/Kg			01/15/22 19:07	5

Client Sample ID: C-8 Lab Sample ID: 880-10005-8

Date Collected: 01/07/22 10:14 **Matrix: Solid**
Date Received: 01/10/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/10/22 10:10	01/11/22 13:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/22 10:10	01/11/22 13:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/22 10:10	01/11/22 13:33	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/10/22 10:10	01/11/22 13:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/22 10:10	01/11/22 13:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/22 10:10	01/11/22 13:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*01/10/22 10:10*	*01/11/22 13:33*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*01/10/22 10:10*	*01/11/22 13:33*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/13/22 13:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/10/22 11:10	01/11/22 17:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/10/22 11:10	01/11/22 17:43	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/10/22 11:10	01/11/22 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*01/10/22 11:10*	*01/11/22 17:43*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*01/10/22 11:10*	*01/11/22 17:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2150**		24.9		mg/Kg			01/15/22 19:15	5

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10005-1
Project/Site: Culebre Bluff SDG: 19-0180-07

Client Sample ID: C-9 Lab Sample ID: 880-10005-9

Date Collected: 01/07/22 10:16 **Matrix: Solid**
Date Received: 01/10/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:10	01/11/22 13:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:10	01/11/22 13:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:10	01/11/22 13:54	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/10/22 10:10	01/11/22 13:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:10	01/11/22 13:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/10/22 10:10	01/11/22 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*140*	*S1+*	*70 - 130*	*01/10/22 10:10*	*01/11/22 13:54*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*01/10/22 10:10*	*01/11/22 13:54*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/13/22 13:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 18:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 18:04	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*88*		*70 - 130*	*01/10/22 11:10*	*01/11/22 18:04*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*01/10/22 11:10*	*01/11/22 18:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2080**		49.5		mg/Kg			01/15/22 19:23	10

Client Sample ID: C-10 Lab Sample ID: 880-10005-10

Date Collected: 01/07/22 10:18 **Matrix: Solid**
Date Received: 01/10/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/10/22 10:10	01/11/22 14:14	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/10/22 10:10	01/11/22 14:14	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/10/22 10:10	01/11/22 14:14	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		01/10/22 10:10	01/11/22 14:14	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/10/22 10:10	01/11/22 14:14	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/10/22 10:10	01/11/22 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*149*	*S1+*	*70 - 130*	*01/10/22 10:10*	*01/11/22 14:14*	*1*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*	*01/10/22 10:10*	*01/11/22 14:14*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10005-1
Project/Site: Culebre Bluff SDG: 19-0180-07

Client Sample ID: C-10 Lab Sample ID: 880-10005-10

Date Collected: 01/07/22 10:18 **Matrix: Solid**
Date Received: 01/10/22 08:54

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/13/22 13:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 18:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 18:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*01/10/22 11:10*	*01/11/22 18:25*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*01/10/22 11:10*	*01/11/22 18:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1950**	**F1**	24.9		mg/Kg			01/15/22 19:32	5

Client Sample ID: C-11 Lab Sample ID: 880-10005-11

Date Collected: 01/07/22 10:20 **Matrix: Solid**
Date Received: 01/10/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/10/22 10:10	01/11/22 15:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/10/22 10:10	01/11/22 15:36	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/10/22 10:10	01/11/22 15:36	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/10/22 10:10	01/11/22 15:36	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/10/22 10:10	01/11/22 15:36	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/10/22 10:10	01/11/22 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*01/10/22 10:10*	*01/11/22 15:36*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*01/10/22 10:10*	*01/11/22 15:36*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/13/22 13:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 19:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 19:07	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10005-1
Project/Site: Culebre Bluff SDG: 19-0180-07

Client Sample ID: C-11 Lab Sample ID: 880-10005-11

Date Collected: 01/07/22 10:20 **Matrix: Solid**
Date Received: 01/10/22 08:54

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*01/10/22 11:10*	*01/11/22 19:07*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*01/10/22 11:10*	*01/11/22 19:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1500**		25.0		mg/Kg			01/15/22 19:57	5

Client Sample ID: C-12 Lab Sample ID: 880-10005-12

Date Collected: 01/07/22 10:22 **Matrix: Solid**
Date Received: 01/10/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:10	01/11/22 15:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:10	01/11/22 15:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:10	01/11/22 15:57	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		01/10/22 10:10	01/11/22 15:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:10	01/11/22 15:57	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/10/22 10:10	01/11/22 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*01/10/22 10:10*	*01/11/22 15:57*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*01/10/22 10:10*	*01/11/22 15:57*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/13/22 13:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 19:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 19:28	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*01/10/22 11:10*	*01/11/22 19:28*	*1*
o-Terphenyl (Surr)	*101*		*70 - 130*	*01/10/22 11:10*	*01/11/22 19:28*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**846**		5.02		mg/Kg			01/15/22 20:05	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

Client Sample ID: C-13

Date Collected: 01/07/22 10:24
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-13
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/10/22 10:10	01/11/22 16:17	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/10/22 10:10	01/11/22 16:17	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/10/22 10:10	01/11/22 16:17	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		01/10/22 10:10	01/11/22 16:17	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/10/22 10:10	01/11/22 16:17	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/10/22 10:10	01/11/22 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*01/10/22 10:10*	*01/11/22 16:17*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/10/22 10:10*	*01/11/22 16:17*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/13/22 13:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 19:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 19:49	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*118*		*70 - 130*	*01/10/22 11:10*	*01/11/22 19:49*	*1*
o-Terphenyl (Surr)	*118*		*70 - 130*	*01/10/22 11:10*	*01/11/22 19:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1160**		4.98		mg/Kg			01/15/22 20:30	1

Client Sample ID: C-14

Date Collected: 01/07/22 10:26
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-14
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/10/22 10:10	01/11/22 16:37	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/10/22 10:10	01/11/22 16:37	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/10/22 10:10	01/11/22 16:37	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		01/10/22 10:10	01/11/22 16:37	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/10/22 10:10	01/11/22 16:37	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/10/22 10:10	01/11/22 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*01/10/22 10:10*	*01/11/22 16:37*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*01/10/22 10:10*	*01/11/22 16:37*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10005-1
Project/Site: Culebre Bluff SDG: 19-0180-07

Client Sample ID: C-14
Date Collected: 01/07/22 10:26
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-14
Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/13/22 13:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/10/22 11:10	01/11/22 20:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/10/22 11:10	01/11/22 20:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/10/22 11:10	01/11/22 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*01/10/22 11:10*	*01/11/22 20:10*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*01/10/22 11:10*	*01/11/22 20:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2380**		25.1		mg/Kg			01/15/22 20:38	5

Client Sample ID: C-15
Date Collected: 01/07/22 10:28
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-15
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/10/22 10:10	01/11/22 16:58	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/10/22 10:10	01/11/22 16:58	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/10/22 10:10	01/11/22 16:58	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		01/10/22 10:10	01/11/22 16:58	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/10/22 10:10	01/11/22 16:58	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		01/10/22 10:10	01/11/22 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*01/10/22 10:10*	*01/11/22 16:58*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*01/10/22 10:10*	*01/11/22 16:58*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			01/13/22 13:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 20:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 20:32	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10005-1
Project/Site: Culebre Bluff SDG: 19-0180-07

Client Sample ID: C-15 Lab Sample ID: 880-10005-15

Date Collected: 01/07/22 10:28 **Matrix: Solid**
Date Received: 01/10/22 08:54

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 20:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*01/10/22 11:10*	*01/11/22 20:32*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*01/10/22 11:10*	*01/11/22 20:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1340**		25.0		mg/Kg			01/15/22 20:47	5

Client Sample ID: C-16 Lab Sample ID: 880-10005-16

Date Collected: 01/07/22 10:30 **Matrix: Solid**
Date Received: 01/10/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:10	01/11/22 17:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:10	01/11/22 17:18	1
Ethylbenzene	**0.00335**		0.00200		mg/Kg		01/10/22 10:10	01/11/22 17:18	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/10/22 10:10	01/11/22 17:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:10	01/11/22 17:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/10/22 10:10	01/11/22 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*01/10/22 10:10*	*01/11/22 17:18*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*01/10/22 10:10*	*01/11/22 17:18*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/13/22 13:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/10/22 11:10	01/11/22 20:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/10/22 11:10	01/11/22 20:53	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/10/22 11:10	01/11/22 20:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*92*		*70 - 130*	*01/10/22 11:10*	*01/11/22 20:53*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*01/10/22 11:10*	*01/11/22 20:53*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1580**		24.8		mg/Kg			01/15/22 20:55	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

Client Sample ID: C-17

Date Collected: 01/07/22 10:32
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-17
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/10/22 10:10	01/11/22 17:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/22 10:10	01/11/22 17:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/22 10:10	01/11/22 17:39	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/10/22 10:10	01/11/22 17:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/22 10:10	01/11/22 17:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/22 10:10	01/11/22 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*01/10/22 10:10*	*01/11/22 17:39*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*01/10/22 10:10*	*01/11/22 17:39*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/13/22 13:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**120**		49.9		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/10/22 11:10	01/11/22 21:15	1
Diesel Range Organics (Over C10-C28)	**120**		49.9		mg/Kg		01/10/22 11:10	01/11/22 21:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/10/22 11:10	01/11/22 21:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*82*		*70 - 130*	*01/10/22 11:10*	*01/11/22 21:15*	*1*
o-Terphenyl (Surr)	*82*		*70 - 130*	*01/10/22 11:10*	*01/11/22 21:15*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1410**		25.0		mg/Kg			01/15/22 21:03	5

Client Sample ID: C-18

Date Collected: 01/07/22 10:34
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-18
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/10/22 10:10	01/11/22 17:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/22 10:10	01/11/22 17:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/22 10:10	01/11/22 17:59	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/10/22 10:10	01/11/22 17:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/22 10:10	01/11/22 17:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/22 10:10	01/11/22 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*01/10/22 10:10*	*01/11/22 17:59*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/10/22 10:10*	*01/11/22 17:59*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

Client Sample ID: C-18

Date Collected: 01/07/22 10:34
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-18
Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/13/22 13:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 21:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 21:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*96*		*70 - 130*	*01/10/22 11:10*	*01/11/22 21:37*	*1*
o-Terphenyl (Surr)	*97*		*70 - 130*	*01/10/22 11:10*	*01/11/22 21:37*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2820**		25.0		mg/Kg			01/15/22 21:12	5

Client Sample ID: C-19

Date Collected: 01/07/22 10:36
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-19
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/10/22 10:10	01/11/22 18:19	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/10/22 10:10	01/11/22 18:19	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/10/22 10:10	01/11/22 18:19	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		01/10/22 10:10	01/11/22 18:19	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/10/22 10:10	01/11/22 18:19	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/10/22 10:10	01/11/22 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*01/10/22 10:10*	*01/11/22 18:19*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*01/10/22 10:10*	*01/11/22 18:19*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/13/22 13:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 21:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 21:58	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10005-1
Project/Site: Culebre Bluff SDG: 19-0180-07

Client Sample ID: C-19 Lab Sample ID: 880-10005-19

Date Collected: 01/07/22 10:36 **Matrix: Solid**
Date Received: 01/10/22 08:54

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 21:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*01/10/22 11:10*	*01/11/22 21:58*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*01/10/22 11:10*	*01/11/22 21:58*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2570**		25.2		mg/Kg			01/15/22 21:20	5

Client Sample ID: C-20 Lab Sample ID: 880-10005-20

Date Collected: 01/07/22 10:38 **Matrix: Solid**
Date Received: 01/10/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:10	01/11/22 18:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:10	01/11/22 18:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:10	01/11/22 18:40	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		01/10/22 10:10	01/11/22 18:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:10	01/11/22 18:40	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/10/22 10:10	01/11/22 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*01/10/22 10:10*	*01/11/22 18:40*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*01/10/22 10:10*	*01/11/22 18:40*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/13/22 13:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 22:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 22:20	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/22 11:10	01/11/22 22:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*01/10/22 11:10*	*01/11/22 22:20*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*01/10/22 11:10*	*01/11/22 22:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**34.1**		24.8		mg/Kg			01/14/22 17:18	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

Client Sample ID: C-21

Date Collected: 01/07/22 10:40
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-21
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199		mg/Kg		01/10/22 10:13	01/11/22 17:02	1
Toluene	<0.00199	U F1	0.00199		mg/Kg		01/10/22 10:13	01/11/22 17:02	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		01/10/22 10:13	01/11/22 17:02	1
m,p-Xylenes	<0.00398	U F1	0.00398		mg/Kg		01/10/22 10:13	01/11/22 17:02	1
o-Xylene	<0.00199	U F1	0.00199		mg/Kg		01/10/22 10:13	01/11/22 17:02	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		01/10/22 10:13	01/11/22 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*01/10/22 10:13*	*01/11/22 17:02*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*01/10/22 10:13*	*01/11/22 17:02*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/12/22 08:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/10/22 11:50	01/11/22 11:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/10/22 11:50	01/11/22 11:42	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/10/22 11:50	01/11/22 11:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*69*	*S1-*	*70 - 130*	*01/10/22 11:50*	*01/11/22 11:42*	*1*
o-Terphenyl (Surr)	*72*		*70 - 130*	*01/10/22 11:50*	*01/11/22 11:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98		mg/Kg			01/14/22 16:41	1

Client Sample ID: C-22

Date Collected: 01/07/22 10:42
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-22
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:13	01/11/22 17:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:13	01/11/22 17:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:13	01/11/22 17:23	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		01/10/22 10:13	01/11/22 17:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:13	01/11/22 17:23	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/10/22 10:13	01/11/22 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*01/10/22 10:13*	*01/11/22 17:23*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*01/10/22 10:13*	*01/11/22 17:23*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

Client Sample ID: C-22

Date Collected: 01/07/22 10:42
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-22

Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/12/22 08:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 12:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 12:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 12:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*74*		*70 - 130*	*01/10/22 11:50*	*01/11/22 12:43*	*1*
o-Terphenyl (Surr)	*76*		*70 - 130*	*01/10/22 11:50*	*01/11/22 12:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U F1	5.00		mg/Kg			01/14/22 16:47	1

Client Sample ID: C-23

Date Collected: 01/07/22 10:44
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-23

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/10/22 10:13	01/11/22 17:44	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/10/22 10:13	01/11/22 17:44	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/10/22 10:13	01/11/22 17:44	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/10/22 10:13	01/11/22 17:44	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/10/22 10:13	01/11/22 17:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/10/22 10:13	01/11/22 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*01/10/22 10:13*	*01/11/22 17:44*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*01/10/22 10:13*	*01/11/22 17:44*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/12/22 08:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/10/22 11:50	01/11/22 13:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/10/22 11:50	01/11/22 13:04	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10005-1
Project/Site: Culebre Bluff SDG: 19-0180-07

Client Sample ID: C-23 Lab Sample ID: 880-10005-23

Date Collected: 01/07/22 10:44 **Matrix: Solid**
Date Received: 01/10/22 08:54

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/10/22 11:50	01/11/22 13:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*71*		*70 - 130*	*01/10/22 11:50*	*01/11/22 13:04*	*1*
o-Terphenyl (Surr)	*73*		*70 - 130*	*01/10/22 11:50*	*01/11/22 13:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95		mg/Kg			01/14/22 16:53	1

Client Sample ID: C-24 Lab Sample ID: 880-10005-24

Date Collected: 01/07/22 10:46 **Matrix: Solid**
Date Received: 01/10/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:13	01/11/22 18:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:13	01/11/22 18:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:13	01/11/22 18:04	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/10/22 10:13	01/11/22 18:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:13	01/11/22 18:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/10/22 10:13	01/11/22 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*01/10/22 10:13*	*01/11/22 18:04*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*01/10/22 10:13*	*01/11/22 18:04*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/12/22 08:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/10/22 11:50	01/11/22 13:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/10/22 11:50	01/11/22 13:24	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/10/22 11:50	01/11/22 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*71*		*70 - 130*	*01/10/22 11:50*	*01/11/22 13:24*	*1*
o-Terphenyl (Surr)	*74*		*70 - 130*	*01/10/22 11:50*	*01/11/22 13:24*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**123**		4.98		mg/Kg			01/14/22 13:35	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

Client Sample ID: C-25

Lab Sample ID: 880-10005-25
Matrix: Solid
Date Collected: 01/07/22 10:48
Date Received: 01/10/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/10/22 10:13	01/11/22 18:25	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/10/22 10:13	01/11/22 18:25	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/10/22 10:13	01/11/22 18:25	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		01/10/22 10:13	01/11/22 18:25	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/10/22 10:13	01/11/22 18:25	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/10/22 10:13	01/11/22 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*01/10/22 10:13*	*01/11/22 18:25*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*01/10/22 10:13*	*01/11/22 18:25*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/12/22 08:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 13:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 13:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*71*		*70 - 130*	*01/10/22 11:50*	*01/11/22 13:44*	*1*
o-Terphenyl (Surr)	*74*		*70 - 130*	*01/10/22 11:50*	*01/11/22 13:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**847**		5.04		mg/Kg			01/17/22 17:42	1

Client Sample ID: C-26

Lab Sample ID: 880-10005-26
Matrix: Solid
Date Collected: 01/07/22 10:50
Date Received: 01/10/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:13	01/11/22 18:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:13	01/11/22 18:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:13	01/11/22 18:46	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/10/22 10:13	01/11/22 18:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:13	01/11/22 18:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/10/22 10:13	01/11/22 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*01/10/22 10:13*	*01/11/22 18:46*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/10/22 10:13*	*01/11/22 18:46*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10005-1
Project/Site: Culebre Bluff SDG: 19-0180-07

Client Sample ID: C-26 Lab Sample ID: 880-10005-26

Date Collected: 01/07/22 10:50 **Matrix: Solid**
Date Received: 01/10/22 08:54

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/12/22 08:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 14:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 14:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*74*		*70 - 130*	*01/10/22 11:50*	*01/11/22 14:05*	*1*
o-Terphenyl (Surr)	*78*		*70 - 130*	*01/10/22 11:50*	*01/11/22 14:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2450**		24.8		mg/Kg			01/17/22 17:50	5

Client Sample ID: C-27 Lab Sample ID: 880-10005-27

Date Collected: 01/07/22 10:52 **Matrix: Solid**
Date Received: 01/10/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:13	01/11/22 19:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:13	01/11/22 19:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:13	01/11/22 19:07	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/10/22 10:13	01/11/22 19:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:13	01/11/22 19:07	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/10/22 10:13	01/11/22 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*01/10/22 10:13*	*01/11/22 19:07*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*01/10/22 10:13*	*01/11/22 19:07*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/12/22 08:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 14:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 14:26	1

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Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10005-1
Project/Site: Culebre Bluff SDG: 19-0180-07

Client Sample ID: C-27 Lab Sample ID: 880-10005-27

Date Collected: 01/07/22 10:52 **Matrix: Solid**
Date Received: 01/10/22 08:54

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*69*	*S1-*	*70 - 130*	*01/10/22 11:50*	*01/11/22 14:26*	*1*
o-Terphenyl (Surr)	*71*		*70 - 130*	*01/10/22 11:50*	*01/11/22 14:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2740**		25.1		mg/Kg			01/17/22 17:59	5

Client Sample ID: C-28 Lab Sample ID: 880-10005-28

Date Collected: 01/07/22 10:54 **Matrix: Solid**
Date Received: 01/10/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/10/22 10:13	01/11/22 19:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/22 10:13	01/11/22 19:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/22 10:13	01/11/22 19:27	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/10/22 10:13	01/11/22 19:27	1
o-Xylene	**0.00326**		0.00199		mg/Kg		01/10/22 10:13	01/11/22 19:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/22 10:13	01/11/22 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*01/10/22 10:13*	*01/11/22 19:27*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*01/10/22 10:13*	*01/11/22 19:27*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/12/22 08:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**83.3**		49.9		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/10/22 11:50	01/11/22 14:46	1
Diesel Range Organics (Over C10-C28)	**83.3**		49.9		mg/Kg		01/10/22 11:50	01/11/22 14:46	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/10/22 11:50	01/11/22 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*72*		*70 - 130*	*01/10/22 11:50*	*01/11/22 14:46*	*1*
o-Terphenyl (Surr)	*76*		*70 - 130*	*01/10/22 11:50*	*01/11/22 14:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**163**		25.0		mg/Kg			01/17/22 18:41	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

Client Sample ID: C-29

Date Collected: 01/07/22 10:56
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-29
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/10/22 10:13	01/11/22 19:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/22 10:13	01/11/22 19:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/22 10:13	01/11/22 19:48	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/10/22 10:13	01/11/22 19:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/22 10:13	01/11/22 19:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/22 10:13	01/11/22 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*01/10/22 10:13*	*01/11/22 19:48*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*01/10/22 10:13*	*01/11/22 19:48*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/12/22 08:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 15:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 15:07	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*73*		*70 - 130*	*01/10/22 11:50*	*01/11/22 15:07*	*1*
o-Terphenyl (Surr)	*76*		*70 - 130*	*01/10/22 11:50*	*01/11/22 15:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2870**		24.8		mg/Kg			01/17/22 18:49	5

Client Sample ID: C-30

Date Collected: 01/07/22 10:58
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-30
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/10/22 10:13	01/11/22 20:09	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/10/22 10:13	01/11/22 20:09	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/10/22 10:13	01/11/22 20:09	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		01/10/22 10:13	01/11/22 20:09	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/10/22 10:13	01/11/22 20:09	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/10/22 10:13	01/11/22 20:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*01/10/22 10:13*	*01/11/22 20:09*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*01/10/22 10:13*	*01/11/22 20:09*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

Client Sample ID: C-30

Date Collected: 01/07/22 10:58
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-30

Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/12/22 08:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 15:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 15:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 15:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*74*		*70 - 130*	*01/10/22 11:50*	*01/11/22 15:27*	*1*
o-Terphenyl (Surr)	*77*		*70 - 130*	*01/10/22 11:50*	*01/11/22 15:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2700**		25.0		mg/Kg			01/17/22 18:58	5

Client Sample ID: C-31

Date Collected: 01/07/22 11:00
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-31

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/10/22 10:13	01/11/22 21:34	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/10/22 10:13	01/11/22 21:34	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/10/22 10:13	01/11/22 21:34	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/10/22 10:13	01/11/22 21:34	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/10/22 10:13	01/11/22 21:34	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/10/22 10:13	01/11/22 21:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*01/10/22 10:13*	*01/11/22 21:34*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*01/10/22 10:13*	*01/11/22 21:34*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/12/22 08:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**614**		50.0		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 16:44	1
Diesel Range Organics (Over C10-C28)	**614**		50.0		mg/Kg		01/10/22 11:50	01/11/22 16:44	1

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Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10005-1
Project/Site: Culebre Bluff SDG: 19-0180-07

Client Sample ID: C-31 Lab Sample ID: 880-10005-31

Date Collected: 01/07/22 11:00 **Matrix: Solid**
Date Received: 01/10/22 08:54

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 16:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*77*		*70 - 130*	*01/10/22 11:50*	*01/11/22 16:44*	*1*
o-Terphenyl (Surr)	*84*		*70 - 130*	*01/10/22 11:50*	*01/11/22 16:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1820**		25.0		mg/Kg			01/17/22 19:06	5

Client Sample ID: C-32 Lab Sample ID: 880-10005-32

Date Collected: 01/07/22 11:02 **Matrix: Solid**
Date Received: 01/10/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/10/22 10:13	01/11/22 21:55	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/10/22 10:13	01/11/22 21:55	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/10/22 10:13	01/11/22 21:55	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/10/22 10:13	01/11/22 21:55	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/10/22 10:13	01/11/22 21:55	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/10/22 10:13	01/11/22 21:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*01/10/22 10:13*	*01/11/22 21:55*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*01/10/22 10:13*	*01/11/22 21:55*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/12/22 08:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 17:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 17:05	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*77*		*70 - 130*	*01/10/22 11:50*	*01/11/22 17:05*	*1*
o-Terphenyl (Surr)	*80*		*70 - 130*	*01/10/22 11:50*	*01/11/22 17:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2710**		24.8		mg/Kg			01/14/22 21:37	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

Client Sample ID: C-33

Date Collected: 01/07/22 11:04
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-33

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/10/22 10:13	01/11/22 22:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/22 10:13	01/11/22 22:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/22 10:13	01/11/22 22:16	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/10/22 10:13	01/11/22 22:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/22 10:13	01/11/22 22:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/22 10:13	01/11/22 22:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*01/10/22 10:13*	*01/11/22 22:16*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*01/10/22 10:13*	*01/11/22 22:16*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/12/22 08:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 19:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 19:05	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*81*		*70 - 130*	*01/10/22 11:50*	*01/11/22 19:05*	*1*
o-Terphenyl (Surr)	*82*		*70 - 130*	*01/10/22 11:50*	*01/11/22 19:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1600**		25.3		mg/Kg			01/14/22 22:13	5

Client Sample ID: C-34

Date Collected: 01/07/22 11:06
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-34

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:13	01/11/22 22:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:13	01/11/22 22:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:13	01/11/22 22:37	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		01/10/22 10:13	01/11/22 22:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:13	01/11/22 22:37	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/10/22 10:13	01/11/22 22:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*01/10/22 10:13*	*01/11/22 22:37*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*01/10/22 10:13*	*01/11/22 22:37*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10005-1
Project/Site: Culebre Bluff SDG: 19-0180-07

Client Sample ID: C-34 Lab Sample ID: 880-10005-34

Date Collected: 01/07/22 11:06 **Matrix: Solid**
Date Received: 01/10/22 08:54

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/12/22 08:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/10/22 11:50	01/11/22 19:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/10/22 11:50	01/11/22 19:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/10/22 11:50	01/11/22 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*70*		*70 - 130*	*01/10/22 11:50*	*01/11/22 19:27*	*1*
o-Terphenyl (Surr)	*72*		*70 - 130*	*01/10/22 11:50*	*01/11/22 19:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2840**		24.9		mg/Kg			01/14/22 22:24	5

Client Sample ID: C-35 Lab Sample ID: 880-10005-35

Date Collected: 01/07/22 11:08 **Matrix: Solid**
Date Received: 01/10/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/10/22 10:13	01/11/22 22:58	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/10/22 10:13	01/11/22 22:58	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/10/22 10:13	01/11/22 22:58	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		01/10/22 10:13	01/11/22 22:58	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/10/22 10:13	01/11/22 22:58	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/10/22 10:13	01/11/22 22:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*01/10/22 10:13*	*01/11/22 22:58*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*01/10/22 10:13*	*01/11/22 22:58*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/12/22 08:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 19:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 19:50	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10005-1
Project/Site: Culebre Bluff SDG: 19-0180-07

Client Sample ID: C-35 Lab Sample ID: 880-10005-35

Date Collected: 01/07/22 11:08 **Matrix: Solid**
Date Received: 01/10/22 08:54

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*72*		*70 - 130*	*01/10/22 11:50*	*01/11/22 19:50*	*1*
o-Terphenyl (Surr)	*75*		*70 - 130*	*01/10/22 11:50*	*01/11/22 19:50*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2920**		25.0		mg/Kg			01/14/22 22:36	5

Client Sample ID: C-36 Lab Sample ID: 880-10005-36

Date Collected: 01/07/22 11:10 **Matrix: Solid**
Date Received: 01/10/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/10/22 10:13	01/11/22 23:19	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/10/22 10:13	01/11/22 23:19	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/10/22 10:13	01/11/22 23:19	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		01/10/22 10:13	01/11/22 23:19	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/10/22 10:13	01/11/22 23:19	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/10/22 10:13	01/11/22 23:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*01/10/22 10:13*	*01/11/22 23:19*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*01/10/22 10:13*	*01/11/22 23:19*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/12/22 08:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/10/22 11:50	01/11/22 20:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/10/22 11:50	01/11/22 20:11	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/10/22 11:50	01/11/22 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*72*		*70 - 130*	*01/10/22 11:50*	*01/11/22 20:11*	*1*
o-Terphenyl (Surr)	*79*		*70 - 130*	*01/10/22 11:50*	*01/11/22 20:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3620**		25.0		mg/Kg			01/14/22 22:48	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

Client Sample ID: C-37

Date Collected: 01/07/22 11:12
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-37
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:13	01/11/22 23:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:13	01/11/22 23:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:13	01/11/22 23:40	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/10/22 10:13	01/11/22 23:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:13	01/11/22 23:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/10/22 10:13	01/11/22 23:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*01/10/22 10:13*	*01/11/22 23:40*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*01/10/22 10:13*	*01/11/22 23:40*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/12/22 08:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**68.9**		49.9		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/10/22 11:50	01/11/22 20:33	1
Diesel Range Organics (Over C10-C28)	**68.9**		49.9		mg/Kg		01/10/22 11:50	01/11/22 20:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/10/22 11:50	01/11/22 20:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*79*		*70 - 130*	*01/10/22 11:50*	*01/11/22 20:33*	*1*
o-Terphenyl (Surr)	*83*		*70 - 130*	*01/10/22 11:50*	*01/11/22 20:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3340**		24.8		mg/Kg			01/14/22 23:24	5

Client Sample ID: C-38

Date Collected: 01/07/22 11:14
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-38
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/10/22 10:13	01/12/22 00:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/10/22 10:13	01/12/22 00:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/22 10:13	01/12/22 00:00	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/10/22 10:13	01/12/22 00:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/22 10:13	01/12/22 00:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/22 10:13	01/12/22 00:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*01/10/22 10:13*	*01/12/22 00:00*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*01/10/22 10:13*	*01/12/22 00:00*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10005-1
Project/Site: Culebre Bluff SDG: 19-0180-07

Client Sample ID: C-38 Lab Sample ID: 880-10005-38

Date Collected: 01/07/22 11:14 **Matrix: Solid**
Date Received: 01/10/22 08:54

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/12/22 08:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 20:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 20:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*71*		*70 - 130*	*01/10/22 11:50*	*01/11/22 20:56*	*1*
o-Terphenyl (Surr)	*74*		*70 - 130*	*01/10/22 11:50*	*01/11/22 20:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2710**		24.9		mg/Kg			01/14/22 23:36	5

Client Sample ID: C-39 Lab Sample ID: 880-10005-39

Date Collected: 01/07/22 11:16 **Matrix: Solid**
Date Received: 01/10/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/10/22 10:13	01/12/22 00:22	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/10/22 10:13	01/12/22 00:22	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/10/22 10:13	01/12/22 00:22	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		01/10/22 10:13	01/12/22 00:22	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/10/22 10:13	01/12/22 00:22	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		01/10/22 10:13	01/12/22 00:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*01/10/22 10:13*	*01/12/22 00:22*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*01/10/22 10:13*	*01/12/22 00:22*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			01/12/22 08:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 21:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 21:19	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10005-1
Project/Site: Culebre Bluff SDG: 19-0180-07

Client Sample ID: C-39 Lab Sample ID: 880-10005-39

Date Collected: 01/07/22 11:16 **Matrix: Solid**
Date Received: 01/10/22 08:54

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 21:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*60*	*S1-*	*70 - 130*	*01/10/22 11:50*	*01/11/22 21:19*	*1*
o-Terphenyl (Surr)	*62*	*S1-*	*70 - 130*	*01/10/22 11:50*	*01/11/22 21:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2070**		24.8		mg/Kg			01/14/22 23:47	5

Client Sample ID: C-40 Lab Sample ID: 880-10005-40

Date Collected: 01/07/22 11:18 **Matrix: Solid**
Date Received: 01/10/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:13	01/12/22 00:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:13	01/12/22 00:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:13	01/12/22 00:43	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/10/22 10:13	01/12/22 00:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:13	01/12/22 00:43	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/10/22 10:13	01/12/22 00:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*01/10/22 10:13*	*01/12/22 00:43*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*01/10/22 10:13*	*01/12/22 00:43*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/12/22 08:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 21:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 21:41	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 21:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*71*		*70 - 130*	*01/10/22 11:50*	*01/11/22 21:41*	*1*
o-Terphenyl (Surr)	*72*		*70 - 130*	*01/10/22 11:50*	*01/11/22 21:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1740**		25.2		mg/Kg			01/14/22 23:59	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

Client Sample ID: C-41

Date Collected: 01/07/22 11:20
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-41
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		01/11/22 08:00	01/11/22 22:03	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		01/11/22 08:00	01/11/22 22:03	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		01/11/22 08:00	01/11/22 22:03	1
m,p-Xylenes	<0.00399	U F1	0.00399		mg/Kg		01/11/22 08:00	01/11/22 22:03	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		01/11/22 08:00	01/11/22 22:03	1
Xylenes, Total	<0.00399	U F1	0.00399		mg/Kg		01/11/22 08:00	01/11/22 22:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*01/11/22 08:00*	*01/11/22 22:03*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*01/11/22 08:00*	*01/11/22 22:03*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/13/22 13:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/10/22 11:18	01/11/22 02:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/22 11:18	01/11/22 02:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/22 11:18	01/11/22 02:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*01/10/22 11:18*	*01/11/22 02:10*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*01/10/22 11:18*	*01/11/22 02:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**869**		4.99		mg/Kg			01/15/22 00:11	1

Client Sample ID: C-42

Date Collected: 01/07/22 11:22
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-42
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/11/22 08:00	01/11/22 22:23	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/11/22 08:00	01/11/22 22:23	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/11/22 08:00	01/11/22 22:23	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		01/11/22 08:00	01/11/22 22:23	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/11/22 08:00	01/11/22 22:23	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/11/22 08:00	01/11/22 22:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*01/11/22 08:00*	*01/11/22 22:23*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*01/11/22 08:00*	*01/11/22 22:23*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10005-1
Project/Site: Culebre Bluff SDG: 19-0180-07

Client Sample ID: C-42 Lab Sample ID: 880-10005-42

Date Collected: 01/07/22 11:22 **Matrix: Solid**
Date Received: 01/10/22 08:54

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/13/22 13:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/10/22 11:18	01/11/22 02:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/22 11:18	01/11/22 02:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/22 11:18	01/11/22 02:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*01/10/22 11:18*	*01/11/22 02:30*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*01/10/22 11:18*	*01/11/22 02:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1770**		25.0		mg/Kg			01/15/22 00:23	5

Client Sample ID: C-43 Lab Sample ID: 880-10005-43

Date Collected: 01/07/22 11:24 **Matrix: Solid**
Date Received: 01/10/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/11/22 08:00	01/11/22 22:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/11/22 08:00	01/11/22 22:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/11/22 08:00	01/11/22 22:44	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/11/22 08:00	01/11/22 22:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/11/22 08:00	01/11/22 22:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/11/22 08:00	01/11/22 22:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*01/11/22 08:00*	*01/11/22 22:44*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*01/11/22 08:00*	*01/11/22 22:44*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/13/22 13:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/10/22 11:18	01/11/22 02:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/22 11:18	01/11/22 02:51	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10005-1
Project/Site: Culebre Bluff SDG: 19-0180-07

Client Sample ID: C-43 Lab Sample ID: 880-10005-43

Date Collected: 01/07/22 11:24 **Matrix: Solid**
Date Received: 01/10/22 08:54

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/22 11:18	01/11/22 02:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*108*		*70 - 130*	*01/10/22 11:18*	*01/11/22 02:51*	*1*
o-Terphenyl (Surr)	*115*		*70 - 130*	*01/10/22 11:18*	*01/11/22 02:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**222**		4.98		mg/Kg			01/15/22 00:58	1

Client Sample ID: C-44 Lab Sample ID: 880-10005-44

Date Collected: 01/07/22 11:26 **Matrix: Solid**
Date Received: 01/10/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/11/22 08:00	01/11/22 23:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/11/22 08:00	01/11/22 23:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/11/22 08:00	01/11/22 23:05	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		01/11/22 08:00	01/11/22 23:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/11/22 08:00	01/11/22 23:05	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/11/22 08:00	01/11/22 23:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*01/11/22 08:00*	*01/11/22 23:05*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*01/11/22 08:00*	*01/11/22 23:05*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/13/22 13:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/10/22 11:18	01/11/22 03:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/10/22 11:18	01/11/22 03:12	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/10/22 11:18	01/11/22 03:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*91*		*70 - 130*	*01/10/22 11:18*	*01/11/22 03:12*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*01/10/22 11:18*	*01/11/22 03:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**933**		4.95		mg/Kg			01/15/22 01:10	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10005-1
Project/Site: Culebre Bluff SDG: 19-0180-07

Client Sample ID: C-45 Lab Sample ID: 880-10005-45

Date Collected: 01/07/22 11:28 **Matrix: Solid**
Date Received: 01/10/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/11/22 08:00	01/11/22 23:25	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/11/22 08:00	01/11/22 23:25	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/11/22 08:00	01/11/22 23:25	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/11/22 08:00	01/11/22 23:25	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/11/22 08:00	01/11/22 23:25	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/11/22 08:00	01/11/22 23:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*01/11/22 08:00*	*01/11/22 23:25*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*01/11/22 08:00*	*01/11/22 23:25*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/13/22 13:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/10/22 11:18	01/11/22 03:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/22 11:18	01/11/22 03:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/22 11:18	01/11/22 03:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*87*		*70 - 130*	*01/10/22 11:18*	*01/11/22 03:32*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*01/10/22 11:18*	*01/11/22 03:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**991**		5.01		mg/Kg			01/15/22 01:46	1

Client Sample ID: C-46 Lab Sample ID: 880-10005-46

Date Collected: 01/07/22 11:30 **Matrix: Solid**
Date Received: 01/10/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/11/22 08:00	01/11/22 23:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/11/22 08:00	01/11/22 23:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/11/22 08:00	01/11/22 23:46	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/11/22 08:00	01/11/22 23:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/11/22 08:00	01/11/22 23:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/11/22 08:00	01/11/22 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*01/11/22 08:00*	*01/11/22 23:46*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*01/11/22 08:00*	*01/11/22 23:46*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10005-1
Project/Site: Culebre Bluff SDG: 19-0180-07

Client Sample ID: C-46 Lab Sample ID: 880-10005-46

Date Collected: 01/07/22 11:30 **Matrix: Solid**
Date Received: 01/10/22 08:54

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/13/22 13:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/10/22 11:18	01/11/22 03:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/10/22 11:18	01/11/22 03:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/10/22 11:18	01/11/22 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*91*		*70 - 130*	*01/10/22 11:18*	*01/11/22 03:53*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*01/10/22 11:18*	*01/11/22 03:53*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**319**		5.05		mg/Kg			01/15/22 01:58	1

Client Sample ID: C-47 Lab Sample ID: 880-10005-47

Date Collected: 01/07/22 11:32 **Matrix: Solid**
Date Received: 01/10/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/11/22 08:00	01/12/22 00:06	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/11/22 08:00	01/12/22 00:06	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/11/22 08:00	01/12/22 00:06	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		01/11/22 08:00	01/12/22 00:06	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/11/22 08:00	01/12/22 00:06	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		01/11/22 08:00	01/12/22 00:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*01/11/22 08:00*	*01/12/22 00:06*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*01/11/22 08:00*	*01/12/22 00:06*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			01/13/22 13:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/10/22 11:18	01/11/22 04:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/10/22 11:18	01/11/22 04:14	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10005-1
Project/Site: Culebre Bluff SDG: 19-0180-07

Client Sample ID: C-47 Lab Sample ID: 880-10005-47

Date Collected: 01/07/22 11:32 **Matrix: Solid**
Date Received: 01/10/22 08:54

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/10/22 11:18	01/11/22 04:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*01/10/22 11:18*	*01/11/22 04:14*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*01/10/22 11:18*	*01/11/22 04:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4010**		24.9		mg/Kg			01/15/22 02:10	5

Client Sample ID: C-48 Lab Sample ID: 880-10005-48

Date Collected: 01/07/22 11:34 **Matrix: Solid**
Date Received: 01/10/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/11/22 08:00	01/12/22 00:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/11/22 08:00	01/12/22 00:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/11/22 08:00	01/12/22 00:27	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/11/22 08:00	01/12/22 00:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/11/22 08:00	01/12/22 00:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/11/22 08:00	01/12/22 00:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*01/11/22 08:00*	*01/12/22 00:27*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/11/22 08:00*	*01/12/22 00:27*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/13/22 13:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/11/22 13:47	01/11/22 23:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/11/22 13:47	01/11/22 23:38	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/11/22 13:47	01/11/22 23:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*67*	*S1-*	*70 - 130*	*01/11/22 13:47*	*01/11/22 23:38*	*1*
o-Terphenyl (Surr)	*69*	*S1-*	*70 - 130*	*01/11/22 13:47*	*01/11/22 23:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**776**		4.99		mg/Kg			01/15/22 02:21	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

Client Sample ID: C-49

Date Collected: 01/07/22 11:36
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-49
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/11/22 08:00	01/12/22 00:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/11/22 08:00	01/12/22 00:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/11/22 08:00	01/12/22 00:47	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/11/22 08:00	01/12/22 00:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/11/22 08:00	01/12/22 00:47	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/11/22 08:00	01/12/22 00:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*01/11/22 08:00*	*01/12/22 00:47*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*01/11/22 08:00*	*01/12/22 00:47*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/13/22 13:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/11/22 13:47	01/12/22 00:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/11/22 13:47	01/12/22 00:48	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/11/22 13:47	01/12/22 00:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*63*	*S1-*	*70 - 130*	*01/11/22 13:47*	*01/12/22 00:48*	*1*
o-Terphenyl (Surr)	*67*	*S1-*	*70 - 130*	*01/11/22 13:47*	*01/12/22 00:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1310**		4.95		mg/Kg			01/15/22 02:33	1

Client Sample ID: C-50

Date Collected: 01/07/22 11:38
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-50
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/11/22 08:00	01/12/22 01:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/11/22 08:00	01/12/22 01:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/11/22 08:00	01/12/22 01:08	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/11/22 08:00	01/12/22 01:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/11/22 08:00	01/12/22 01:08	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/11/22 08:00	01/12/22 01:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*01/11/22 08:00*	*01/12/22 01:08*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*01/11/22 08:00*	*01/12/22 01:08*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10005-1
Project/Site: Culebre Bluff SDG: 19-0180-07

Client Sample ID: C-50 Lab Sample ID: 880-10005-50

Date Collected: 01/07/22 11:38 **Matrix: Solid**
Date Received: 01/10/22 08:54

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/13/22 13:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/11/22 13:47	01/12/22 01:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/11/22 13:47	01/12/22 01:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/11/22 13:47	01/12/22 01:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*66*	*S1-*	*70 - 130*	*01/11/22 13:47*	*01/12/22 01:13*	*1*
o-Terphenyl (Surr)	*70*		*70 - 130*	*01/11/22 13:47*	*01/12/22 01:13*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1050**		5.04		mg/Kg			01/15/22 02:45	1

Client Sample ID: C-51 Lab Sample ID: 880-10005-51

Date Collected: 01/07/22 11:40 **Matrix: Solid**
Date Received: 01/10/22 08:54

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/11/22 08:00	01/12/22 02:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/11/22 08:00	01/12/22 02:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/11/22 08:00	01/12/22 02:32	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/11/22 08:00	01/12/22 02:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/11/22 08:00	01/12/22 02:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/11/22 08:00	01/12/22 02:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*01/11/22 08:00*	*01/12/22 02:32*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*01/11/22 08:00*	*01/12/22 02:32*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/13/22 13:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/13/22 14:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/11/22 13:47	01/12/22 01:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/11/22 13:47	01/12/22 01:37	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

Client Sample ID: C-51
Date Collected: 01/07/22 11:40
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-51
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/11/22 13:47	01/12/22 01:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*60*	*S1-*	*70 - 130*	*01/11/22 13:47*	*01/12/22 01:37*	*1*
o-Terphenyl (Surr)	*63*	*S1-*	*70 - 130*	*01/11/22 13:47*	*01/12/22 01:37*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1100**		4.96		mg/Kg			01/15/22 02:57	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

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)										
880-10005-1	C-1	121	83										
880-10005-1 MS	C-1	99	96										
880-10005-1 MSD	C-1	107	105										
880-10005-2	C-2	121	101										
880-10005-3	C-3	114	92										
880-10005-4	C-4	131 S1+	77										
880-10005-5	C-5	120	82										
880-10005-6	C-6	130	107										
880-10005-7	C-7	124	74										
880-10005-8	C-8	131 S1+	113										
880-10005-9	C-9	140 S1+	102										
880-10005-10	C-10	149 S1+	121										
880-10005-11	C-11	121	102										
880-10005-12	C-12	118	96										
880-10005-13	C-13	123	99										
880-10005-14	C-14	132 S1+	85										
880-10005-15	C-15	121	102										
880-10005-16	C-16	124	105										
880-10005-17	C-17	121	75										
880-10005-18	C-18	118	99										
880-10005-19	C-19	131 S1+	107										
880-10005-20	C-20	115	80										
880-10005-21	C-21	102	95										
880-10005-21 MS	C-21	111	4 S1-										
880-10005-21 MSD	C-21	125	94										
880-10005-22	C-22	118	104										
880-10005-23	C-23	97	101										
880-10005-24	C-24	106	106										
880-10005-25	C-25	120	102										
880-10005-26	C-26	113	99										
880-10005-27	C-27	107	102										
880-10005-28	C-28	94	104										
880-10005-29	C-29	99	102										
880-10005-30	C-30	104	107										
880-10005-31	C-31	100	107										
880-10005-32	C-32	98	106										
880-10005-33	C-33	105	108										
880-10005-34	C-34	100	108										
880-10005-35	C-35	103	108										
880-10005-36	C-36	103	107										
880-10005-37	C-37	104	107										
880-10005-38	C-38	101	110										
880-10005-39	C-39	102	107										
880-10005-40	C-40	104	111										
880-10005-41	C-41	116	108										
880-10005-41 MS	C-41	104	102										
880-10005-41 MSD	C-41	107	89										
880-10005-42	C-42	114	102										
880-10005-43	C-43	124	110										

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-10005-1
Project/Site: Culebre Bluff SDG: 19-0180-07

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

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) BFB1 (70-130)	DFBZ1 (70-130)
880-10005-44	C-44	101	74
880-10005-45	C-45	117	111
880-10005-46	C-46	112	97
880-10005-47	C-47	117	105
880-10005-48	C-48	115	98
880-10005-49	C-49	106	107
880-10005-50	C-50	120	77
880-10005-51	C-51	110	84
LCS 880-16376/1-A	Lab Control Sample	100	94
LCS 880-16386/1-A	Lab Control Sample	102	101
LCS 880-16392/1-A	Lab Control Sample	109	109
LCSD 880-16376/2-A	Lab Control Sample Dup	99	92
LCSD 880-16386/2-A	Lab Control Sample Dup	102	93
LCSD 880-16392/2-A	Lab Control Sample Dup	109	93
MB 880-16376/5-A	Method Blank	110	103
MB 880-16386/5-A	Method Blank	107	97
MB 880-16392/5-A	Method Blank	127	90

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**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) 1CO1 (70-130)	OTPH1 (70-130)
880-10005-1	C-1	110	109
880-10005-1 MS	C-1	100	104
880-10005-1 MSD	C-1	100	105
880-10005-2	C-2	95	98
880-10005-3	C-3	95	95
880-10005-4	C-4	91	93
880-10005-5	C-5	97	98
880-10005-6	C-6	97	100
880-10005-7	C-7	97	98
880-10005-8	C-8	94	96
880-10005-9	C-9	88	92
880-10005-10	C-10	93	95
880-10005-11	C-11	98	99
880-10005-12	C-12	102	101
880-10005-13	C-13	118	118
880-10005-14	C-14	93	96
880-10005-15	C-15	109	111
880-10005-16	C-16	92	94
880-10005-17	C-17	82	82
880-10005-18	C-18	96	97
880-10005-19	C-19	89	93
880-10005-20	C-20	94	96
880-10005-21	C-21	69 S1-	72

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-10005-1
Project/Site: Culebre Bluff SDG: 19-0180-07

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)										
880-10005-21 MS	C-21	75	71										
880-10005-21 MSD	C-21	77	74										
880-10005-22	C-22	74	76										
880-10005-23	C-23	71	73										
880-10005-24	C-24	71	74										
880-10005-25	C-25	71	74										
880-10005-26	C-26	74	78										
880-10005-27	C-27	69 S1-	71										
880-10005-28	C-28	72	76										
880-10005-29	C-29	73	76										
880-10005-30	C-30	74	77										
880-10005-31	C-31	77	84										
880-10005-32	C-32	77	80										
880-10005-33	C-33	81	82										
880-10005-34	C-34	70	72										
880-10005-35	C-35	72	75										
880-10005-36	C-36	72	79										
880-10005-37	C-37	79	83										
880-10005-38	C-38	71	74										
880-10005-39	C-39	60 S1-	62 S1-										
880-10005-40	C-40	71	72										
880-10005-41	C-41	93	93										
880-10005-42	C-42	90	93										
880-10005-43	C-43	108	115										
880-10005-44	C-44	91	95										
880-10005-45	C-45	87	89										
880-10005-46	C-46	91	91										
880-10005-47	C-47	93	89										
880-10005-48	C-48	67 S1-	69 S1-										
880-10005-48 MS	C-48	65 S1-	61 S1-										
880-10005-48 MSD	C-48	67 S1-	64 S1-										
880-10005-49	C-49	63 S1-	67 S1-										
880-10005-50	C-50	66 S1-	70										
880-10005-51	C-51	60 S1-	63 S1-										
890-1808-A-1-E MS	Matrix Spike	75	66 S1-										
890-1808-A-1-F MSD	Matrix Spike Duplicate	77	75										
LCS 880-16425/2-A	Lab Control Sample	106	103										
LCS 880-16541/2-A	Lab Control Sample	94	92										
LCSD 880-16425/3-A	Lab Control Sample Dup	104	104										
LCSD 880-16541/3-A	Lab Control Sample Dup	97	93										
MB 880-16425/1-A	Method Blank	84	93										
MB 880-16541/1-A	Method Blank	71	76										

Surrogate Legend

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

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-10005-1
Project/Site: Culebre Bluff SDG: 19-0180-07

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	1CO2 (70-130)	OTPH2 (70-130)								
LCS 880-16423/2-A	Lab Control Sample	93	91								
LCS 880-16424/2-A	Lab Control Sample	88	82								
LCSD 880-16423/3-A	Lab Control Sample Dup	102	103								
LCSD 880-16424/3-A	Lab Control Sample Dup	90	85								
MB 880-16423/1-A	Method Blank	96	99								
MB 880-16424/1-A	Method Blank	85	86								

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-16376/5-A
Matrix: Solid
Analysis Batch: 16472

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16376

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/11/22 08:00	01/11/22 21:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/11/22 08:00	01/11/22 21:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/11/22 08:00	01/11/22 21:41	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/11/22 08:00	01/11/22 21:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/11/22 08:00	01/11/22 21:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/11/22 08:00	01/11/22 21:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*01/11/22 08:00*	*01/11/22 21:41*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*01/11/22 08:00*	*01/11/22 21:41*	*1*

Lab Sample ID: LCS 880-16376/1-A
Matrix: Solid
Analysis Batch: 16472

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16376

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.07594		mg/Kg		76	70 - 130		
Toluene			0.100	0.07560		mg/Kg		76	70 - 130		
Ethylbenzene			0.100	0.07767		mg/Kg		78	70 - 130		
m,p-Xylenes			0.200	0.1587		mg/Kg		79	70 - 130		
o-Xylene			0.100	0.07884		mg/Kg		79	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 880-16376/2-A
Matrix: Solid
Analysis Batch: 16472

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 16376

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.07590		mg/Kg		76	70 - 130	0	35
Toluene			0.100	0.07686		mg/Kg		77	70 - 130	2	35
Ethylbenzene			0.100	0.07897		mg/Kg		79	70 - 130	2	35
m,p-Xylenes			0.200	0.1605		mg/Kg		80	70 - 130	1	35
o-Xylene			0.100	0.07952		mg/Kg		80	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: 880-10005-41 MS
Matrix: Solid
Analysis Batch: 16472

Client Sample ID: C-41
Prep Type: Total/NA
Prep Batch: 16376

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00200	U F1	0.0992	0.06363	F1	mg/Kg		64	70 - 130		
Toluene	<0.00200	U F1	0.0992	0.06261	F1	mg/Kg		63	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10005-1
Project/Site: Culebre Bluff SDG: 19-0180-07

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

Lab Sample ID: 880-10005-41 MS — **Client Sample ID: C-41**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 16472 — **Prep Batch: 16376**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00200	U F1	0.0992	0.06443	F1	mg/Kg		65	70 - 130
m,p-Xylenes	<0.00399	U F1	0.198	0.1315	F1	mg/Kg		66	70 - 130
o-Xylene	<0.00200	U F1	0.0992	0.06539	F1	mg/Kg		66	70 - 130

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

Lab Sample ID: 880-10005-41 MSD — **Client Sample ID: C-41**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 16472 — **Prep Batch: 16376**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.100	0.05143	F1	mg/Kg		51	70 - 130	21	35
Toluene	<0.00200	U F1	0.100	0.04948	F1	mg/Kg		49	70 - 130	23	35
Ethylbenzene	<0.00200	U F1	0.100	0.05221	F1	mg/Kg		52	70 - 130	21	35
m,p-Xylenes	<0.00399	U F1	0.200	0.1088	F1	mg/Kg		54	70 - 130	19	35
o-Xylene	<0.00200	U F1	0.100	0.05514	F1	mg/Kg		55	70 - 130	17	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: MB 880-16386/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 16472 — **Prep Batch: 16386**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/10/22 10:10	01/11/22 10:49	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/10/22 10:10	01/11/22 10:49	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/10/22 10:10	01/11/22 10:49	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		01/10/22 10:10	01/11/22 10:49	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/10/22 10:10	01/11/22 10:49	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/10/22 10:10	01/11/22 10:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*01/10/22 10:10*	*01/11/22 10:49*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*01/10/22 10:10*	*01/11/22 10:49*	*1*

Lab Sample ID: LCS 880-16386/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 16472 — **Prep Batch: 16386**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07057		mg/Kg		71	70 - 130
Toluene	0.100	0.07215		mg/Kg		72	70 - 130
Ethylbenzene	0.100	0.07377		mg/Kg		74	70 - 130
m,p-Xylenes	0.200	0.1528		mg/Kg		76	70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

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

Lab Sample ID: LCS 880-16386/1-A
Matrix: Solid
Analysis Batch: 16472

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16386

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
o-Xylene			0.100	0.07522		mg/Kg		75	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-16386/2-A
Matrix: Solid
Analysis Batch: 16472

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 16386

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.07972		mg/Kg		80	70 - 130	12	35
Toluene			0.100	0.07954		mg/Kg		80	70 - 130	10	35
Ethylbenzene			0.100	0.07970		mg/Kg		80	70 - 130	8	35
m,p-Xylenes			0.200	0.1669		mg/Kg		83	70 - 130	9	35
o-Xylene			0.100	0.08389		mg/Kg		84	70 - 130	11	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: 880-10005-1 MS
Matrix: Solid
Analysis Batch: 16472

Client Sample ID: C-1
Prep Type: Total/NA
Prep Batch: 16386

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00201	U	0.100	0.07397		mg/Kg		74	70 - 130
Toluene	<0.00201	U	0.100	0.07227		mg/Kg		72	70 - 130
Ethylbenzene	<0.00201	U	0.100	0.07356		mg/Kg		73	70 - 130
m,p-Xylenes	<0.00402	U	0.201	0.1499		mg/Kg		75	70 - 130
o-Xylene	<0.00201	U	0.100	0.07645		mg/Kg		76	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 880-10005-1 MSD
Matrix: Solid
Analysis Batch: 16472

Client Sample ID: C-1
Prep Type: Total/NA
Prep Batch: 16386

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.07502		mg/Kg		75	70 - 130	1	35
Toluene	<0.00201	U	0.100	0.07408		mg/Kg		74	70 - 130	2	35
Ethylbenzene	<0.00201	U	0.100	0.07595		mg/Kg		76	70 - 130	3	35
m,p-Xylenes	<0.00402	U	0.200	0.1562		mg/Kg		78	70 - 130	4	35
o-Xylene	<0.00201	U	0.100	0.07783		mg/Kg		78	70 - 130	2	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

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

Lab Sample ID: 880-10005-1 MSD
Matrix: Solid
Analysis Batch: 16472

Client Sample ID: C-1
Prep Type: Total/NA
Prep Batch: 16386

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: MB 880-16392/5-A
Matrix: Solid
Analysis Batch: 16475

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16392

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:13	01/11/22 16:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:13	01/11/22 16:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:13	01/11/22 16:41	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/10/22 10:13	01/11/22 16:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/22 10:13	01/11/22 16:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/10/22 10:13	01/11/22 16:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	01/10/22 10:13	01/11/22 16:41	1
1,4-Difluorobenzene (Surr)	90		70 - 130	01/10/22 10:13	01/11/22 16:41	1

Lab Sample ID: LCS 880-16392/1-A
Matrix: Solid
Analysis Batch: 16475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16392

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.07455		mg/Kg		75	70 - 130		
Toluene			0.100	0.07090		mg/Kg		71	70 - 130		
Ethylbenzene			0.100	0.07198		mg/Kg		72	70 - 130		
m,p-Xylenes			0.200	0.1432		mg/Kg		72	70 - 130		
o-Xylene			0.100	0.07056		mg/Kg		71	70 - 130		

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

Lab Sample ID: LCSD 880-16392/2-A
Matrix: Solid
Analysis Batch: 16475

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 16392

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.07139		mg/Kg		71	70 - 130	4	35
Toluene			0.100	0.07113		mg/Kg		71	70 - 130	0	35
Ethylbenzene			0.100	0.07000		mg/Kg		70	70 - 130	3	35
m,p-Xylenes			0.200	0.1417		mg/Kg		71	70 - 130	1	35
o-Xylene			0.100	0.07115		mg/Kg		71	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

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

Lab Sample ID: LCSD 880-16392/2-A
Matrix: Solid
Analysis Batch: 16475

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 16392

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

Lab Sample ID: 880-10005-21 MS
Matrix: Solid
Analysis Batch: 16475

Client Sample ID: C-21
Prep Type: Total/NA
Prep Batch: 16392

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1	0.100	<0.00201	U F1	mg/Kg		-0.8	70 - 130
Toluene	<0.00199	U F1	0.100	<0.00201	U F1	mg/Kg		1	70 - 130
Ethylbenzene	<0.00199	U F1	0.100	<0.00201	U F1	mg/Kg		0.6	70 - 130
m,p-Xylenes	<0.00398	U F1	0.201	<0.00402	U F1	mg/Kg		0.5	70 - 130
o-Xylene	<0.00199	U F1	0.100	<0.00201	U F1	mg/Kg		0.5	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	4	S1-	70 - 130

Lab Sample ID: 880-10005-21 MSD
Matrix: Solid
Analysis Batch: 16475

Client Sample ID: C-21
Prep Type: Total/NA
Prep Batch: 16392

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0990	<0.00198	U F1	mg/Kg		0	70 - 130	NC	35
Toluene	<0.00199	U F1	0.0990	<0.00198	U F1	mg/Kg		0	70 - 130	NC	35
Ethylbenzene	<0.00199	U F1	0.0990	<0.00198	U F1	mg/Kg		0	70 - 130	NC	35
m,p-Xylenes	<0.00398	U F1	0.198	<0.00396	U F1	mg/Kg		0	70 - 130	NC	35
o-Xylene	<0.00199	U F1	0.0990	<0.00198	U F1	mg/Kg		0	70 - 130	NC	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

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

Lab Sample ID: MB 880-16423/1-A
Matrix: Solid
Analysis Batch: 16478

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16423

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/10/22 11:10	01/11/22 13:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/10/22 11:10	01/11/22 13:35	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/10/22 11:10	01/11/22 13:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130	01/10/22 11:10	01/11/22 13:35	1
o-Terphenyl (Surr)	99		70 - 130	01/10/22 11:10	01/11/22 13:35	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

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

Lab Sample ID: LCS 880-16423/2-A
Matrix: Solid
Analysis Batch: 16478

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16423

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	826.4		mg/Kg		83	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	997.8		mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*93*		*70 - 130*
o-Terphenyl (Surr)	*91*		*70 - 130*

Lab Sample ID: LCSD 880-16423/3-A
Matrix: Solid
Analysis Batch: 16478

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 16423

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	856.0		mg/Kg		86	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	1006		mg/Kg		101	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*102*		*70 - 130*
o-Terphenyl (Surr)	*103*		*70 - 130*

Lab Sample ID: 880-10005-1 MS
Matrix: Solid
Analysis Batch: 16478

Client Sample ID: C-1
Prep Type: Total/NA
Prep Batch: 16423

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	1045		mg/Kg		103	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	996	984.1		mg/Kg		99	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*100*		*70 - 130*
o-Terphenyl (Surr)	*104*		*70 - 130*

Lab Sample ID: 880-10005-1 MSD
Matrix: Solid
Analysis Batch: 16478

Client Sample ID: C-1
Prep Type: Total/NA
Prep Batch: 16423

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1053		mg/Kg		104	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	996.8		mg/Kg		100	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*100*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

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

Lab Sample ID: 880-10005-1 MSD
Matrix: Solid
Analysis Batch: 16478

Client Sample ID: C-1
Prep Type: Total/NA
Prep Batch: 16423

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl (Surr)	105		70 - 130

Lab Sample ID: MB 880-16424/1-A
Matrix: Solid
Analysis Batch: 16336

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16424

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/10/22 11:18	01/10/22 20:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/22 11:18	01/10/22 20:35	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/22 11:18	01/10/22 20:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	85		70 - 130	01/10/22 11:18	01/10/22 20:35	1
o-Terphenyl (Surr)	86		70 - 130	01/10/22 11:18	01/10/22 20:35	1

Lab Sample ID: LCS 880-16424/2-A
Matrix: Solid
Analysis Batch: 16336

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16424

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	826.7		mg/Kg		83	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	915.4		mg/Kg		92	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	88		70 - 130
o-Terphenyl (Surr)	82		70 - 130

Lab Sample ID: LCSD 880-16424/3-A
Matrix: Solid
Analysis Batch: 16336

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 16424

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	841.5		mg/Kg		84	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	916.2		mg/Kg		92	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	90		70 - 130
o-Terphenyl (Surr)	85		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

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

Lab Sample ID: 890-1808-A-1-E MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 16336 — **Prep Batch: 16424**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	977.5		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	996	851.8		mg/Kg		86	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*75*		*70 - 130*
o-Terphenyl (Surr)	*66*	*S1-*	*70 - 130*

Lab Sample ID: 890-1808-A-1-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 16336 — **Prep Batch: 16424**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1093		mg/Kg		107	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	862.8		mg/Kg		86	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*77*		*70 - 130*
o-Terphenyl (Surr)	*75*		*70 - 130*

Lab Sample ID: MB 880-16425/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 16483 — **Prep Batch: 16425**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 10:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 10:41	1
OIl Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/22 11:50	01/11/22 10:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*84*		*70 - 130*	*01/10/22 11:50*	*01/11/22 10:41*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*01/10/22 11:50*	*01/11/22 10:41*	*1*

Lab Sample ID: LCS 880-16425/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 16483 — **Prep Batch: 16425**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10			1000	913.4		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)			1000	969.4		mg/Kg		97	70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

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

Lab Sample ID: LCS 880-16425/2-A
Matrix: Solid
Analysis Batch: 16483

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16425

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	106		70 - 130
o-Terphenyl (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-16425/3-A
Matrix: Solid
Analysis Batch: 16483

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 16425

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	921.7		mg/Kg		92	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1055		mg/Kg		106	70 - 130	8	20

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

Lab Sample ID: 880-10005-21 MS
Matrix: Solid
Analysis Batch: 16483

Client Sample ID: C-21
Prep Type: Total/NA
Prep Batch: 16425

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	850.0		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	996	815.4		mg/Kg		77	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	75		70 - 130
o-Terphenyl (Surr)	71		70 - 130

Lab Sample ID: 880-10005-21 MSD
Matrix: Solid
Analysis Batch: 16483

Client Sample ID: C-21
Prep Type: Total/NA
Prep Batch: 16425

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	869.4		mg/Kg		87	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	861.9		mg/Kg		82	70 - 130	6	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	77		70 - 130
o-Terphenyl (Surr)	74		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

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

Lab Sample ID: MB 880-16541/1-A
Matrix: Solid
Analysis Batch: 16483

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16541

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/11/22 13:47	01/11/22 22:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/11/22 13:47	01/11/22 22:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/11/22 13:47	01/11/22 22:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*71*		*70 - 130*	*01/11/22 13:47*	*01/11/22 22:28*	*1*
o-Terphenyl (Surr)	*76*		*70 - 130*	*01/11/22 13:47*	*01/11/22 22:28*	*1*

Lab Sample ID: LCS 880-16541/2-A
Matrix: Solid
Analysis Batch: 16483

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16541

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	782.0		mg/Kg		78	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	894.0		mg/Kg		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*94*		*70 - 130*
o-Terphenyl (Surr)	*92*		*70 - 130*

Lab Sample ID: LCSD 880-16541/3-A
Matrix: Solid
Analysis Batch: 16483

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 16541

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	840.1		mg/Kg		84	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			1000	979.9		mg/Kg		98	70 - 130	9	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*97*		*70 - 130*
o-Terphenyl (Surr)	*93*		*70 - 130*

Lab Sample ID: 880-10005-48 MS
Matrix: Solid
Analysis Batch: 16483

Client Sample ID: C-48
Prep Type: Total/NA
Prep Batch: 16541

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	728.1		mg/Kg		71	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	996	786.7		mg/Kg		79	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

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

Lab Sample ID: 880-10005-48 MS
Matrix: Solid
Analysis Batch: 16483

Client Sample ID: C-48
Prep Type: Total/NA
Prep Batch: 16541

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	65	S1-	70 - 130
o-Terphenyl (Surr)	61	S1-	70 - 130

Lab Sample ID: 880-10005-48 MSD
Matrix: Solid
Analysis Batch: 16483

Client Sample ID: C-48
Prep Type: Total/NA
Prep Batch: 16541

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	744.4		mg/Kg		73	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	826.5		mg/Kg		83	70 - 130	5	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	67	S1-	70 - 130
o-Terphenyl (Surr)	64	S1-	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-16445/1-A
Matrix: Solid
Analysis Batch: 16561

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/14/22 09:55	1

Lab Sample ID: LCS 880-16445/2-A
Matrix: Solid
Analysis Batch: 16561

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	271.3		mg/Kg		109	90 - 110		

Lab Sample ID: LCSD 880-16445/3-A
Matrix: Solid
Analysis Batch: 16561

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	274.9		mg/Kg		110	90 - 110	1	20

Lab Sample ID: 880-10005-22 MS
Matrix: Solid
Analysis Batch: 16561

Client Sample ID: C-22
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	<5.00	U F1	250	434.1	F1	mg/Kg		172	90 - 110		

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10005-1
Project/Site: Culebre Bluff SDG: 19-0180-07

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-10005-22 MSD — **Client Sample ID: C-22**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 16561

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	<5.00	U F1	250	418.1	F1	mg/Kg		166	90 - 110	4	20

Lab Sample ID: MB 880-16446/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 16870

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/15/22 17:17	1

Lab Sample ID: LCS 880-16446/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 16870

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	270.3		mg/Kg		108	90 - 110		

Lab Sample ID: LCSD 880-16446/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 16870

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	274.0		mg/Kg		110	90 - 110	1	20

Lab Sample ID: 880-10005-10 MS — **Client Sample ID: C-10**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 16870

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	1950	F1	1240	3378	F1	mg/Kg		115	90 - 110		

Lab Sample ID: 880-10005-10 MSD — **Client Sample ID: C-10**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 16870

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1950	F1	1240	3415	F1	mg/Kg		118	90 - 110	1	20

Lab Sample ID: MB 880-16447/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 16871

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/14/22 21:02	1

Lab Sample ID: LCS 880-16447/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 16871

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	258.1		mg/Kg		103	90 - 110		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-16447/3-A
Matrix: Solid
Analysis Batch: 16871

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	258.5		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 880-10005-32 MS
Matrix: Solid
Analysis Batch: 16871

Client Sample ID: C-32
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	2710		1240	4006		mg/Kg		105	90 - 110		

Lab Sample ID: 880-10005-32 MSD
Matrix: Solid
Analysis Batch: 16871

Client Sample ID: C-32
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2710		1240	3944		mg/Kg		100	90 - 110	2	20

Lab Sample ID: 880-10005-42 MS
Matrix: Solid
Analysis Batch: 16871

Client Sample ID: C-42
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	1770		1250	3062		mg/Kg		103	90 - 110		

Lab Sample ID: 880-10005-42 MSD
Matrix: Solid
Analysis Batch: 16871

Client Sample ID: C-42
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1770		1250	3033		mg/Kg		101	90 - 110	1	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

GC VOA

Prep Batch: 16376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10005-41	C-41	Total/NA	Solid	5035	
880-10005-42	C-42	Total/NA	Solid	5035	
880-10005-43	C-43	Total/NA	Solid	5035	
880-10005-44	C-44	Total/NA	Solid	5035	
880-10005-45	C-45	Total/NA	Solid	5035	
880-10005-46	C-46	Total/NA	Solid	5035	
880-10005-47	C-47	Total/NA	Solid	5035	
880-10005-48	C-48	Total/NA	Solid	5035	
880-10005-49	C-49	Total/NA	Solid	5035	
880-10005-50	C-50	Total/NA	Solid	5035	
880-10005-51	C-51	Total/NA	Solid	5035	
MB 880-16376/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-16376/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-16376/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-10005-41 MS	C-41	Total/NA	Solid	5035	
880-10005-41 MSD	C-41	Total/NA	Solid	5035	

Prep Batch: 16386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10005-1	C-1	Total/NA	Solid	5035	
880-10005-2	C-2	Total/NA	Solid	5035	
880-10005-3	C-3	Total/NA	Solid	5035	
880-10005-4	C-4	Total/NA	Solid	5035	
880-10005-5	C-5	Total/NA	Solid	5035	
880-10005-6	C-6	Total/NA	Solid	5035	
880-10005-7	C-7	Total/NA	Solid	5035	
880-10005-8	C-8	Total/NA	Solid	5035	
880-10005-9	C-9	Total/NA	Solid	5035	
880-10005-10	C-10	Total/NA	Solid	5035	
880-10005-11	C-11	Total/NA	Solid	5035	
880-10005-12	C-12	Total/NA	Solid	5035	
880-10005-13	C-13	Total/NA	Solid	5035	
880-10005-14	C-14	Total/NA	Solid	5035	
880-10005-15	C-15	Total/NA	Solid	5035	
880-10005-16	C-16	Total/NA	Solid	5035	
880-10005-17	C-17	Total/NA	Solid	5035	
880-10005-18	C-18	Total/NA	Solid	5035	
880-10005-19	C-19	Total/NA	Solid	5035	
880-10005-20	C-20	Total/NA	Solid	5035	
MB 880-16386/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-16386/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-16386/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-10005-1 MS	C-1	Total/NA	Solid	5035	
880-10005-1 MSD	C-1	Total/NA	Solid	5035	

Prep Batch: 16392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10005-21	C-21	Total/NA	Solid	5035	
880-10005-22	C-22	Total/NA	Solid	5035	
880-10005-23	C-23	Total/NA	Solid	5035	
880-10005-24	C-24	Total/NA	Solid	5035	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

GC VOA (Continued)

Prep Batch: 16392 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10005-25	C-25	Total/NA	Solid	5035	
880-10005-26	C-26	Total/NA	Solid	5035	
880-10005-27	C-27	Total/NA	Solid	5035	
880-10005-28	C-28	Total/NA	Solid	5035	
880-10005-29	C-29	Total/NA	Solid	5035	
880-10005-30	C-30	Total/NA	Solid	5035	
880-10005-31	C-31	Total/NA	Solid	5035	
880-10005-32	C-32	Total/NA	Solid	5035	
880-10005-33	C-33	Total/NA	Solid	5035	
880-10005-34	C-34	Total/NA	Solid	5035	
880-10005-35	C-35	Total/NA	Solid	5035	
880-10005-36	C-36	Total/NA	Solid	5035	
880-10005-37	C-37	Total/NA	Solid	5035	
880-10005-38	C-38	Total/NA	Solid	5035	
880-10005-39	C-39	Total/NA	Solid	5035	
880-10005-40	C-40	Total/NA	Solid	5035	
MB 880-16392/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-16392/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-16392/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-10005-21 MS	C-21	Total/NA	Solid	5035	
880-10005-21 MSD	C-21	Total/NA	Solid	5035	

Analysis Batch: 16472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10005-1	C-1	Total/NA	Solid	8021B	16386
880-10005-2	C-2	Total/NA	Solid	8021B	16386
880-10005-3	C-3	Total/NA	Solid	8021B	16386
880-10005-4	C-4	Total/NA	Solid	8021B	16386
880-10005-5	C-5	Total/NA	Solid	8021B	16386
880-10005-6	C-6	Total/NA	Solid	8021B	16386
880-10005-7	C-7	Total/NA	Solid	8021B	16386
880-10005-8	C-8	Total/NA	Solid	8021B	16386
880-10005-9	C-9	Total/NA	Solid	8021B	16386
880-10005-10	C-10	Total/NA	Solid	8021B	16386
880-10005-11	C-11	Total/NA	Solid	8021B	16386
880-10005-12	C-12	Total/NA	Solid	8021B	16386
880-10005-13	C-13	Total/NA	Solid	8021B	16386
880-10005-14	C-14	Total/NA	Solid	8021B	16386
880-10005-15	C-15	Total/NA	Solid	8021B	16386
880-10005-16	C-16	Total/NA	Solid	8021B	16386
880-10005-17	C-17	Total/NA	Solid	8021B	16386
880-10005-18	C-18	Total/NA	Solid	8021B	16386
880-10005-19	C-19	Total/NA	Solid	8021B	16386
880-10005-20	C-20	Total/NA	Solid	8021B	16386
880-10005-41	C-41	Total/NA	Solid	8021B	16376
880-10005-42	C-42	Total/NA	Solid	8021B	16376
880-10005-43	C-43	Total/NA	Solid	8021B	16376
880-10005-44	C-44	Total/NA	Solid	8021B	16376
880-10005-45	C-45	Total/NA	Solid	8021B	16376
880-10005-46	C-46	Total/NA	Solid	8021B	16376
880-10005-47	C-47	Total/NA	Solid	8021B	16376

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

GC VOA (Continued)

Analysis Batch: 16472 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10005-48	C-48	Total/NA	Solid	8021B	16376
880-10005-49	C-49	Total/NA	Solid	8021B	16376
880-10005-50	C-50	Total/NA	Solid	8021B	16376
880-10005-51	C-51	Total/NA	Solid	8021B	16376
MB 880-16376/5-A	Method Blank	Total/NA	Solid	8021B	16376
MB 880-16386/5-A	Method Blank	Total/NA	Solid	8021B	16386
LCS 880-16376/1-A	Lab Control Sample	Total/NA	Solid	8021B	16376
LCS 880-16386/1-A	Lab Control Sample	Total/NA	Solid	8021B	16386
LCSD 880-16376/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	16376
LCSD 880-16386/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	16386
880-10005-1 MS	C-1	Total/NA	Solid	8021B	16386
880-10005-1 MSD	C-1	Total/NA	Solid	8021B	16386
880-10005-41 MS	C-41	Total/NA	Solid	8021B	16376
880-10005-41 MSD	C-41	Total/NA	Solid	8021B	16376

Analysis Batch: 16475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10005-21	C-21	Total/NA	Solid	8021B	16392
880-10005-22	C-22	Total/NA	Solid	8021B	16392
880-10005-23	C-23	Total/NA	Solid	8021B	16392
880-10005-24	C-24	Total/NA	Solid	8021B	16392
880-10005-25	C-25	Total/NA	Solid	8021B	16392
880-10005-26	C-26	Total/NA	Solid	8021B	16392
880-10005-27	C-27	Total/NA	Solid	8021B	16392
880-10005-28	C-28	Total/NA	Solid	8021B	16392
880-10005-29	C-29	Total/NA	Solid	8021B	16392
880-10005-30	C-30	Total/NA	Solid	8021B	16392
880-10005-31	C-31	Total/NA	Solid	8021B	16392
880-10005-32	C-32	Total/NA	Solid	8021B	16392
880-10005-33	C-33	Total/NA	Solid	8021B	16392
880-10005-34	C-34	Total/NA	Solid	8021B	16392
880-10005-35	C-35	Total/NA	Solid	8021B	16392
880-10005-36	C-36	Total/NA	Solid	8021B	16392
880-10005-37	C-37	Total/NA	Solid	8021B	16392
880-10005-38	C-38	Total/NA	Solid	8021B	16392
880-10005-39	C-39	Total/NA	Solid	8021B	16392
880-10005-40	C-40	Total/NA	Solid	8021B	16392
MB 880-16392/5-A	Method Blank	Total/NA	Solid	8021B	16392
LCS 880-16392/1-A	Lab Control Sample	Total/NA	Solid	8021B	16392
LCSD 880-16392/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	16392
880-10005-21 MS	C-21	Total/NA	Solid	8021B	16392
880-10005-21 MSD	C-21	Total/NA	Solid	8021B	16392

Analysis Batch: 16594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10005-21	C-21	Total/NA	Solid	Total BTEX	
880-10005-22	C-22	Total/NA	Solid	Total BTEX	
880-10005-23	C-23	Total/NA	Solid	Total BTEX	
880-10005-24	C-24	Total/NA	Solid	Total BTEX	
880-10005-25	C-25	Total/NA	Solid	Total BTEX	
880-10005-26	C-26	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

GC VOA (Continued)

Analysis Batch: 16594 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10005-27	C-27	Total/NA	Solid	Total BTEX	
880-10005-28	C-28	Total/NA	Solid	Total BTEX	
880-10005-29	C-29	Total/NA	Solid	Total BTEX	
880-10005-30	C-30	Total/NA	Solid	Total BTEX	
880-10005-31	C-31	Total/NA	Solid	Total BTEX	
880-10005-32	C-32	Total/NA	Solid	Total BTEX	
880-10005-33	C-33	Total/NA	Solid	Total BTEX	
880-10005-34	C-34	Total/NA	Solid	Total BTEX	
880-10005-35	C-35	Total/NA	Solid	Total BTEX	
880-10005-36	C-36	Total/NA	Solid	Total BTEX	
880-10005-37	C-37	Total/NA	Solid	Total BTEX	
880-10005-38	C-38	Total/NA	Solid	Total BTEX	
880-10005-39	C-39	Total/NA	Solid	Total BTEX	
880-10005-40	C-40	Total/NA	Solid	Total BTEX	

Analysis Batch: 16785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10005-1	C-1	Total/NA	Solid	Total BTEX	
880-10005-2	C-2	Total/NA	Solid	Total BTEX	
880-10005-3	C-3	Total/NA	Solid	Total BTEX	
880-10005-4	C-4	Total/NA	Solid	Total BTEX	
880-10005-5	C-5	Total/NA	Solid	Total BTEX	
880-10005-6	C-6	Total/NA	Solid	Total BTEX	
880-10005-7	C-7	Total/NA	Solid	Total BTEX	
880-10005-8	C-8	Total/NA	Solid	Total BTEX	
880-10005-9	C-9	Total/NA	Solid	Total BTEX	
880-10005-10	C-10	Total/NA	Solid	Total BTEX	
880-10005-11	C-11	Total/NA	Solid	Total BTEX	
880-10005-12	C-12	Total/NA	Solid	Total BTEX	
880-10005-13	C-13	Total/NA	Solid	Total BTEX	
880-10005-14	C-14	Total/NA	Solid	Total BTEX	
880-10005-15	C-15	Total/NA	Solid	Total BTEX	
880-10005-16	C-16	Total/NA	Solid	Total BTEX	
880-10005-17	C-17	Total/NA	Solid	Total BTEX	
880-10005-18	C-18	Total/NA	Solid	Total BTEX	
880-10005-19	C-19	Total/NA	Solid	Total BTEX	
880-10005-20	C-20	Total/NA	Solid	Total BTEX	
880-10005-41	C-41	Total/NA	Solid	Total BTEX	
880-10005-42	C-42	Total/NA	Solid	Total BTEX	
880-10005-43	C-43	Total/NA	Solid	Total BTEX	
880-10005-44	C-44	Total/NA	Solid	Total BTEX	
880-10005-45	C-45	Total/NA	Solid	Total BTEX	
880-10005-46	C-46	Total/NA	Solid	Total BTEX	
880-10005-47	C-47	Total/NA	Solid	Total BTEX	
880-10005-48	C-48	Total/NA	Solid	Total BTEX	
880-10005-49	C-49	Total/NA	Solid	Total BTEX	
880-10005-50	C-50	Total/NA	Solid	Total BTEX	
880-10005-51	C-51	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

GC Semi VOA

Analysis Batch: 16336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10005-41	C-41	Total/NA	Solid	8015B NM	16424
880-10005-42	C-42	Total/NA	Solid	8015B NM	16424
880-10005-43	C-43	Total/NA	Solid	8015B NM	16424
880-10005-44	C-44	Total/NA	Solid	8015B NM	16424
880-10005-45	C-45	Total/NA	Solid	8015B NM	16424
880-10005-46	C-46	Total/NA	Solid	8015B NM	16424
880-10005-47	C-47	Total/NA	Solid	8015B NM	16424
MB 880-16424/1-A	Method Blank	Total/NA	Solid	8015B NM	16424
LCS 880-16424/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	16424
LCSD 880-16424/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	16424
890-1808-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	16424
890-1808-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	16424

Prep Batch: 16423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10005-1	C-1	Total/NA	Solid	8015NM Prep	
880-10005-2	C-2	Total/NA	Solid	8015NM Prep	
880-10005-3	C-3	Total/NA	Solid	8015NM Prep	
880-10005-4	C-4	Total/NA	Solid	8015NM Prep	
880-10005-5	C-5	Total/NA	Solid	8015NM Prep	
880-10005-6	C-6	Total/NA	Solid	8015NM Prep	
880-10005-7	C-7	Total/NA	Solid	8015NM Prep	
880-10005-8	C-8	Total/NA	Solid	8015NM Prep	
880-10005-9	C-9	Total/NA	Solid	8015NM Prep	
880-10005-10	C-10	Total/NA	Solid	8015NM Prep	
880-10005-11	C-11	Total/NA	Solid	8015NM Prep	
880-10005-12	C-12	Total/NA	Solid	8015NM Prep	
880-10005-13	C-13	Total/NA	Solid	8015NM Prep	
880-10005-14	C-14	Total/NA	Solid	8015NM Prep	
880-10005-15	C-15	Total/NA	Solid	8015NM Prep	
880-10005-16	C-16	Total/NA	Solid	8015NM Prep	
880-10005-17	C-17	Total/NA	Solid	8015NM Prep	
880-10005-18	C-18	Total/NA	Solid	8015NM Prep	
880-10005-19	C-19	Total/NA	Solid	8015NM Prep	
880-10005-20	C-20	Total/NA	Solid	8015NM Prep	
MB 880-16423/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-16423/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-16423/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-10005-1 MS	C-1	Total/NA	Solid	8015NM Prep	
880-10005-1 MSD	C-1	Total/NA	Solid	8015NM Prep	

Prep Batch: 16424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10005-41	C-41	Total/NA	Solid	8015NM Prep	
880-10005-42	C-42	Total/NA	Solid	8015NM Prep	
880-10005-43	C-43	Total/NA	Solid	8015NM Prep	
880-10005-44	C-44	Total/NA	Solid	8015NM Prep	
880-10005-45	C-45	Total/NA	Solid	8015NM Prep	
880-10005-46	C-46	Total/NA	Solid	8015NM Prep	
880-10005-47	C-47	Total/NA	Solid	8015NM Prep	
MB 880-16424/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

GC Semi VOA (Continued)

Prep Batch: 16424 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-16424/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-16424/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1808-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1808-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 16425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10005-21	C-21	Total/NA	Solid	8015NM Prep	
880-10005-22	C-22	Total/NA	Solid	8015NM Prep	
880-10005-23	C-23	Total/NA	Solid	8015NM Prep	
880-10005-24	C-24	Total/NA	Solid	8015NM Prep	
880-10005-25	C-25	Total/NA	Solid	8015NM Prep	
880-10005-26	C-26	Total/NA	Solid	8015NM Prep	
880-10005-27	C-27	Total/NA	Solid	8015NM Prep	
880-10005-28	C-28	Total/NA	Solid	8015NM Prep	
880-10005-29	C-29	Total/NA	Solid	8015NM Prep	
880-10005-30	C-30	Total/NA	Solid	8015NM Prep	
880-10005-31	C-31	Total/NA	Solid	8015NM Prep	
880-10005-32	C-32	Total/NA	Solid	8015NM Prep	
880-10005-33	C-33	Total/NA	Solid	8015NM Prep	
880-10005-34	C-34	Total/NA	Solid	8015NM Prep	
880-10005-35	C-35	Total/NA	Solid	8015NM Prep	
880-10005-36	C-36	Total/NA	Solid	8015NM Prep	
880-10005-37	C-37	Total/NA	Solid	8015NM Prep	
880-10005-38	C-38	Total/NA	Solid	8015NM Prep	
880-10005-39	C-39	Total/NA	Solid	8015NM Prep	
880-10005-40	C-40	Total/NA	Solid	8015NM Prep	
MB 880-16425/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-16425/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-16425/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-10005-21 MS	C-21	Total/NA	Solid	8015NM Prep	
880-10005-21 MSD	C-21	Total/NA	Solid	8015NM Prep	

Analysis Batch: 16478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10005-1	C-1	Total/NA	Solid	8015B NM	16423
880-10005-2	C-2	Total/NA	Solid	8015B NM	16423
880-10005-3	C-3	Total/NA	Solid	8015B NM	16423
880-10005-4	C-4	Total/NA	Solid	8015B NM	16423
880-10005-5	C-5	Total/NA	Solid	8015B NM	16423
880-10005-6	C-6	Total/NA	Solid	8015B NM	16423
880-10005-7	C-7	Total/NA	Solid	8015B NM	16423
880-10005-8	C-8	Total/NA	Solid	8015B NM	16423
880-10005-9	C-9	Total/NA	Solid	8015B NM	16423
880-10005-10	C-10	Total/NA	Solid	8015B NM	16423
880-10005-11	C-11	Total/NA	Solid	8015B NM	16423
880-10005-12	C-12	Total/NA	Solid	8015B NM	16423
880-10005-13	C-13	Total/NA	Solid	8015B NM	16423
880-10005-14	C-14	Total/NA	Solid	8015B NM	16423
880-10005-15	C-15	Total/NA	Solid	8015B NM	16423
880-10005-16	C-16	Total/NA	Solid	8015B NM	16423

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

GC Semi VOA (Continued)

Analysis Batch: 16478 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10005-17	C-17	Total/NA	Solid	8015B NM	16423
880-10005-18	C-18	Total/NA	Solid	8015B NM	16423
880-10005-19	C-19	Total/NA	Solid	8015B NM	16423
880-10005-20	C-20	Total/NA	Solid	8015B NM	16423
MB 880-16423/1-A	Method Blank	Total/NA	Solid	8015B NM	16423
LCS 880-16423/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	16423
LCSD 880-16423/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	16423
880-10005-1 MS	C-1	Total/NA	Solid	8015B NM	16423
880-10005-1 MSD	C-1	Total/NA	Solid	8015B NM	16423

Analysis Batch: 16483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10005-21	C-21	Total/NA	Solid	8015B NM	16425
880-10005-22	C-22	Total/NA	Solid	8015B NM	16425
880-10005-23	C-23	Total/NA	Solid	8015B NM	16425
880-10005-24	C-24	Total/NA	Solid	8015B NM	16425
880-10005-25	C-25	Total/NA	Solid	8015B NM	16425
880-10005-26	C-26	Total/NA	Solid	8015B NM	16425
880-10005-27	C-27	Total/NA	Solid	8015B NM	16425
880-10005-28	C-28	Total/NA	Solid	8015B NM	16425
880-10005-29	C-29	Total/NA	Solid	8015B NM	16425
880-10005-30	C-30	Total/NA	Solid	8015B NM	16425
880-10005-31	C-31	Total/NA	Solid	8015B NM	16425
880-10005-32	C-32	Total/NA	Solid	8015B NM	16425
880-10005-33	C-33	Total/NA	Solid	8015B NM	16425
880-10005-34	C-34	Total/NA	Solid	8015B NM	16425
880-10005-35	C-35	Total/NA	Solid	8015B NM	16425
880-10005-36	C-36	Total/NA	Solid	8015B NM	16425
880-10005-37	C-37	Total/NA	Solid	8015B NM	16425
880-10005-38	C-38	Total/NA	Solid	8015B NM	16425
880-10005-39	C-39	Total/NA	Solid	8015B NM	16425
880-10005-40	C-40	Total/NA	Solid	8015B NM	16425
880-10005-48	C-48	Total/NA	Solid	8015B NM	16541
880-10005-49	C-49	Total/NA	Solid	8015B NM	16541
880-10005-50	C-50	Total/NA	Solid	8015B NM	16541
880-10005-51	C-51	Total/NA	Solid	8015B NM	16541
MB 880-16425/1-A	Method Blank	Total/NA	Solid	8015B NM	16425
MB 880-16541/1-A	Method Blank	Total/NA	Solid	8015B NM	16541
LCS 880-16425/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	16425
LCS 880-16541/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	16541
LCSD 880-16425/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	16425
LCSD 880-16541/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	16541
880-10005-21 MS	C-21	Total/NA	Solid	8015B NM	16425
880-10005-21 MSD	C-21	Total/NA	Solid	8015B NM	16425
880-10005-48 MS	C-48	Total/NA	Solid	8015B NM	16541
880-10005-48 MSD	C-48	Total/NA	Solid	8015B NM	16541

Prep Batch: 16541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10005-48	C-48	Total/NA	Solid	8015NM Prep	
880-10005-49	C-49	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
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GC Semi VOA (Continued)

Prep Batch: 16541 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10005-50	C-50	Total/NA	Solid	8015NM Prep	
880-10005-51	C-51	Total/NA	Solid	8015NM Prep	
MB 880-16541/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-16541/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-16541/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-10005-48 MS	C-48	Total/NA	Solid	8015NM Prep	
880-10005-48 MSD	C-48	Total/NA	Solid	8015NM Prep	

Analysis Batch: 16791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10005-1	C-1	Total/NA	Solid	8015 NM	
880-10005-2	C-2	Total/NA	Solid	8015 NM	
880-10005-3	C-3	Total/NA	Solid	8015 NM	
880-10005-4	C-4	Total/NA	Solid	8015 NM	
880-10005-5	C-5	Total/NA	Solid	8015 NM	
880-10005-6	C-6	Total/NA	Solid	8015 NM	
880-10005-7	C-7	Total/NA	Solid	8015 NM	
880-10005-8	C-8	Total/NA	Solid	8015 NM	
880-10005-9	C-9	Total/NA	Solid	8015 NM	
880-10005-10	C-10	Total/NA	Solid	8015 NM	
880-10005-11	C-11	Total/NA	Solid	8015 NM	
880-10005-12	C-12	Total/NA	Solid	8015 NM	
880-10005-13	C-13	Total/NA	Solid	8015 NM	
880-10005-14	C-14	Total/NA	Solid	8015 NM	
880-10005-15	C-15	Total/NA	Solid	8015 NM	
880-10005-16	C-16	Total/NA	Solid	8015 NM	
880-10005-17	C-17	Total/NA	Solid	8015 NM	
880-10005-18	C-18	Total/NA	Solid	8015 NM	
880-10005-19	C-19	Total/NA	Solid	8015 NM	
880-10005-20	C-20	Total/NA	Solid	8015 NM	
880-10005-21	C-21	Total/NA	Solid	8015 NM	
880-10005-22	C-22	Total/NA	Solid	8015 NM	
880-10005-23	C-23	Total/NA	Solid	8015 NM	
880-10005-24	C-24	Total/NA	Solid	8015 NM	
880-10005-25	C-25	Total/NA	Solid	8015 NM	
880-10005-26	C-26	Total/NA	Solid	8015 NM	
880-10005-27	C-27	Total/NA	Solid	8015 NM	
880-10005-28	C-28	Total/NA	Solid	8015 NM	
880-10005-29	C-29	Total/NA	Solid	8015 NM	
880-10005-30	C-30	Total/NA	Solid	8015 NM	
880-10005-31	C-31	Total/NA	Solid	8015 NM	
880-10005-32	C-32	Total/NA	Solid	8015 NM	
880-10005-33	C-33	Total/NA	Solid	8015 NM	
880-10005-34	C-34	Total/NA	Solid	8015 NM	
880-10005-35	C-35	Total/NA	Solid	8015 NM	
880-10005-36	C-36	Total/NA	Solid	8015 NM	
880-10005-37	C-37	Total/NA	Solid	8015 NM	
880-10005-38	C-38	Total/NA	Solid	8015 NM	
880-10005-39	C-39	Total/NA	Solid	8015 NM	
880-10005-40	C-40	Total/NA	Solid	8015 NM	
880-10005-41	C-41	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

GC Semi VOA (Continued)

Analysis Batch: 16791 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10005-42	C-42	Total/NA	Solid	8015 NM	
880-10005-43	C-43	Total/NA	Solid	8015 NM	
880-10005-44	C-44	Total/NA	Solid	8015 NM	
880-10005-45	C-45	Total/NA	Solid	8015 NM	
880-10005-46	C-46	Total/NA	Solid	8015 NM	
880-10005-47	C-47	Total/NA	Solid	8015 NM	
880-10005-48	C-48	Total/NA	Solid	8015 NM	
880-10005-49	C-49	Total/NA	Solid	8015 NM	
880-10005-50	C-50	Total/NA	Solid	8015 NM	
880-10005-51	C-51	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 16445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10005-20	C-20	Soluble	Solid	DI Leach	
880-10005-21	C-21	Soluble	Solid	DI Leach	
880-10005-22	C-22	Soluble	Solid	DI Leach	
880-10005-23	C-23	Soluble	Solid	DI Leach	
880-10005-24	C-24	Soluble	Solid	DI Leach	
880-10005-25	C-25	Soluble	Solid	DI Leach	
880-10005-26	C-26	Soluble	Solid	DI Leach	
880-10005-27	C-27	Soluble	Solid	DI Leach	
880-10005-28	C-28	Soluble	Solid	DI Leach	
880-10005-29	C-29	Soluble	Solid	DI Leach	
880-10005-30	C-30	Soluble	Solid	DI Leach	
880-10005-31	C-31	Soluble	Solid	DI Leach	
MB 880-16445/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-16445/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-16445/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-10005-22 MS	C-22	Soluble	Solid	DI Leach	
880-10005-22 MSD	C-22	Soluble	Solid	DI Leach	

Leach Batch: 16446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10005-1	C-1	Soluble	Solid	DI Leach	
880-10005-2	C-2	Soluble	Solid	DI Leach	
880-10005-3	C-3	Soluble	Solid	DI Leach	
880-10005-4	C-4	Soluble	Solid	DI Leach	
880-10005-5	C-5	Soluble	Solid	DI Leach	
880-10005-6	C-6	Soluble	Solid	DI Leach	
880-10005-7	C-7	Soluble	Solid	DI Leach	
880-10005-8	C-8	Soluble	Solid	DI Leach	
880-10005-9	C-9	Soluble	Solid	DI Leach	
880-10005-10	C-10	Soluble	Solid	DI Leach	
880-10005-11	C-11	Soluble	Solid	DI Leach	
880-10005-12	C-12	Soluble	Solid	DI Leach	
880-10005-13	C-13	Soluble	Solid	DI Leach	
880-10005-14	C-14	Soluble	Solid	DI Leach	
880-10005-15	C-15	Soluble	Solid	DI Leach	
880-10005-16	C-16	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

HPLC/IC (Continued)

Leach Batch: 16446 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10005-17	C-17	Soluble	Solid	DI Leach	
880-10005-18	C-18	Soluble	Solid	DI Leach	
880-10005-19	C-19	Soluble	Solid	DI Leach	
MB 880-16446/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-16446/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-16446/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-10005-10 MS	C-10	Soluble	Solid	DI Leach	
880-10005-10 MSD	C-10	Soluble	Solid	DI Leach	

Leach Batch: 16447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10005-32	C-32	Soluble	Solid	DI Leach	
880-10005-33	C-33	Soluble	Solid	DI Leach	
880-10005-34	C-34	Soluble	Solid	DI Leach	
880-10005-35	C-35	Soluble	Solid	DI Leach	
880-10005-36	C-36	Soluble	Solid	DI Leach	
880-10005-37	C-37	Soluble	Solid	DI Leach	
880-10005-38	C-38	Soluble	Solid	DI Leach	
880-10005-39	C-39	Soluble	Solid	DI Leach	
880-10005-40	C-40	Soluble	Solid	DI Leach	
880-10005-41	C-41	Soluble	Solid	DI Leach	
880-10005-42	C-42	Soluble	Solid	DI Leach	
880-10005-43	C-43	Soluble	Solid	DI Leach	
880-10005-44	C-44	Soluble	Solid	DI Leach	
880-10005-45	C-45	Soluble	Solid	DI Leach	
880-10005-46	C-46	Soluble	Solid	DI Leach	
880-10005-47	C-47	Soluble	Solid	DI Leach	
880-10005-48	C-48	Soluble	Solid	DI Leach	
880-10005-49	C-49	Soluble	Solid	DI Leach	
880-10005-50	C-50	Soluble	Solid	DI Leach	
880-10005-51	C-51	Soluble	Solid	DI Leach	
MB 880-16447/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-16447/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-16447/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-10005-32 MS	C-32	Soluble	Solid	DI Leach	
880-10005-32 MSD	C-32	Soluble	Solid	DI Leach	
880-10005-42 MS	C-42	Soluble	Solid	DI Leach	
880-10005-42 MSD	C-42	Soluble	Solid	DI Leach	

Analysis Batch: 16561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10005-20	C-20	Soluble	Solid	300.0	16445
880-10005-21	C-21	Soluble	Solid	300.0	16445
880-10005-22	C-22	Soluble	Solid	300.0	16445
880-10005-23	C-23	Soluble	Solid	300.0	16445
880-10005-24	C-24	Soluble	Solid	300.0	16445
880-10005-25	C-25	Soluble	Solid	300.0	16445
880-10005-26	C-26	Soluble	Solid	300.0	16445
880-10005-27	C-27	Soluble	Solid	300.0	16445
880-10005-28	C-28	Soluble	Solid	300.0	16445
880-10005-29	C-29	Soluble	Solid	300.0	16445

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

HPLC/IC (Continued)

Analysis Batch: 16561 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10005-30	C-30	Soluble	Solid	300.0	16445
880-10005-31	C-31	Soluble	Solid	300.0	16445
MB 880-16445/1-A	Method Blank	Soluble	Solid	300.0	16445
LCS 880-16445/2-A	Lab Control Sample	Soluble	Solid	300.0	16445
LCSD 880-16445/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	16445
880-10005-22 MS	C-22	Soluble	Solid	300.0	16445
880-10005-22 MSD	C-22	Soluble	Solid	300.0	16445

Analysis Batch: 16870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10005-1	C-1	Soluble	Solid	300.0	16446
880-10005-2	C-2	Soluble	Solid	300.0	16446
880-10005-3	C-3	Soluble	Solid	300.0	16446
880-10005-4	C-4	Soluble	Solid	300.0	16446
880-10005-5	C-5	Soluble	Solid	300.0	16446
880-10005-6	C-6	Soluble	Solid	300.0	16446
880-10005-7	C-7	Soluble	Solid	300.0	16446
880-10005-8	C-8	Soluble	Solid	300.0	16446
880-10005-9	C-9	Soluble	Solid	300.0	16446
880-10005-10	C-10	Soluble	Solid	300.0	16446
880-10005-11	C-11	Soluble	Solid	300.0	16446
880-10005-12	C-12	Soluble	Solid	300.0	16446
880-10005-13	C-13	Soluble	Solid	300.0	16446
880-10005-14	C-14	Soluble	Solid	300.0	16446
880-10005-15	C-15	Soluble	Solid	300.0	16446
880-10005-16	C-16	Soluble	Solid	300.0	16446
880-10005-17	C-17	Soluble	Solid	300.0	16446
880-10005-18	C-18	Soluble	Solid	300.0	16446
880-10005-19	C-19	Soluble	Solid	300.0	16446
MB 880-16446/1-A	Method Blank	Soluble	Solid	300.0	16446
LCS 880-16446/2-A	Lab Control Sample	Soluble	Solid	300.0	16446
LCSD 880-16446/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	16446
880-10005-10 MS	C-10	Soluble	Solid	300.0	16446
880-10005-10 MSD	C-10	Soluble	Solid	300.0	16446

Analysis Batch: 16871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10005-32	C-32	Soluble	Solid	300.0	16447
880-10005-33	C-33	Soluble	Solid	300.0	16447
880-10005-34	C-34	Soluble	Solid	300.0	16447
880-10005-35	C-35	Soluble	Solid	300.0	16447
880-10005-36	C-36	Soluble	Solid	300.0	16447
880-10005-37	C-37	Soluble	Solid	300.0	16447
880-10005-38	C-38	Soluble	Solid	300.0	16447
880-10005-39	C-39	Soluble	Solid	300.0	16447
880-10005-40	C-40	Soluble	Solid	300.0	16447
880-10005-41	C-41	Soluble	Solid	300.0	16447
880-10005-42	C-42	Soluble	Solid	300.0	16447
880-10005-43	C-43	Soluble	Solid	300.0	16447
880-10005-44	C-44	Soluble	Solid	300.0	16447
880-10005-45	C-45	Soluble	Solid	300.0	16447

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-10005-1
Project/Site: Culebre Bluff SDG: 19-0180-07

HPLC/IC (Continued)

Analysis Batch: 16871 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10005-46	C-46	Soluble	Solid	300.0	16447
880-10005-47	C-47	Soluble	Solid	300.0	16447
880-10005-48	C-48	Soluble	Solid	300.0	16447
880-10005-49	C-49	Soluble	Solid	300.0	16447
880-10005-50	C-50	Soluble	Solid	300.0	16447
880-10005-51	C-51	Soluble	Solid	300.0	16447
MB 880-16447/1-A	Method Blank	Soluble	Solid	300.0	16447
LCS 880-16447/2-A	Lab Control Sample	Soluble	Solid	300.0	16447
LCSD 880-16447/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	16447
880-10005-32 MS	C-32	Soluble	Solid	300.0	16447
880-10005-32 MSD	C-32	Soluble	Solid	300.0	16447
880-10005-42 MS	C-42	Soluble	Solid	300.0	16447
880-10005-42 MSD	C-42	Soluble	Solid	300.0	16447

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

Client Sample ID: C-1

Date Collected: 01/07/22 10:00
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-1
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			4.98 g	5 mL	16386	01/10/22 10:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16472	01/11/22 11:10	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16785	01/13/22 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16423	01/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16478	01/11/22 14:38	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	16446	01/10/22 13:47	CH	XEN MID
Soluble	Analysis	300.0		1			16870	01/15/22 18:07	CH	XEN MID

Client Sample ID: C-2

Date Collected: 01/07/22 10:02
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	16386	01/10/22 10:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16472	01/11/22 11:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16785	01/13/22 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16423	01/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16478	01/11/22 15:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	16446	01/10/22 13:47	CH	XEN MID
Soluble	Analysis	300.0		5			16870	01/15/22 18:15	CH	XEN MID

Client Sample ID: C-3

Date Collected: 01/07/22 10:04
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-3
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			5.00 g	5 mL	16386	01/10/22 10:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16472	01/11/22 11:51	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16785	01/13/22 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16423	01/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16478	01/11/22 16:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	16446	01/10/22 13:47	CH	XEN MID
Soluble	Analysis	300.0		5			16870	01/15/22 18:23	CH	XEN MID

Client Sample ID: C-4

Date Collected: 01/07/22 10:06
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-4
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			5.00 g	5 mL	16386	01/10/22 10:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16472	01/11/22 12:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16785	01/13/22 13:36	AJ	XEN MID

Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-10005-1
Project/Site: Culebre Bluff SDG: 19-0180-07

Client Sample ID: C-4 Lab Sample ID: 880-10005-4

Date Collected: 01/07/22 10:06 **Matrix: Solid**
Date Received: 01/10/22 08:54

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			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	16423	01/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16478	01/11/22 16:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	16446	01/10/22 13:47	CH	XEN MID
Soluble	Analysis	300.0		1			16870	01/15/22 18:32	CH	XEN MID

Client Sample ID: C-5 Lab Sample ID: 880-10005-5

Date Collected: 01/07/22 10:08 **Matrix: Solid**
Date Received: 01/10/22 08:54

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	16386	01/10/22 10:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16472	01/11/22 12:32	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16785	01/13/22 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16423	01/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16478	01/11/22 16:41	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	16446	01/10/22 13:47	CH	XEN MID
Soluble	Analysis	300.0		1			16870	01/17/22 14:04	CH	XEN MID

Client Sample ID: C-6 Lab Sample ID: 880-10005-6

Date Collected: 01/07/22 10:10 **Matrix: Solid**
Date Received: 01/10/22 08:54

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	16386	01/10/22 10:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16472	01/11/22 12:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16785	01/13/22 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16423	01/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16478	01/11/22 17:02	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	16446	01/10/22 13:47	CH	XEN MID
Soluble	Analysis	300.0		5			16870	01/15/22 18:58	CH	XEN MID

Client Sample ID: C-7 Lab Sample ID: 880-10005-7

Date Collected: 01/07/22 10:12 **Matrix: Solid**
Date Received: 01/10/22 08:54

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	16386	01/10/22 10:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16472	01/11/22 13:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16785	01/13/22 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16423	01/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16478	01/11/22 17:23	AJ	XEN MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

Client Sample ID: C-7

Date Collected: 01/07/22 10:12
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	16446	01/10/22 13:47	CH	XEN MID
Soluble	Analysis	300.0		5			16870	01/15/22 19:07	CH	XEN MID

Client Sample ID: C-8

Date Collected: 01/07/22 10:14
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	16386	01/10/22 10:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16472	01/11/22 13:33	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16785	01/13/22 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16423	01/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16478	01/11/22 17:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	16446	01/10/22 13:47	CH	XEN MID
Soluble	Analysis	300.0		5			16870	01/15/22 19:15	CH	XEN MID

Client Sample ID: C-9

Date Collected: 01/07/22 10:16
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	16386	01/10/22 10:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16472	01/11/22 13:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16785	01/13/22 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16423	01/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16478	01/11/22 18:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	16446	01/10/22 13:47	CH	XEN MID
Soluble	Analysis	300.0		10			16870	01/15/22 19:23	CH	XEN MID

Client Sample ID: C-10

Date Collected: 01/07/22 10:18
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	16386	01/10/22 10:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16472	01/11/22 14:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16785	01/13/22 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16423	01/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16478	01/11/22 18:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	16446	01/10/22 13:47	CH	XEN MID
Soluble	Analysis	300.0		5			16870	01/15/22 19:32	CH	XEN MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

Client Sample ID: C-11

Date Collected: 01/07/22 10:20
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	16386	01/10/22 10:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16472	01/11/22 15:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16785	01/13/22 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16423	01/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16478	01/11/22 19:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	16446	01/10/22 13:47	CH	XEN MID
Soluble	Analysis	300.0		5			16870	01/15/22 19:57	CH	XEN MID

Client Sample ID: C-12

Date Collected: 01/07/22 10:22
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	16386	01/10/22 10:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16472	01/11/22 15:57	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16785	01/13/22 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16423	01/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16478	01/11/22 19:28	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	16446	01/10/22 13:47	CH	XEN MID
Soluble	Analysis	300.0		1			16870	01/15/22 20:05	CH	XEN MID

Client Sample ID: C-13

Date Collected: 01/07/22 10:24
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	16386	01/10/22 10:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16472	01/11/22 16:17	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16785	01/13/22 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16423	01/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16478	01/11/22 19:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	16446	01/10/22 13:47	CH	XEN MID
Soluble	Analysis	300.0		1			16870	01/15/22 20:30	CH	XEN MID

Client Sample ID: C-14

Date Collected: 01/07/22 10:26
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	16386	01/10/22 10:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16472	01/11/22 16:37	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16785	01/13/22 13:36	AJ	XEN MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

Client Sample ID: C-14

Date Collected: 01/07/22 10:26
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-14

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			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	16423	01/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16478	01/11/22 20:10	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	16446	01/10/22 13:47	CH	XEN MID
Soluble	Analysis	300.0		5			16870	01/15/22 20:38	CH	XEN MID

Client Sample ID: C-15

Date Collected: 01/07/22 10:28
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-15

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			5.04 g	5 mL	16386	01/10/22 10:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16472	01/11/22 16:58	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16785	01/13/22 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16423	01/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16478	01/11/22 20:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	16446	01/10/22 13:47	CH	XEN MID
Soluble	Analysis	300.0		5			16870	01/15/22 20:47	CH	XEN MID

Client Sample ID: C-16

Date Collected: 01/07/22 10:30
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	16386	01/10/22 10:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16472	01/11/22 17:18	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16785	01/13/22 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16423	01/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16478	01/11/22 20:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	16446	01/10/22 13:47	CH	XEN MID
Soluble	Analysis	300.0		5			16870	01/15/22 20:55	CH	XEN MID

Client Sample ID: C-17

Date Collected: 01/07/22 10:32
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	16386	01/10/22 10:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16472	01/11/22 17:39	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16785	01/13/22 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	16423	01/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16478	01/11/22 21:15	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

Client Sample ID: C-17

Date Collected: 01/07/22 10:32
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	16446	01/10/22 13:47	CH	XEN MID
Soluble	Analysis	300.0		5			16870	01/15/22 21:03	CH	XEN MID

Client Sample ID: C-18

Date Collected: 01/07/22 10:34
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	16386	01/10/22 10:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16472	01/11/22 17:59	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16785	01/13/22 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16423	01/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16478	01/11/22 21:37	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	16446	01/10/22 13:47	CH	XEN MID
Soluble	Analysis	300.0		5			16870	01/15/22 21:12	CH	XEN MID

Client Sample ID: C-19

Date Collected: 01/07/22 10:36
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-19
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	16386	01/10/22 10:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16472	01/11/22 18:19	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16785	01/13/22 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16423	01/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16478	01/11/22 21:58	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	16446	01/10/22 13:47	CH	XEN MID
Soluble	Analysis	300.0		5			16870	01/15/22 21:20	CH	XEN MID

Client Sample ID: C-20

Date Collected: 01/07/22 10:38
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-20
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	16386	01/10/22 10:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16472	01/11/22 18:40	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16785	01/13/22 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16423	01/10/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16478	01/11/22 22:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	16445	01/10/22 13:45	CH	XEN MID
Soluble	Analysis	300.0		5			16561	01/14/22 17:18	CH	XEN MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

Client Sample ID: C-21

Date Collected: 01/07/22 10:40
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	16392	01/10/22 10:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16475	01/11/22 17:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16594	01/12/22 08:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16425	01/10/22 11:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16483	01/11/22 11:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	16445	01/10/22 13:45	CH	XEN MID
Soluble	Analysis	300.0		1			16561	01/14/22 16:41	CH	XEN MID

Client Sample ID: C-22

Date Collected: 01/07/22 10:42
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-22

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	16392	01/10/22 10:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16475	01/11/22 17:23	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16594	01/12/22 08:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16425	01/10/22 11:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16483	01/11/22 12:43	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	16445	01/10/22 13:45	CH	XEN MID
Soluble	Analysis	300.0		1			16561	01/14/22 16:47	CH	XEN MID

Client Sample ID: C-23

Date Collected: 01/07/22 10:44
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	16392	01/10/22 10:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16475	01/11/22 17:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16594	01/12/22 08:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16425	01/10/22 11:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16483	01/11/22 13:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	16445	01/10/22 13:45	CH	XEN MID
Soluble	Analysis	300.0		1			16561	01/14/22 16:53	CH	XEN MID

Client Sample ID: C-24

Date Collected: 01/07/22 10:46
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-24

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	16392	01/10/22 10:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16475	01/11/22 18:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16594	01/12/22 08:29	AJ	XEN MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

Client Sample ID: C-24

Date Collected: 01/07/22 10:46
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-24

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	16425	01/10/22 11:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16483	01/11/22 13:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	16445	01/10/22 13:45	CH	XEN MID
Soluble	Analysis	300.0		1			16561	01/14/22 13:35	CH	XEN MID

Client Sample ID: C-25

Date Collected: 01/07/22 10:48
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-25

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	16392	01/10/22 10:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16475	01/11/22 18:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16594	01/12/22 08:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16425	01/10/22 11:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16483	01/11/22 13:44	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	16445	01/10/22 13:45	CH	XEN MID
Soluble	Analysis	300.0		1			16561	01/17/22 17:42	CH	XEN MID

Client Sample ID: C-26

Date Collected: 01/07/22 10:50
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-26

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	16392	01/10/22 10:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16475	01/11/22 18:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16594	01/12/22 08:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16425	01/10/22 11:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16483	01/11/22 14:05	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	16445	01/10/22 13:45	CH	XEN MID
Soluble	Analysis	300.0		5			16561	01/17/22 17:50	CH	XEN MID

Client Sample ID: C-27

Date Collected: 01/07/22 10:52
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-27

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	16392	01/10/22 10:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16475	01/11/22 19:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16594	01/12/22 08:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16425	01/10/22 11:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16483	01/11/22 14:26	AJ	XEN MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

Client Sample ID: C-27
Date Collected: 01/07/22 10:52
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	16445	01/10/22 13:45	CH	XEN MID
Soluble	Analysis	300.0		5			16561	01/17/22 17:59	CH	XEN MID

Client Sample ID: C-28
Date Collected: 01/07/22 10:54
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	16392	01/10/22 10:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16475	01/11/22 19:27	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16594	01/12/22 08:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16425	01/10/22 11:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16483	01/11/22 14:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	16445	01/10/22 13:45	CH	XEN MID
Soluble	Analysis	300.0		5			16561	01/17/22 18:41	CH	XEN MID

Client Sample ID: C-29
Date Collected: 01/07/22 10:56
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	16392	01/10/22 10:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16475	01/11/22 19:48	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16594	01/12/22 08:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16425	01/10/22 11:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16483	01/11/22 15:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	16445	01/10/22 13:45	CH	XEN MID
Soluble	Analysis	300.0		5			16561	01/17/22 18:49	CH	XEN MID

Client Sample ID: C-30
Date Collected: 01/07/22 10:58
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	16392	01/10/22 10:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16475	01/11/22 20:09	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16594	01/12/22 08:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16425	01/10/22 11:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16483	01/11/22 15:27	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	16445	01/10/22 13:45	CH	XEN MID
Soluble	Analysis	300.0		5			16561	01/17/22 18:58	CH	XEN MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

Client Sample ID: C-31

Date Collected: 01/07/22 11:00
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-31

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	16392	01/10/22 10:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16475	01/11/22 21:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16594	01/12/22 08:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16425	01/10/22 11:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16483	01/11/22 16:44	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	16445	01/10/22 13:45	CH	XEN MID
Soluble	Analysis	300.0		5			16561	01/17/22 19:06	CH	XEN MID

Client Sample ID: C-32

Date Collected: 01/07/22 11:02
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-32

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	16392	01/10/22 10:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16475	01/11/22 21:55	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16594	01/12/22 08:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16425	01/10/22 11:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16483	01/11/22 17:05	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	16447	01/10/22 13:49	CH	XEN MID
Soluble	Analysis	300.0		5			16871	01/14/22 21:37	CH	XEN MID

Client Sample ID: C-33

Date Collected: 01/07/22 11:04
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-33

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	16392	01/10/22 10:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16475	01/11/22 22:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16594	01/12/22 08:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16425	01/10/22 11:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16483	01/11/22 19:05	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	16447	01/10/22 13:49	CH	XEN MID
Soluble	Analysis	300.0		5			16871	01/14/22 22:13	CH	XEN MID

Client Sample ID: C-34

Date Collected: 01/07/22 11:06
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-34

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	16392	01/10/22 10:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16475	01/11/22 22:37	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16594	01/12/22 08:29	AJ	XEN MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

Client Sample ID: C-34

Date Collected: 01/07/22 11:06
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-34

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	16425	01/10/22 11:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16483	01/11/22 19:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	16447	01/10/22 13:49	CH	XEN MID
Soluble	Analysis	300.0		5			16871	01/14/22 22:24	CH	XEN MID

Client Sample ID: C-35

Date Collected: 01/07/22 11:08
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-35

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	16392	01/10/22 10:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16475	01/11/22 22:58	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16594	01/12/22 08:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16425	01/10/22 11:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16483	01/11/22 19:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	16447	01/10/22 13:49	CH	XEN MID
Soluble	Analysis	300.0		5			16871	01/14/22 22:36	CH	XEN MID

Client Sample ID: C-36

Date Collected: 01/07/22 11:10
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-36

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	16392	01/10/22 10:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16475	01/11/22 23:19	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16594	01/12/22 08:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16425	01/10/22 11:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16483	01/11/22 20:11	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	16447	01/10/22 13:49	CH	XEN MID
Soluble	Analysis	300.0		5			16871	01/14/22 22:48	CH	XEN MID

Client Sample ID: C-37

Date Collected: 01/07/22 11:12
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-37

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	16392	01/10/22 10:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16475	01/11/22 23:40	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16594	01/12/22 08:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	16425	01/10/22 11:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16483	01/11/22 20:33	AJ	XEN MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

Client Sample ID: C-37
Date Collected: 01/07/22 11:12
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	16447	01/10/22 13:49	CH	XEN MID
Soluble	Analysis	300.0		5			16871	01/14/22 23:24	CH	XEN MID

Client Sample ID: C-38
Date Collected: 01/07/22 11:14
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-38
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	16392	01/10/22 10:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16475	01/12/22 00:00	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16594	01/12/22 08:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16425	01/10/22 11:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16483	01/11/22 20:56	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	16447	01/10/22 13:49	CH	XEN MID
Soluble	Analysis	300.0		5			16871	01/14/22 23:36	CH	XEN MID

Client Sample ID: C-39
Date Collected: 01/07/22 11:16
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-39
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	16392	01/10/22 10:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16475	01/12/22 00:22	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16594	01/12/22 08:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16425	01/10/22 11:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16483	01/11/22 21:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	16447	01/10/22 13:49	CH	XEN MID
Soluble	Analysis	300.0		5			16871	01/14/22 23:47	CH	XEN MID

Client Sample ID: C-40
Date Collected: 01/07/22 11:18
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-40
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	16392	01/10/22 10:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16475	01/12/22 00:43	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16594	01/12/22 08:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16425	01/10/22 11:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16483	01/11/22 21:41	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	16447	01/10/22 13:49	CH	XEN MID
Soluble	Analysis	300.0		5			16871	01/14/22 23:59	CH	XEN MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

Client Sample ID: C-41

Date Collected: 01/07/22 11:20
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-41

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	16376	01/11/22 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16472	01/11/22 22:03	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16785	01/13/22 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16424	01/10/22 11:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16336	01/11/22 02:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	16447	01/10/22 13:49	CH	XEN MID
Soluble	Analysis	300.0		1			16871	01/15/22 00:11	CH	XEN MID

Client Sample ID: C-42

Date Collected: 01/07/22 11:22
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-42

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	16376	01/11/22 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16472	01/11/22 22:23	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16785	01/13/22 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16424	01/10/22 11:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16336	01/11/22 02:30	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	16447	01/10/22 13:49	CH	XEN MID
Soluble	Analysis	300.0		5			16871	01/15/22 00:23	CH	XEN MID

Client Sample ID: C-43

Date Collected: 01/07/22 11:24
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-43

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	16376	01/11/22 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16472	01/11/22 22:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16785	01/13/22 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16424	01/10/22 11:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16336	01/11/22 02:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	16447	01/10/22 13:49	CH	XEN MID
Soluble	Analysis	300.0		1			16871	01/15/22 00:58	CH	XEN MID

Client Sample ID: C-44

Date Collected: 01/07/22 11:26
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-44

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	16376	01/11/22 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16472	01/11/22 23:05	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16785	01/13/22 13:36	AJ	XEN MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

Client Sample ID: C-44
Date Collected: 01/07/22 11:26
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-44
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			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	16424	01/10/22 11:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16336	01/11/22 03:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	16447	01/10/22 13:49	CH	XEN MID
Soluble	Analysis	300.0		1			16871	01/15/22 01:10	CH	XEN MID

Client Sample ID: C-45
Date Collected: 01/07/22 11:28
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-45
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	16376	01/11/22 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16472	01/11/22 23:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16785	01/13/22 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16424	01/10/22 11:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16336	01/11/22 03:32	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	16447	01/10/22 13:49	CH	XEN MID
Soluble	Analysis	300.0		1			16871	01/15/22 01:46	CH	XEN MID

Client Sample ID: C-46
Date Collected: 01/07/22 11:30
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-46
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	16376	01/11/22 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16472	01/11/22 23:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16785	01/13/22 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16424	01/10/22 11:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16336	01/11/22 03:53	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	16447	01/10/22 13:49	CH	XEN MID
Soluble	Analysis	300.0		1			16871	01/15/22 01:58	CH	XEN MID

Client Sample ID: C-47
Date Collected: 01/07/22 11:32
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-47
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	16376	01/11/22 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16472	01/12/22 00:06	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16785	01/13/22 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	16424	01/10/22 11:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16336	01/11/22 04:14	AJ	XEN MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

Client Sample ID: C-47
Date Collected: 01/07/22 11:32
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-47
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	16447	01/10/22 13:49	CH	XEN MID
Soluble	Analysis	300.0		5			16871	01/15/22 02:10	CH	XEN MID

Client Sample ID: C-48
Date Collected: 01/07/22 11:34
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-48
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	16376	01/11/22 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16472	01/12/22 00:27	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16785	01/13/22 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16541	01/11/22 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16483	01/11/22 23:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	16447	01/10/22 13:49	CH	XEN MID
Soluble	Analysis	300.0		1			16871	01/15/22 02:21	CH	XEN MID

Client Sample ID: C-49
Date Collected: 01/07/22 11:36
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-49
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	16376	01/11/22 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16472	01/12/22 00:47	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16785	01/13/22 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16541	01/11/22 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16483	01/12/22 00:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	16447	01/10/22 13:49	CH	XEN MID
Soluble	Analysis	300.0		1			16871	01/15/22 02:33	CH	XEN MID

Client Sample ID: C-50
Date Collected: 01/07/22 11:38
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-50
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	16376	01/11/22 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16472	01/12/22 01:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16785	01/13/22 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16541	01/11/22 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16483	01/12/22 01:13	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	16447	01/10/22 13:49	CH	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	16871	01/15/22 02:45	CH	XEN MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

Client Sample ID: C-51

Date Collected: 01/07/22 11:40
Date Received: 01/10/22 08:54

Lab Sample ID: 880-10005-51

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	16376	01/11/22 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16472	01/12/22 02:32	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16785	01/13/22 13:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16791	01/13/22 14:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	16541	01/11/22 13:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16483	01/12/22 01:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	16447	01/10/22 13:49	CH	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	16871	01/15/22 02:57	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-10005-1
Project/Site: Culebre Bluff SDG: 19-0180-07

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	T104704400-21-22	06-30-22

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: 880-10005-1
Project/Site: Culebre Bluff SDG: 19-0180-07

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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:

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

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff

Job ID: 880-10005-1
SDG: 19-0180-07

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-10005-1	C-1	Solid	01/07/22 10:00	01/10/22 08:54
880-10005-2	C-2	Solid	01/07/22 10:02	01/10/22 08:54
880-10005-3	C-3	Solid	01/07/22 10:04	01/10/22 08:54
880-10005-4	C-4	Solid	01/07/22 10:06	01/10/22 08:54
880-10005-5	C-5	Solid	01/07/22 10:08	01/10/22 08:54
880-10005-6	C-6	Solid	01/07/22 10:10	01/10/22 08:54
880-10005-7	C-7	Solid	01/07/22 10:12	01/10/22 08:54
880-10005-8	C-8	Solid	01/07/22 10:14	01/10/22 08:54
880-10005-9	C-9	Solid	01/07/22 10:16	01/10/22 08:54
880-10005-10	C-10	Solid	01/07/22 10:18	01/10/22 08:54
880-10005-11	C-11	Solid	01/07/22 10:20	01/10/22 08:54
880-10005-12	C-12	Solid	01/07/22 10:22	01/10/22 08:54
880-10005-13	C-13	Solid	01/07/22 10:24	01/10/22 08:54
880-10005-14	C-14	Solid	01/07/22 10:26	01/10/22 08:54
880-10005-15	C-15	Solid	01/07/22 10:28	01/10/22 08:54
880-10005-16	C-16	Solid	01/07/22 10:30	01/10/22 08:54
880-10005-17	C-17	Solid	01/07/22 10:32	01/10/22 08:54
880-10005-18	C-18	Solid	01/07/22 10:34	01/10/22 08:54
880-10005-19	C-19	Solid	01/07/22 10:36	01/10/22 08:54
880-10005-20	C-20	Solid	01/07/22 10:38	01/10/22 08:54
880-10005-21	C-21	Solid	01/07/22 10:40	01/10/22 08:54
880-10005-22	C-22	Solid	01/07/22 10:42	01/10/22 08:54
880-10005-23	C-23	Solid	01/07/22 10:44	01/10/22 08:54
880-10005-24	C-24	Solid	01/07/22 10:46	01/10/22 08:54
880-10005-25	C-25	Solid	01/07/22 10:48	01/10/22 08:54
880-10005-26	C-26	Solid	01/07/22 10:50	01/10/22 08:54
880-10005-27	C-27	Solid	01/07/22 10:52	01/10/22 08:54
880-10005-28	C-28	Solid	01/07/22 10:54	01/10/22 08:54
880-10005-29	C-29	Solid	01/07/22 10:56	01/10/22 08:54
880-10005-30	C-30	Solid	01/07/22 10:58	01/10/22 08:54
880-10005-31	C-31	Solid	01/07/22 11:00	01/10/22 08:54
880-10005-32	C-32	Solid	01/07/22 11:02	01/10/22 08:54
880-10005-33	C-33	Solid	01/07/22 11:04	01/10/22 08:54
880-10005-34	C-34	Solid	01/07/22 11:06	01/10/22 08:54
880-10005-35	C-35	Solid	01/07/22 11:08	01/10/22 08:54
880-10005-36	C-36	Solid	01/07/22 11:10	01/10/22 08:54
880-10005-37	C-37	Solid	01/07/22 11:12	01/10/22 08:54
880-10005-38	C-38	Solid	01/07/22 11:14	01/10/22 08:54
880-10005-39	C-39	Solid	01/07/22 11:16	01/10/22 08:54
880-10005-40	C-40	Solid	01/07/22 11:18	01/10/22 08:54
880-10005-41	C-41	Solid	01/07/22 11:20	01/10/22 08:54
880-10005-42	C-42	Solid	01/07/22 11:22	01/10/22 08:54
880-10005-43	C-43	Solid	01/07/22 11:24	01/10/22 08:54
880-10005-44	C-44	Solid	01/07/22 11:26	01/10/22 08:54
880-10005-45	C-45	Solid	01/07/22 11:28	01/10/22 08:54
880-10005-46	C-46	Solid	01/07/22 11:30	01/10/22 08:54
880-10005-47	C-47	Solid	01/07/22 11:32	01/10/22 08:54
880-10005-48	C-48	Solid	01/07/22 11:34	01/10/22 08:54
880-10005-49	C-49	Solid	01/07/22 11:36	01/10/22 08:54
880-10005-50	C-50	Solid	01/07/22 11:38	01/10/22 08:54
880-10005-51	C-51	Solid	01/07/22 11:40	01/10/22 08:54

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No. 2303

10005
1005

CHAIN-OF-CUSTODY

1/18/2022

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

Data Reported to:

DATE: 11/01/2022 PAGE 1 OF 4

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Culebra Bluff

LAI PROJECT #: 19-0180-07 COLLECTOR: JR

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST/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 8021 ☐ 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 ☐	6082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-1		11/1/22	1000	S	1				X		X		X	X	X														X		202
C-2			1002																												
C-3			1004																												
C-4			1006																												
C-5			1008																												
C-6			1010																												
C-7			1012																												
C-8			1014																												
C-9			1016																												
C-10			1018																												
C-11			1020																												
C-12			1022																												
C-13			1024																												
C-14			1026																												
C-15			1028																												
TOTAL					15																										

880-10005 Chain of Custody

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
	11/10/22 0854	
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)

LABORATORY: Xenco

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

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

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Received by OCD: 5/8/2024 10:38:54 AM

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No. 2304

10005
~~0005~~ LR

CHAIN-OF-CUSTODY

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

DATE: 1/10/2022 PAGE 2 OF 4
PO#: LAB WORK ORDER#:
PROJECT LOCATION OR NAME: Culebra Bluff
LAI PROJECT #: 19-0180-07 COLLECTOR: JR
Data Reported to:

TRRP report? ☐ Yes ☒ No

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

TIME ZONE: Time zone/State: MST/NM

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH	ICE	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 ☐	8082 PCBS ☐	8151 HERBICIDES ☐	TCLP - METALS (RCRA) ☐	TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐	OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐	TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐	CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-16		1/7/22	1030	S	1				X		X		X	X	X																		X		
C-17		"	1032	"	"				"		"		"	"	"																		"		
C-18			1034																																
C-19			1036																																
C-20			1038																																
C-21			1040																																
C-22			1042																																
C-23			1044																																
C-24			1046																																
C-25			1048																																
C-26			1050																																
C-27			1052																																
C-28			1054																																
C-29			1056																																
C-30		"	1058	"	"				"		"		"	"	"																		"		
TOTAL					15																														

RELINQUISHED BY:(Signature) DATE/TIME 1/10/22 0854 RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)
LABORATORY: Xenco

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

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

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1/18/2022

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No. 2305

CHAIN-OF-CUSTODY

1/18/2022

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

DATE: 1/10/2022 PAGE 3 OF 4

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Culebra Bluff

LAI PROJECT #: 19-0180-07 COLLECTOR: JR

Data Reported to:

TRRP report? ☐ Yes ☒ No

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

TIME ZONE: Time zone/State: MST/NM

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 - PEST ☐ | TCLP VOC ☐ | 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 Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 NaOH	ICE	UNPRESSERVED	ANALYSES	FIELD NOTES
C-31		1/7/22	1100	S	1				X		BTEX, GASOLINE MOD 8015, DIESEL - MOD 8015, OIL - MOD 8015, CHLORIDE	
C-32			1102									
C-33			1104									
C-34			1106									
C-35			1108									
C-36			1110									
C-37			1112									
C-38			1114									
C-39			1116									
C-40			1118									
C-41			1120									
C-42			1122									
C-43			1124									
C-44			1126									
C-45			1128									
TOTAL					15							

RELINQUISHED BY:(Signature) DATE/TIME 1/10/22 0851 RECEIVED BY: (Signature)

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

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

LABORATORY: Xenco

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

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

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10005
~~1005~~ LR

No. 2306

CHAIN-OF-CUSTODY

1/18/2022

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

Data Reported to:

DATE: 1/10/2022 PAGE 4 OF 4

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Culebra Bluff

LAI PROJECT #: 190180-07 COLLECTOR: JR

TRRP report? ☐ Yes ☒ No

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

TIME ZONE: Time zone/State: MST / NM

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH	ICE	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 - PEST ☐ HERB ☐	TCLP VOC ☐	TOTAL METALS (RCRA) ☐	Semi-VOC ☐	LEAD - TOTAL ☐	OTHER LIST ☐	RCI ☐	D.W. 200.8 ☐	TOX ☐	TCLP ☐	TDS ☐	TSS ☐	FLASHPOINT ☐	pH ☐	% MOISTURE ☐	HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐	CYANIDE ☐	CHLORIDE ☒	PECHLORATE ☐	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
C-46		1/7/22	1130	S	1				X		X		X	X	X																								X				
C-47		"	1132	"	"				"		"		"	"	"																								"				
C-48		"	1134	"	"				"		"		"	"	"																								"				
C-49		"	1136	"	"				"		"		"	"	"																								"				
C-50		"	1138	"	"				"		"		"	"	"																								"				
C-51		"	1140	"	"				"		"		"	"	"																								"				
TOTAL					6																																						

RELINQUISHED BY:(Signature) DATE/TIME 1/10/22 0854 RECEIVED BY: (Signature)

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

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

LABORATORY: Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP: 0 / 1.2 THERM#: IR8
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL #
☑ HAND DELIVERED

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Received by OCD: 5/8/2024 10:38:54 AM

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Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-10005-1
SDG Number: 19-0180-07

Login Number: 10005
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 America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-10171-1
Laboratory Sample Delivery Group: 19-0180-07
Client Project/Site: Culebre Bluff SE 532 Fed Com 3

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

Holly Taylor

Authorized for release by:
1/20/2022 3:47:47 PM

Holly Taylor, Project Manager
(806)794-1296
holly.taylor@eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD 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.

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

Job ID: 880-10171-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-10171-1

Comments
No additional comments.

Receipt
The samples were received on 1/13/2022 8:25 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 was 0.2º C.

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: (MB 880-16834/5-A) and (MB 880-16835/5-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-16835 and analytical batch 880-16936 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-16740 and analytical batch 880-16837 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C56 2' (880-10171-5) and C63 2' (880-10171-12). Evidence of matrix interferences is not obvious.

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

GC Semi VOA
Method 8015B NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-16817 and analytical batch 880-16954 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

General Chemistry
Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-16771 and analytical batch 880-16934 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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

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

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C52 2'

Lab Sample ID: 880-10171-1
Date Collected: 01/12/22 08:00
Matrix: Solid
Date Received: 01/13/22 08:25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199		mg/Kg		01/13/22 10:34	01/15/22 16:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/13/22 10:34	01/15/22 16:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/13/22 10:34	01/15/22 16:26	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/13/22 10:34	01/15/22 16:26	1
o-Xylene	<0.00199	U F2 F1	0.00199		mg/Kg		01/13/22 10:34	01/15/22 16:26	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		01/13/22 10:34	01/15/22 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*01/13/22 10:34*	*01/15/22 16:26*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*01/13/22 10:34*	*01/15/22 16:26*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/20/22 16:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/17/22 12:45	1

Method: 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 F2	49.9		mg/Kg		01/14/22 08:17	01/16/22 12:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/14/22 08:17	01/16/22 12:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/14/22 08:17	01/16/22 12:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*87*		*70 - 130*	*01/14/22 08:17*	*01/16/22 12:46*	*1*
o-Terphenyl (Surr)	*81*		*70 - 130*	*01/14/22 08:17*	*01/16/22 12:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**262**		4.95		mg/Kg			01/17/22 20:00	1

Client Sample ID: C53 2'

Lab Sample ID: 880-10171-2
Date Collected: 01/12/22 08:02
Matrix: Solid
Date Received: 01/13/22 08:25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/13/22 10:34	01/15/22 16:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/13/22 10:34	01/15/22 16:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/13/22 10:34	01/15/22 16:47	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/13/22 10:34	01/15/22 16:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/13/22 10:34	01/15/22 16:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/13/22 10:34	01/15/22 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*01/13/22 10:34*	*01/15/22 16:47*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*01/13/22 10:34*	*01/15/22 16:47*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C53 2'

Lab Sample ID: 880-10171-2
Date Collected: 01/12/22 08:02
Matrix: Solid
Date Received: 01/13/22 08:25

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/20/22 16:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/17/22 12:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 13:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 13:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*82*		*70 - 130*	*01/14/22 08:17*	*01/16/22 13:49*	*1*
o-Terphenyl (Surr)	*79*		*70 - 130*	*01/14/22 08:17*	*01/16/22 13:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**299**		5.04		mg/Kg			01/17/22 20:22	1

Client Sample ID: C54 2'

Lab Sample ID: 880-10171-3
Date Collected: 01/12/22 08:04
Matrix: Solid
Date Received: 01/13/22 08:25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/13/22 10:34	01/15/22 17:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/13/22 10:34	01/15/22 17:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/13/22 10:34	01/15/22 17:07	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		01/13/22 10:34	01/15/22 17:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/13/22 10:34	01/15/22 17:07	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/13/22 10:34	01/15/22 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*01/13/22 10:34*	*01/15/22 17:07*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*01/13/22 10:34*	*01/15/22 17:07*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/20/22 16:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/17/22 12:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/14/22 08:17	01/16/22 14:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/14/22 08:17	01/16/22 14:10	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C54 2' — Lab Sample ID: 880-10171-3

Date Collected: 01/12/22 08:04 **Matrix: Solid**
Date Received: 01/13/22 08:25

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/14/22 08:17	01/16/22 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*85*		*70 - 130*	*01/14/22 08:17*	*01/16/22 14:10*	*1*
o-Terphenyl (Surr)	*88*		*70 - 130*	*01/14/22 08:17*	*01/16/22 14:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**244**		4.95		mg/Kg			01/17/22 20:30	1

Client Sample ID: C55 2' — Lab Sample ID: 880-10171-4

Date Collected: 01/12/22 08:06 **Matrix: Solid**
Date Received: 01/13/22 08:25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/13/22 10:34	01/15/22 17:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/13/22 10:34	01/15/22 17:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/13/22 10:34	01/15/22 17:27	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/13/22 10:34	01/15/22 17:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/13/22 10:34	01/15/22 17:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/13/22 10:34	01/15/22 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*01/13/22 10:34*	*01/15/22 17:27*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*01/13/22 10:34*	*01/15/22 17:27*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/20/22 16:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/17/22 12:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/14/22 08:17	01/16/22 14:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/14/22 08:17	01/16/22 14:30	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/14/22 08:17	01/16/22 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*83*		*70 - 130*	*01/14/22 08:17*	*01/16/22 14:30*	*1*
o-Terphenyl (Surr)	*84*		*70 - 130*	*01/14/22 08:17*	*01/16/22 14:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**510**		5.00		mg/Kg			01/17/22 20:37	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C56 2'

Lab Sample ID: 880-10171-5
Date Collected: 01/12/22 08:08
Matrix: Solid
Date Received: 01/13/22 08:25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/13/22 10:34	01/15/22 17:48	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/13/22 10:34	01/15/22 17:48	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/13/22 10:34	01/15/22 17:48	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/13/22 10:34	01/15/22 17:48	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/13/22 10:34	01/15/22 17:48	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/13/22 10:34	01/15/22 17:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*142*	*S1+*	*70 - 130*	*01/13/22 10:34*	*01/15/22 17:48*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*01/13/22 10:34*	*01/15/22 17:48*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/20/22 16:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**64.1**		50.0		mg/Kg			01/17/22 12:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 14:51	1
Diesel Range Organics (Over C10-C28)	**64.1**		50.0		mg/Kg		01/14/22 08:17	01/16/22 14:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*85*		*70 - 130*	*01/14/22 08:17*	*01/16/22 14:51*	*1*
o-Terphenyl (Surr)	*86*		*70 - 130*	*01/14/22 08:17*	*01/16/22 14:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**662**		4.99		mg/Kg			01/17/22 20:45	1

Client Sample ID: C57 2'

Lab Sample ID: 880-10171-6
Date Collected: 01/12/22 08:10
Matrix: Solid
Date Received: 01/13/22 08:25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/13/22 10:34	01/15/22 18:08	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/13/22 10:34	01/15/22 18:08	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/13/22 10:34	01/15/22 18:08	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		01/13/22 10:34	01/15/22 18:08	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/13/22 10:34	01/15/22 18:08	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/13/22 10:34	01/15/22 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*01/13/22 10:34*	*01/15/22 18:08*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*01/13/22 10:34*	*01/15/22 18:08*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C57 2'

Lab Sample ID: 880-10171-6
Date Collected: 01/12/22 08:10 **Matrix: Solid**
Date Received: 01/13/22 08:25

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/20/22 16:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**94.7**		50.0		mg/Kg			01/17/22 12:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 15:12	1
Diesel Range Organics (Over C10-C28)	**94.7**		50.0		mg/Kg		01/14/22 08:17	01/16/22 15:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*85*		*70 - 130*	*01/14/22 08:17*	*01/16/22 15:12*	*1*
o-Terphenyl (Surr)	*87*		*70 - 130*	*01/14/22 08:17*	*01/16/22 15:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**633**		5.01		mg/Kg			01/17/22 21:07	1

Client Sample ID: C58 2'

Lab Sample ID: 880-10171-7
Date Collected: 01/12/22 08:12 **Matrix: Solid**
Date Received: 01/13/22 08:25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/13/22 10:34	01/15/22 18:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/13/22 10:34	01/15/22 18:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/13/22 10:34	01/15/22 18:29	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		01/13/22 10:34	01/15/22 18:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/13/22 10:34	01/15/22 18:29	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/13/22 10:34	01/15/22 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*01/13/22 10:34*	*01/15/22 18:29*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/13/22 10:34*	*01/15/22 18:29*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/20/22 16:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/17/22 12:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/14/22 08:17	01/16/22 15:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/14/22 08:17	01/16/22 15:33	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C58 2' — Lab Sample ID: 880-10171-7

Date Collected: 01/12/22 08:12 **Matrix: Solid**
Date Received: 01/13/22 08:25

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/14/22 08:17	01/16/22 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*85*		*70 - 130*	*01/14/22 08:17*	*01/16/22 15:33*	*1*
o-Terphenyl (Surr)	*88*		*70 - 130*	*01/14/22 08:17*	*01/16/22 15:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**448**		4.98		mg/Kg			01/17/22 21:15	1

Client Sample ID: C59 2' — Lab Sample ID: 880-10171-8

Date Collected: 01/12/22 08:14 **Matrix: Solid**
Date Received: 01/13/22 08:25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/13/22 10:34	01/15/22 18:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/13/22 10:34	01/15/22 18:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/13/22 10:34	01/15/22 18:49	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		01/13/22 10:34	01/15/22 18:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/13/22 10:34	01/15/22 18:49	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/13/22 10:34	01/15/22 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*01/13/22 10:34*	*01/15/22 18:49*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/13/22 10:34*	*01/15/22 18:49*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/20/22 16:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/17/22 12:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 15:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 15:54	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*86*		*70 - 130*	*01/14/22 08:17*	*01/16/22 15:54*	*1*
o-Terphenyl (Surr)	*90*		*70 - 130*	*01/14/22 08:17*	*01/16/22 15:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2320**		24.8		mg/Kg			01/17/22 21:22	5

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C60 2' — Lab Sample ID: 880-10171-9

Date Collected: 01/12/22 08:16 **Matrix: Solid**
Date Received: 01/13/22 08:25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/13/22 10:34	01/15/22 19:10	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/13/22 10:34	01/15/22 19:10	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/13/22 10:34	01/15/22 19:10	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		01/13/22 10:34	01/15/22 19:10	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/13/22 10:34	01/15/22 19:10	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/13/22 10:34	01/15/22 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*01/13/22 10:34*	*01/15/22 19:10*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*01/13/22 10:34*	*01/15/22 19:10*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/20/22 16:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**842**		50.0		mg/Kg			01/17/22 12:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 16:15	1
Diesel Range Organics (Over C10-C28)	**842**		50.0		mg/Kg		01/14/22 08:17	01/16/22 16:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*86*		*70 - 130*	*01/14/22 08:17*	*01/16/22 16:15*	*1*
o-Terphenyl (Surr)	*88*		*70 - 130*	*01/14/22 08:17*	*01/16/22 16:15*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2890**		25.2		mg/Kg			01/17/22 21:30	5

Client Sample ID: C61 2' — Lab Sample ID: 880-10171-10

Date Collected: 01/12/22 08:18 **Matrix: Solid**
Date Received: 01/13/22 08:25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/13/22 10:34	01/15/22 19:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/13/22 10:34	01/15/22 19:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/13/22 10:34	01/15/22 19:30	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/13/22 10:34	01/15/22 19:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/13/22 10:34	01/15/22 19:30	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/13/22 10:34	01/15/22 19:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*01/13/22 10:34*	*01/15/22 19:30*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*01/13/22 10:34*	*01/15/22 19:30*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C61 2' — Lab Sample ID: 880-10171-10

Date Collected: 01/12/22 08:18 **Matrix: Solid**
Date Received: 01/13/22 08:25

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/20/22 16:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/17/22 12:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 16:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 16:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*01/14/22 08:17*	*01/16/22 16:36*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*01/14/22 08:17*	*01/16/22 16:36*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**605**		4.99		mg/Kg			01/17/22 21:38	1

Client Sample ID: C62 2' — Lab Sample ID: 880-10171-11

Date Collected: 01/12/22 08:20 **Matrix: Solid**
Date Received: 01/13/22 08:25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/13/22 10:34	01/15/22 21:20	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/13/22 10:34	01/15/22 21:20	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/13/22 10:34	01/15/22 21:20	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/13/22 10:34	01/15/22 21:20	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/13/22 10:34	01/15/22 21:20	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/13/22 10:34	01/15/22 21:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*01/13/22 10:34*	*01/15/22 21:20*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*01/13/22 10:34*	*01/15/22 21:20*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/20/22 16:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/17/22 12:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 17:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 17:18	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C62 2'

Lab Sample ID: 880-10171-11
Date Collected: 01/12/22 08:20
Matrix: Solid
Date Received: 01/13/22 08:25

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*88*		*70 - 130*	*01/14/22 08:17*	*01/16/22 17:18*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*01/14/22 08:17*	*01/16/22 17:18*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**504**		4.99		mg/Kg			01/17/22 21:45	1

Client Sample ID: C63 2'

Lab Sample ID: 880-10171-12
Date Collected: 01/12/22 08:22
Matrix: Solid
Date Received: 01/13/22 08:25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/13/22 10:34	01/15/22 21:41	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/13/22 10:34	01/15/22 21:41	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/13/22 10:34	01/15/22 21:41	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		01/13/22 10:34	01/15/22 21:41	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/13/22 10:34	01/15/22 21:41	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/13/22 10:34	01/15/22 21:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*01/13/22 10:34*	*01/15/22 21:41*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*01/13/22 10:34*	*01/15/22 21:41*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/20/22 16:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**86.4**		49.9		mg/Kg			01/17/22 12:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/14/22 08:17	01/16/22 17:39	1
Diesel Range Organics (Over C10-C28)	**86.4**		49.9		mg/Kg		01/14/22 08:17	01/16/22 17:39	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/14/22 08:17	01/16/22 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*87*		*70 - 130*	*01/14/22 08:17*	*01/16/22 17:39*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*01/14/22 08:17*	*01/16/22 17:39*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1620**		24.9		mg/Kg			01/17/22 22:08	5

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C64 2' — Lab Sample ID: 880-10171-13

Date Collected: 01/12/22 08:24 **Matrix: Solid**
Date Received: 01/13/22 08:25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/13/22 10:34	01/15/22 22:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/13/22 10:34	01/15/22 22:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/13/22 10:34	01/15/22 22:01	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/13/22 10:34	01/15/22 22:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/13/22 10:34	01/15/22 22:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/13/22 10:34	01/15/22 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*01/13/22 10:34*	*01/15/22 22:01*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*01/13/22 10:34*	*01/15/22 22:01*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/20/22 16:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/17/22 12:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 18:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 18:00	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*85*		*70 - 130*	*01/14/22 08:17*	*01/16/22 18:00*	*1*
o-Terphenyl (Surr)	*90*		*70 - 130*	*01/14/22 08:17*	*01/16/22 18:00*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**951**		5.03		mg/Kg			01/18/22 04:00	1

Client Sample ID: C65 2' — Lab Sample ID: 880-10171-14

Date Collected: 01/12/22 08:26 **Matrix: Solid**
Date Received: 01/13/22 08:25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/13/22 10:34	01/15/22 22:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/13/22 10:34	01/15/22 22:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/13/22 10:34	01/15/22 22:22	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/13/22 10:34	01/15/22 22:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/13/22 10:34	01/15/22 22:22	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/13/22 10:34	01/15/22 22:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*01/13/22 10:34*	*01/15/22 22:22*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*01/13/22 10:34*	*01/15/22 22:22*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C65 2' — Lab Sample ID: 880-10171-14

Date Collected: 01/12/22 08:26 **Matrix: Solid**
Date Received: 01/13/22 08:25

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/20/22 16:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**120**		50.0		mg/Kg			01/17/22 12:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 18:21	1
Diesel Range Organics (Over C10-C28)	**120**		50.0		mg/Kg		01/14/22 08:17	01/16/22 18:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*84*		*70 - 130*	*01/14/22 08:17*	*01/16/22 18:21*	*1*
o-Terphenyl (Surr)	*85*		*70 - 130*	*01/14/22 08:17*	*01/16/22 18:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1330**		24.9		mg/Kg			01/18/22 04:25	5

Client Sample ID: C66 2' — Lab Sample ID: 880-10171-15

Date Collected: 01/12/22 08:28 **Matrix: Solid**
Date Received: 01/13/22 08:25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/13/22 10:34	01/15/22 22:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/13/22 10:34	01/15/22 22:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/13/22 10:34	01/15/22 22:42	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/13/22 10:34	01/15/22 22:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/13/22 10:34	01/15/22 22:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/13/22 10:34	01/15/22 22:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*01/13/22 10:34*	*01/15/22 22:42*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*01/13/22 10:34*	*01/15/22 22:42*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/20/22 16:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/17/22 12:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 18:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 18:42	1

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Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C66 2' — Lab Sample ID: 880-10171-15

Date Collected: 01/12/22 08:28 **Matrix: Solid**
Date Received: 01/13/22 08:25

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*87*		*70 - 130*	*01/14/22 08:17*	*01/16/22 18:42*	*1*
o-Terphenyl (Surr)	*88*		*70 - 130*	*01/14/22 08:17*	*01/16/22 18:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**757**		4.98		mg/Kg			01/18/22 04:33	1

Client Sample ID: C67 2' — Lab Sample ID: 880-10171-16

Date Collected: 01/12/22 08:30 **Matrix: Solid**
Date Received: 01/13/22 08:25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/13/22 10:34	01/15/22 23:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/13/22 10:34	01/15/22 23:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/13/22 10:34	01/15/22 23:02	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/13/22 10:34	01/15/22 23:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/13/22 10:34	01/15/22 23:02	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/13/22 10:34	01/15/22 23:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*01/13/22 10:34*	*01/15/22 23:02*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*01/13/22 10:34*	*01/15/22 23:02*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/20/22 16:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/17/22 12:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 19:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 19:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*01/14/22 08:17*	*01/16/22 19:03*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*01/14/22 08:17*	*01/16/22 19:03*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**734**		5.00		mg/Kg			01/18/22 04:42	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C68 2' — Lab Sample ID: 880-10171-17

Date Collected: 01/12/22 08:32 **Matrix: Solid**
Date Received: 01/13/22 08:25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/13/22 10:34	01/15/22 23:23	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/13/22 10:34	01/15/22 23:23	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/13/22 10:34	01/15/22 23:23	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		01/13/22 10:34	01/15/22 23:23	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/13/22 10:34	01/15/22 23:23	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/13/22 10:34	01/15/22 23:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*01/13/22 10:34*	*01/15/22 23:23*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*01/13/22 10:34*	*01/15/22 23:23*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/20/22 16:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/17/22 12:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/14/22 08:17	01/16/22 19:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/14/22 08:17	01/16/22 19:23	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/14/22 08:17	01/16/22 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*87*		*70 - 130*	*01/14/22 08:17*	*01/16/22 19:23*	*1*
o-Terphenyl (Surr)	*85*		*70 - 130*	*01/14/22 08:17*	*01/16/22 19:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**495**		4.99		mg/Kg			01/18/22 04:50	1

Client Sample ID: C69 2' — Lab Sample ID: 880-10171-18

Date Collected: 01/12/22 08:34 **Matrix: Solid**
Date Received: 01/13/22 08:25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/13/22 10:34	01/15/22 23:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/13/22 10:34	01/15/22 23:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/13/22 10:34	01/15/22 23:43	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/13/22 10:34	01/15/22 23:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/13/22 10:34	01/15/22 23:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/13/22 10:34	01/15/22 23:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*01/13/22 10:34*	*01/15/22 23:43*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/13/22 10:34*	*01/15/22 23:43*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C69 2' — Lab Sample ID: 880-10171-18

Date Collected: 01/12/22 08:34 **Matrix: Solid**
Date Received: 01/13/22 08:25

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/20/22 16:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/17/22 12:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 19:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 19:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*88*		*70 - 130*	*01/14/22 08:17*	*01/16/22 19:44*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*01/14/22 08:17*	*01/16/22 19:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**536**		5.05		mg/Kg			01/18/22 05:15	1

Client Sample ID: C70 2' — Lab Sample ID: 880-10171-19

Date Collected: 01/12/22 08:36 **Matrix: Solid**
Date Received: 01/13/22 08:25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/13/22 10:34	01/16/22 00:04	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/13/22 10:34	01/16/22 00:04	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/13/22 10:34	01/16/22 00:04	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		01/13/22 10:34	01/16/22 00:04	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/13/22 10:34	01/16/22 00:04	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/13/22 10:34	01/16/22 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*01/13/22 10:34*	*01/16/22 00:04*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*01/13/22 10:34*	*01/16/22 00:04*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/20/22 16:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/17/22 12:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/14/22 08:17	01/16/22 20:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/14/22 08:17	01/16/22 20:06	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C70 2'

Lab Sample ID: 880-10171-19
Date Collected: 01/12/22 08:36
Matrix: Solid
Date Received: 01/13/22 08:25

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/14/22 08:17	01/16/22 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*01/14/22 08:17*	*01/16/22 20:06*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*01/14/22 08:17*	*01/16/22 20:06*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**710**		4.97		mg/Kg			01/18/22 05:24	1

Client Sample ID: C71 2'

Lab Sample ID: 880-10171-20
Date Collected: 01/12/22 08:38
Matrix: Solid
Date Received: 01/13/22 08:25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/13/22 10:34	01/16/22 00:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/13/22 10:34	01/16/22 00:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/13/22 10:34	01/16/22 00:24	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		01/13/22 10:34	01/16/22 00:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/13/22 10:34	01/16/22 00:24	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/13/22 10:34	01/16/22 00:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*01/13/22 10:34*	*01/16/22 00:24*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*01/13/22 10:34*	*01/16/22 00:24*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/20/22 16:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/17/22 12:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 20:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 20:26	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 20:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*01/14/22 08:17*	*01/16/22 20:26*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*01/14/22 08:17*	*01/16/22 20:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**613**		4.97		mg/Kg			01/18/22 05:32	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C72 2'

Lab Sample ID: 880-10171-21
Date Collected: 01/12/22 08:40
Matrix: Solid
Date Received: 01/13/22 08:25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1 F2	0.00199		mg/Kg		01/14/22 09:21	01/16/22 18:33	1
Toluene	<0.00199	U F1	0.00199		mg/Kg		01/14/22 09:21	01/16/22 18:33	1
Ethylbenzene	<0.00199	U F1 F2	0.00199		mg/Kg		01/14/22 09:21	01/16/22 18:33	1
m,p-Xylenes	<0.00398	U F1 F2	0.00398		mg/Kg		01/14/22 09:21	01/16/22 18:33	1
o-Xylene	<0.00199	U F1 F2	0.00199		mg/Kg		01/14/22 09:21	01/16/22 18:33	1
Xylenes, Total	<0.00398	U F1 F2	0.00398		mg/Kg		01/14/22 09:21	01/16/22 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*01/14/22 09:21*	*01/16/22 18:33*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*01/14/22 09:21*	*01/16/22 18:33*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/20/22 16:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/17/22 12:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/13/22 16:27	01/16/22 22:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/13/22 16:27	01/16/22 22:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/13/22 16:27	01/16/22 22:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*01/13/22 16:27*	*01/16/22 22:11*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*01/13/22 16:27*	*01/16/22 22:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**622**		4.96		mg/Kg			01/18/22 05:40	1

Client Sample ID: C73 2'

Lab Sample ID: 880-10171-22
Date Collected: 01/12/22 08:42
Matrix: Solid
Date Received: 01/13/22 08:25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/14/22 09:21	01/16/22 19:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/14/22 09:21	01/16/22 19:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/14/22 09:21	01/16/22 19:00	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/14/22 09:21	01/16/22 19:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/14/22 09:21	01/16/22 19:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/14/22 09:21	01/16/22 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*01/14/22 09:21*	*01/16/22 19:00*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*01/14/22 09:21*	*01/16/22 19:00*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C73 2' — Lab Sample ID: 880-10171-22

Date Collected: 01/12/22 08:42 **Matrix: Solid**
Date Received: 01/13/22 08:25

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/20/22 16:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/17/22 12:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/13/22 16:27	01/16/22 23:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/13/22 16:27	01/16/22 23:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/13/22 16:27	01/16/22 23:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*91*		*70 - 130*	*01/13/22 16:27*	*01/16/22 23:13*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*01/13/22 16:27*	*01/16/22 23:13*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2170**		25.0		mg/Kg			01/18/22 05:49	5

Client Sample ID: C74 2' — Lab Sample ID: 880-10171-23

Date Collected: 01/12/22 08:44 **Matrix: Solid**
Date Received: 01/13/22 08:25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/14/22 09:21	01/16/22 19:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/14/22 09:21	01/16/22 19:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/14/22 09:21	01/16/22 19:27	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/14/22 09:21	01/16/22 19:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/14/22 09:21	01/16/22 19:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/14/22 09:21	01/16/22 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*01/14/22 09:21*	*01/16/22 19:27*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*01/14/22 09:21*	*01/16/22 19:27*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/20/22 16:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/17/22 12:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/13/22 16:27	01/16/22 23:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/13/22 16:27	01/16/22 23:34	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C74 2' — Lab Sample ID: 880-10171-23

Date Collected: 01/12/22 08:44 **Matrix: Solid**
Date Received: 01/13/22 08:25

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/13/22 16:27	01/16/22 23:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*86*		*70 - 130*	*01/13/22 16:27*	*01/16/22 23:34*	*1*
o-Terphenyl (Surr)	*87*		*70 - 130*	*01/13/22 16:27*	*01/16/22 23:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**439**	**F1**	4.96		mg/Kg			01/18/22 05:57	1

Client Sample ID: C75 2' — Lab Sample ID: 880-10171-24

Date Collected: 01/12/22 08:46 **Matrix: Solid**
Date Received: 01/13/22 08:25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/14/22 09:21	01/16/22 19:54	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/14/22 09:21	01/16/22 19:54	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/14/22 09:21	01/16/22 19:54	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		01/14/22 09:21	01/16/22 19:54	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/14/22 09:21	01/16/22 19:54	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/14/22 09:21	01/16/22 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*01/14/22 09:21*	*01/16/22 19:54*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*01/14/22 09:21*	*01/16/22 19:54*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/20/22 16:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/17/22 12:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/13/22 16:27	01/16/22 23:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/13/22 16:27	01/16/22 23:54	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/13/22 16:27	01/16/22 23:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*01/13/22 16:27*	*01/16/22 23:54*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*01/13/22 16:27*	*01/16/22 23:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**525**		5.02		mg/Kg			01/18/22 06:22	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C76 2' — Lab Sample ID: 880-10171-25

Date Collected: 01/12/22 08:48 **Matrix: Solid**
Date Received: 01/13/22 08:25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/14/22 09:21	01/16/22 20:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/14/22 09:21	01/16/22 20:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/14/22 09:21	01/16/22 20:20	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/14/22 09:21	01/16/22 20:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/14/22 09:21	01/16/22 20:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/14/22 09:21	01/16/22 20:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*01/14/22 09:21*	*01/16/22 20:20*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*01/14/22 09:21*	*01/16/22 20:20*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/20/22 16:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/17/22 12:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/13/22 16:27	01/17/22 00:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/13/22 16:27	01/17/22 00:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/13/22 16:27	01/17/22 00:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*01/13/22 16:27*	*01/17/22 00:15*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*01/13/22 16:27*	*01/17/22 00:15*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**789**		5.04		mg/Kg			01/18/22 06:30	1

Client Sample ID: C77 2' — Lab Sample ID: 880-10171-26

Date Collected: 01/12/22 08:50 **Matrix: Solid**
Date Received: 01/13/22 08:25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/14/22 09:21	01/16/22 20:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/14/22 09:21	01/16/22 20:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/14/22 09:21	01/16/22 20:47	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/14/22 09:21	01/16/22 20:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/14/22 09:21	01/16/22 20:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/14/22 09:21	01/16/22 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*01/14/22 09:21*	*01/16/22 20:47*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*01/14/22 09:21*	*01/16/22 20:47*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C77 2' — Lab Sample ID: 880-10171-26

Date Collected: 01/12/22 08:50 **Matrix: Solid**
Date Received: 01/13/22 08:25

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/20/22 16:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/17/22 12:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/13/22 16:27	01/17/22 00:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/13/22 16:27	01/17/22 00:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/13/22 16:27	01/17/22 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*01/13/22 16:27*	*01/17/22 00:36*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*01/13/22 16:27*	*01/17/22 00:36*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1060**		4.99		mg/Kg			01/18/22 06:55	1

Client Sample ID: C78 2' — Lab Sample ID: 880-10171-27

Date Collected: 01/12/22 08:52 **Matrix: Solid**
Date Received: 01/13/22 08:25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/14/22 09:21	01/16/22 21:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/14/22 09:21	01/16/22 21:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/14/22 09:21	01/16/22 21:14	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/14/22 09:21	01/16/22 21:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/14/22 09:21	01/16/22 21:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/14/22 09:21	01/16/22 21:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*01/14/22 09:21*	*01/16/22 21:14*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*01/14/22 09:21*	*01/16/22 21:14*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/20/22 16:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/17/22 12:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/13/22 16:27	01/17/22 00:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/13/22 16:27	01/17/22 00:56	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C78 2'

Lab Sample ID: 880-10171-27
Date Collected: 01/12/22 08:52
Matrix: Solid
Date Received: 01/13/22 08:25

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/13/22 16:27	01/17/22 00:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*91*		*70 - 130*	*01/13/22 16:27*	*01/17/22 00:56*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*01/13/22 16:27*	*01/17/22 00:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1080**		4.99		mg/Kg			01/18/22 07:04	1

Client Sample ID: C79 2'

Lab Sample ID: 880-10171-28
Date Collected: 01/12/22 08:54
Matrix: Solid
Date Received: 01/13/22 08:25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/14/22 09:21	01/16/22 21:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/14/22 09:21	01/16/22 21:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/14/22 09:21	01/16/22 21:41	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/14/22 09:21	01/16/22 21:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/14/22 09:21	01/16/22 21:41	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/14/22 09:21	01/16/22 21:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*01/14/22 09:21*	*01/16/22 21:41*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*01/14/22 09:21*	*01/16/22 21:41*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/20/22 16:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/17/22 12:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/13/22 16:27	01/17/22 01:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/13/22 16:27	01/17/22 01:17	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/13/22 16:27	01/17/22 01:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*96*		*70 - 130*	*01/13/22 16:27*	*01/17/22 01:17*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*01/13/22 16:27*	*01/17/22 01:17*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**443**		4.99		mg/Kg			01/18/22 07:12	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C80 2' — Lab Sample ID: 880-10171-29

Date Collected: 01/12/22 08:56 **Matrix: Solid**
Date Received: 01/13/22 08:25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/14/22 09:21	01/16/22 22:08	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/14/22 09:21	01/16/22 22:08	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/14/22 09:21	01/16/22 22:08	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		01/14/22 09:21	01/16/22 22:08	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/14/22 09:21	01/16/22 22:08	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/14/22 09:21	01/16/22 22:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*01/14/22 09:21*	*01/16/22 22:08*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*01/14/22 09:21*	*01/16/22 22:08*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/20/22 16:32	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/17/22 12:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/13/22 16:27	01/17/22 01:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/13/22 16:27	01/17/22 01:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/13/22 16:27	01/17/22 01:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*97*		*70 - 130*	*01/13/22 16:27*	*01/17/22 01:37*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*01/13/22 16:27*	*01/17/22 01:37*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**444**		4.99		mg/Kg			01/18/22 07:20	1

Client Sample ID: C81 2' — Lab Sample ID: 880-10171-30

Date Collected: 01/12/22 08:58 **Matrix: Solid**
Date Received: 01/13/22 08:25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/14/22 09:21	01/16/22 22:35	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/14/22 09:21	01/16/22 22:35	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/14/22 09:21	01/16/22 22:35	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		01/14/22 09:21	01/16/22 22:35	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/14/22 09:21	01/16/22 22:35	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/14/22 09:21	01/16/22 22:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*01/14/22 09:21*	*01/16/22 22:35*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*01/14/22 09:21*	*01/16/22 22:35*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C81 2' — Lab Sample ID: 880-10171-30

Date Collected: 01/12/22 08:58 **Matrix: Solid**
Date Received: 01/13/22 08:25

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/20/22 16:32	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/17/22 12:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/13/22 16:27	01/17/22 01:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/13/22 16:27	01/17/22 01:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/13/22 16:27	01/17/22 01:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*99*		*70 - 130*	*01/13/22 16:27*	*01/17/22 01:57*	*1*
o-Terphenyl (Surr)	*97*		*70 - 130*	*01/13/22 16:27*	*01/17/22 01:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**904**		24.8		mg/Kg			01/18/22 07:29	5

Client Sample ID: C82 2' — Lab Sample ID: 880-10171-31

Date Collected: 01/12/22 09:00 **Matrix: Solid**
Date Received: 01/13/22 08:25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/14/22 09:21	01/17/22 00:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/14/22 09:21	01/17/22 00:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/14/22 09:21	01/17/22 00:21	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		01/14/22 09:21	01/17/22 00:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/14/22 09:21	01/17/22 00:21	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/14/22 09:21	01/17/22 00:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*01/14/22 09:21*	*01/17/22 00:21*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*01/14/22 09:21*	*01/17/22 00:21*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/20/22 16:32	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/17/22 12:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/13/22 16:27	01/17/22 02:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/13/22 16:27	01/17/22 02:38	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C82 2' — Lab Sample ID: 880-10171-31

Date Collected: 01/12/22 09:00 **Matrix: Solid**
Date Received: 01/13/22 08:25

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/13/22 16:27	01/17/22 02:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*01/13/22 16:27*	*01/17/22 02:38*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*01/13/22 16:27*	*01/17/22 02:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1090**		24.8		mg/Kg			01/18/22 07:37	5

Client Sample ID: C83 2' — Lab Sample ID: 880-10171-32

Date Collected: 01/12/22 09:02 **Matrix: Solid**
Date Received: 01/13/22 08:25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/14/22 09:21	01/17/22 00:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/14/22 09:21	01/17/22 00:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/14/22 09:21	01/17/22 00:48	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		01/14/22 09:21	01/17/22 00:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/14/22 09:21	01/17/22 00:48	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/14/22 09:21	01/17/22 00:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*01/14/22 09:21*	*01/17/22 00:48*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*01/14/22 09:21*	*01/17/22 00:48*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/20/22 16:32	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/17/22 12:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/13/22 16:27	01/17/22 02:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/13/22 16:27	01/17/22 02:58	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/13/22 16:27	01/17/22 02:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*91*		*70 - 130*	*01/13/22 16:27*	*01/17/22 02:58*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*01/13/22 16:27*	*01/17/22 02:58*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**888**		4.99		mg/Kg			01/18/22 08:43	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff SE 532 Fed Com 3

Job ID: 880-10171-1
SDG: 19-0180-07

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)
880-10171-1	C52 2'	119	92
880-10171-1 MS	C52 2'	114	99
880-10171-1 MSD	C52 2'	112	91
880-10171-2	C53 2'	117	95
880-10171-3	C54 2'	120	106
880-10171-4	C55 2'	129	102
880-10171-5	C56 2'	142 S1+	117
880-10171-6	C57 2'	115	97
880-10171-7	C58 2'	120	99
880-10171-8	C59 2'	124	99
880-10171-9	C60 2'	120	107
880-10171-10	C61 2'	108	89
880-10171-11	C62 2'	110	94
880-10171-12	C63 2'	132 S1+	93
880-10171-13	C64 2'	121	102
880-10171-14	C65 2'	118	100
880-10171-15	C66 2'	120	95
880-10171-16	C67 2'	113	104
880-10171-17	C68 2'	115	91
880-10171-18	C69 2'	125	98
880-10171-19	C70 2'	114	96
880-10171-20	C71 2'	119	108
880-10171-21	C72 2'	93	95
880-10171-21 MS	C72 2'	7901 S1+	84
880-10171-21 MSD	C72 2'	2359 S1+	20 S1-
880-10171-22	C73 2'	88	102
880-10171-23	C74 2'	100	103
880-10171-24	C75 2'	100	105
880-10171-25	C76 2'	95	104
880-10171-26	C77 2'	79	102
880-10171-27	C78 2'	98	107
880-10171-28	C79 2'	100	107
880-10171-29	C80 2'	91	100
880-10171-30	C81 2'	90	104
880-10171-31	C82 2'	108	104
880-10171-32	C83 2'	93	100
890-1829-A-11-B MS	Matrix Spike	750 S1+	27 S1-
890-1829-A-11-E MSD	Matrix Spike Duplicate	168 S1+	94
LCS 880-16740/1-A	Lab Control Sample	110	97
LCS 880-16835/1-A	Lab Control Sample	81	109
LCS 880-16969/1-A	Lab Control Sample	109	96
LCSD 880-16740/2-A	Lab Control Sample Dup	108	90
LCSD 880-16835/2-A	Lab Control Sample Dup	83	106
LCSD 880-16969/2-A	Lab Control Sample Dup	111	104
MB 880-16737/5-A	Method Blank	113	95
MB 880-16740/5-A	Method Blank	124	106
MB 880-16834/5-A	Method Blank	62 S1-	93
MB 880-16835/5-A	Method Blank	60 S1-	96
MB 880-16867/5-A	Method Blank	121	104

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
MB 880-16969/5-A	Method Blank	120	105

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)
880-10171-1	C52 2'	87	81
880-10171-1 MS	C52 2'	83	73
880-10171-1 MSD	C52 2'	91	84
880-10171-2	C53 2'	82	79
880-10171-3	C54 2'	85	88
880-10171-4	C55 2'	83	84
880-10171-5	C56 2'	85	86
880-10171-6	C57 2'	85	87
880-10171-7	C58 2'	85	88
880-10171-8	C59 2'	86	90
880-10171-9	C60 2'	86	88
880-10171-10	C61 2'	98	102
880-10171-11	C62 2'	88	89
880-10171-12	C63 2'	87	89
880-10171-13	C64 2'	85	90
880-10171-14	C65 2'	84	85
880-10171-15	C66 2'	87	88
880-10171-16	C67 2'	89	89
880-10171-17	C68 2'	87	85
880-10171-18	C69 2'	88	89
880-10171-19	C70 2'	94	93
880-10171-20	C71 2'	89	89
880-10171-21	C72 2'	102	103
880-10171-21 MS	C72 2'	94	88
880-10171-21 MSD	C72 2'	98	92
880-10171-22	C73 2'	91	91
880-10171-23	C74 2'	86	87
880-10171-24	C75 2'	89	89
880-10171-25	C76 2'	95	95
880-10171-26	C77 2'	95	91
880-10171-27	C78 2'	91	91
880-10171-28	C79 2'	96	95
880-10171-29	C80 2'	97	95
880-10171-30	C81 2'	99	97
880-10171-31	C82 2'	90	91
880-10171-32	C83 2'	91	93

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

OTPH = o-Terphenyl (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	1CO2 (70-130)	OTPH2 (70-130)								
LCS 880-16804/2-A	Lab Control Sample	114	111								
LCS 880-16817/2-A	Lab Control Sample	112	107								
LCSD 880-16804/3-A	Lab Control Sample Dup	113	106								
LCSD 880-16817/3-A	Lab Control Sample Dup	109	106								
MB 880-16804/1-A	Method Blank	95	95								
MB 880-16817/1-A	Method Blank	95	94								

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff SE 532 Fed Com 3

Job ID: 880-10171-1
SDG: 19-0180-07

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-16737/5-A
Matrix: Solid
Analysis Batch: 16837

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16737

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/14/22 07:30	01/15/22 03:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/14/22 07:30	01/15/22 03:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/14/22 07:30	01/15/22 03:40	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/14/22 07:30	01/15/22 03:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/14/22 07:30	01/15/22 03:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/14/22 07:30	01/15/22 03:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*01/14/22 07:30*	*01/15/22 03:40*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*01/14/22 07:30*	*01/15/22 03:40*	*1*

Lab Sample ID: MB 880-16740/5-A
Matrix: Solid
Analysis Batch: 16837

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16740

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/13/22 10:34	01/15/22 15:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/13/22 10:34	01/15/22 15:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/13/22 10:34	01/15/22 15:57	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/13/22 10:34	01/15/22 15:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/13/22 10:34	01/15/22 15:57	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/13/22 10:34	01/15/22 15:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*01/13/22 10:34*	*01/15/22 15:57*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*01/13/22 10:34*	*01/15/22 15:57*	*1*

Lab Sample ID: LCS 880-16740/1-A
Matrix: Solid
Analysis Batch: 16837

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16740

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.09369		mg/Kg		94	70 - 130		
Toluene			0.100	0.09944		mg/Kg		99	70 - 130		
Ethylbenzene			0.100	0.1056		mg/Kg		106	70 - 130		
m,p-Xylenes			0.200	0.2039		mg/Kg		102	70 - 130		
o-Xylene			0.100	0.09791		mg/Kg		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-16740/2-A
Matrix: Solid
Analysis Batch: 16837

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 16740

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08962		mg/Kg		90	70 - 130	4	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff SE 532 Fed Com 3

Job ID: 880-10171-1
SDG: 19-0180-07

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

Lab Sample ID: LCSD 880-16740/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 16837 — **Prep Batch: 16740**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			0.100	0.09602		mg/Kg		96	70 - 130	3	35
Ethylbenzene			0.100	0.09626		mg/Kg		96	70 - 130	9	35
m,p-Xylenes			0.200	0.1965		mg/Kg		98	70 - 130	4	35
o-Xylene			0.100	0.09951		mg/Kg		100	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: 880-10171-1 MS — **Client Sample ID: C52 2'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 16837 — **Prep Batch: 16740**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1	0.0996	0.06683	F1	mg/Kg		67	70 - 130
Toluene	<0.00199	U	0.0996	0.07048		mg/Kg		71	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.07757		mg/Kg		78	70 - 130
m,p-Xylenes	<0.00398	U	0.199	0.1474		mg/Kg		74	70 - 130
o-Xylene	<0.00199	U F2 F1	0.0996	0.07194		mg/Kg		72	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 880-10171-1 MSD — **Client Sample ID: C52 2'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 16837 — **Prep Batch: 16740**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0994	0.07683		mg/Kg		77	70 - 130	14	35
Toluene	<0.00199	U	0.0994	0.08093		mg/Kg		81	70 - 130	14	35
Ethylbenzene	<0.00199	U	0.0994	0.08422		mg/Kg		85	70 - 130	8	35
m,p-Xylenes	<0.00398	U	0.199	0.1533		mg/Kg		77	70 - 130	4	35
o-Xylene	<0.00199	U F2 F1	0.0994	0.03658	F2 F1	mg/Kg		37	70 - 130	65	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: MB 880-16834/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 16936 — **Prep Batch: 16834**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/14/22 09:19	01/16/22 04:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/14/22 09:19	01/16/22 04:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/14/22 09:19	01/16/22 04:04	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/14/22 09:19	01/16/22 04:04	1

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

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

Lab Sample ID: MB 880-16834/5-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 16936 **Prep Batch: 16834**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/14/22 09:19	01/16/22 04:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/14/22 09:19	01/16/22 04:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*62*	*S1-*	*70 - 130*	*01/14/22 09:19*	*01/16/22 04:04*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*01/14/22 09:19*	*01/16/22 04:04*	*1*

Lab Sample ID: MB 880-16835/5-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 16936 **Prep Batch: 16835**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/14/22 09:21	01/16/22 18:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/14/22 09:21	01/16/22 18:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/14/22 09:21	01/16/22 18:06	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/14/22 09:21	01/16/22 18:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/14/22 09:21	01/16/22 18:06	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/14/22 09:21	01/16/22 18:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*60*	*S1-*	*70 - 130*	*01/14/22 09:21*	*01/16/22 18:06*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*01/14/22 09:21*	*01/16/22 18:06*	*1*

Lab Sample ID: LCS 880-16835/1-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 16936 **Prep Batch: 16835**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.1100		mg/Kg		110	70 - 130		
Toluene			0.100	0.1061		mg/Kg		106	70 - 130		
Ethylbenzene			0.100	0.08542		mg/Kg		85	70 - 130		
m,p-Xylenes			0.200	0.1875		mg/Kg		94	70 - 130		
o-Xylene			0.100	0.09619		mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: LCSD 880-16835/2-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 16936 **Prep Batch: 16835**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.09268		mg/Kg		93	70 - 130	17	35
Toluene			0.100	0.09113		mg/Kg		91	70 - 130	15	35
Ethylbenzene			0.100	0.07502		mg/Kg		75	70 - 130	13	35
m,p-Xylenes			0.200	0.1552		mg/Kg		78	70 - 130	19	35
o-Xylene			0.100	0.08369		mg/Kg		84	70 - 130	14	35

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-10171-21 MS — **Client Sample ID: C72 2'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 16936 — **Prep Batch: 16835**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1 F2	0.100	0.1088		mg/Kg		108	70 - 130
Toluene	<0.00199	U F1	0.100	0.1563	F1	mg/Kg		156	70 - 130
Ethylbenzene	<0.00199	U F1 F2	0.100	0.2656	F1	mg/Kg		265	70 - 130
o-Xylene	<0.00199	U F1 F2	0.100	0.06808	F1	mg/Kg		68	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	7901	S1+	70 - 130
1,4-Difluorobenzene (Surr)	84		70 - 130

Lab Sample ID: 880-10171-21 MSD — **Client Sample ID: C72 2'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 16936 — **Prep Batch: 16835**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1 F2	0.0990	0.02553	F1 F2	mg/Kg		26	70 - 130	124	35
Toluene	<0.00199	U F1	0.0990	0.1470	F1	mg/Kg		148	70 - 130	6	35
Ethylbenzene	<0.00199	U F1 F2	0.0990	0.007526	F1 F2	mg/Kg		8	70 - 130	189	35
o-Xylene	<0.00199	U F1 F2	0.0990	0.01393	F1 F2	mg/Kg		14	70 - 130	132	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	2359	S1+	70 - 130
1,4-Difluorobenzene (Surr)	20	S1-	70 - 130

Lab Sample ID: MB 880-16867/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 16967 — **Prep Batch: 16867**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/17/22 07:30	01/17/22 10:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/17/22 07:30	01/17/22 10:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/17/22 07:30	01/17/22 10:53	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		01/17/22 07:30	01/17/22 10:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/17/22 07:30	01/17/22 10:53	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/17/22 07:30	01/17/22 10:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	01/17/22 07:30	01/17/22 10:53	1
1,4-Difluorobenzene (Surr)	104		70 - 130	01/17/22 07:30	01/17/22 10:53	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff SE 532 Fed Com 3

Job ID: 880-10171-1
SDG: 19-0180-07

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

Lab Sample ID: MB 880-16969/5-A
Matrix: Solid
Analysis Batch: 16967

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16969

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/17/22 08:51	01/17/22 22:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/17/22 08:51	01/17/22 22:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/17/22 08:51	01/17/22 22:29	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/17/22 08:51	01/17/22 22:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/17/22 08:51	01/17/22 22:29	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/17/22 08:51	01/17/22 22:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*01/17/22 08:51*	*01/17/22 22:29*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*01/17/22 08:51*	*01/17/22 22:29*	*1*

Lab Sample ID: LCS 880-16969/1-A
Matrix: Solid
Analysis Batch: 16967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16969

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.08505		mg/Kg		85	70 - 130		
Toluene			0.100	0.09888		mg/Kg		99	70 - 130		
Ethylbenzene			0.100	0.09639		mg/Kg		96	70 - 130		
m,p-Xylenes			0.200	0.1945		mg/Kg		97	70 - 130		
o-Xylene			0.100	0.09185		mg/Kg		92	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-16969/2-A
Matrix: Solid
Analysis Batch: 16967

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 16969

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08828		mg/Kg		88	70 - 130	4	35
Toluene			0.100	0.09806		mg/Kg		98	70 - 130	1	35
Ethylbenzene			0.100	0.1036		mg/Kg		104	70 - 130	7	35
m,p-Xylenes			0.200	0.1962		mg/Kg		98	70 - 130	1	35
o-Xylene			0.100	0.09697		mg/Kg		97	70 - 130	5	35

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

Lab Sample ID: 890-1829-A-11-B MS
Matrix: Solid
Analysis Batch: 16967

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 16969

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00199	U F2 F1	0.0996	0.1386	F1	mg/Kg		139	70 - 130		
Toluene	<0.00199	U	0.0996	0.07451		mg/Kg		75	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

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

Lab Sample ID: 890-1829-A-11-B MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 16967 **Prep Batch: 16969**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00199	U F2 F1	0.0996	0.1329	F1	mg/Kg		133	70 - 130
m,p-Xylenes	<0.00398	U F2 F1	0.199	0.1695		mg/Kg		85	70 - 130
o-Xylene	<0.00199	U F2 F1	0.0996	0.2294	F1	mg/Kg		230	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*750*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*27*	*S1-*	*70 - 130*

Lab Sample ID: 890-1829-A-11-E MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 16967 **Prep Batch: 16969**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F2 F1	0.0992	0.004455	F2 F1	mg/Kg		4	70 - 130	188	35
Toluene	<0.00199	U	0.0992	0.07334		mg/Kg		74	70 - 130	2	35
Ethylbenzene	<0.00199	U F2 F1	0.0992	0.05943	F2 F1	mg/Kg		60	70 - 130	76	35
m,p-Xylenes	<0.00398	U F2 F1	0.198	0.06036	F2 F1	mg/Kg		30	70 - 130	95	35
o-Xylene	<0.00199	U F2 F1	0.0992	0.06548	F2 F1	mg/Kg		66	70 - 130	111	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*168*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

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

Lab Sample ID: MB 880-16804/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 16954 **Prep Batch: 16804**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/13/22 16:27	01/16/22 21:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/13/22 16:27	01/16/22 21:08	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/13/22 16:27	01/16/22 21:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*01/13/22 16:27*	*01/16/22 21:08*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*01/13/22 16:27*	*01/16/22 21:08*	*1*

Lab Sample ID: LCS 880-16804/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 16954 **Prep Batch: 16804**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	845.3		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	1000	999.8		mg/Kg		100	70 - 130

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

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

Lab Sample ID: LCS 880-16804/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 16954 **Prep Batch: 16804**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	114		70 - 130
o-Terphenyl (Surr)	111		70 - 130

Lab Sample ID: LCSD 880-16804/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 16954 **Prep Batch: 16804**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	878.1		mg/Kg		88	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	981.3		mg/Kg		98	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	113		70 - 130
o-Terphenyl (Surr)	106		70 - 130

Lab Sample ID: 880-10171-21 MS **Client Sample ID: C72 2'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 16954 **Prep Batch: 16804**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	1088		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1136		mg/Kg		114	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	94		70 - 130
o-Terphenyl (Surr)	88		70 - 130

Lab Sample ID: 880-10171-21 MSD **Client Sample ID: C72 2'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 16954 **Prep Batch: 16804**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1127		mg/Kg		110	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1196		mg/Kg		120	70 - 130	5	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	98		70 - 130
o-Terphenyl (Surr)	92		70 - 130

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

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

Lab Sample ID: MB 880-16817/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 16954 **Prep Batch: 16817**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 11:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 11:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/14/22 08:17	01/16/22 11:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*01/14/22 08:17*	*01/16/22 11:44*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*01/14/22 08:17*	*01/16/22 11:44*	*1*

Lab Sample ID: LCS 880-16817/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 16954 **Prep Batch: 16817**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	905.0		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	959.6		mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*112*		*70 - 130*
o-Terphenyl (Surr)	*107*		*70 - 130*

Lab Sample ID: LCSD 880-16817/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 16954 **Prep Batch: 16817**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	905.9		mg/Kg		91	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	956.9		mg/Kg		96	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*109*		*70 - 130*
o-Terphenyl (Surr)	*106*		*70 - 130*

Lab Sample ID: 880-10171-1 MS **Client Sample ID: C52 2'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 16954 **Prep Batch: 16817**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	996	848.3		mg/Kg		85	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	996	970.1		mg/Kg		97	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

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

Lab Sample ID: 880-10171-1 MS **Client Sample ID: C52 2'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 16954 **Prep Batch: 16817**

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	83		70 - 130
o-Terphenyl (Surr)	73		70 - 130

Lab Sample ID: 880-10171-1 MSD **Client Sample ID: C52 2'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 16954 **Prep Batch: 16817**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	999	1042	F2	mg/Kg		104	70 - 130	21	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1144		mg/Kg		114	70 - 130	16	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	91		70 - 130
o-Terphenyl (Surr)	84		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-16770/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 16933

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/17/22 19:37	1

Lab Sample ID: LCS 880-16770/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 16933

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	267.3		mg/Kg		107	90 - 110		

Lab Sample ID: LCSD 880-16770/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 16933

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	267.4		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 880-10171-1 MS **Client Sample ID: C52 2'**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 16933

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	262		248	510.0		mg/Kg		100	90 - 110		

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-10171-1 MSD — **Client Sample ID: C52 2'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 16933

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	262		248	509.4		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-10171-11 MS — **Client Sample ID: C62 2'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 16933

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	504		250	742.0		mg/Kg		96	90 - 110

Lab Sample ID: 880-10171-11 MSD — **Client Sample ID: C62 2'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 16933

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	504		253	753.0		mg/Kg		99	90 - 110	1	20

Lab Sample ID: MB 880-16771/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 16934

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/18/22 03:35	1

Lab Sample ID: LCS 880-16771/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 16934

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	264.8		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-16771/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 16934

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	266.4		mg/Kg		107	90 - 110	1	20

Lab Sample ID: 880-10171-13 MS — **Client Sample ID: C64 2'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 16934

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	951		252	1194		mg/Kg		97	90 - 110

Lab Sample ID: 880-10171-13 MSD — **Client Sample ID: C64 2'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 16934

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	951		252	1212		mg/Kg		104	90 - 110	2	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff SE 532 Fed Com 3

Job ID: 880-10171-1
SDG: 19-0180-07

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-10171-23 MS — **Client Sample ID: C74 2'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 16934

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	439	F1	248	714.0	F1	mg/Kg		111	90 - 110

Lab Sample ID: 880-10171-23 MSD — **Client Sample ID: C74 2'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 16934

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	439	F1	248	720.4	F1	mg/Kg		114	90 - 110	1	20

Lab Sample ID: MB 880-16762/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 16935

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/18/22 08:20	1

Lab Sample ID: LCS 880-16762/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 16935

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	270.7		mg/Kg		108	90 - 110

Lab Sample ID: LCSD 880-16762/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 16935

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	270.6		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 880-10171-32 MS — **Client Sample ID: C83 2'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 16935

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	888		250	1135		mg/Kg		99	90 - 110

Lab Sample ID: 880-10171-32 MSD — **Client Sample ID: C83 2'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 16935

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	888		250	1127		mg/Kg		96	90 - 110	1	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff SE 532 Fed Com 3

Job ID: 880-10171-1
SDG: 19-0180-07

GC VOA

Prep Batch: 16737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-16737/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 16740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10171-1	C52 2'	Total/NA	Solid	5035	
880-10171-2	C53 2'	Total/NA	Solid	5035	
880-10171-3	C54 2'	Total/NA	Solid	5035	
880-10171-4	C55 2'	Total/NA	Solid	5035	
880-10171-5	C56 2'	Total/NA	Solid	5035	
880-10171-6	C57 2'	Total/NA	Solid	5035	
880-10171-7	C58 2'	Total/NA	Solid	5035	
880-10171-8	C59 2'	Total/NA	Solid	5035	
880-10171-9	C60 2'	Total/NA	Solid	5035	
880-10171-10	C61 2'	Total/NA	Solid	5035	
880-10171-11	C62 2'	Total/NA	Solid	5035	
880-10171-12	C63 2'	Total/NA	Solid	5035	
880-10171-13	C64 2'	Total/NA	Solid	5035	
880-10171-14	C65 2'	Total/NA	Solid	5035	
880-10171-15	C66 2'	Total/NA	Solid	5035	
880-10171-16	C67 2'	Total/NA	Solid	5035	
880-10171-17	C68 2'	Total/NA	Solid	5035	
880-10171-18	C69 2'	Total/NA	Solid	5035	
880-10171-19	C70 2'	Total/NA	Solid	5035	
880-10171-20	C71 2'	Total/NA	Solid	5035	
MB 880-16740/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-16740/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-16740/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-10171-1 MS	C52 2'	Total/NA	Solid	5035	
880-10171-1 MSD	C52 2'	Total/NA	Solid	5035	

Prep Batch: 16834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-16834/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 16835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10171-21	C72 2'	Total/NA	Solid	5035	
880-10171-22	C73 2'	Total/NA	Solid	5035	
880-10171-23	C74 2'	Total/NA	Solid	5035	
880-10171-24	C75 2'	Total/NA	Solid	5035	
880-10171-25	C76 2'	Total/NA	Solid	5035	
880-10171-26	C77 2'	Total/NA	Solid	5035	
880-10171-27	C78 2'	Total/NA	Solid	5035	
880-10171-28	C79 2'	Total/NA	Solid	5035	
880-10171-29	C80 2'	Total/NA	Solid	5035	
880-10171-30	C81 2'	Total/NA	Solid	5035	
880-10171-31	C82 2'	Total/NA	Solid	5035	
880-10171-32	C83 2'	Total/NA	Solid	5035	
MB 880-16835/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-16835/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-16835/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

GC VOA (Continued)

Prep Batch: 16835 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10171-21 MS	C72 2'	Total/NA	Solid	5035	
880-10171-21 MSD	C72 2'	Total/NA	Solid	5035	

Analysis Batch: 16837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10171-1	C52 2'	Total/NA	Solid	8021B	16740
880-10171-2	C53 2'	Total/NA	Solid	8021B	16740
880-10171-3	C54 2'	Total/NA	Solid	8021B	16740
880-10171-4	C55 2'	Total/NA	Solid	8021B	16740
880-10171-5	C56 2'	Total/NA	Solid	8021B	16740
880-10171-6	C57 2'	Total/NA	Solid	8021B	16740
880-10171-7	C58 2'	Total/NA	Solid	8021B	16740
880-10171-8	C59 2'	Total/NA	Solid	8021B	16740
880-10171-9	C60 2'	Total/NA	Solid	8021B	16740
880-10171-10	C61 2'	Total/NA	Solid	8021B	16740
880-10171-11	C62 2'	Total/NA	Solid	8021B	16740
880-10171-12	C63 2'	Total/NA	Solid	8021B	16740
880-10171-13	C64 2'	Total/NA	Solid	8021B	16740
880-10171-14	C65 2'	Total/NA	Solid	8021B	16740
880-10171-15	C66 2'	Total/NA	Solid	8021B	16740
880-10171-16	C67 2'	Total/NA	Solid	8021B	16740
880-10171-17	C68 2'	Total/NA	Solid	8021B	16740
880-10171-18	C69 2'	Total/NA	Solid	8021B	16740
880-10171-19	C70 2'	Total/NA	Solid	8021B	16740
880-10171-20	C71 2'	Total/NA	Solid	8021B	16740
MB 880-16737/5-A	Method Blank	Total/NA	Solid	8021B	16737
MB 880-16740/5-A	Method Blank	Total/NA	Solid	8021B	16740
LCS 880-16740/1-A	Lab Control Sample	Total/NA	Solid	8021B	16740
LCSD 880-16740/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	16740
880-10171-1 MS	C52 2'	Total/NA	Solid	8021B	16740
880-10171-1 MSD	C52 2'	Total/NA	Solid	8021B	16740

Prep Batch: 16867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-16867/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 16936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10171-21	C72 2'	Total/NA	Solid	8021B	16835
880-10171-22	C73 2'	Total/NA	Solid	8021B	16835
880-10171-23	C74 2'	Total/NA	Solid	8021B	16835
880-10171-24	C75 2'	Total/NA	Solid	8021B	16835
880-10171-25	C76 2'	Total/NA	Solid	8021B	16835
880-10171-26	C77 2'	Total/NA	Solid	8021B	16835
880-10171-27	C78 2'	Total/NA	Solid	8021B	16835
880-10171-28	C79 2'	Total/NA	Solid	8021B	16835
880-10171-29	C80 2'	Total/NA	Solid	8021B	16835
880-10171-30	C81 2'	Total/NA	Solid	8021B	16835
880-10171-31	C82 2'	Total/NA	Solid	8021B	16835
880-10171-32	C83 2'	Total/NA	Solid	8021B	16835
MB 880-16834/5-A	Method Blank	Total/NA	Solid	8021B	16834

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

GC VOA (Continued)

Analysis Batch: 16936 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-16835/5-A	Method Blank	Total/NA	Solid	8021B	16835
LCS 880-16835/1-A	Lab Control Sample	Total/NA	Solid	8021B	16835
LCSD 880-16835/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	16835
880-10171-21 MS	C72 2'	Total/NA	Solid	8021B	16835
880-10171-21 MSD	C72 2'	Total/NA	Solid	8021B	16835

Analysis Batch: 16967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-16867/5-A	Method Blank	Total/NA	Solid	8021B	16867
MB 880-16969/5-A	Method Blank	Total/NA	Solid	8021B	16969
LCS 880-16969/1-A	Lab Control Sample	Total/NA	Solid	8021B	16969
LCSD 880-16969/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	16969
890-1829-A-11-B MS	Matrix Spike	Total/NA	Solid	8021B	16969
890-1829-A-11-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	16969

Prep Batch: 16969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-16969/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-16969/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-16969/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1829-A-11-B MS	Matrix Spike	Total/NA	Solid	5035	
890-1829-A-11-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 17403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10171-1	C52 2'	Total/NA	Solid	Total BTEX	
880-10171-2	C53 2'	Total/NA	Solid	Total BTEX	
880-10171-3	C54 2'	Total/NA	Solid	Total BTEX	
880-10171-4	C55 2'	Total/NA	Solid	Total BTEX	
880-10171-5	C56 2'	Total/NA	Solid	Total BTEX	
880-10171-6	C57 2'	Total/NA	Solid	Total BTEX	
880-10171-7	C58 2'	Total/NA	Solid	Total BTEX	
880-10171-8	C59 2'	Total/NA	Solid	Total BTEX	
880-10171-9	C60 2'	Total/NA	Solid	Total BTEX	
880-10171-10	C61 2'	Total/NA	Solid	Total BTEX	
880-10171-11	C62 2'	Total/NA	Solid	Total BTEX	
880-10171-12	C63 2'	Total/NA	Solid	Total BTEX	
880-10171-13	C64 2'	Total/NA	Solid	Total BTEX	
880-10171-14	C65 2'	Total/NA	Solid	Total BTEX	
880-10171-15	C66 2'	Total/NA	Solid	Total BTEX	
880-10171-16	C67 2'	Total/NA	Solid	Total BTEX	
880-10171-17	C68 2'	Total/NA	Solid	Total BTEX	
880-10171-18	C69 2'	Total/NA	Solid	Total BTEX	
880-10171-19	C70 2'	Total/NA	Solid	Total BTEX	
880-10171-20	C71 2'	Total/NA	Solid	Total BTEX	
880-10171-21	C72 2'	Total/NA	Solid	Total BTEX	
880-10171-22	C73 2'	Total/NA	Solid	Total BTEX	
880-10171-23	C74 2'	Total/NA	Solid	Total BTEX	
880-10171-24	C75 2'	Total/NA	Solid	Total BTEX	
880-10171-25	C76 2'	Total/NA	Solid	Total BTEX	
880-10171-26	C77 2'	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

GC VOA (Continued)

Analysis Batch: 17403 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10171-27	C78 2'	Total/NA	Solid	Total BTEX	
880-10171-28	C79 2'	Total/NA	Solid	Total BTEX	
880-10171-29	C80 2'	Total/NA	Solid	Total BTEX	
880-10171-30	C81 2'	Total/NA	Solid	Total BTEX	
880-10171-31	C82 2'	Total/NA	Solid	Total BTEX	
880-10171-32	C83 2'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 16804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10171-21	C72 2'	Total/NA	Solid	8015NM Prep	
880-10171-22	C73 2'	Total/NA	Solid	8015NM Prep	
880-10171-23	C74 2'	Total/NA	Solid	8015NM Prep	
880-10171-24	C75 2'	Total/NA	Solid	8015NM Prep	
880-10171-25	C76 2'	Total/NA	Solid	8015NM Prep	
880-10171-26	C77 2'	Total/NA	Solid	8015NM Prep	
880-10171-27	C78 2'	Total/NA	Solid	8015NM Prep	
880-10171-28	C79 2'	Total/NA	Solid	8015NM Prep	
880-10171-29	C80 2'	Total/NA	Solid	8015NM Prep	
880-10171-30	C81 2'	Total/NA	Solid	8015NM Prep	
880-10171-31	C82 2'	Total/NA	Solid	8015NM Prep	
880-10171-32	C83 2'	Total/NA	Solid	8015NM Prep	
MB 880-16804/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-16804/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-16804/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-10171-21 MS	C72 2'	Total/NA	Solid	8015NM Prep	
880-10171-21 MSD	C72 2'	Total/NA	Solid	8015NM Prep	

Prep Batch: 16817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10171-1	C52 2'	Total/NA	Solid	8015NM Prep	
880-10171-2	C53 2'	Total/NA	Solid	8015NM Prep	
880-10171-3	C54 2'	Total/NA	Solid	8015NM Prep	
880-10171-4	C55 2'	Total/NA	Solid	8015NM Prep	
880-10171-5	C56 2'	Total/NA	Solid	8015NM Prep	
880-10171-6	C57 2'	Total/NA	Solid	8015NM Prep	
880-10171-7	C58 2'	Total/NA	Solid	8015NM Prep	
880-10171-8	C59 2'	Total/NA	Solid	8015NM Prep	
880-10171-9	C60 2'	Total/NA	Solid	8015NM Prep	
880-10171-10	C61 2'	Total/NA	Solid	8015NM Prep	
880-10171-11	C62 2'	Total/NA	Solid	8015NM Prep	
880-10171-12	C63 2'	Total/NA	Solid	8015NM Prep	
880-10171-13	C64 2'	Total/NA	Solid	8015NM Prep	
880-10171-14	C65 2'	Total/NA	Solid	8015NM Prep	
880-10171-15	C66 2'	Total/NA	Solid	8015NM Prep	
880-10171-16	C67 2'	Total/NA	Solid	8015NM Prep	
880-10171-17	C68 2'	Total/NA	Solid	8015NM Prep	
880-10171-18	C69 2'	Total/NA	Solid	8015NM Prep	
880-10171-19	C70 2'	Total/NA	Solid	8015NM Prep	
880-10171-20	C71 2'	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

GC Semi VOA (Continued)

Prep Batch: 16817 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-16817/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-16817/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-16817/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-10171-1 MS	C52 2'	Total/NA	Solid	8015NM Prep	
880-10171-1 MSD	C52 2'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 16954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10171-1	C52 2'	Total/NA	Solid	8015B NM	16817
880-10171-2	C53 2'	Total/NA	Solid	8015B NM	16817
880-10171-3	C54 2'	Total/NA	Solid	8015B NM	16817
880-10171-4	C55 2'	Total/NA	Solid	8015B NM	16817
880-10171-5	C56 2'	Total/NA	Solid	8015B NM	16817
880-10171-6	C57 2'	Total/NA	Solid	8015B NM	16817
880-10171-7	C58 2'	Total/NA	Solid	8015B NM	16817
880-10171-8	C59 2'	Total/NA	Solid	8015B NM	16817
880-10171-9	C60 2'	Total/NA	Solid	8015B NM	16817
880-10171-10	C61 2'	Total/NA	Solid	8015B NM	16817
880-10171-11	C62 2'	Total/NA	Solid	8015B NM	16817
880-10171-12	C63 2'	Total/NA	Solid	8015B NM	16817
880-10171-13	C64 2'	Total/NA	Solid	8015B NM	16817
880-10171-14	C65 2'	Total/NA	Solid	8015B NM	16817
880-10171-15	C66 2'	Total/NA	Solid	8015B NM	16817
880-10171-16	C67 2'	Total/NA	Solid	8015B NM	16817
880-10171-17	C68 2'	Total/NA	Solid	8015B NM	16817
880-10171-18	C69 2'	Total/NA	Solid	8015B NM	16817
880-10171-19	C70 2'	Total/NA	Solid	8015B NM	16817
880-10171-20	C71 2'	Total/NA	Solid	8015B NM	16817
880-10171-21	C72 2'	Total/NA	Solid	8015B NM	16804
880-10171-22	C73 2'	Total/NA	Solid	8015B NM	16804
880-10171-23	C74 2'	Total/NA	Solid	8015B NM	16804
880-10171-24	C75 2'	Total/NA	Solid	8015B NM	16804
880-10171-25	C76 2'	Total/NA	Solid	8015B NM	16804
880-10171-26	C77 2'	Total/NA	Solid	8015B NM	16804
880-10171-27	C78 2'	Total/NA	Solid	8015B NM	16804
880-10171-28	C79 2'	Total/NA	Solid	8015B NM	16804
880-10171-29	C80 2'	Total/NA	Solid	8015B NM	16804
880-10171-30	C81 2'	Total/NA	Solid	8015B NM	16804
880-10171-31	C82 2'	Total/NA	Solid	8015B NM	16804
880-10171-32	C83 2'	Total/NA	Solid	8015B NM	16804
MB 880-16804/1-A	Method Blank	Total/NA	Solid	8015B NM	16804
MB 880-16817/1-A	Method Blank	Total/NA	Solid	8015B NM	16817
LCS 880-16804/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	16804
LCS 880-16817/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	16817
LCSD 880-16804/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	16804
LCSD 880-16817/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	16817
880-10171-1 MS	C52 2'	Total/NA	Solid	8015B NM	16817
880-10171-1 MSD	C52 2'	Total/NA	Solid	8015B NM	16817
880-10171-21 MS	C72 2'	Total/NA	Solid	8015B NM	16804
880-10171-21 MSD	C72 2'	Total/NA	Solid	8015B NM	16804

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff SE 532 Fed Com 3

Job ID: 880-10171-1
SDG: 19-0180-07

GC Semi VOA

Analysis Batch: 17022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10171-1	C52 2'	Total/NA	Solid	8015 NM	
880-10171-2	C53 2'	Total/NA	Solid	8015 NM	
880-10171-3	C54 2'	Total/NA	Solid	8015 NM	
880-10171-4	C55 2'	Total/NA	Solid	8015 NM	
880-10171-5	C56 2'	Total/NA	Solid	8015 NM	
880-10171-6	C57 2'	Total/NA	Solid	8015 NM	
880-10171-7	C58 2'	Total/NA	Solid	8015 NM	
880-10171-8	C59 2'	Total/NA	Solid	8015 NM	
880-10171-9	C60 2'	Total/NA	Solid	8015 NM	
880-10171-10	C61 2'	Total/NA	Solid	8015 NM	
880-10171-11	C62 2'	Total/NA	Solid	8015 NM	
880-10171-12	C63 2'	Total/NA	Solid	8015 NM	
880-10171-13	C64 2'	Total/NA	Solid	8015 NM	
880-10171-14	C65 2'	Total/NA	Solid	8015 NM	
880-10171-15	C66 2'	Total/NA	Solid	8015 NM	
880-10171-16	C67 2'	Total/NA	Solid	8015 NM	
880-10171-17	C68 2'	Total/NA	Solid	8015 NM	
880-10171-18	C69 2'	Total/NA	Solid	8015 NM	
880-10171-19	C70 2'	Total/NA	Solid	8015 NM	
880-10171-20	C71 2'	Total/NA	Solid	8015 NM	
880-10171-21	C72 2'	Total/NA	Solid	8015 NM	
880-10171-22	C73 2'	Total/NA	Solid	8015 NM	
880-10171-23	C74 2'	Total/NA	Solid	8015 NM	
880-10171-24	C75 2'	Total/NA	Solid	8015 NM	
880-10171-25	C76 2'	Total/NA	Solid	8015 NM	
880-10171-26	C77 2'	Total/NA	Solid	8015 NM	
880-10171-27	C78 2'	Total/NA	Solid	8015 NM	
880-10171-28	C79 2'	Total/NA	Solid	8015 NM	
880-10171-29	C80 2'	Total/NA	Solid	8015 NM	
880-10171-30	C81 2'	Total/NA	Solid	8015 NM	
880-10171-31	C82 2'	Total/NA	Solid	8015 NM	
880-10171-32	C83 2'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 16762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10171-32	C83 2'	Soluble	Solid	DI Leach	
MB 880-16762/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-16762/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-16762/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-10171-32 MS	C83 2'	Soluble	Solid	DI Leach	
880-10171-32 MSD	C83 2'	Soluble	Solid	DI Leach	

Leach Batch: 16770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10171-1	C52 2'	Soluble	Solid	DI Leach	
880-10171-2	C53 2'	Soluble	Solid	DI Leach	
880-10171-3	C54 2'	Soluble	Solid	DI Leach	
880-10171-4	C55 2'	Soluble	Solid	DI Leach	
880-10171-5	C56 2'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff SE 532 Fed Com 3

Job ID: 880-10171-1
SDG: 19-0180-07

HPLC/IC (Continued)

Leach Batch: 16770 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10171-6	C57 2'	Soluble	Solid	DI Leach	
880-10171-7	C58 2'	Soluble	Solid	DI Leach	
880-10171-8	C59 2'	Soluble	Solid	DI Leach	
880-10171-9	C60 2'	Soluble	Solid	DI Leach	
880-10171-10	C61 2'	Soluble	Solid	DI Leach	
880-10171-11	C62 2'	Soluble	Solid	DI Leach	
880-10171-12	C63 2'	Soluble	Solid	DI Leach	
MB 880-16770/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-16770/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-16770/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-10171-1 MS	C52 2'	Soluble	Solid	DI Leach	
880-10171-1 MSD	C52 2'	Soluble	Solid	DI Leach	
880-10171-11 MS	C62 2'	Soluble	Solid	DI Leach	
880-10171-11 MSD	C62 2'	Soluble	Solid	DI Leach	

Leach Batch: 16771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10171-13	C64 2'	Soluble	Solid	DI Leach	
880-10171-14	C65 2'	Soluble	Solid	DI Leach	
880-10171-15	C66 2'	Soluble	Solid	DI Leach	
880-10171-16	C67 2'	Soluble	Solid	DI Leach	
880-10171-17	C68 2'	Soluble	Solid	DI Leach	
880-10171-18	C69 2'	Soluble	Solid	DI Leach	
880-10171-19	C70 2'	Soluble	Solid	DI Leach	
880-10171-20	C71 2'	Soluble	Solid	DI Leach	
880-10171-21	C72 2'	Soluble	Solid	DI Leach	
880-10171-22	C73 2'	Soluble	Solid	DI Leach	
880-10171-23	C74 2'	Soluble	Solid	DI Leach	
880-10171-24	C75 2'	Soluble	Solid	DI Leach	
880-10171-25	C76 2'	Soluble	Solid	DI Leach	
880-10171-26	C77 2'	Soluble	Solid	DI Leach	
880-10171-27	C78 2'	Soluble	Solid	DI Leach	
880-10171-28	C79 2'	Soluble	Solid	DI Leach	
880-10171-29	C80 2'	Soluble	Solid	DI Leach	
880-10171-30	C81 2'	Soluble	Solid	DI Leach	
880-10171-31	C82 2'	Soluble	Solid	DI Leach	
MB 880-16771/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-16771/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-16771/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-10171-13 MS	C64 2'	Soluble	Solid	DI Leach	
880-10171-13 MSD	C64 2'	Soluble	Solid	DI Leach	
880-10171-23 MS	C74 2'	Soluble	Solid	DI Leach	
880-10171-23 MSD	C74 2'	Soluble	Solid	DI Leach	

Analysis Batch: 16933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10171-1	C52 2'	Soluble	Solid	300.0	16770
880-10171-2	C53 2'	Soluble	Solid	300.0	16770
880-10171-3	C54 2'	Soluble	Solid	300.0	16770
880-10171-4	C55 2'	Soluble	Solid	300.0	16770
880-10171-5	C56 2'	Soluble	Solid	300.0	16770

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

HPLC/IC (Continued)

Analysis Batch: 16933 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10171-6	C57 2'	Soluble	Solid	300.0	16770
880-10171-7	C58 2'	Soluble	Solid	300.0	16770
880-10171-8	C59 2'	Soluble	Solid	300.0	16770
880-10171-9	C60 2'	Soluble	Solid	300.0	16770
880-10171-10	C61 2'	Soluble	Solid	300.0	16770
880-10171-11	C62 2'	Soluble	Solid	300.0	16770
880-10171-12	C63 2'	Soluble	Solid	300.0	16770
MB 880-16770/1-A	Method Blank	Soluble	Solid	300.0	16770
LCS 880-16770/2-A	Lab Control Sample	Soluble	Solid	300.0	16770
LCSD 880-16770/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	16770
880-10171-1 MS	C52 2'	Soluble	Solid	300.0	16770
880-10171-1 MSD	C52 2'	Soluble	Solid	300.0	16770
880-10171-11 MS	C62 2'	Soluble	Solid	300.0	16770
880-10171-11 MSD	C62 2'	Soluble	Solid	300.0	16770

Analysis Batch: 16934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10171-13	C64 2'	Soluble	Solid	300.0	16771
880-10171-14	C65 2'	Soluble	Solid	300.0	16771
880-10171-15	C66 2'	Soluble	Solid	300.0	16771
880-10171-16	C67 2'	Soluble	Solid	300.0	16771
880-10171-17	C68 2'	Soluble	Solid	300.0	16771
880-10171-18	C69 2'	Soluble	Solid	300.0	16771
880-10171-19	C70 2'	Soluble	Solid	300.0	16771
880-10171-20	C71 2'	Soluble	Solid	300.0	16771
880-10171-21	C72 2'	Soluble	Solid	300.0	16771
880-10171-22	C73 2'	Soluble	Solid	300.0	16771
880-10171-23	C74 2'	Soluble	Solid	300.0	16771
880-10171-24	C75 2'	Soluble	Solid	300.0	16771
880-10171-25	C76 2'	Soluble	Solid	300.0	16771
880-10171-26	C77 2'	Soluble	Solid	300.0	16771
880-10171-27	C78 2'	Soluble	Solid	300.0	16771
880-10171-28	C79 2'	Soluble	Solid	300.0	16771
880-10171-29	C80 2'	Soluble	Solid	300.0	16771
880-10171-30	C81 2'	Soluble	Solid	300.0	16771
880-10171-31	C82 2'	Soluble	Solid	300.0	16771
MB 880-16771/1-A	Method Blank	Soluble	Solid	300.0	16771
LCS 880-16771/2-A	Lab Control Sample	Soluble	Solid	300.0	16771
LCSD 880-16771/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	16771
880-10171-13 MS	C64 2'	Soluble	Solid	300.0	16771
880-10171-13 MSD	C64 2'	Soluble	Solid	300.0	16771
880-10171-23 MS	C74 2'	Soluble	Solid	300.0	16771
880-10171-23 MSD	C74 2'	Soluble	Solid	300.0	16771

Analysis Batch: 16935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10171-32	C83 2'	Soluble	Solid	300.0	16762
MB 880-16762/1-A	Method Blank	Soluble	Solid	300.0	16762
LCS 880-16762/2-A	Lab Control Sample	Soluble	Solid	300.0	16762
LCSD 880-16762/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	16762
880-10171-32 MS	C83 2'	Soluble	Solid	300.0	16762

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

HPLC/IC (Continued)

Analysis Batch: 16935 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10171-32 MSD	C83 2'	Soluble	Solid	300.0	16762

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff SE 532 Fed Com 3

Job ID: 880-10171-1
SDG: 19-0180-07

Client Sample ID: C52 2'

Date Collected: 01/12/22 08:00
Date Received: 01/13/22 08:25

Lab Sample ID: 880-10171-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	16740	01/13/22 10:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16837	01/15/22 16:26	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17403	01/20/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17022	01/17/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16817	01/14/22 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16954	01/16/22 12:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	16770	01/13/22 12:19	SC	XEN MID
Soluble	Analysis	300.0		1			16933	01/17/22 20:00	CH	XEN MID

Client Sample ID: C53 2'

Date Collected: 01/12/22 08:02
Date Received: 01/13/22 08:25

Lab Sample ID: 880-10171-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	16740	01/13/22 10:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16837	01/15/22 16:47	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17403	01/20/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17022	01/17/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16817	01/14/22 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16954	01/16/22 13:49	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	16770	01/13/22 12:19	SC	XEN MID
Soluble	Analysis	300.0		1			16933	01/17/22 20:22	CH	XEN MID

Client Sample ID: C54 2'

Date Collected: 01/12/22 08:04
Date Received: 01/13/22 08:25

Lab Sample ID: 880-10171-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	16740	01/13/22 10:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16837	01/15/22 17:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17403	01/20/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17022	01/17/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16817	01/14/22 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16954	01/16/22 14:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	16770	01/13/22 12:19	SC	XEN MID
Soluble	Analysis	300.0		1			16933	01/17/22 20:30	CH	XEN MID

Client Sample ID: C55 2'

Date Collected: 01/12/22 08:06
Date Received: 01/13/22 08:25

Lab Sample ID: 880-10171-4
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	16740	01/13/22 10:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16837	01/15/22 17:27	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17403	01/20/22 16:12	AJ	XEN MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff SE 532 Fed Com 3

Job ID: 880-10171-1
SDG: 19-0180-07

Client Sample ID: C55 2'

Date Collected: 01/12/22 08:06
Date Received: 01/13/22 08:25

Lab Sample ID: 880-10171-4
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			17022	01/17/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	16817	01/14/22 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16954	01/16/22 14:30	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	16770	01/13/22 12:19	SC	XEN MID
Soluble	Analysis	300.0		1			16933	01/17/22 20:37	CH	XEN MID

Client Sample ID: C56 2'

Date Collected: 01/12/22 08:08
Date Received: 01/13/22 08:25

Lab Sample ID: 880-10171-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	16740	01/13/22 10:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16837	01/15/22 17:48	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17403	01/20/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17022	01/17/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16817	01/14/22 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16954	01/16/22 14:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	16770	01/13/22 12:19	SC	XEN MID
Soluble	Analysis	300.0		1			16933	01/17/22 20:45	CH	XEN MID

Client Sample ID: C57 2'

Date Collected: 01/12/22 08:10
Date Received: 01/13/22 08:25

Lab Sample ID: 880-10171-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	16740	01/13/22 10:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16837	01/15/22 18:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17403	01/20/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17022	01/17/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16817	01/14/22 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16954	01/16/22 15:12	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	16770	01/13/22 12:19	SC	XEN MID
Soluble	Analysis	300.0		1			16933	01/17/22 21:07	CH	XEN MID

Client Sample ID: C58 2'

Date Collected: 01/12/22 08:12
Date Received: 01/13/22 08:25

Lab Sample ID: 880-10171-7
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			4.99 g	5 mL	16740	01/13/22 10:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16837	01/15/22 18:29	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17403	01/20/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17022	01/17/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16817	01/14/22 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16954	01/16/22 15:33	AJ	XEN MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff SE 532 Fed Com 3

Job ID: 880-10171-1
SDG: 19-0180-07

Client Sample ID: C58 2'

Date Collected: 01/12/22 08:12
Date Received: 01/13/22 08:25

Lab Sample ID: 880-10171-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	16770	01/13/22 12:19	SC	XEN MID
Soluble	Analysis	300.0		1			16933	01/17/22 21:15	CH	XEN MID

Client Sample ID: C59 2'

Date Collected: 01/12/22 08:14
Date Received: 01/13/22 08:25

Lab Sample ID: 880-10171-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	16740	01/13/22 10:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16837	01/15/22 18:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17403	01/20/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17022	01/17/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16817	01/14/22 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16954	01/16/22 15:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	16770	01/13/22 12:19	SC	XEN MID
Soluble	Analysis	300.0		5			16933	01/17/22 21:22	CH	XEN MID

Client Sample ID: C60 2'

Date Collected: 01/12/22 08:16
Date Received: 01/13/22 08:25

Lab Sample ID: 880-10171-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	16740	01/13/22 10:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16837	01/15/22 19:10	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17403	01/20/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17022	01/17/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16817	01/14/22 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16954	01/16/22 16:15	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	16770	01/13/22 12:19	SC	XEN MID
Soluble	Analysis	300.0		5			16933	01/17/22 21:30	CH	XEN MID

Client Sample ID: C61 2'

Date Collected: 01/12/22 08:18
Date Received: 01/13/22 08:25

Lab Sample ID: 880-10171-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	16740	01/13/22 10:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16837	01/15/22 19:30	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17403	01/20/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17022	01/17/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16817	01/14/22 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16954	01/16/22 16:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	16770	01/13/22 12:19	SC	XEN MID
Soluble	Analysis	300.0		1			16933	01/17/22 21:38	CH	XEN MID

Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C62 2' — Lab Sample ID: 880-10171-11

Date Collected: 01/12/22 08:20 **Matrix: Solid**
Date Received: 01/13/22 08:25

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	16740	01/13/22 10:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16837	01/15/22 21:20	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17403	01/20/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17022	01/17/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16817	01/14/22 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16954	01/16/22 17:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	16770	01/13/22 12:19	SC	XEN MID
Soluble	Analysis	300.0		1			16933	01/17/22 21:45	CH	XEN MID

Client Sample ID: C63 2' — Lab Sample ID: 880-10171-12

Date Collected: 01/12/22 08:22 **Matrix: Solid**
Date Received: 01/13/22 08:25

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	16740	01/13/22 10:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16837	01/15/22 21:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17403	01/20/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17022	01/17/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16817	01/14/22 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16954	01/16/22 17:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	16770	01/13/22 12:19	SC	XEN MID
Soluble	Analysis	300.0		5			16933	01/17/22 22:08	CH	XEN MID

Client Sample ID: C64 2' — Lab Sample ID: 880-10171-13

Date Collected: 01/12/22 08:24 **Matrix: Solid**
Date Received: 01/13/22 08:25

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	16740	01/13/22 10:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16837	01/15/22 22:01	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17403	01/20/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17022	01/17/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16817	01/14/22 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16954	01/16/22 18:00	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	16771	01/13/22 12:23	SC	XEN MID
Soluble	Analysis	300.0		1			16934	01/18/22 04:00	CH	XEN MID

Client Sample ID: C65 2' — Lab Sample ID: 880-10171-14

Date Collected: 01/12/22 08:26 **Matrix: Solid**
Date Received: 01/13/22 08:25

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	16740	01/13/22 10:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16837	01/15/22 22:22	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17403	01/20/22 16:12	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff SE 532 Fed Com 3

Job ID: 880-10171-1
SDG: 19-0180-07

Client Sample ID: C65 2'

Date Collected: 01/12/22 08:26
Date Received: 01/13/22 08:25

Lab Sample ID: 880-10171-14
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			17022	01/17/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16817	01/14/22 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16954	01/16/22 18:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	16771	01/13/22 12:23	SC	XEN MID
Soluble	Analysis	300.0		5			16934	01/18/22 04:25	CH	XEN MID

Client Sample ID: C66 2'

Date Collected: 01/12/22 08:28
Date Received: 01/13/22 08:25

Lab Sample ID: 880-10171-15
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			5.00 g	5 mL	16740	01/13/22 10:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16837	01/15/22 22:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17403	01/20/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17022	01/17/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16817	01/14/22 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16954	01/16/22 18:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	16771	01/13/22 12:23	SC	XEN MID
Soluble	Analysis	300.0		1			16934	01/18/22 04:33	CH	XEN MID

Client Sample ID: C67 2'

Date Collected: 01/12/22 08:30
Date Received: 01/13/22 08:25

Lab Sample ID: 880-10171-16
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			5.01 g	5 mL	16740	01/13/22 10:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16837	01/15/22 23:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17403	01/20/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17022	01/17/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16817	01/14/22 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16954	01/16/22 19:03	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	16771	01/13/22 12:23	SC	XEN MID
Soluble	Analysis	300.0		1			16934	01/18/22 04:42	CH	XEN MID

Client Sample ID: C68 2'

Date Collected: 01/12/22 08:32
Date Received: 01/13/22 08:25

Lab Sample ID: 880-10171-17
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	16740	01/13/22 10:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16837	01/15/22 23:23	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17403	01/20/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17022	01/17/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	16817	01/14/22 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16954	01/16/22 19:23	AJ	XEN MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff SE 532 Fed Com 3

Job ID: 880-10171-1
SDG: 19-0180-07

Client Sample ID: C68 2'

Date Collected: 01/12/22 08:32
Date Received: 01/13/22 08:25

Lab Sample ID: 880-10171-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	16771	01/13/22 12:23	SC	XEN MID
Soluble	Analysis	300.0		1			16934	01/18/22 04:50	CH	XEN MID

Client Sample ID: C69 2'

Date Collected: 01/12/22 08:34
Date Received: 01/13/22 08:25

Lab Sample ID: 880-10171-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	16740	01/13/22 10:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16837	01/15/22 23:43	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17403	01/20/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17022	01/17/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16817	01/14/22 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16954	01/16/22 19:44	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	16771	01/13/22 12:23	SC	XEN MID
Soluble	Analysis	300.0		1			16934	01/18/22 05:15	CH	XEN MID

Client Sample ID: C70 2'

Date Collected: 01/12/22 08:36
Date Received: 01/13/22 08:25

Lab Sample ID: 880-10171-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	16740	01/13/22 10:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16837	01/16/22 00:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17403	01/20/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17022	01/17/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16817	01/14/22 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16954	01/16/22 20:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	16771	01/13/22 12:23	SC	XEN MID
Soluble	Analysis	300.0		1			16934	01/18/22 05:24	CH	XEN MID

Client Sample ID: C71 2'

Date Collected: 01/12/22 08:38
Date Received: 01/13/22 08:25

Lab Sample ID: 880-10171-20

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	16740	01/13/22 10:34	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16837	01/16/22 00:24	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17403	01/20/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17022	01/17/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16817	01/14/22 08:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16954	01/16/22 20:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	16771	01/13/22 12:23	SC	XEN MID
Soluble	Analysis	300.0		1			16934	01/18/22 05:32	CH	XEN MID

Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C72 2'
Lab Sample ID: 880-10171-21
Date Collected: 01/12/22 08:40 **Matrix: Solid**
Date Received: 01/13/22 08:25

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	16835	01/14/22 09:21	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16936	01/16/22 18:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17403	01/20/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17022	01/17/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16804	01/13/22 16:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16954	01/16/22 22:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	16771	01/13/22 12:23	SC	XEN MID
Soluble	Analysis	300.0		1			16934	01/18/22 05:40	CH	XEN MID

Client Sample ID: C73 2'
Lab Sample ID: 880-10171-22
Date Collected: 01/12/22 08:42 **Matrix: Solid**
Date Received: 01/13/22 08:25

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	16835	01/14/22 09:21	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16936	01/16/22 19:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17403	01/20/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17022	01/17/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	16804	01/13/22 16:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16954	01/16/22 23:13	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	16771	01/13/22 12:23	SC	XEN MID
Soluble	Analysis	300.0		5			16934	01/18/22 05:49	CH	XEN MID

Client Sample ID: C74 2'
Lab Sample ID: 880-10171-23
Date Collected: 01/12/22 08:44 **Matrix: Solid**
Date Received: 01/13/22 08:25

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	16835	01/14/22 09:21	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16936	01/16/22 19:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17403	01/20/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17022	01/17/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16804	01/13/22 16:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16954	01/16/22 23:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	16771	01/13/22 12:23	SC	XEN MID
Soluble	Analysis	300.0		1			16934	01/18/22 05:57	CH	XEN MID

Client Sample ID: C75 2'
Lab Sample ID: 880-10171-24
Date Collected: 01/12/22 08:46 **Matrix: Solid**
Date Received: 01/13/22 08:25

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	16835	01/14/22 09:21	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16936	01/16/22 19:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17403	01/20/22 16:12	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff SE 532 Fed Com 3

Job ID: 880-10171-1
SDG: 19-0180-07

Client Sample ID: C75 2'

Date Collected: 01/12/22 08:46
Date Received: 01/13/22 08:25

Lab Sample ID: 880-10171-24

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			17022	01/17/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16804	01/13/22 16:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16954	01/16/22 23:54	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	16771	01/13/22 12:23	SC	XEN MID
Soluble	Analysis	300.0		1			16934	01/18/22 06:22	CH	XEN MID

Client Sample ID: C76 2'

Date Collected: 01/12/22 08:48
Date Received: 01/13/22 08:25

Lab Sample ID: 880-10171-25

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	16835	01/14/22 09:21	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16936	01/16/22 20:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17403	01/20/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17022	01/17/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16804	01/13/22 16:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16954	01/17/22 00:15	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	16771	01/13/22 12:23	SC	XEN MID
Soluble	Analysis	300.0		1			16934	01/18/22 06:30	CH	XEN MID

Client Sample ID: C77 2'

Date Collected: 01/12/22 08:50
Date Received: 01/13/22 08:25

Lab Sample ID: 880-10171-26

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	16835	01/14/22 09:21	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16936	01/16/22 20:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17403	01/20/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17022	01/17/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	16804	01/13/22 16:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16954	01/17/22 00:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	16771	01/13/22 12:23	SC	XEN MID
Soluble	Analysis	300.0		1			16934	01/18/22 06:55	CH	XEN MID

Client Sample ID: C78 2'

Date Collected: 01/12/22 08:52
Date Received: 01/13/22 08:25

Lab Sample ID: 880-10171-27

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	16835	01/14/22 09:21	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16936	01/16/22 21:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17403	01/20/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17022	01/17/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16804	01/13/22 16:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16954	01/17/22 00:56	AJ	XEN MID

Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C78 2'
Date Collected: 01/12/22 08:52
Date Received: 01/13/22 08:25

Lab Sample ID: 880-10171-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	16771	01/13/22 12:23	SC	XEN MID
Soluble	Analysis	300.0		1			16934	01/18/22 07:04	CH	XEN MID

Client Sample ID: C79 2'
Date Collected: 01/12/22 08:54
Date Received: 01/13/22 08:25

Lab Sample ID: 880-10171-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	16835	01/14/22 09:21	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16936	01/16/22 21:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17403	01/20/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17022	01/17/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	16804	01/13/22 16:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16954	01/17/22 01:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	16771	01/13/22 12:23	SC	XEN MID
Soluble	Analysis	300.0		1			16934	01/18/22 07:12	CH	XEN MID

Client Sample ID: C80 2'
Date Collected: 01/12/22 08:56
Date Received: 01/13/22 08:25

Lab Sample ID: 880-10171-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	16835	01/14/22 09:21	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16936	01/16/22 22:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17403	01/20/22 16:32	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17022	01/17/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16804	01/13/22 16:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16954	01/17/22 01:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	16771	01/13/22 12:23	SC	XEN MID
Soluble	Analysis	300.0		1			16934	01/18/22 07:20	CH	XEN MID

Client Sample ID: C81 2'
Date Collected: 01/12/22 08:58
Date Received: 01/13/22 08:25

Lab Sample ID: 880-10171-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	16835	01/14/22 09:21	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16936	01/16/22 22:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17403	01/20/22 16:32	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17022	01/17/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16804	01/13/22 16:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16954	01/17/22 01:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	16771	01/13/22 12:23	SC	XEN MID
Soluble	Analysis	300.0		5			16934	01/18/22 07:29	CH	XEN MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff SE 532 Fed Com 3

Job ID: 880-10171-1
SDG: 19-0180-07

Client Sample ID: C82 2'

Date Collected: 01/12/22 09:00
Date Received: 01/13/22 08:25

Lab Sample ID: 880-10171-31

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	16835	01/14/22 09:21	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16936	01/17/22 00:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17403	01/20/22 16:32	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17022	01/17/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16804	01/13/22 16:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16954	01/17/22 02:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	16771	01/13/22 12:23	SC	XEN MID
Soluble	Analysis	300.0		5			16934	01/18/22 07:37	CH	XEN MID

Client Sample ID: C83 2'

Date Collected: 01/12/22 09:02
Date Received: 01/13/22 08:25

Lab Sample ID: 880-10171-32

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	16835	01/14/22 09:21	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16936	01/17/22 00:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			17403	01/20/22 16:32	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17022	01/17/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16804	01/13/22 16:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16954	01/17/22 02:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	16762	01/13/22 12:10	SC	XEN MID
Soluble	Analysis	300.0		1			16935	01/18/22 08:43	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

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	T104704400-21-22	06-30-22

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: 880-10171-1
Project/Site: Culebre Bluff SE 532 Fed Com 3 SDG: 19-0180-07

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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:

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

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Culebre Bluff SE 532 Fed Com 3

Job ID: 880-10171-1
SDG: 19-0180-07

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-10171-1	C52 2'	Solid	01/12/22 08:00	01/13/22 08:25
880-10171-2	C53 2'	Solid	01/12/22 08:02	01/13/22 08:25
880-10171-3	C54 2'	Solid	01/12/22 08:04	01/13/22 08:25
880-10171-4	C55 2'	Solid	01/12/22 08:06	01/13/22 08:25
880-10171-5	C56 2'	Solid	01/12/22 08:08	01/13/22 08:25
880-10171-6	C57 2'	Solid	01/12/22 08:10	01/13/22 08:25
880-10171-7	C58 2'	Solid	01/12/22 08:12	01/13/22 08:25
880-10171-8	C59 2'	Solid	01/12/22 08:14	01/13/22 08:25
880-10171-9	C60 2'	Solid	01/12/22 08:16	01/13/22 08:25
880-10171-10	C61 2'	Solid	01/12/22 08:18	01/13/22 08:25
880-10171-11	C62 2'	Solid	01/12/22 08:20	01/13/22 08:25
880-10171-12	C63 2'	Solid	01/12/22 08:22	01/13/22 08:25
880-10171-13	C64 2'	Solid	01/12/22 08:24	01/13/22 08:25
880-10171-14	C65 2'	Solid	01/12/22 08:26	01/13/22 08:25
880-10171-15	C66 2'	Solid	01/12/22 08:28	01/13/22 08:25
880-10171-16	C67 2'	Solid	01/12/22 08:30	01/13/22 08:25
880-10171-17	C68 2'	Solid	01/12/22 08:32	01/13/22 08:25
880-10171-18	C69 2'	Solid	01/12/22 08:34	01/13/22 08:25
880-10171-19	C70 2'	Solid	01/12/22 08:36	01/13/22 08:25
880-10171-20	C71 2'	Solid	01/12/22 08:38	01/13/22 08:25
880-10171-21	C72 2'	Solid	01/12/22 08:40	01/13/22 08:25
880-10171-22	C73 2'	Solid	01/12/22 08:42	01/13/22 08:25
880-10171-23	C74 2'	Solid	01/12/22 08:44	01/13/22 08:25
880-10171-24	C75 2'	Solid	01/12/22 08:46	01/13/22 08:25
880-10171-25	C76 2'	Solid	01/12/22 08:48	01/13/22 08:25
880-10171-26	C77 2'	Solid	01/12/22 08:50	01/13/22 08:25
880-10171-27	C78 2'	Solid	01/12/22 08:52	01/13/22 08:25
880-10171-28	C79 2'	Solid	01/12/22 08:54	01/13/22 08:25
880-10171-29	C80 2'	Solid	01/12/22 08:56	01/13/22 08:25
880-10171-30	C81 2'	Solid	01/12/22 08:58	01/13/22 08:25
880-10171-31	C82 2'	Solid	01/12/22 09:00	01/13/22 08:25
880-10171-32	C83 2'	Solid	01/12/22 09:02	01/13/22 08:25

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No. 2383

10171 CHAIN-OF-CUSTODY

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

Data Reported to

DATE 1/13/22 PAGE 1 OF 3

PO# LAB WORK ORDER#

PROJECT LOCATION OR NAME Culebra Bluff SE 532 Fed Com 3

LAI PROJECT # 19-0180-07 COLLECTOR JR

TRRP report? ☐ Yes ☒ No

TIME ZONE Time zone/State: MST/NM

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

PRESERVATION: HCl, HNO_3, H_2SO_4, NaOH, ICE, UNPRESERVED

ANALYSES: BTEX MTBE By 8021B; TRPH 418.1; TPH 1005; TPH 1006; GASOLINE MOD 8015; DIESEL - MOD 8015; OIL - MOD 8015; VOC 8260; SVOC 8270; PAH 8270; HOLDPAH; 8081 PESTICIDES; 8082 PCBS; 8151 HERBICIDES; TCLP METALS (RCRA); TCLP VOC; TCLP PEST; TCLP HERB; Semi-VOC; TOTAL METALS (RCRA); OTHER LIST; LEAD - TOTAL; D W 200.8; TCLP; RCI; TOX; FLASHPOINT; TDS; TSS; % MOISTURE; pH; HEXAVALENT CHROMIUM; CYANIDE; EXPLOSIVES; PECHLORATE; CHLORIDE; ANIONS; ALKALINITY; By E300

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4	NaOH	ICE	UNPRESERVED	FIELD NOTES
C52 2'		1/12/22	8:00	S	1					X		202
C53 2'		1/12/22	8:02	S	1					X		
C54 2'		1/12/22	8:04	S	1					X		
C55 2'		1/12/22	8:06	S	1					X		
C56 2'		1/12/22	8:08	S	1					X		
C57 2'		1/12/22	8:10	S	1					X		
C58 2'		1/12/22	8:12	S	1					X		
C59 2'		1/12/22	8:14	S	1					X		
C60 2'		1/12/22	8:16	S	1					X		
C61 2'		1/12/22	8:18	S	1					X		
C62 2'		1/12/22	8:20	S	1					X		
C63 2'		1/12/22	8:22	S	1					X		
C64 2'		1/12/22	8:24	S	1					X		
C65 2'		1/12/22	8:26	S	1					X		
C66 2'		1/12	8:28	S	1					X		
TOTAL												

880-10171 Chain of Custody

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
	1/13/22 0808	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
	1/13/22 0825	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

LABORATORY USE ONLY
RECEIVING TEMP 01.2 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL #
☑ HAND DELIVERED

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1/20/2022

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No. 2384

10171

CHAIN-OF-CUSTODY

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

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DATE 1/13/22 PAGE 2 OF 3

PO# LAB WORK ORDER#

PROJECT LOCATION OR NAME Culebra Bluff SE 532 Fed Com 3

LAI PROJECT # 19-01180-07 COLLECTOR JR

TRRP report? ☐ Yes ☒ No

TIME ZONE Time zone/State: MST/NM

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

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX X MTBE ☐ / By 8021B	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 X	DIESEL MOD 8015 X	OIL - MOD 8015 X	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 ☐ DW 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES X ANIONS ☐ ALKALINITY ☐ / By E300	FIELD NOTES
C67 4'		1/12/22	8:30	S	1				X		X		X	X	X															X	
C68 4'		1/12/22	8:32	S	1				X		X			X	X															X	
C69 4'		1/12/22	8:34	S	1				X		X			X	X															X	
C70 4'		1/12/22	8:36	S	1				X		X			X	X															X	
C71 4'		1/12/22	8:38	S	1				X		X			X	X															X	
C72 4'		1/12/22	8:40	S	1				X		X			X	X															X	
C73 4'		1/12/22	8:42	S	1				X		X			X	X															X	
C74 4'		1/12/22	8:44	S	1				X		X			X	X															X	
C75 4'		1/12/22	8:46	S	1				X		X			X	X															X	
C76 4'		1/12/22	8:48	S	1				X		X			X	X															X	
C77 4'		1/12/22	8:50	S	1				X		X			X	X															X	
C78 4'		1/12/22	8:52	S	1				X		X			X	X															X	
C79 4'		1/12/22	8:54	S	1				X		X			X	X															X	
C80 4'		1/12/22	8:56	S	1				X		X			X	X															X	
C81 4'		1/12/22	8:58	S	1				X		X			X	X															X	
TOTAL																															

RELINQUISHED BY (Signature) DATE/TIME 1/13/22 0808 RECEIVED BY (Signature)

RELINQUISHED BY (Signature) DATE/TIME 1/13/22 0825 RECEIVED BY (Signature)

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

LABORATORY Xenco

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

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

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No. 2385

10171

CHAIN-OF-CUSTODY

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

Data Reported to

DATE 1/13/22 PAGE 3 OF 3

PO# LAB WORK ORDER#

PROJECT LOCATION OR NAME Culebra Bluff SE 532 Fed Com 3

LAI PROJECT # 19-0180-07 COLLECTOR JR

TRRP report? ☐ Yes ☒ No

TIME ZONE Time zone/State: MST/NM

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

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4	NaOH	ICE	UNPRESERVED	ANALYSES: BTEX 8021 B 8260 B	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	TOTAL METALS (RCRA)	Semi-VOC	LEAD - TOTAL	OTHER LIST	RCI	D W 200 8	TOX	TCLP	TDS	TSS	FLASHPOINT	pH	% MOISTURE	HEXAVALENT CHROMIUM	EXPLOSIVES	CYANIDE	CHLORIDES	PECHLORATE	ANIONS	ALKALINITY	BTEX E 360	FIELD NOTES
CB2 4'		1/12/22	9:00	S	1					X		X		X			X																																	
CB3 4'		1/12/22	9:02	S	1					X		X		X			X																																	
TOTAL																																																		

RELINQUISHED BY (Signature) DATE/TIME 1/13/22 0808 RECEIVED BY: (Signature)

RELINQUISHED BY (Signature) DATE/TIME 1/13/22 0825 RECEIVED BY (Signature)

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

LABORATORY Xenco

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

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

1/20/2022

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Received by OCD: 5/8/2024 10:38:54 AM

Released to Imaging: 6/25/2024 3:25:17 PM

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-10171-1
SDG Number: 19-0180-07

Login Number: 10171
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 America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-12957-1
Laboratory Sample Delivery Group: 19-0180-07
Client Project/Site: Culebra Bluff SE 5 32

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Attn: Mr. Mark J Larson

Holly Taylor

Authorized for release by:
4/7/2022 2:29:58 PM

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

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-12957-1
SDG: 19-0180-07

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-12957-1
SDG: 19-0180-07

Job ID: 880-12957-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-12957-1

Comments
No additional comments.

Receipt
The samples were received on 3/28/2022 1:58 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 was 0.1º C.

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

GC Semi VOA
Method 8015B NM: Surrogate recovery for the following samples were outside control limits: C-86 (880-12957-4), C-59 (880-12957-9) and (MB 880-22521/1-A). Evidence of matrix interferences is not obvious.

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

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

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

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

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-12957-1
SDG: 19-0180-07

Client Sample ID: C-3

Date Collected: 03/25/22 12:02
Date Received: 03/28/22 13:58

Lab Sample ID: 880-12957-1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/31/22 12:00	03/31/22 15:56	1
Toluene	<0.00202	U F1	0.00202		mg/Kg		03/31/22 12:00	03/31/22 15:56	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/31/22 12:00	03/31/22 15:56	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		03/31/22 12:00	03/31/22 15:56	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/31/22 12:00	03/31/22 15:56	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/31/22 12:00	03/31/22 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*03/31/22 12:00*	*03/31/22 15:56*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*03/31/22 12:00*	*03/31/22 15:56*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			04/01/22 15:18	1

Method: 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			03/30/22 10:27	1

Method: 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		03/29/22 08:56	03/29/22 12:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/29/22 08:56	03/29/22 12:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/29/22 08:56	03/29/22 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*03/29/22 08:56*	*03/29/22 12:55*	*1*
o-Terphenyl (Surr)	*115*		*70 - 130*	*03/29/22 08:56*	*03/29/22 12:55*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**451**		4.99		mg/Kg			04/06/22 02:04	1

Client Sample ID: C-5

Date Collected: 03/25/22 10:00
Date Received: 03/28/22 13:58

Lab Sample ID: 880-12957-2

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/31/22 12:00	03/31/22 16:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/31/22 12:00	03/31/22 16:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/31/22 12:00	03/31/22 16:17	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		03/31/22 12:00	03/31/22 16:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/31/22 12:00	03/31/22 16:17	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/31/22 12:00	03/31/22 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*	*03/31/22 12:00*	*03/31/22 16:17*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*03/31/22 12:00*	*03/31/22 16:17*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-12957-1
SDG: 19-0180-07

Client Sample ID: C-5

Date Collected: 03/25/22 10:00
Date Received: 03/28/22 13:58

Lab Sample ID: 880-12957-2

Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/01/22 15:18	1

Method: 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			03/30/22 10:27	1

Method: 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		03/29/22 08:56	03/29/22 13:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/29/22 08:56	03/29/22 13:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/29/22 08:56	03/29/22 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*105*		*70 - 130*	*03/29/22 08:56*	*03/29/22 13:58*	*1*
o-Terphenyl (Surr)	*115*		*70 - 130*	*03/29/22 08:56*	*03/29/22 13:58*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**943**		24.8		mg/Kg			04/06/22 02:13	5

Client Sample ID: C-4

Date Collected: 03/25/22 10:02
Date Received: 03/28/22 13:58

Lab Sample ID: 880-12957-3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/31/22 12:00	03/31/22 16:38	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/31/22 12:00	03/31/22 16:38	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/31/22 12:00	03/31/22 16:38	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		03/31/22 12:00	03/31/22 16:38	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/31/22 12:00	03/31/22 16:38	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/31/22 12:00	03/31/22 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*03/31/22 12:00*	*03/31/22 16:38*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*03/31/22 12:00*	*03/31/22 16:38*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			04/01/22 15:18	1

Method: 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			03/30/22 10:27	1

Method: 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		03/29/22 08:56	03/29/22 14:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/29/22 08:56	03/29/22 14:18	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-12957-1
SDG: 19-0180-07

Client Sample ID: C-4

Date Collected: 03/25/22 10:02
Date Received: 03/28/22 13:58

Lab Sample ID: 880-12957-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/29/22 08:56	03/29/22 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*03/29/22 08:56*	*03/29/22 14:18*	*1*
o-Terphenyl (Surr)	*116*		*70 - 130*	*03/29/22 08:56*	*03/29/22 14:18*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**995**		24.8		mg/Kg			04/06/22 02:22	5

Client Sample ID: C-86

Date Collected: 03/25/22 10:32
Date Received: 03/28/22 13:58

Lab Sample ID: 880-12957-4

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/31/22 12:00	03/31/22 16:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/31/22 12:00	03/31/22 16:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/31/22 12:00	03/31/22 16:59	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/31/22 12:00	03/31/22 16:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/31/22 12:00	03/31/22 16:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/31/22 12:00	03/31/22 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*03/31/22 12:00*	*03/31/22 16:59*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*03/31/22 12:00*	*03/31/22 16:59*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			04/01/22 15:18	1

Method: 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			03/30/22 10:27	1

Method: 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		03/29/22 08:56	03/29/22 14:39	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		03/29/22 08:56	03/29/22 14:39	1
Oll Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/29/22 08:56	03/29/22 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*119*		*70 - 130*	*03/29/22 08:56*	*03/29/22 14:39*	*1*
o-Terphenyl (Surr)	*131*	*S1+*	*70 - 130*	*03/29/22 08:56*	*03/29/22 14:39*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1660**		24.9		mg/Kg			04/06/22 02:31	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-12957-1
SDG: 19-0180-07

Client Sample ID: C-87

Date Collected: 03/25/22 10:34
Date Received: 03/28/22 13:58

Lab Sample ID: 880-12957-5

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/31/22 12:00	03/31/22 17:20	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/31/22 12:00	03/31/22 17:20	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/31/22 12:00	03/31/22 17:20	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		03/31/22 12:00	03/31/22 17:20	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/31/22 12:00	03/31/22 17:20	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/31/22 12:00	03/31/22 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*03/31/22 12:00*	*03/31/22 17:20*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*03/31/22 12:00*	*03/31/22 17:20*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			04/01/22 15:18	1

Method: 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			03/30/22 10:27	1

Method: 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		03/29/22 08:56	03/29/22 15:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/29/22 08:56	03/29/22 15:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/29/22 08:56	03/29/22 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*03/29/22 08:56*	*03/29/22 15:00*	*1*
o-Terphenyl (Surr)	*125*		*70 - 130*	*03/29/22 08:56*	*03/29/22 15:00*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3030**		49.9		mg/Kg			04/06/22 02:39	10

Client Sample ID: C-88

Date Collected: 03/25/22 10:36
Date Received: 03/28/22 13:58

Lab Sample ID: 880-12957-6

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/31/22 12:00	03/31/22 17:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/31/22 12:00	03/31/22 17:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/31/22 12:00	03/31/22 17:40	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/31/22 12:00	03/31/22 17:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/31/22 12:00	03/31/22 17:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/31/22 12:00	03/31/22 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*03/31/22 12:00*	*03/31/22 17:40*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*03/31/22 12:00*	*03/31/22 17:40*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-12957-1
SDG: 19-0180-07

Client Sample ID: C-88

Date Collected: 03/25/22 10:36
Date Received: 03/28/22 13:58

Lab Sample ID: 880-12957-6

Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/01/22 15:18	1

Method: 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			03/30/22 10:27	1

Method: 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		03/29/22 08:56	03/29/22 15:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/29/22 08:56	03/29/22 15:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/29/22 08:56	03/29/22 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*03/29/22 08:56*	*03/29/22 15:21*	*1*
o-Terphenyl (Surr)	*118*		*70 - 130*	*03/29/22 08:56*	*03/29/22 15:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1590**		25.0		mg/Kg			04/06/22 03:06	5

Client Sample ID: C-64

Date Collected: 03/24/22 11:02
Date Received: 03/28/22 13:58

Lab Sample ID: 880-12957-7

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/31/22 12:00	03/31/22 18:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/31/22 12:00	03/31/22 18:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/31/22 12:00	03/31/22 18:01	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		03/31/22 12:00	03/31/22 18:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/31/22 12:00	03/31/22 18:01	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/31/22 12:00	03/31/22 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*138*	*S1+*	*70 - 130*	*03/31/22 12:00*	*03/31/22 18:01*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*03/31/22 12:00*	*03/31/22 18:01*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/01/22 15:18	1

Method: 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			03/30/22 10:27	1

Method: 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		03/29/22 08:56	03/29/22 15:42	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/29/22 08:56	03/29/22 15:42	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-12957-1
SDG: 19-0180-07

Client Sample ID: C-64

Date Collected: 03/24/22 11:02
Date Received: 03/28/22 13:58

Lab Sample ID: 880-12957-7

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/29/22 08:56	03/29/22 15:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*03/29/22 08:56*	*03/29/22 15:42*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*03/29/22 08:56*	*03/29/22 15:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**348**		4.95		mg/Kg			04/06/22 03:14	1

Client Sample ID: C-66

Date Collected: 03/24/22 11:06
Date Received: 03/28/22 13:58

Lab Sample ID: 880-12957-8

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/31/22 12:00	03/31/22 18:22	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/31/22 12:00	03/31/22 18:22	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/31/22 12:00	03/31/22 18:22	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		03/31/22 12:00	03/31/22 18:22	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/31/22 12:00	03/31/22 18:22	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/31/22 12:00	03/31/22 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*03/31/22 12:00*	*03/31/22 18:22*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*03/31/22 12:00*	*03/31/22 18:22*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/01/22 15:18	1

Method: 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			03/30/22 10:27	1

Method: 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		03/29/22 08:56	03/29/22 16:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/29/22 08:56	03/29/22 16:03	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/29/22 08:56	03/29/22 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*03/29/22 08:56*	*03/29/22 16:03*	*1*
o-Terphenyl (Surr)	*114*		*70 - 130*	*03/29/22 08:56*	*03/29/22 16:03*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**364**		5.00		mg/Kg			04/06/22 19:16	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-12957-1
SDG: 19-0180-07

Client Sample ID: C-59

Date Collected: 03/24/22 10:30
Date Received: 03/28/22 13:58

Lab Sample ID: 880-12957-9

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/31/22 12:00	03/31/22 20:28	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/31/22 12:00	03/31/22 20:28	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/31/22 12:00	03/31/22 20:28	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		03/31/22 12:00	03/31/22 20:28	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/31/22 12:00	03/31/22 20:28	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/31/22 12:00	03/31/22 20:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*03/31/22 12:00*	*03/31/22 20:28*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*03/31/22 12:00*	*03/31/22 20:28*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			04/01/22 15:18	1

Method: 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			03/30/22 10:27	1

Method: 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		03/29/22 08:56	03/29/22 16:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/29/22 08:56	03/29/22 16:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/29/22 08:56	03/29/22 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*118*		*70 - 130*	*03/29/22 08:56*	*03/29/22 16:24*	*1*
o-Terphenyl (Surr)	*131*	*S1+*	*70 - 130*	*03/29/22 08:56*	*03/29/22 16:24*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**519**		5.05		mg/Kg			04/06/22 19:25	1

Client Sample ID: C-85

Date Collected: 03/24/22 10:40
Date Received: 03/28/22 13:58

Lab Sample ID: 880-12957-10

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/31/22 12:00	03/31/22 20:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/31/22 12:00	03/31/22 20:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/31/22 12:00	03/31/22 20:48	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/31/22 12:00	03/31/22 20:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/31/22 12:00	03/31/22 20:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/31/22 12:00	03/31/22 20:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*03/31/22 12:00*	*03/31/22 20:48*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*03/31/22 12:00*	*03/31/22 20:48*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-12957-1
SDG: 19-0180-07

Client Sample ID: C-85

Date Collected: 03/24/22 10:40
Date Received: 03/28/22 13:58

Lab Sample ID: 880-12957-10
Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/01/22 15:18	1

Method: 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			03/30/22 10:27	1

Method: 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		03/29/22 08:56	03/29/22 16:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/29/22 08:56	03/29/22 16:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/29/22 08:56	03/29/22 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*03/29/22 08:56*	*03/29/22 16:45*	*1*
o-Terphenyl (Surr)	*113*		*70 - 130*	*03/29/22 08:56*	*03/29/22 16:45*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**874**		4.99		mg/Kg			04/06/22 19:34	1

Client Sample ID: C-60

Date Collected: 03/24/22 10:31
Date Received: 03/28/22 13:58

Lab Sample ID: 880-12957-11
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/31/22 12:00	03/31/22 21:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/31/22 12:00	03/31/22 21:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/31/22 12:00	03/31/22 21:09	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/31/22 12:00	03/31/22 21:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/31/22 12:00	03/31/22 21:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/31/22 12:00	03/31/22 21:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*03/31/22 12:00*	*03/31/22 21:09*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*03/31/22 12:00*	*03/31/22 21:09*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/01/22 15:18	1

Method: 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			03/30/22 10:27	1

Method: 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		03/29/22 08:56	03/29/22 17:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/29/22 08:56	03/29/22 17:27	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-12957-1
SDG: 19-0180-07

Client Sample ID: C-60

Date Collected: 03/24/22 10:31
Date Received: 03/28/22 13:58

Lab Sample ID: 880-12957-11

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/29/22 08:56	03/29/22 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*03/29/22 08:56*	*03/29/22 17:27*	*1*
o-Terphenyl (Surr)	*112*		*70 - 130*	*03/29/22 08:56*	*03/29/22 17:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**934**		24.9		mg/Kg			04/06/22 19:42	5

Client Sample ID: C-61

Date Collected: 03/24/22 10:32
Date Received: 03/28/22 13:58

Lab Sample ID: 880-12957-12

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/31/22 12:00	03/31/22 21:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/31/22 12:00	03/31/22 21:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/31/22 12:00	03/31/22 21:30	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		03/31/22 12:00	03/31/22 21:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/31/22 12:00	03/31/22 21:30	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/31/22 12:00	03/31/22 21:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*03/31/22 12:00*	*03/31/22 21:30*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*03/31/22 12:00*	*03/31/22 21:30*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/01/22 15:18	1

Method: 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			03/30/22 10:27	1

Method: 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		03/29/22 08:56	03/29/22 17:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/29/22 08:56	03/29/22 17:48	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/29/22 08:56	03/29/22 17:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*03/29/22 08:56*	*03/29/22 17:48*	*1*
o-Terphenyl (Surr)	*115*		*70 - 130*	*03/29/22 08:56*	*03/29/22 17:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**295**		4.99		mg/Kg			04/06/22 19:51	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-12957-1
SDG: 19-0180-07

Client Sample ID: C-84

Date Collected: 03/24/22 11:02
Date Received: 03/28/22 13:58

Lab Sample ID: 880-12957-13

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/31/22 12:00	03/31/22 21:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/31/22 12:00	03/31/22 21:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/31/22 12:00	03/31/22 21:51	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		03/31/22 12:00	03/31/22 21:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/31/22 12:00	03/31/22 21:51	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/31/22 12:00	03/31/22 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*03/31/22 12:00*	*03/31/22 21:51*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*03/31/22 12:00*	*03/31/22 21:51*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/01/22 15:18	1

Method: 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			03/30/22 10:27	1

Method: 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		03/29/22 08:56	03/29/22 18:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/29/22 08:56	03/29/22 18:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/29/22 08:56	03/29/22 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*03/29/22 08:56*	*03/29/22 18:09*	*1*
o-Terphenyl (Surr)	*117*		*70 - 130*	*03/29/22 08:56*	*03/29/22 18:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**738**		4.95		mg/Kg			04/06/22 20:00	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-12957-1
SDG: 19-0180-07

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)
880-12957-1	C-3	104	106
880-12957-1 MS	C-3	103	111
880-12957-1 MSD	C-3	100	108
880-12957-2	C-5	137 S1+	98
880-12957-3	C-4	112	98
880-12957-4	C-86	130	95
880-12957-5	C-87	133 S1+	94
880-12957-6	C-88	116	104
880-12957-7	C-64	138 S1+	98
880-12957-8	C-66	118	107
880-12957-9	C-59	106	100
880-12957-10	C-85	114	101
880-12957-11	C-60	115	106
880-12957-12	C-61	115	104
880-12957-13	C-84	118	105
LCS 880-22658/1-A	Lab Control Sample	97	105
LCSD 880-22658/2-A	Lab Control Sample Dup	97	107
MB 880-22658/5-A	Method Blank	118	100

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)
880-12957-1	C-3	104	115
880-12957-1 MS	C-3	113	117
880-12957-1 MSD	C-3	111	116
880-12957-2	C-5	105	115
880-12957-3	C-4	106	116
880-12957-4	C-86	119	131 S1+
880-12957-5	C-87	104	125
880-12957-6	C-88	106	118
880-12957-7	C-64	102	111
880-12957-8	C-66	103	114
880-12957-9	C-59	118	131 S1+
880-12957-10	C-85	104	113
880-12957-11	C-60	103	112
880-12957-12	C-61	104	115
880-12957-13	C-84	103	117

Surrogate Legend

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

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-12957-1
Project/Site: Culebra Bluff SE 5 32 SDG: 19-0180-07

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	1CO2 (70-130)	OTPH2 (70-130)								
LCS 880-22521/2-A	Lab Control Sample	111	125								
LCSD 880-22521/3-A	Lab Control Sample Dup	115	127								
MB 880-22521/1-A	Method Blank	123	141 S1+								

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-12957-1
SDG: 19-0180-07

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-22658/5-A
Matrix: Solid
Analysis Batch: 22719

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22658

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/31/22 12:00	03/31/22 15:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/31/22 12:00	03/31/22 15:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/31/22 12:00	03/31/22 15:35	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/31/22 12:00	03/31/22 15:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/31/22 12:00	03/31/22 15:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/31/22 12:00	03/31/22 15:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*03/31/22 12:00*	*03/31/22 15:35*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*03/31/22 12:00*	*03/31/22 15:35*	*1*

Lab Sample ID: LCS 880-22658/1-A
Matrix: Solid
Analysis Batch: 22719

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22658

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1059		mg/Kg		106	70 - 130		
Toluene			0.100	0.08868		mg/Kg		89	70 - 130		
Ethylbenzene			0.100	0.09566		mg/Kg		96	70 - 130		
m,p-Xylenes			0.200	0.2009		mg/Kg		100	70 - 130		
o-Xylene			0.100	0.09872		mg/Kg		99	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 880-22658/2-A
Matrix: Solid
Analysis Batch: 22719

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 22658

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1028		mg/Kg		103	70 - 130	3	35
Toluene			0.100	0.08247		mg/Kg		82	70 - 130	7	35
Ethylbenzene			0.100	0.08947		mg/Kg		89	70 - 130	7	35
m,p-Xylenes			0.200	0.1885		mg/Kg		94	70 - 130	6	35
o-Xylene			0.100	0.09437		mg/Kg		94	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 880-12957-1 MS
Matrix: Solid
Analysis Batch: 22719

Client Sample ID: C-3
Prep Type: Total/NA
Prep Batch: 22658

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00202	U	0.0992	0.08872		mg/Kg		89	70 - 130		
Toluene	<0.00202	U F1	0.0992	0.07307		mg/Kg		73	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-12957-1
SDG: 19-0180-07

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

Lab Sample ID: 880-12957-1 MS
Matrix: Solid
Analysis Batch: 22719

Client Sample ID: C-3
Prep Type: Total/NA
Prep Batch: 22658

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U	0.0992	0.07727		mg/Kg		78	70 - 130
m,p-Xylenes	<0.00404	U	0.198	0.1629		mg/Kg		82	70 - 130
o-Xylene	<0.00202	U	0.0992	0.08143		mg/Kg		82	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: 880-12957-1 MSD
Matrix: Solid
Analysis Batch: 22719

Client Sample ID: C-3
Prep Type: Total/NA
Prep Batch: 22658

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0996	0.08510		mg/Kg		85	70 - 130	4	35
Toluene	<0.00202	U F1	0.0996	0.06941	F1	mg/Kg		69	70 - 130	5	35
Ethylbenzene	<0.00202	U	0.0996	0.07530		mg/Kg		76	70 - 130	3	35
m,p-Xylenes	<0.00404	U	0.199	0.1580		mg/Kg		79	70 - 130	3	35
o-Xylene	<0.00202	U	0.0996	0.07836		mg/Kg		79	70 - 130	4	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

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

Lab Sample ID: MB 880-22521/1-A
Matrix: Solid
Analysis Batch: 22514

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22521

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		03/29/22 08:56	03/29/22 11:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/29/22 08:56	03/29/22 11:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/29/22 08:56	03/29/22 11:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*123*		*70 - 130*	*03/29/22 08:56*	*03/29/22 11:53*	*1*
o-Terphenyl (Surr)	*141*	*S1+*	*70 - 130*	*03/29/22 08:56*	*03/29/22 11:53*	*1*

Lab Sample ID: LCS 880-22521/2-A
Matrix: Solid
Analysis Batch: 22514

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22521

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	942.8		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1012		mg/Kg		101	70 - 130

Eurofins Midland

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-12957-1
SDG: 19-0180-07

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

Lab Sample ID: LCS 880-22521/2-A
Matrix: Solid
Analysis Batch: 22514

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22521

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	111		70 - 130
o-Terphenyl (Surr)	125		70 - 130

Lab Sample ID: LCSD 880-22521/3-A
Matrix: Solid
Analysis Batch: 22514

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 22521

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	916.3		mg/Kg		92	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1036		mg/Kg		104	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	115		70 - 130
o-Terphenyl (Surr)	127		70 - 130

Lab Sample ID: 880-12957-1 MS
Matrix: Solid
Analysis Batch: 22514

Client Sample ID: C-3
Prep Type: Total/NA
Prep Batch: 22521

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1259		mg/Kg		123	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	810.8		mg/Kg		79	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	113		70 - 130
o-Terphenyl (Surr)	117		70 - 130

Lab Sample ID: 880-12957-1 MSD
Matrix: Solid
Analysis Batch: 22514

Client Sample ID: C-3
Prep Type: Total/NA
Prep Batch: 22521

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1279		mg/Kg		125	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	807.0		mg/Kg		78	70 - 130	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	111		70 - 130
o-Terphenyl (Surr)	116		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-12957-1
SDG: 19-0180-07

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22797/1-A
Matrix: Solid
Analysis Batch: 22917

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/04/22 10:37	1

Lab Sample ID: LCS 880-22797/2-A
Matrix: Solid
Analysis Batch: 22917

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	249.9		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-22797/3-A
Matrix: Solid
Analysis Batch: 22917

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	250.0		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-12957-5 MS
Matrix: Solid
Analysis Batch: 22917

Client Sample ID: C-87
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	3030		2500	5723		mg/Kg		108	90 - 110		

Lab Sample ID: 880-12957-5 MSD
Matrix: Solid
Analysis Batch: 22917

Client Sample ID: C-87
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3030		2500	5538		mg/Kg		101	90 - 110	3	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-12957-1
SDG: 19-0180-07

GC VOA

Prep Batch: 22658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12957-1	C-3	Total/NA	Solid	5035	
880-12957-2	C-5	Total/NA	Solid	5035	
880-12957-3	C-4	Total/NA	Solid	5035	
880-12957-4	C-86	Total/NA	Solid	5035	
880-12957-5	C-87	Total/NA	Solid	5035	
880-12957-6	C-88	Total/NA	Solid	5035	
880-12957-7	C-64	Total/NA	Solid	5035	
880-12957-8	C-66	Total/NA	Solid	5035	
880-12957-9	C-59	Total/NA	Solid	5035	
880-12957-10	C-85	Total/NA	Solid	5035	
880-12957-11	C-60	Total/NA	Solid	5035	
880-12957-12	C-61	Total/NA	Solid	5035	
880-12957-13	C-84	Total/NA	Solid	5035	
MB 880-22658/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-22658/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22658/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-12957-1 MS	C-3	Total/NA	Solid	5035	
880-12957-1 MSD	C-3	Total/NA	Solid	5035	

Analysis Batch: 22719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12957-1	C-3	Total/NA	Solid	8021B	22658
880-12957-2	C-5	Total/NA	Solid	8021B	22658
880-12957-3	C-4	Total/NA	Solid	8021B	22658
880-12957-4	C-86	Total/NA	Solid	8021B	22658
880-12957-5	C-87	Total/NA	Solid	8021B	22658
880-12957-6	C-88	Total/NA	Solid	8021B	22658
880-12957-7	C-64	Total/NA	Solid	8021B	22658
880-12957-8	C-66	Total/NA	Solid	8021B	22658
880-12957-9	C-59	Total/NA	Solid	8021B	22658
880-12957-10	C-85	Total/NA	Solid	8021B	22658
880-12957-11	C-60	Total/NA	Solid	8021B	22658
880-12957-12	C-61	Total/NA	Solid	8021B	22658
880-12957-13	C-84	Total/NA	Solid	8021B	22658
MB 880-22658/5-A	Method Blank	Total/NA	Solid	8021B	22658
LCS 880-22658/1-A	Lab Control Sample	Total/NA	Solid	8021B	22658
LCSD 880-22658/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22658
880-12957-1 MS	C-3	Total/NA	Solid	8021B	22658
880-12957-1 MSD	C-3	Total/NA	Solid	8021B	22658

Analysis Batch: 22830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12957-1	C-3	Total/NA	Solid	Total BTEX	
880-12957-2	C-5	Total/NA	Solid	Total BTEX	
880-12957-3	C-4	Total/NA	Solid	Total BTEX	
880-12957-4	C-86	Total/NA	Solid	Total BTEX	
880-12957-5	C-87	Total/NA	Solid	Total BTEX	
880-12957-6	C-88	Total/NA	Solid	Total BTEX	
880-12957-7	C-64	Total/NA	Solid	Total BTEX	
880-12957-8	C-66	Total/NA	Solid	Total BTEX	
880-12957-9	C-59	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-12957-1
SDG: 19-0180-07

GC VOA (Continued)

Analysis Batch: 22830 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12957-10	C-85	Total/NA	Solid	Total BTEX	
880-12957-11	C-60	Total/NA	Solid	Total BTEX	
880-12957-12	C-61	Total/NA	Solid	Total BTEX	
880-12957-13	C-84	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 22514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12957-1	C-3	Total/NA	Solid	8015B NM	22521
880-12957-2	C-5	Total/NA	Solid	8015B NM	22521
880-12957-3	C-4	Total/NA	Solid	8015B NM	22521
880-12957-4	C-86	Total/NA	Solid	8015B NM	22521
880-12957-5	C-87	Total/NA	Solid	8015B NM	22521
880-12957-6	C-88	Total/NA	Solid	8015B NM	22521
880-12957-7	C-64	Total/NA	Solid	8015B NM	22521
880-12957-8	C-66	Total/NA	Solid	8015B NM	22521
880-12957-9	C-59	Total/NA	Solid	8015B NM	22521
880-12957-10	C-85	Total/NA	Solid	8015B NM	22521
880-12957-11	C-60	Total/NA	Solid	8015B NM	22521
880-12957-12	C-61	Total/NA	Solid	8015B NM	22521
880-12957-13	C-84	Total/NA	Solid	8015B NM	22521
MB 880-22521/1-A	Method Blank	Total/NA	Solid	8015B NM	22521
LCS 880-22521/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22521
LCSD 880-22521/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22521
880-12957-1 MS	C-3	Total/NA	Solid	8015B NM	22521
880-12957-1 MSD	C-3	Total/NA	Solid	8015B NM	22521

Prep Batch: 22521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12957-1	C-3	Total/NA	Solid	8015NM Prep	
880-12957-2	C-5	Total/NA	Solid	8015NM Prep	
880-12957-3	C-4	Total/NA	Solid	8015NM Prep	
880-12957-4	C-86	Total/NA	Solid	8015NM Prep	
880-12957-5	C-87	Total/NA	Solid	8015NM Prep	
880-12957-6	C-88	Total/NA	Solid	8015NM Prep	
880-12957-7	C-64	Total/NA	Solid	8015NM Prep	
880-12957-8	C-66	Total/NA	Solid	8015NM Prep	
880-12957-9	C-59	Total/NA	Solid	8015NM Prep	
880-12957-10	C-85	Total/NA	Solid	8015NM Prep	
880-12957-11	C-60	Total/NA	Solid	8015NM Prep	
880-12957-12	C-61	Total/NA	Solid	8015NM Prep	
880-12957-13	C-84	Total/NA	Solid	8015NM Prep	
MB 880-22521/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22521/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-22521/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-12957-1 MS	C-3	Total/NA	Solid	8015NM Prep	
880-12957-1 MSD	C-3	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-12957-1
SDG: 19-0180-07

GC Semi VOA

Analysis Batch: 22625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12957-1	C-3	Total/NA	Solid	8015 NM	
880-12957-2	C-5	Total/NA	Solid	8015 NM	
880-12957-3	C-4	Total/NA	Solid	8015 NM	
880-12957-4	C-86	Total/NA	Solid	8015 NM	
880-12957-5	C-87	Total/NA	Solid	8015 NM	
880-12957-6	C-88	Total/NA	Solid	8015 NM	
880-12957-7	C-64	Total/NA	Solid	8015 NM	
880-12957-8	C-66	Total/NA	Solid	8015 NM	
880-12957-9	C-59	Total/NA	Solid	8015 NM	
880-12957-10	C-85	Total/NA	Solid	8015 NM	
880-12957-11	C-60	Total/NA	Solid	8015 NM	
880-12957-12	C-61	Total/NA	Solid	8015 NM	
880-12957-13	C-84	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 22797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12957-1	C-3	Soluble	Solid	DI Leach	
880-12957-2	C-5	Soluble	Solid	DI Leach	
880-12957-3	C-4	Soluble	Solid	DI Leach	
880-12957-4	C-86	Soluble	Solid	DI Leach	
880-12957-5	C-87	Soluble	Solid	DI Leach	
880-12957-6	C-88	Soluble	Solid	DI Leach	
880-12957-7	C-64	Soluble	Solid	DI Leach	
880-12957-8	C-66	Soluble	Solid	DI Leach	
880-12957-9	C-59	Soluble	Solid	DI Leach	
880-12957-10	C-85	Soluble	Solid	DI Leach	
880-12957-11	C-60	Soluble	Solid	DI Leach	
880-12957-12	C-61	Soluble	Solid	DI Leach	
880-12957-13	C-84	Soluble	Solid	DI Leach	
MB 880-22797/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22797/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22797/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-12957-5 MS	C-87	Soluble	Solid	DI Leach	
880-12957-5 MSD	C-87	Soluble	Solid	DI Leach	

Analysis Batch: 22917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12957-1	C-3	Soluble	Solid	300.0	22797
880-12957-2	C-5	Soluble	Solid	300.0	22797
880-12957-3	C-4	Soluble	Solid	300.0	22797
880-12957-4	C-86	Soluble	Solid	300.0	22797
880-12957-5	C-87	Soluble	Solid	300.0	22797
880-12957-6	C-88	Soluble	Solid	300.0	22797
880-12957-7	C-64	Soluble	Solid	300.0	22797
880-12957-8	C-66	Soluble	Solid	300.0	22797
880-12957-9	C-59	Soluble	Solid	300.0	22797
880-12957-10	C-85	Soluble	Solid	300.0	22797
880-12957-11	C-60	Soluble	Solid	300.0	22797
880-12957-12	C-61	Soluble	Solid	300.0	22797

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-12957-1
SDG: 19-0180-07

HPLC/IC (Continued)

Analysis Batch: 22917 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12957-13	C-84	Soluble	Solid	300.0	22797
MB 880-22797/1-A	Method Blank	Soluble	Solid	300.0	22797
LCS 880-22797/2-A	Lab Control Sample	Soluble	Solid	300.0	22797
LCSD 880-22797/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22797
880-12957-5 MS	C-87	Soluble	Solid	300.0	22797
880-12957-5 MSD	C-87	Soluble	Solid	300.0	22797

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-12957-1
SDG: 19-0180-07

Client Sample ID: C-3
Date Collected: 03/25/22 12:02
Date Received: 03/28/22 13:58

Lab Sample ID: 880-12957-1
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			4.95 g	5 mL	22658	03/31/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22719	03/31/22 15:56	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22830	04/01/22 15:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22625	03/30/22 10:27	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	22521	03/29/22 08:56	AM	XEN MID
Total/NA	Analysis	8015B NM		1			22514	03/29/22 12:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	22797	04/01/22 11:51	CH	XEN MID
Soluble	Analysis	300.0		1			22917	04/06/22 02:04	SC	XEN MID

Client Sample ID: C-5
Date Collected: 03/25/22 10:00
Date Received: 03/28/22 13:58

Lab Sample ID: 880-12957-2
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			5.01 g	5 mL	22658	03/31/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22719	03/31/22 16:17	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22830	04/01/22 15:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22625	03/30/22 10:27	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	22521	03/29/22 08:56	AM	XEN MID
Total/NA	Analysis	8015B NM		1			22514	03/29/22 13:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22797	04/01/22 11:51	CH	XEN MID
Soluble	Analysis	300.0		5			22917	04/06/22 02:13	SC	XEN MID

Client Sample ID: C-4
Date Collected: 03/25/22 10:02
Date Received: 03/28/22 13:58

Lab Sample ID: 880-12957-3
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			5.04 g	5 mL	22658	03/31/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22719	03/31/22 16:38	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22830	04/01/22 15:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22625	03/30/22 10:27	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	22521	03/29/22 08:56	AM	XEN MID
Total/NA	Analysis	8015B NM		1			22514	03/29/22 14:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22797	04/01/22 11:51	CH	XEN MID
Soluble	Analysis	300.0		5			22917	04/06/22 02:22	SC	XEN MID

Client Sample ID: C-86
Date Collected: 03/25/22 10:32
Date Received: 03/28/22 13:58

Lab Sample ID: 880-12957-4
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			5.00 g	5 mL	22658	03/31/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22719	03/31/22 16:59	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22830	04/01/22 15:18	AJ	XEN MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-12957-1
SDG: 19-0180-07

Client Sample ID: C-86
Date Collected: 03/25/22 10:32
Date Received: 03/28/22 13:58

Lab Sample ID: 880-12957-4
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			22625	03/30/22 10:27	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	22521	03/29/22 08:56	AM	XEN MID
Total/NA	Analysis	8015B NM		1			22514	03/29/22 14:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	22797	04/01/22 11:51	CH	XEN MID
Soluble	Analysis	300.0		5			22917	04/06/22 02:31	SC	XEN MID

Client Sample ID: C-87
Date Collected: 03/25/22 10:34
Date Received: 03/28/22 13:58

Lab Sample ID: 880-12957-5
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			5.04 g	5 mL	22658	03/31/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22719	03/31/22 17:20	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22830	04/01/22 15:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22625	03/30/22 10:27	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22521	03/29/22 08:56	AM	XEN MID
Total/NA	Analysis	8015B NM		1			22514	03/29/22 15:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	22797	04/01/22 11:51	CH	XEN MID
Soluble	Analysis	300.0		10			22917	04/06/22 02:39	SC	XEN MID

Client Sample ID: C-88
Date Collected: 03/25/22 10:36
Date Received: 03/28/22 13:58

Lab Sample ID: 880-12957-6
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			5.03 g	5 mL	22658	03/31/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22719	03/31/22 17:40	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22830	04/01/22 15:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22625	03/30/22 10:27	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	22521	03/29/22 08:56	AM	XEN MID
Total/NA	Analysis	8015B NM		1			22514	03/29/22 15:21	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22797	04/01/22 11:51	CH	XEN MID
Soluble	Analysis	300.0		5			22917	04/06/22 03:06	SC	XEN MID

Client Sample ID: C-64
Date Collected: 03/24/22 11:02
Date Received: 03/28/22 13:58

Lab Sample ID: 880-12957-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	22658	03/31/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22719	03/31/22 18:01	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22830	04/01/22 15:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22625	03/30/22 10:27	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	22521	03/29/22 08:56	AM	XEN MID
Total/NA	Analysis	8015B NM		1			22514	03/29/22 15:42	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-12957-1
SDG: 19-0180-07

Client Sample ID: C-64
Date Collected: 03/24/22 11:02
Date Received: 03/28/22 13:58

Lab Sample ID: 880-12957-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	22797	04/01/22 11:51	CH	XEN MID
Soluble	Analysis	300.0		1			22917	04/06/22 03:14	SC	XEN MID

Client Sample ID: C-66
Date Collected: 03/24/22 11:06
Date Received: 03/28/22 13:58

Lab Sample ID: 880-12957-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	22658	03/31/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22719	03/31/22 18:22	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22830	04/01/22 15:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22625	03/30/22 10:27	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22521	03/29/22 08:56	AM	XEN MID
Total/NA	Analysis	8015B NM		1			22514	03/29/22 16:03	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22797	04/01/22 11:51	CH	XEN MID
Soluble	Analysis	300.0		1			22917	04/06/22 19:16	SC	XEN MID

Client Sample ID: C-59
Date Collected: 03/24/22 10:30
Date Received: 03/28/22 13:58

Lab Sample ID: 880-12957-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	22658	03/31/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22719	03/31/22 20:28	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22830	04/01/22 15:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22625	03/30/22 10:27	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22521	03/29/22 08:56	AM	XEN MID
Total/NA	Analysis	8015B NM		1			22514	03/29/22 16:24	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	22797	04/01/22 11:51	CH	XEN MID
Soluble	Analysis	300.0		1			22917	04/06/22 19:25	SC	XEN MID

Client Sample ID: C-85
Date Collected: 03/24/22 10:40
Date Received: 03/28/22 13:58

Lab Sample ID: 880-12957-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	22658	03/31/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22719	03/31/22 20:48	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22830	04/01/22 15:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22625	03/30/22 10:27	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	22521	03/29/22 08:56	AM	XEN MID
Total/NA	Analysis	8015B NM		1			22514	03/29/22 16:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	22797	04/01/22 11:51	CH	XEN MID
Soluble	Analysis	300.0		1			22917	04/06/22 19:34	SC	XEN MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-12957-1
SDG: 19-0180-07

Client Sample ID: C-60
Date Collected: 03/24/22 10:31
Date Received: 03/28/22 13:58

Lab Sample ID: 880-12957-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	22658	03/31/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22719	03/31/22 21:09	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22830	04/01/22 15:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22625	03/30/22 10:27	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	22521	03/29/22 08:56	AM	XEN MID
Total/NA	Analysis	8015B NM		1			22514	03/29/22 17:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	22797	04/01/22 11:51	CH	XEN MID
Soluble	Analysis	300.0		5			22917	04/06/22 19:42	SC	XEN MID

Client Sample ID: C-61
Date Collected: 03/24/22 10:32
Date Received: 03/28/22 13:58

Lab Sample ID: 880-12957-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	22658	03/31/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22719	03/31/22 21:30	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22830	04/01/22 15:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22625	03/30/22 10:27	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	22521	03/29/22 08:56	AM	XEN MID
Total/NA	Analysis	8015B NM		1			22514	03/29/22 17:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	22797	04/01/22 11:51	CH	XEN MID
Soluble	Analysis	300.0		1			22917	04/06/22 19:51	SC	XEN MID

Client Sample ID: C-84
Date Collected: 03/24/22 11:02
Date Received: 03/28/22 13:58

Lab Sample ID: 880-12957-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	22658	03/31/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22719	03/31/22 21:51	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22830	04/01/22 15:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22625	03/30/22 10:27	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	22521	03/29/22 08:56	AM	XEN MID
Total/NA	Analysis	8015B NM		1			22514	03/29/22 18:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22797	04/01/22 11:51	CH	XEN MID
Soluble	Analysis	300.0		1			22917	04/06/22 20:00	SC	XEN MID

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

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-12957-1
Project/Site: Culebra Bluff SE 5 32 SDG: 19-0180-07

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	T104704400-21-22	06-30-22

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

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

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-12957-1
SDG: 19-0180-07

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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:

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

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-12957-1
SDG: 19-0180-07

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-12957-1	C-3	Solid	03/25/22 12:02	03/28/22 13:58
880-12957-2	C-5	Solid	03/25/22 10:00	03/28/22 13:58
880-12957-3	C-4	Solid	03/25/22 10:02	03/28/22 13:58
880-12957-4	C-86	Solid	03/25/22 10:32	03/28/22 13:58
880-12957-5	C-87	Solid	03/25/22 10:34	03/28/22 13:58
880-12957-6	C-88	Solid	03/25/22 10:36	03/28/22 13:58
880-12957-7	C-64	Solid	03/24/22 11:02	03/28/22 13:58
880-12957-8	C-66	Solid	03/24/22 11:06	03/28/22 13:58
880-12957-9	C-59	Solid	03/24/22 10:30	03/28/22 13:58
880-12957-10	C-85	Solid	03/24/22 10:40	03/28/22 13:58
880-12957-11	C-60	Solid	03/24/22 10:31	03/28/22 13:58
880-12957-12	C-61	Solid	03/24/22 10:32	03/28/22 13:58
880-12957-13	C-84	Solid	03/24/22 11:02	03/28/22 13:58

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No. 2512

12957

CHAIN-OF-CUSTODY

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

DATE: 3/28/2022 PAGE 1 OF 1

PO# _____ LAB WORK ORDER#: _____

PROJECT LOCATION OR NAME: Culebra Bluff SE S 32

LAI PROJECT #: 19-0180-07 COLLECTOR: JR

Data Reported to

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State: MST/NM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☒ MTBE ☐	TPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015	DIESEL - MOD 8015	OIL - MOD 8015	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-3		3/25/22	12:02	S	1				X		X		X	X	X													X	
C-5		3/25/22	10:00																										
C-4			10:02																										
C-86			10:32																										
C-87			10:34																										
C-88			10:36																										
C-64		3/24/22	11:02																										
C-66			11:06																										
C-59			10:30																										
C-85		3/24/22	10:40								X		X	X	X													X	
C-60			10:31																										
C-61			10:32																										
C-84			11:02																										

TOTAL

880-12957 Chain of Custody

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
	3/28/22 13:58	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 02.1 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☑ HAND DELIVERED

Received by OCD: 5/8/2024 10:38:54 AM
Released to Imaging: 6/25/2024 3:25:17 PM

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-12957-1
SDG Number: 19-0180-07

Login Number: 12957
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: Mr. Mark J Larson
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland Texas 79701

Generated 11/22/2022 5:42:00 PM

JOB DESCRIPTION

Culebra Bluff SE 5 32
SDG NUMBER 19-0180-07

JOB NUMBER

880-21717-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Released to Imaging: 6/25/2024 3:25:17 PM

my EOL

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Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Qualifiers

GC VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Job ID: 880-21717-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-21717-1

Receipt
The samples were received on 11/17/2022 10:33 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 was -4.1º C.

Receipt Exceptions
The following samples were received and analyzed from a bulk soil jar: C-90, 5.5 (880-21717-1), C-91, 5.5 (880-21717-2), C-92 , 7' (880-21717-3), C-93 , 7' (880-21717-4), C-94 , 7' (880-21717-5), C-95 , 7' (880-21717-6), C-96 , 7' (880-21717-7), C-97 , 7' (880-21717-8), C-98 , 7' (880-21717-9), C-99 , 7' (880-21717-10), C-100 , 7' (880-21717-11), C-101 , 7' (880-21717-12), C-102 , 7' (880-21717-13), C-103 , 7' (880-21717-14), C-104 , 7' (880-21717-15), C-105 , 7' (880-21717-16), C-106 , 7' (880-21717-17), C-107 , 7' (880-21717-18), C-108 , 7' (880-21717-19), C-109 , 7' (880-21717-20), C-110 , 7' (880-21717-21), C-111 , 7' (880-21717-22), C-112 , 7' (880-21717-23), C-113 , 7' (880-21717-24), C-114 , 7' (880-21717-25), C-115 , 7' (880-21717-26), SW-2 , 0-5' (880-21717-27), SW-3 , 0-5' (880-21717-28), SW-4 , 0-7' (880-21717-29), SW-5 , 0-7' (880-21717-30), SW-6 , 0-7' (880-21717-31), SW-7 , 0-5' (880-21717-32) and SW-8 , 0-7' (880-21717-33).

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: C-102 , 7' (880-21717-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-105 , 7' (880-21717-16). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-107 , 7' (880-21717-18). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-111 , 7' (880-21717-22). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-113 , 7' (880-21717-24), C-114 , 7' (880-21717-25), C-115 , 7' (880-21717-26), SW-3 , 0-5' (880-21717-28) and SW-5 , 0-7' (880-21717-30). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-90, 5.5 (880-21717-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-94 , 7' (880-21717-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-39791 and analytical batch 880-39800 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: LCSD biased high. Since only an acceptable LCS is required per the method, the data has been qualified and reported. (LCSD 880-39791/2-A)

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

GC Semi VOA
Method 8015B NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-39882/2-A) and (LCSD 880-39882/3-A). Evidence of matrix interferences is not obvious.

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: (880-21715-A-1-H MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Job ID: 880-21717-1 (Continued)

Laboratory: Eurofins Midland (Continued)

Method 8015B NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-39882 and analytical batch 880-39958 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015B NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-39882 and analytical batch 880-39958 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

General Chemistry
Method 300.0: The matrix spike (MS) recoveries for preparation batch 880-39793, 880-39793 and 880-39793 and analytical batch 880-39855 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

The associated samples are: C-90, 5.5 (880-21717-1), C-91, 5.5 (880-21717-2), C-92 , 7' (880-21717-3), C-93 , 7' (880-21717-4), C-94 , 7' (880-21717-5), C-95 , 7' (880-21717-6), C-96 , 7' (880-21717-7), C-97 , 7' (880-21717-8), C-98 , 7' (880-21717-9), C-99 , 7' (880-21717-10) and (880-21717-A-1-C MS).

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-39796 and 880-39796 and analytical batch 880-39854 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300.0: Spike compounds were inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for preparation batch 880-39795 and analytical batch 880-39857. The associated laboratory control sample (LCS) met acceptance criteria.

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

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

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

Released to Imaging: 6/25/2024 3:25:17 PM

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Client Sample ID: C-90, 5.5

Date Collected: 11/16/22 15:30
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-1

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		11/17/22 11:50	11/17/22 19:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 11:50	11/17/22 19:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 11:50	11/17/22 19:25	1
m,p-Xylenes	<0.00399	U *+	0.00399		mg/Kg		11/17/22 11:50	11/17/22 19:25	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		11/17/22 11:50	11/17/22 19:25	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		11/17/22 11:50	11/17/22 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*11/17/22 11:50*	*11/17/22 19:25*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*11/17/22 11:50*	*11/17/22 19:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/22/22 17:04	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/21/22 10:45	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	<50.0	U	50.0		mg/Kg		11/17/22 13:55	11/18/22 11:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/17/22 13:55	11/18/22 11:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 13:55	11/18/22 11:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*11/17/22 13:55*	*11/18/22 11:07*	*1*
o-Terphenyl (Surr)	*114*		*70 - 130*	*11/17/22 13:55*	*11/18/22 11:07*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1050**	**F1**	25.1		mg/Kg			11/18/22 08:42	5

Client Sample ID: C-91, 5.5

Date Collected: 11/16/22 15:35
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-2

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		11/17/22 11:50	11/17/22 19:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:50	11/17/22 19:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:50	11/17/22 19:51	1
m,p-Xylenes	<0.00398	U *+	0.00398		mg/Kg		11/17/22 11:50	11/17/22 19:51	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		11/17/22 11:50	11/17/22 19:51	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		11/17/22 11:50	11/17/22 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*11/17/22 11:50*	*11/17/22 19:51*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*11/17/22 11:50*	*11/17/22 19:51*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Client Sample ID: C-91, 5.5

Date Collected: 11/16/22 15:35
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-2

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			11/22/22 17:04	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/21/22 10:45	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		11/17/22 13:55	11/18/22 12:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/17/22 13:55	11/18/22 12:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/17/22 13:55	11/18/22 12:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*99*		*70 - 130*	*11/17/22 13:55*	*11/18/22 12:12*	*1*
o-Terphenyl (Surr)	*107*		*70 - 130*	*11/17/22 13:55*	*11/18/22 12:12*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**593**		4.99		mg/Kg			11/18/22 08:59	1

Client Sample ID: C-92 , 7'

Date Collected: 11/16/22 15:40
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/17/22 11:50	11/17/22 21:34	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/17/22 11:50	11/17/22 21:34	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/17/22 11:50	11/17/22 21:34	1
m,p-Xylenes	<0.00402	U *+	0.00402		mg/Kg		11/17/22 11:50	11/17/22 21:34	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		11/17/22 11:50	11/17/22 21:34	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		11/17/22 11:50	11/17/22 21:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*11/17/22 11:50*	*11/17/22 21:34*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*11/17/22 11:50*	*11/17/22 21:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/22/22 17:04	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/21/22 10:45	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		11/17/22 13:55	11/18/22 12:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/17/22 13:55	11/18/22 12:35	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Client Sample ID: C-92 , 7'

Date Collected: 11/16/22 15:40
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/17/22 13:55	11/18/22 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*11/17/22 13:55*	*11/18/22 12:35*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*11/17/22 13:55*	*11/18/22 12:35*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**799**		4.95		mg/Kg			11/18/22 09:05	1

Client Sample ID: C-93 , 7'

Date Collected: 11/16/22 15:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-4

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		11/17/22 11:50	11/17/22 22:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:50	11/17/22 22:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:50	11/17/22 22:00	1
m,p-Xylenes	<0.00398	U *+	0.00398		mg/Kg		11/17/22 11:50	11/17/22 22:00	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		11/17/22 11:50	11/17/22 22:00	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		11/17/22 11:50	11/17/22 22:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*11/17/22 11:50*	*11/17/22 22:00*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*11/17/22 11:50*	*11/17/22 22:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/22/22 17:04	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/21/22 10:45	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	<50.0	U	50.0		mg/Kg		11/17/22 13:55	11/18/22 12:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/17/22 13:55	11/18/22 12:56	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 13:55	11/18/22 12:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*11/17/22 13:55*	*11/18/22 12:56*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*11/17/22 13:55*	*11/18/22 12:56*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**265**		5.03		mg/Kg			11/18/22 09:22	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Client Sample ID: C-94 , 7'

Date Collected: 11/16/22 16:00
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-5

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		11/17/22 11:50	11/17/22 22:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:50	11/17/22 22:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:50	11/17/22 22:26	1
m,p-Xylenes	<0.00398	U *+	0.00398		mg/Kg		11/17/22 11:50	11/17/22 22:26	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		11/17/22 11:50	11/17/22 22:26	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		11/17/22 11:50	11/17/22 22:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*11/17/22 11:50*	*11/17/22 22:26*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*11/17/22 11:50*	*11/17/22 22:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/22/22 17:04	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/21/22 10:45	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	<50.0	U	50.0		mg/Kg		11/17/22 13:55	11/18/22 13:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/17/22 13:55	11/18/22 13:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 13:55	11/18/22 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*107*		*70 - 130*	*11/17/22 13:55*	*11/18/22 13:18*	*1*
o-Terphenyl (Surr)	*118*		*70 - 130*	*11/17/22 13:55*	*11/18/22 13:18*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**361**		5.02		mg/Kg			11/18/22 09:27	1

Client Sample ID: C-95 , 7'

Date Collected: 11/16/22 16:05
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-6

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		11/17/22 11:50	11/17/22 22:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 11:50	11/17/22 22:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 11:50	11/17/22 22:51	1
m,p-Xylenes	<0.00401	U *+	0.00401		mg/Kg		11/17/22 11:50	11/17/22 22:51	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		11/17/22 11:50	11/17/22 22:51	1
Xylenes, Total	<0.00401	U *+	0.00401		mg/Kg		11/17/22 11:50	11/17/22 22:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*11/17/22 11:50*	*11/17/22 22:51*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*11/17/22 11:50*	*11/17/22 22:51*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Client Sample ID: C-95 , 7'

Date Collected: 11/16/22 16:05
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-6

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			11/22/22 17:04	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/21/22 10:45	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	<50.0	U	50.0		mg/Kg		11/17/22 13:55	11/18/22 13:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/17/22 13:55	11/18/22 13:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 13:55	11/18/22 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*11/17/22 13:55*	*11/18/22 13:39*	*1*
o-Terphenyl (Surr)	*115*		*70 - 130*	*11/17/22 13:55*	*11/18/22 13:39*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**200**		4.97		mg/Kg			11/18/22 09:33	1

Client Sample ID: C-96 , 7'

Date Collected: 11/16/22 16:10
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-7

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/17/22 11:50	11/17/22 23:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/17/22 11:50	11/17/22 23:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/17/22 11:50	11/17/22 23:17	1
m,p-Xylenes	<0.00402	U *+	0.00402		mg/Kg		11/17/22 11:50	11/17/22 23:17	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		11/17/22 11:50	11/17/22 23:17	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		11/17/22 11:50	11/17/22 23:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*11/17/22 11:50*	*11/17/22 23:17*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*11/17/22 11:50*	*11/17/22 23:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/22/22 17:04	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/21/22 10:45	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		11/17/22 13:55	11/18/22 14:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/17/22 13:55	11/18/22 14:02	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Client Sample ID: C-96 , 7'

Date Collected: 11/16/22 16:10
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-7

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/17/22 13:55	11/18/22 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*11/17/22 13:55*	*11/18/22 14:02*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*11/17/22 13:55*	*11/18/22 14:02*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**240**		4.96		mg/Kg			11/18/22 09:39	1

Client Sample ID: C-97 , 7'

Date Collected: 11/16/22 16:15
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-8

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/17/22 11:50	11/17/22 23:43	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/17/22 11:50	11/17/22 23:43	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/17/22 11:50	11/17/22 23:43	1
m,p-Xylenes	<0.00403	U *+	0.00403		mg/Kg		11/17/22 11:50	11/17/22 23:43	1
o-Xylene	<0.00202	U *+	0.00202		mg/Kg		11/17/22 11:50	11/17/22 23:43	1
Xylenes, Total	<0.00403	U *+	0.00403		mg/Kg		11/17/22 11:50	11/17/22 23:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*11/17/22 11:50*	*11/17/22 23:43*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*11/17/22 11:50*	*11/17/22 23:43*	*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			11/22/22 17:04	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/21/22 10:45	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	<50.0	U	50.0		mg/Kg		11/17/22 13:55	11/18/22 14:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/17/22 13:55	11/18/22 14:24	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 13:55	11/18/22 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*99*		*70 - 130*	*11/17/22 13:55*	*11/18/22 14:24*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*11/17/22 13:55*	*11/18/22 14:24*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**238**		5.00		mg/Kg			11/18/22 09:44	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Client Sample ID: C-98 , 7'

Date Collected: 11/16/22 16:20
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-9

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/17/22 11:50	11/18/22 00:09	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/17/22 11:50	11/18/22 00:09	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/17/22 11:50	11/18/22 00:09	1
m,p-Xylenes	<0.00402	U *+	0.00402		mg/Kg		11/17/22 11:50	11/18/22 00:09	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		11/17/22 11:50	11/18/22 00:09	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		11/17/22 11:50	11/18/22 00:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*11/17/22 11:50*	*11/18/22 00:09*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*11/17/22 11:50*	*11/18/22 00:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/22/22 17:04	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/21/22 10:45	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		11/17/22 13:55	11/18/22 14:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/17/22 13:55	11/18/22 14:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/17/22 13:55	11/18/22 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*111*		*70 - 130*	*11/17/22 13:55*	*11/18/22 14:46*	*1*
o-Terphenyl (Surr)	*116*		*70 - 130*	*11/17/22 13:55*	*11/18/22 14:46*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**250**		4.96		mg/Kg			11/18/22 09:50	1

Client Sample ID: C-99 , 7'

Date Collected: 11/16/22 16:25
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-10

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/17/22 11:50	11/18/22 00:35	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/17/22 11:50	11/18/22 00:35	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/17/22 11:50	11/18/22 00:35	1
m,p-Xylenes	<0.00404	U *+	0.00404		mg/Kg		11/17/22 11:50	11/18/22 00:35	1
o-Xylene	<0.00202	U *+	0.00202		mg/Kg		11/17/22 11:50	11/18/22 00:35	1
Xylenes, Total	<0.00404	U *+	0.00404		mg/Kg		11/17/22 11:50	11/18/22 00:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*11/17/22 11:50*	*11/18/22 00:35*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*11/17/22 11:50*	*11/18/22 00:35*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Client Sample ID: C-99 , 7'

Date Collected: 11/16/22 16:25
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-10

Matrix: Solid

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			11/22/22 17:04	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/21/22 10:45	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		11/17/22 13:55	11/18/22 15:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/17/22 13:55	11/18/22 15:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/17/22 13:55	11/18/22 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*11/17/22 13:55*	*11/18/22 15:07*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*11/17/22 13:55*	*11/18/22 15:07*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**504**		4.98		mg/Kg			11/18/22 09:56	1

Client Sample ID: C-100 , 7'

Date Collected: 11/16/22 16:30
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-11

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		11/17/22 11:50	11/18/22 01:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:50	11/18/22 01:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:50	11/18/22 01:01	1
m,p-Xylenes	<0.00398	U *+	0.00398		mg/Kg		11/17/22 11:50	11/18/22 01:01	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		11/17/22 11:50	11/18/22 01:01	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		11/17/22 11:50	11/18/22 01:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*11/17/22 11:50*	*11/18/22 01:01*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*11/17/22 11:50*	*11/18/22 01:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/22/22 17:04	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/21/22 10:45	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	<50.0	U	50.0		mg/Kg		11/17/22 13:55	11/18/22 15:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/17/22 13:55	11/18/22 15:51	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Client Sample ID: C-100 , 7'

Lab Sample ID: 880-21717-11
Matrix: Solid
Date Collected: 11/16/22 16:30
Date Received: 11/17/22 10:33

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 13:55	11/18/22 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*11/17/22 13:55*	*11/18/22 15:51*	*1*
o-Terphenyl (Surr)	*118*		*70 - 130*	*11/17/22 13:55*	*11/18/22 15:51*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**596**		4.97		mg/Kg			11/18/22 20:47	1

Client Sample ID: C-101 , 7'

Lab Sample ID: 880-21717-12
Matrix: Solid
Date Collected: 11/16/22 16:35
Date Received: 11/17/22 10:33

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:50	11/18/22 01:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:50	11/18/22 01:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:50	11/18/22 01:26	1
m,p-Xylenes	<0.00398	U *+	0.00398		mg/Kg		11/17/22 11:50	11/18/22 01:26	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		11/17/22 11:50	11/18/22 01:26	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		11/17/22 11:50	11/18/22 01:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*11/17/22 11:50*	*11/18/22 01:26*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*11/17/22 11:50*	*11/18/22 01:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/22/22 17:04	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/21/22 10:45	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	<50.0	U	50.0		mg/Kg		11/17/22 13:55	11/18/22 16:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/17/22 13:55	11/18/22 16:13	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 13:55	11/18/22 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*107*		*70 - 130*	*11/17/22 13:55*	*11/18/22 16:13*	*1*
o-Terphenyl (Surr)	*114*		*70 - 130*	*11/17/22 13:55*	*11/18/22 16:13*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**382**		4.96		mg/Kg			11/18/22 21:04	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Client Sample ID: C-102 , 7'

Date Collected: 11/16/22 16:40
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-13

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/17/22 11:56	11/18/22 11:45	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/17/22 11:56	11/18/22 11:45	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/17/22 11:56	11/18/22 11:45	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		11/17/22 11:56	11/18/22 11:45	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/17/22 11:56	11/18/22 11:45	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/17/22 11:56	11/18/22 11:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*11/17/22 11:56*	*11/18/22 11:45*	*1*
1,4-Difluorobenzene (Surr)	*63*	*S1-*	*70 - 130*	*11/17/22 11:56*	*11/18/22 11:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/18/22 14:30	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			11/21/22 10:45	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	<50.0	U	50.0		mg/Kg		11/17/22 13:55	11/18/22 16:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/17/22 13:55	11/18/22 16:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 13:55	11/18/22 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*114*		*70 - 130*	*11/17/22 13:55*	*11/18/22 16:35*	*1*
o-Terphenyl (Surr)	*123*		*70 - 130*	*11/17/22 13:55*	*11/18/22 16:35*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**280**		25.0		mg/Kg			11/18/22 21:10	5

Client Sample ID: C-103 , 7'

Date Collected: 11/16/22 16:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-14

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		11/17/22 11:56	11/18/22 12:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:56	11/18/22 12:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:56	11/18/22 12:06	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/17/22 11:56	11/18/22 12:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:56	11/18/22 12:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 11:56	11/18/22 12:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*11/17/22 11:56*	*11/18/22 12:06*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*11/17/22 11:56*	*11/18/22 12:06*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Client Sample ID: C-103 , 7'

Date Collected: 11/16/22 16:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-14

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			11/18/22 14:30	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/21/22 10:45	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		11/17/22 13:55	11/18/22 16:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/17/22 13:55	11/18/22 16:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/17/22 13:55	11/18/22 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*113*		*70 - 130*	*11/17/22 13:55*	*11/18/22 16:57*	*1*
o-Terphenyl (Surr)	*120*		*70 - 130*	*11/17/22 13:55*	*11/18/22 16:57*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**692**		5.03		mg/Kg			11/18/22 21:15	1

Client Sample ID: C-104 , 7'

Date Collected: 11/16/22 16:50
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-15

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		11/17/22 11:56	11/18/22 12:26	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/17/22 11:56	11/18/22 12:26	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/17/22 11:56	11/18/22 12:26	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		11/17/22 11:56	11/18/22 12:26	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/17/22 11:56	11/18/22 12:26	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/17/22 11:56	11/18/22 12:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*11/17/22 11:56*	*11/18/22 12:26*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*11/17/22 11:56*	*11/18/22 12:26*	*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			11/18/22 14:30	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/21/22 10:45	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		11/17/22 13:55	11/18/22 17:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/17/22 13:55	11/18/22 17:18	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Client Sample ID: C-104 , 7'

Date Collected: 11/16/22 16:50
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-15

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/17/22 13:55	11/18/22 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*11/17/22 13:55*	*11/18/22 17:18*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*11/17/22 13:55*	*11/18/22 17:18*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**998**		25.3		mg/Kg			11/18/22 21:21	5

Client Sample ID: C-105 , 7'

Date Collected: 11/16/22 08:30
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-16

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		11/17/22 11:56	11/18/22 12:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 11:56	11/18/22 12:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 11:56	11/18/22 12:47	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		11/17/22 11:56	11/18/22 12:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 11:56	11/18/22 12:47	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/17/22 11:56	11/18/22 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*	*11/17/22 11:56*	*11/18/22 12:47*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*11/17/22 11:56*	*11/18/22 12:47*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/18/22 14:30	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/21/22 10:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/17/22 13:55	11/18/22 17:41	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/17/22 13:55	11/18/22 17:41	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/17/22 13:55	11/18/22 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*11/17/22 13:55*	*11/18/22 17:41*	*1*
o-Terphenyl (Surr)	*118*		*70 - 130*	*11/17/22 13:55*	*11/18/22 17:41*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**393**		5.02		mg/Kg			11/18/22 21:38	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Client Sample ID: C-106 , 7'

Date Collected: 11/16/22 08:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-17
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/17/22 11:56	11/18/22 13:08	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/17/22 11:56	11/18/22 13:08	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/17/22 11:56	11/18/22 13:08	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		11/17/22 11:56	11/18/22 13:08	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/17/22 11:56	11/18/22 13:08	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/17/22 11:56	11/18/22 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*11/17/22 11:56*	*11/18/22 13:08*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*11/17/22 11:56*	*11/18/22 13:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/18/22 14:30	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			11/21/22 10:45	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	<50.0	U	50.0		mg/Kg		11/17/22 13:55	11/18/22 18:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/17/22 13:55	11/18/22 18:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 13:55	11/18/22 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*116*		*70 - 130*	*11/17/22 13:55*	*11/18/22 18:02*	*1*
o-Terphenyl (Surr)	*127*		*70 - 130*	*11/17/22 13:55*	*11/18/22 18:02*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**263**		4.98		mg/Kg			11/18/22 21:44	1

Client Sample ID: C-107 , 7'

Date Collected: 11/16/22 09:00
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-18
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		11/17/22 11:56	11/18/22 13:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:56	11/18/22 13:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:56	11/18/22 13:28	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/17/22 11:56	11/18/22 13:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:56	11/18/22 13:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 11:56	11/18/22 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*11/17/22 11:56*	*11/18/22 13:28*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*11/17/22 11:56*	*11/18/22 13:28*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Client Sample ID: C-107 , 7'

Date Collected: 11/16/22 09:00
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-18
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			11/18/22 14:30	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/21/22 10:45	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		11/17/22 13:55	11/18/22 18:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/17/22 13:55	11/18/22 18:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/17/22 13:55	11/18/22 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*121*		*70 - 130*	*11/17/22 13:55*	*11/18/22 18:23*	*1*
o-Terphenyl (Surr)	*130*		*70 - 130*	*11/17/22 13:55*	*11/18/22 18:23*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**987**		24.9		mg/Kg			11/18/22 21:49	5

Client Sample ID: C-108 , 7'

Date Collected: 11/16/22 09:15
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-19
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		11/17/22 11:56	11/18/22 13:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:56	11/18/22 13:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:56	11/18/22 13:49	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/17/22 11:56	11/18/22 13:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:56	11/18/22 13:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 11:56	11/18/22 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*11/17/22 11:56*	*11/18/22 13:49*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*11/17/22 11:56*	*11/18/22 13:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/18/22 14:30	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/21/22 10:45	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		11/17/22 13:55	11/18/22 18:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/17/22 13:55	11/18/22 18:45	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Client Sample ID: C-108 , 7'

Date Collected: 11/16/22 09:15
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-19

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/17/22 13:55	11/18/22 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*102*		*70 - 130*	*11/17/22 13:55*	*11/18/22 18:45*	*1*
o-Terphenyl (Surr)	*114*		*70 - 130*	*11/17/22 13:55*	*11/18/22 18:45*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1070**		25.1		mg/Kg			11/18/22 21:55	5

Client Sample ID: C-109 , 7'

Date Collected: 11/16/22 09:30
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-20

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/17/22 11:56	11/18/22 15:10	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/17/22 11:56	11/18/22 15:10	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/17/22 11:56	11/18/22 15:10	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		11/17/22 11:56	11/18/22 15:10	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/17/22 11:56	11/18/22 15:10	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/17/22 11:56	11/18/22 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*11/17/22 11:56*	*11/18/22 15:10*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*11/17/22 11:56*	*11/18/22 15:10*	*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			11/18/22 16:28	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			11/21/22 10:45	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		11/17/22 13:55	11/18/22 19:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/17/22 13:55	11/18/22 19:07	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/17/22 13:55	11/18/22 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*96*		*70 - 130*	*11/17/22 13:55*	*11/18/22 19:07*	*1*
o-Terphenyl (Surr)	*104*		*70 - 130*	*11/17/22 13:55*	*11/18/22 19:07*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1090**		24.9		mg/Kg			11/18/22 22:01	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Client Sample ID: C-110 , 7'

Date Collected: 11/16/22 09:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-21

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		11/17/22 11:56	11/18/22 15:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 11:56	11/18/22 15:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 11:56	11/18/22 15:31	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		11/17/22 11:56	11/18/22 15:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 11:56	11/18/22 15:31	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/17/22 11:56	11/18/22 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*11/17/22 11:56*	*11/18/22 15:31*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*11/17/22 11:56*	*11/18/22 15:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/18/22 16:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/21/22 11:18	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		11/18/22 07:28	11/19/22 14:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/18/22 07:28	11/19/22 14:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/18/22 07:28	11/19/22 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*11/18/22 07:28*	*11/19/22 14:14*	*1*
o-Terphenyl (Surr)	*110*		*70 - 130*	*11/18/22 07:28*	*11/19/22 14:14*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1070**	**F1**	25.2		mg/Kg			11/18/22 22:06	5

Client Sample ID: C-111 , 7'

Date Collected: 11/16/22 10:00
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-22

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		11/17/22 11:56	11/18/22 15:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:56	11/18/22 15:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:56	11/18/22 15:51	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/17/22 11:56	11/18/22 15:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:56	11/18/22 15:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 11:56	11/18/22 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*	*11/17/22 11:56*	*11/18/22 15:51*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*11/17/22 11:56*	*11/18/22 15:51*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Client Sample ID: C-111 , 7'

Date Collected: 11/16/22 10:00
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-22

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			11/18/22 16:28	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			11/21/22 11:18	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		11/18/22 07:28	11/19/22 14:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/18/22 07:28	11/19/22 14:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/18/22 07:28	11/19/22 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*82*		*70 - 130*	*11/18/22 07:28*	*11/19/22 14:36*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*11/18/22 07:28*	*11/19/22 14:36*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1050**		25.1		mg/Kg			11/18/22 22:23	5

Client Sample ID: C-112 , 7'

Date Collected: 11/16/22 10:15
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-23

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		11/17/22 11:56	11/18/22 17:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 11:56	11/18/22 17:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 11:56	11/18/22 17:15	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		11/17/22 11:56	11/18/22 17:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 11:56	11/18/22 17:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/17/22 11:56	11/18/22 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*11/17/22 11:56*	*11/18/22 17:15*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*11/17/22 11:56*	*11/18/22 17:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			11/21/22 14:45	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			11/21/22 11:18	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		11/18/22 07:28	11/19/22 14:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/18/22 07:28	11/19/22 14:58	1

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Client Sample ID: C-112 , 7'

Lab Sample ID: 880-21717-23
Matrix: Solid
Date Collected: 11/16/22 10:15
Date Received: 11/17/22 10:33

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/18/22 07:28	11/19/22 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*86*		*70 - 130*	*11/18/22 07:28*	*11/19/22 14:58*	*1*
o-Terphenyl (Surr)	*97*		*70 - 130*	*11/18/22 07:28*	*11/19/22 14:58*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**407**		5.04		mg/Kg			11/18/22 22:29	1

Client Sample ID: C-113 , 7'

Lab Sample ID: 880-21717-24
Matrix: Solid
Date Collected: 11/16/22 10:30
Date Received: 11/17/22 10:33

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/17/22 11:56	11/18/22 17:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 11:56	11/18/22 17:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 11:56	11/18/22 17:35	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		11/17/22 11:56	11/18/22 17:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 11:56	11/18/22 17:35	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/17/22 11:56	11/18/22 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*11/17/22 11:56*	*11/18/22 17:35*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*11/17/22 11:56*	*11/18/22 17:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/21/22 14:45	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			11/21/22 11:18	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		11/18/22 07:28	11/19/22 15:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/18/22 07:28	11/19/22 15:20	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/18/22 07:28	11/19/22 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*11/18/22 07:28*	*11/19/22 15:20*	*1*
o-Terphenyl (Surr)	*114*		*70 - 130*	*11/18/22 07:28*	*11/19/22 15:20*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**406**		4.97		mg/Kg			11/18/22 22:46	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Client Sample ID: C-114 , 7'

Date Collected: 11/16/22 10:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-25
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/17/22 11:56	11/18/22 17:56	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/17/22 11:56	11/18/22 17:56	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/17/22 11:56	11/18/22 17:56	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		11/17/22 11:56	11/18/22 17:56	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/17/22 11:56	11/18/22 17:56	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/17/22 11:56	11/18/22 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*146*	*S1+*	*70 - 130*	*11/17/22 11:56*	*11/18/22 17:56*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*11/17/22 11:56*	*11/18/22 17:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/21/22 14:45	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			11/21/22 11:18	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		11/18/22 07:28	11/19/22 15:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/18/22 07:28	11/19/22 15:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/18/22 07:28	11/19/22 15:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*11/18/22 07:28*	*11/19/22 15:42*	*1*
o-Terphenyl (Surr)	*121*		*70 - 130*	*11/18/22 07:28*	*11/19/22 15:42*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1310**		25.3		mg/Kg			11/18/22 22:52	5

Client Sample ID: C-115 , 7'

Date Collected: 11/16/22 11:00
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-26
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		11/17/22 11:56	11/18/22 18:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:56	11/18/22 18:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:56	11/18/22 18:16	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/17/22 11:56	11/18/22 18:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:56	11/18/22 18:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 11:56	11/18/22 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*	*11/17/22 11:56*	*11/18/22 18:16*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*11/17/22 11:56*	*11/18/22 18:16*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Client Sample ID: C-115 , 7'

Date Collected: 11/16/22 11:00
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-26
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			11/21/22 14:45	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			11/21/22 11:18	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		11/18/22 07:28	11/19/22 16:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/18/22 07:28	11/19/22 16:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/18/22 07:28	11/19/22 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*87*		*70 - 130*	*11/18/22 07:28*	*11/19/22 16:26*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*11/18/22 07:28*	*11/19/22 16:26*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**959**		25.2		mg/Kg			11/18/22 22:57	5

Client Sample ID: SW-2 , 0-5'

Date Collected: 11/16/22 11:15
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-27
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/17/22 11:56	11/18/22 18:37	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/17/22 11:56	11/18/22 18:37	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/17/22 11:56	11/18/22 18:37	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		11/17/22 11:56	11/18/22 18:37	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/17/22 11:56	11/18/22 18:37	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/17/22 11:56	11/18/22 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*11/17/22 11:56*	*11/18/22 18:37*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*11/17/22 11:56*	*11/18/22 18:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/21/22 14:45	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			11/21/22 11:18	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		11/18/22 07:28	11/19/22 16:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/18/22 07:28	11/19/22 16:48	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Client Sample ID: SW-2 , 0-5'

Lab Sample ID: 880-21717-27
Matrix: Solid
Date Collected: 11/16/22 11:15
Date Received: 11/17/22 10:33

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/18/22 07:28	11/19/22 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*92*		*70 - 130*	*11/18/22 07:28*	*11/19/22 16:48*	*1*
o-Terphenyl (Surr)	*104*		*70 - 130*	*11/18/22 07:28*	*11/19/22 16:48*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**629**		4.99		mg/Kg			11/18/22 23:03	1

Client Sample ID: SW-3 , 0-5'

Lab Sample ID: 880-21717-28
Matrix: Solid
Date Collected: 11/16/22 11:30
Date Received: 11/17/22 10:33

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:56	11/18/22 18:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:56	11/18/22 18:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:56	11/18/22 18:58	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/17/22 11:56	11/18/22 18:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:56	11/18/22 18:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 11:56	11/18/22 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*40*	*S1-*	*70 - 130*	*11/17/22 11:56*	*11/18/22 18:58*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*11/17/22 11:56*	*11/18/22 18:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/21/22 14:45	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			11/21/22 11:18	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		11/18/22 07:28	11/19/22 17:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/18/22 07:28	11/19/22 17:09	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/18/22 07:28	11/19/22 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*92*		*70 - 130*	*11/18/22 07:28*	*11/19/22 17:09*	*1*
o-Terphenyl (Surr)	*105*		*70 - 130*	*11/18/22 07:28*	*11/19/22 17:09*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1150**		25.0		mg/Kg			11/18/22 23:08	5

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Client Sample ID: SW-4 , 0-7'

Lab Sample ID: 880-21717-29
Matrix: Solid
Date Collected: 11/16/22 11:45
Date Received: 11/17/22 10:33

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/17/22 11:56	11/18/22 19:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 11:56	11/18/22 19:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 11:56	11/18/22 19:18	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		11/17/22 11:56	11/18/22 19:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 11:56	11/18/22 19:18	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/17/22 11:56	11/18/22 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*11/17/22 11:56*	*11/18/22 19:18*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*11/17/22 11:56*	*11/18/22 19:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/21/22 14:45	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			11/21/22 11:18	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		11/18/22 07:28	11/19/22 17:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/18/22 07:28	11/19/22 17:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/18/22 07:28	11/19/22 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*96*		*70 - 130*	*11/18/22 07:28*	*11/19/22 17:31*	*1*
o-Terphenyl (Surr)	*105*		*70 - 130*	*11/18/22 07:28*	*11/19/22 17:31*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**633**		24.9		mg/Kg			11/18/22 23:14	5

Client Sample ID: SW-5 , 0-7'

Lab Sample ID: 880-21717-30
Matrix: Solid
Date Collected: 11/16/22 12:00
Date Received: 11/17/22 10:33

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:56	11/18/22 19:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:56	11/18/22 19:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:56	11/18/22 19:39	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/17/22 11:56	11/18/22 19:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:56	11/18/22 19:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 11:56	11/18/22 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*70 - 130*	*11/17/22 11:56*	*11/18/22 19:39*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*11/17/22 11:56*	*11/18/22 19:39*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Client Sample ID: SW-5 , 0-7'

Date Collected: 11/16/22 12:00
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-30
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			11/21/22 14:45	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			11/21/22 11:18	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		11/18/22 07:28	11/19/22 17:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/18/22 07:28	11/19/22 17:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/18/22 07:28	11/19/22 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*11/18/22 07:28*	*11/19/22 17:53*	*1*
o-Terphenyl (Surr)	*121*		*70 - 130*	*11/18/22 07:28*	*11/19/22 17:53*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1870		24.8		mg/Kg			11/18/22 23:20	5

Client Sample ID: SW-6 , 0-7'

Date Collected: 11/16/22 12:15
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-31
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		11/17/22 11:56	11/18/22 20:00	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/17/22 11:56	11/18/22 20:00	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/17/22 11:56	11/18/22 20:00	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		11/17/22 11:56	11/18/22 20:00	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/17/22 11:56	11/18/22 20:00	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/17/22 11:56	11/18/22 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*11/17/22 11:56*	*11/18/22 20:00*	*1*
1,4-Difluorobenzene (Surr)	*71*		*70 - 130*	*11/17/22 11:56*	*11/18/22 20:00*	*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			11/21/22 14:45	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			11/21/22 11:18	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		11/18/22 07:28	11/19/22 18:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/18/22 07:28	11/19/22 18:14	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Client Sample ID: SW-6 , 0-7'

Lab Sample ID: 880-21717-31
Matrix: Solid
Date Collected: 11/16/22 12:15
Date Received: 11/17/22 10:33

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/18/22 07:28	11/19/22 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*86*		*70 - 130*	*11/18/22 07:28*	*11/19/22 18:14*	*1*
o-Terphenyl (Surr)	*100*		*70 - 130*	*11/18/22 07:28*	*11/19/22 18:14*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2270**	**F1**	25.3		mg/Kg			11/18/22 08:14	5

Client Sample ID: SW-7 , 0-5'

Lab Sample ID: 880-21717-32
Matrix: Solid
Date Collected: 11/16/22 12:30
Date Received: 11/17/22 10:33

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00209**		0.00199		mg/Kg		11/17/22 11:56	11/18/22 20:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:56	11/18/22 20:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:56	11/18/22 20:20	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/17/22 11:56	11/18/22 20:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 11:56	11/18/22 20:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/17/22 11:56	11/18/22 20:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*11/17/22 11:56*	*11/18/22 20:20*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*11/17/22 11:56*	*11/18/22 20:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/21/22 14:45	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			11/21/22 11:18	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		11/18/22 07:28	11/19/22 18:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/18/22 07:28	11/19/22 18:36	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/18/22 07:28	11/19/22 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*107*		*70 - 130*	*11/18/22 07:28*	*11/19/22 18:36*	*1*
o-Terphenyl (Surr)	*120*		*70 - 130*	*11/18/22 07:28*	*11/19/22 18:36*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7050**		50.0		mg/Kg			11/18/22 08:36	10

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Client Sample ID: SW-8 , 0-7'

Date Collected: 11/16/22 12:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-33

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		11/17/22 12:32	11/17/22 19:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:32	11/17/22 19:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:32	11/17/22 19:32	1
m,p-Xylenes	**0.00939**		0.00398		mg/Kg		11/17/22 12:32	11/17/22 19:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/17/22 12:32	11/17/22 19:32	1
Xylenes, Total	**0.00939**		0.00398		mg/Kg		11/17/22 12:32	11/17/22 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*11/17/22 12:32*	*11/17/22 19:32*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*11/17/22 12:32*	*11/17/22 19:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00939**		0.00398		mg/Kg			11/18/22 12:11	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			11/21/22 11:18	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		11/18/22 07:28	11/19/22 18:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/18/22 07:28	11/19/22 18:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/18/22 07:28	11/19/22 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*96*		*70 - 130*	*11/18/22 07:28*	*11/19/22 18:57*	*1*
o-Terphenyl (Surr)	*113*		*70 - 130*	*11/18/22 07:28*	*11/19/22 18:57*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1130**		25.0		mg/Kg			11/18/22 08:43	5

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

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)
880-21717-1	C-90, 5.5	139 S1+	100
880-21717-2	C-91, 5.5	130	99
880-21717-3	C-92 , 7'	116	111
880-21717-4	C-93 , 7'	112	90
880-21717-5	C-94 , 7'	133 S1+	93
880-21717-6	C-95 , 7'	119	91
880-21717-7	C-96 , 7'	95	74
880-21717-8	C-97 , 7'	101	82
880-21717-9	C-98 , 7'	129	91
880-21717-10	C-99 , 7'	120	97
880-21717-11	C-100 , 7'	128	92
880-21717-12	C-101 , 7'	107	78
880-21717-13	C-102 , 7'	111	63 S1-
880-21717-13 MS	C-102 , 7'	92	103
880-21717-13 MSD	C-102 , 7'	92	99
880-21717-14	C-103 , 7'	124	77
880-21717-15	C-104 , 7'	116	105
880-21717-16	C-105 , 7'	134 S1+	106
880-21717-17	C-106 , 7'	114	73
880-21717-18	C-107 , 7'	133 S1+	93
880-21717-19	C-108 , 7'	125	106
880-21717-20	C-109 , 7'	127	104
880-21717-21	C-110 , 7'	123	108
880-21717-22	C-111 , 7'	137 S1+	95
880-21717-23	C-112 , 7'	127	96
880-21717-24	C-113 , 7'	132 S1+	100
880-21717-25	C-114 , 7'	146 S1+	103
880-21717-26	C-115 , 7'	137 S1+	97
880-21717-27	SW-2 , 0-5'	121	80
880-21717-28	SW-3 , 0-5'	40 S1-	81
880-21717-29	SW-4 , 0-7'	98	73
880-21717-30	SW-5 , 0-7'	135 S1+	100
880-21717-31	SW-6 , 0-7'	80	71
880-21717-32	SW-7 , 0-5'	114	82
880-21717-33	SW-8 , 0-7'	130	103
LCS 880-39775/1-A	Lab Control Sample	91	102
LCS 880-39791/1-A	Lab Control Sample	93	84
LCS 880-39794/1-A	Lab Control Sample	85	102
LCSD 880-39775/2-A	Lab Control Sample Dup	96	100
LCSD 880-39791/2-A	Lab Control Sample Dup	129	100
LCSD 880-39794/2-A	Lab Control Sample Dup	83	94
MB 880-39775/5-A	Method Blank	100	93
MB 880-39791/5-A	Method Blank	75	84
MB 880-39794/5-A	Method Blank	98	93

Surrogate Legend

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

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-21717-1
Project/Site: Culebra Bluff SE 5 32 SDG: 19-0180-07

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)
880-21717-1	C-90, 5.5	103	114
880-21717-1 MS	C-90, 5.5	91	89
880-21717-1 MSD	C-90, 5.5	92	88
880-21717-2	C-91, 5.5	99	107
880-21717-3	C-92 , 7'	103	111
880-21717-4	C-93 , 7'	100	109
880-21717-5	C-94 , 7'	107	118
880-21717-6	C-95 , 7'	106	115
880-21717-7	C-96 , 7'	101	111
880-21717-8	C-97 , 7'	99	108
880-21717-9	C-98 , 7'	111	116
880-21717-10	C-99 , 7'	101	109
880-21717-11	C-100 , 7'	110	118
880-21717-12	C-101 , 7'	107	114
880-21717-13	C-102 , 7'	114	123
880-21717-14	C-103 , 7'	113	120
880-21717-15	C-104 , 7'	95	102
880-21717-16	C-105 , 7'	110	118
880-21717-17	C-106 , 7'	116	127
880-21717-18	C-107 , 7'	121	130
880-21717-19	C-108 , 7'	102	114
880-21717-20	C-109 , 7'	96	104
880-21717-21	C-110 , 7'	95	110
880-21717-22	C-111 , 7'	82	95
880-21717-23	C-112 , 7'	86	97
880-21717-24	C-113 , 7'	101	114
880-21717-25	C-114 , 7'	106	121
880-21717-26	C-115 , 7'	87	102
880-21717-27	SW-2 , 0-5'	92	104
880-21717-28	SW-3 , 0-5'	92	105
880-21717-29	SW-4 , 0-7'	96	105
880-21717-30	SW-5 , 0-7'	110	121
880-21717-31	SW-6 , 0-7'	86	100
880-21717-32	SW-7 , 0-5'	107	120
880-21717-33	SW-8 , 0-7'	96	113
LCS 880-39822/2-A	Lab Control Sample	92	100
LCS 880-39882/2-A	Lab Control Sample	198 S1+	226 S1+
LCSD 880-39822/3-A	Lab Control Sample Dup	95	105
LCSD 880-39882/3-A	Lab Control Sample Dup	214 S1+	241 S1+
MB 880-39822/1-A	Method Blank	111	121
MB 880-39882/1-A	Method Blank	95	111

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-39775/5-A
Matrix: Solid
Analysis Batch: 39773

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39775

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/17/22 08:47	11/17/22 10:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 08:47	11/17/22 10:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 08:47	11/17/22 10:50	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		11/17/22 08:47	11/17/22 10:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 08:47	11/17/22 10:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/17/22 08:47	11/17/22 10:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*11/17/22 08:47*	*11/17/22 10:50*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*11/17/22 08:47*	*11/17/22 10:50*	*1*

Lab Sample ID: LCS 880-39775/1-A
Matrix: Solid
Analysis Batch: 39773

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39775

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1041		mg/Kg		104	70 - 130		
Toluene			0.100	0.1020		mg/Kg		102	70 - 130		
Ethylbenzene			0.100	0.1003		mg/Kg		100	70 - 130		
m,p-Xylenes			0.200	0.1916		mg/Kg		96	70 - 130		
o-Xylene			0.100	0.1072		mg/Kg		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-39775/2-A
Matrix: Solid
Analysis Batch: 39773

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39775

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1051		mg/Kg		105	70 - 130	1	35
Toluene			0.100	0.1032		mg/Kg		103	70 - 130	1	35
Ethylbenzene			0.100	0.1047		mg/Kg		105	70 - 130	4	35
m,p-Xylenes			0.200	0.2055		mg/Kg		103	70 - 130	7	35
o-Xylene			0.100	0.1157		mg/Kg		116	70 - 130	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: MB 880-39791/5-A
Matrix: Solid
Analysis Batch: 39800

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39791

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/17/22 11:50	11/17/22 15:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 11:50	11/17/22 15:36	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

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

Lab Sample ID: MB 880-39791/5-A
Matrix: Solid
Analysis Batch: 39800

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39791

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 11:50	11/17/22 15:36	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		11/17/22 11:50	11/17/22 15:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 11:50	11/17/22 15:36	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/17/22 11:50	11/17/22 15:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*75*		*70 - 130*	*11/17/22 11:50*	*11/17/22 15:36*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*11/17/22 11:50*	*11/17/22 15:36*	*1*

Lab Sample ID: LCS 880-39791/1-A
Matrix: Solid
Analysis Batch: 39800

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39791

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08587		mg/Kg		86	70 - 130
Toluene	0.100	0.09423		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.09375		mg/Kg		94	70 - 130
m,p-Xylenes	0.200	0.2050		mg/Kg		103	70 - 130
o-Xylene	0.100	0.09953		mg/Kg		100	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*

Lab Sample ID: LCSD 880-39791/2-A
Matrix: Solid
Analysis Batch: 39800

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39791

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1161		mg/Kg		116	70 - 130	30	35
Toluene	0.100	0.1140		mg/Kg		114	70 - 130	19	35
Ethylbenzene	0.100	0.1201		mg/Kg		120	70 - 130	25	35
m,p-Xylenes	0.200	0.2670	*+	mg/Kg		134	70 - 130	26	35
o-Xylene	0.100	0.1373	*+	mg/Kg		137	70 - 130	32	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: MB 880-39794/5-A
Matrix: Solid
Analysis Batch: 39827

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39794

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/17/22 11:56	11/18/22 11:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/17/22 11:56	11/18/22 11:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/17/22 11:56	11/18/22 11:23	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		11/17/22 11:56	11/18/22 11:23	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

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

Lab Sample ID: MB 880-39794/5-A
Matrix: Solid
Analysis Batch: 39827

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39794

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/17/22 11:56	11/18/22 11:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/17/22 11:56	11/18/22 11:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*11/17/22 11:56*	*11/18/22 11:23*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*11/17/22 11:56*	*11/18/22 11:23*	*1*

Lab Sample ID: LCS 880-39794/1-A
Matrix: Solid
Analysis Batch: 39827

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39794

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1022		mg/Kg		102	70 - 130		
Toluene			0.100	0.09930		mg/Kg		99	70 - 130		
Ethylbenzene			0.100	0.09436		mg/Kg		94	70 - 130		
m,p-Xylenes			0.200	0.1779		mg/Kg		89	70 - 130		
o-Xylene			0.100	0.09994		mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-39794/2-A
Matrix: Solid
Analysis Batch: 39827

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39794

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09626		mg/Kg		96	70 - 130	6	35
Toluene			0.100	0.09499		mg/Kg		95	70 - 130	4	35
Ethylbenzene			0.100	0.09171		mg/Kg		92	70 - 130	3	35
m,p-Xylenes			0.200	0.1751		mg/Kg		88	70 - 130	2	35
o-Xylene			0.100	0.09903		mg/Kg		99	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 880-21717-13 MS
Matrix: Solid
Analysis Batch: 39827

Client Sample ID: C-102 , 7'
Prep Type: Total/NA
Prep Batch: 39794

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U	0.0996	0.08795		mg/Kg		87	70 - 130		
Toluene	<0.00201	U	0.0996	0.08098		mg/Kg		81	70 - 130		
Ethylbenzene	<0.00201	U	0.0996	0.07301		mg/Kg		72	70 - 130		
m,p-Xylenes	<0.00402	U	0.199	0.1431		mg/Kg		72	70 - 130		
o-Xylene	<0.00201	U	0.0996	0.08260		mg/Kg		83	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

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

Lab Sample ID: 880-21717-13 MS
Matrix: Solid
Analysis Batch: 39827

Client Sample ID: C-102 , 7'
Prep Type: Total/NA
Prep Batch: 39794

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 880-21717-13 MSD
Matrix: Solid
Analysis Batch: 39827

Client Sample ID: C-102 , 7'
Prep Type: Total/NA
Prep Batch: 39794

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0994	0.08319		mg/Kg		83	70 - 130	6	35
Toluene	<0.00201	U	0.0994	0.07644		mg/Kg		77	70 - 130	6	35
Ethylbenzene	<0.00201	U	0.0994	0.07213		mg/Kg		72	70 - 130	1	35
m,p-Xylenes	<0.00402	U	0.199	0.1391		mg/Kg		70	70 - 130	3	35
o-Xylene	<0.00201	U	0.0994	0.07813		mg/Kg		79	70 - 130	6	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

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

Lab Sample ID: MB 880-39822/1-A
Matrix: Solid
Analysis Batch: 39876

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39822

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/17/22 13:55	11/18/22 08:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/17/22 13:55	11/18/22 08:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/17/22 13:55	11/18/22 08:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	*111*		*70 - 130*	*11/17/22 13:55*	*11/18/22 08:33*	*1*
o-Terphenyl (Surr)	*121*		*70 - 130*	*11/17/22 13:55*	*11/18/22 08:33*	*1*

Lab Sample ID: LCS 880-39822/2-A
Matrix: Solid
Analysis Batch: 39876

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39822

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	907.4		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	997.6		mg/Kg		100	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	*92*		*70 - 130*
o-Terphenyl (Surr)	*100*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

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

Lab Sample ID: LCSD 880-39822/3-A
Matrix: Solid
Analysis Batch: 39876

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39822

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	937.8		mg/Kg		94	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1078		mg/Kg		108	70 - 130	8	20

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

Lab Sample ID: 880-21717-1 MS
Matrix: Solid
Analysis Batch: 39876

Client Sample ID: C-90, 5.5
Prep Type: Total/NA
Prep Batch: 39822

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	990.7		mg/Kg		99	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1022		mg/Kg		98	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*91*		*70 - 130*
o-Terphenyl (Surr)	*89*		*70 - 130*

Lab Sample ID: 880-21717-1 MSD
Matrix: Solid
Analysis Batch: 39876

Client Sample ID: C-90, 5.5
Prep Type: Total/NA
Prep Batch: 39822

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	1019		mg/Kg		102	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1032		mg/Kg		99	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*92*		*70 - 130*
o-Terphenyl (Surr)	*88*		*70 - 130*

Lab Sample ID: MB 880-39882/1-A
Matrix: Solid
Analysis Batch: 39958

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39882

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/18/22 07:28	11/19/22 09:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/18/22 07:28	11/19/22 09:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/18/22 07:28	11/19/22 09:07	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

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

Lab Sample ID: MB 880-39882/1-A
Matrix: Solid
Analysis Batch: 39958

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39882

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130	11/18/22 07:28	11/19/22 09:07	1
o-Terphenyl (Surr)	111		70 - 130	11/18/22 07:28	11/19/22 09:07	1

Lab Sample ID: LCS 880-39882/2-A
Matrix: Solid
Analysis Batch: 39958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39882

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	874.4		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1088		mg/Kg		109	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	198	S1+	70 - 130
o-Terphenyl (Surr)	226	S1+	70 - 130

Lab Sample ID: LCSD 880-39882/3-A
Matrix: Solid
Analysis Batch: 39958

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39882

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1134	*1	mg/Kg		113	70 - 130	26	20
Diesel Range Organics (Over C10-C28)	1000	1280		mg/Kg		128	70 - 130	16	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	214	S1+	70 - 130
o-Terphenyl (Surr)	241	S1+	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-39796/1-A
Matrix: Solid
Analysis Batch: 39854

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			11/18/22 07:53	1

Lab Sample ID: LCS 880-39796/2-A
Matrix: Solid
Analysis Batch: 39854

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	263.9		mg/Kg		106	90 - 110

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-39796/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 39854

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	259.3		mg/Kg		104	90 - 110	2	20

Lab Sample ID: 880-21717-31 MS — **Client Sample ID: SW-6 , 0-7'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 39854

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	2270	F1	1260	3833	F1	mg/Kg		124	90 - 110		

Lab Sample ID: 880-21717-31 MSD — **Client Sample ID: SW-6 , 0-7'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 39854

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2270	F1	1260	3723	F1	mg/Kg		115	90 - 110	3	20

Lab Sample ID: MB 880-39793/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 39855

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			11/18/22 07:06	1

Lab Sample ID: LCS 880-39793/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 39855

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	259.2		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-39793/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 39855

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	259.7		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-21717-1 MS — **Client Sample ID: C-90, 5.5**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 39855

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1050	F1	1250	2433	F1	mg/Kg		111	90 - 110		

Lab Sample ID: 880-21717-1 MSD — **Client Sample ID: C-90, 5.5**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 39855

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1050	F1	1250	2428		mg/Kg		110	90 - 110	0	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-39795/1-A
Matrix: Solid
Analysis Batch: 39857

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			11/18/22 20:30	1

Lab Sample ID: LCS 880-39795/2-A
Matrix: Solid
Analysis Batch: 39857

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	260.2		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-39795/3-A
Matrix: Solid
Analysis Batch: 39857

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	257.7		mg/Kg		103	90 - 110	1	20

Lab Sample ID: 880-21717-11 MS
Matrix: Solid
Analysis Batch: 39857

Client Sample ID: C-100 , 7'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	596		249	838.9		mg/Kg		98	90 - 110		

Lab Sample ID: 880-21717-11 MSD
Matrix: Solid
Analysis Batch: 39857

Client Sample ID: C-100 , 7'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	596		249	842.6		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-21717-21 MS
Matrix: Solid
Analysis Batch: 39857

Client Sample ID: C-110 , 7'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1070	F1	1260	1156	F1	mg/Kg		7	90 - 110		

Lab Sample ID: 880-21717-21 MSD
Matrix: Solid
Analysis Batch: 39857

Client Sample ID: C-110 , 7'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1070	F1	1260	1142	F1	mg/Kg		6	90 - 110	1	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

GC VOA

Analysis Batch: 39773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21717-33	SW-8 , 0-7'	Total/NA	Solid	8021B	39775
MB 880-39775/5-A	Method Blank	Total/NA	Solid	8021B	39775
LCS 880-39775/1-A	Lab Control Sample	Total/NA	Solid	8021B	39775
LCSD 880-39775/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39775

Prep Batch: 39775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21717-33	SW-8 , 0-7'	Total/NA	Solid	5035	
MB 880-39775/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39775/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39775/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 39791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21717-1	C-90, 5.5	Total/NA	Solid	5035	
880-21717-2	C-91, 5.5	Total/NA	Solid	5035	
880-21717-3	C-92 , 7'	Total/NA	Solid	5035	
880-21717-4	C-93 , 7'	Total/NA	Solid	5035	
880-21717-5	C-94 , 7'	Total/NA	Solid	5035	
880-21717-6	C-95 , 7'	Total/NA	Solid	5035	
880-21717-7	C-96 , 7'	Total/NA	Solid	5035	
880-21717-8	C-97 , 7'	Total/NA	Solid	5035	
880-21717-9	C-98 , 7'	Total/NA	Solid	5035	
880-21717-10	C-99 , 7'	Total/NA	Solid	5035	
880-21717-11	C-100 , 7'	Total/NA	Solid	5035	
880-21717-12	C-101 , 7'	Total/NA	Solid	5035	
MB 880-39791/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39791/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39791/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 39794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21717-13	C-102 , 7'	Total/NA	Solid	5035	
880-21717-14	C-103 , 7'	Total/NA	Solid	5035	
880-21717-15	C-104 , 7'	Total/NA	Solid	5035	
880-21717-16	C-105 , 7'	Total/NA	Solid	5035	
880-21717-17	C-106 , 7'	Total/NA	Solid	5035	
880-21717-18	C-107 , 7'	Total/NA	Solid	5035	
880-21717-19	C-108 , 7'	Total/NA	Solid	5035	
880-21717-20	C-109 , 7'	Total/NA	Solid	5035	
880-21717-21	C-110 , 7'	Total/NA	Solid	5035	
880-21717-22	C-111 , 7'	Total/NA	Solid	5035	
880-21717-23	C-112 , 7'	Total/NA	Solid	5035	
880-21717-24	C-113 , 7'	Total/NA	Solid	5035	
880-21717-25	C-114 , 7'	Total/NA	Solid	5035	
880-21717-26	C-115 , 7'	Total/NA	Solid	5035	
880-21717-27	SW-2 , 0-5'	Total/NA	Solid	5035	
880-21717-28	SW-3 , 0-5'	Total/NA	Solid	5035	
880-21717-29	SW-4 , 0-7'	Total/NA	Solid	5035	
880-21717-30	SW-5 , 0-7'	Total/NA	Solid	5035	
880-21717-31	SW-6 , 0-7'	Total/NA	Solid	5035	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

GC VOA (Continued)

Prep Batch: 39794 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21717-32	SW-7 , 0-5'	Total/NA	Solid	5035	
MB 880-39794/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39794/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39794/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-21717-13 MS	C-102 , 7'	Total/NA	Solid	5035	
880-21717-13 MSD	C-102 , 7'	Total/NA	Solid	5035	

Analysis Batch: 39800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21717-1	C-90, 5.5	Total/NA	Solid	8021B	39791
880-21717-2	C-91, 5.5	Total/NA	Solid	8021B	39791
880-21717-3	C-92 , 7'	Total/NA	Solid	8021B	39791
880-21717-4	C-93 , 7'	Total/NA	Solid	8021B	39791
880-21717-5	C-94 , 7'	Total/NA	Solid	8021B	39791
880-21717-6	C-95 , 7'	Total/NA	Solid	8021B	39791
880-21717-7	C-96 , 7'	Total/NA	Solid	8021B	39791
880-21717-8	C-97 , 7'	Total/NA	Solid	8021B	39791
880-21717-9	C-98 , 7'	Total/NA	Solid	8021B	39791
880-21717-10	C-99 , 7'	Total/NA	Solid	8021B	39791
880-21717-11	C-100 , 7'	Total/NA	Solid	8021B	39791
880-21717-12	C-101 , 7'	Total/NA	Solid	8021B	39791
MB 880-39791/5-A	Method Blank	Total/NA	Solid	8021B	39791
LCS 880-39791/1-A	Lab Control Sample	Total/NA	Solid	8021B	39791
LCSD 880-39791/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39791

Analysis Batch: 39827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21717-13	C-102 , 7'	Total/NA	Solid	8021B	39794
880-21717-14	C-103 , 7'	Total/NA	Solid	8021B	39794
880-21717-15	C-104 , 7'	Total/NA	Solid	8021B	39794
880-21717-16	C-105 , 7'	Total/NA	Solid	8021B	39794
880-21717-17	C-106 , 7'	Total/NA	Solid	8021B	39794
880-21717-18	C-107 , 7'	Total/NA	Solid	8021B	39794
880-21717-19	C-108 , 7'	Total/NA	Solid	8021B	39794
880-21717-20	C-109 , 7'	Total/NA	Solid	8021B	39794
880-21717-21	C-110 , 7'	Total/NA	Solid	8021B	39794
880-21717-22	C-111 , 7'	Total/NA	Solid	8021B	39794
880-21717-23	C-112 , 7'	Total/NA	Solid	8021B	39794
880-21717-24	C-113 , 7'	Total/NA	Solid	8021B	39794
880-21717-25	C-114 , 7'	Total/NA	Solid	8021B	39794
880-21717-26	C-115 , 7'	Total/NA	Solid	8021B	39794
880-21717-27	SW-2 , 0-5'	Total/NA	Solid	8021B	39794
880-21717-28	SW-3 , 0-5'	Total/NA	Solid	8021B	39794
880-21717-29	SW-4 , 0-7'	Total/NA	Solid	8021B	39794
880-21717-30	SW-5 , 0-7'	Total/NA	Solid	8021B	39794
880-21717-31	SW-6 , 0-7'	Total/NA	Solid	8021B	39794
880-21717-32	SW-7 , 0-5'	Total/NA	Solid	8021B	39794
MB 880-39794/5-A	Method Blank	Total/NA	Solid	8021B	39794
LCS 880-39794/1-A	Lab Control Sample	Total/NA	Solid	8021B	39794
LCSD 880-39794/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39794
880-21717-13 MS	C-102 , 7'	Total/NA	Solid	8021B	39794

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

GC VOA (Continued)

Analysis Batch: 39827 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21717-13 MSD	C-102 , 7'	Total/NA	Solid	8021B	39794

Analysis Batch: 39921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21717-1	C-90, 5.5	Total/NA	Solid	Total BTEX	
880-21717-2	C-91, 5.5	Total/NA	Solid	Total BTEX	
880-21717-3	C-92 , 7'	Total/NA	Solid	Total BTEX	
880-21717-4	C-93 , 7'	Total/NA	Solid	Total BTEX	
880-21717-5	C-94 , 7'	Total/NA	Solid	Total BTEX	
880-21717-6	C-95 , 7'	Total/NA	Solid	Total BTEX	
880-21717-7	C-96 , 7'	Total/NA	Solid	Total BTEX	
880-21717-8	C-97 , 7'	Total/NA	Solid	Total BTEX	
880-21717-9	C-98 , 7'	Total/NA	Solid	Total BTEX	
880-21717-10	C-99 , 7'	Total/NA	Solid	Total BTEX	
880-21717-11	C-100 , 7'	Total/NA	Solid	Total BTEX	
880-21717-12	C-101 , 7'	Total/NA	Solid	Total BTEX	
880-21717-13	C-102 , 7'	Total/NA	Solid	Total BTEX	
880-21717-14	C-103 , 7'	Total/NA	Solid	Total BTEX	
880-21717-15	C-104 , 7'	Total/NA	Solid	Total BTEX	
880-21717-16	C-105 , 7'	Total/NA	Solid	Total BTEX	
880-21717-17	C-106 , 7'	Total/NA	Solid	Total BTEX	
880-21717-18	C-107 , 7'	Total/NA	Solid	Total BTEX	
880-21717-19	C-108 , 7'	Total/NA	Solid	Total BTEX	
880-21717-20	C-109 , 7'	Total/NA	Solid	Total BTEX	
880-21717-21	C-110 , 7'	Total/NA	Solid	Total BTEX	
880-21717-22	C-111 , 7'	Total/NA	Solid	Total BTEX	
880-21717-23	C-112 , 7'	Total/NA	Solid	Total BTEX	
880-21717-24	C-113 , 7'	Total/NA	Solid	Total BTEX	
880-21717-25	C-114 , 7'	Total/NA	Solid	Total BTEX	
880-21717-26	C-115 , 7'	Total/NA	Solid	Total BTEX	
880-21717-27	SW-2 , 0-5'	Total/NA	Solid	Total BTEX	
880-21717-28	SW-3 , 0-5'	Total/NA	Solid	Total BTEX	
880-21717-29	SW-4 , 0-7'	Total/NA	Solid	Total BTEX	
880-21717-30	SW-5 , 0-7'	Total/NA	Solid	Total BTEX	
880-21717-31	SW-6 , 0-7'	Total/NA	Solid	Total BTEX	
880-21717-32	SW-7 , 0-5'	Total/NA	Solid	Total BTEX	
880-21717-33	SW-8 , 0-7'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 39822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21717-1	C-90, 5.5	Total/NA	Solid	8015NM Prep	
880-21717-2	C-91, 5.5	Total/NA	Solid	8015NM Prep	
880-21717-3	C-92 , 7'	Total/NA	Solid	8015NM Prep	
880-21717-4	C-93 , 7'	Total/NA	Solid	8015NM Prep	
880-21717-5	C-94 , 7'	Total/NA	Solid	8015NM Prep	
880-21717-6	C-95 , 7'	Total/NA	Solid	8015NM Prep	
880-21717-7	C-96 , 7'	Total/NA	Solid	8015NM Prep	
880-21717-8	C-97 , 7'	Total/NA	Solid	8015NM Prep	
880-21717-9	C-98 , 7'	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

GC Semi VOA (Continued)

Prep Batch: 39822 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21717-10	C-99 , 7'	Total/NA	Solid	8015NM Prep	
880-21717-11	C-100 , 7'	Total/NA	Solid	8015NM Prep	
880-21717-12	C-101 , 7'	Total/NA	Solid	8015NM Prep	
880-21717-13	C-102 , 7'	Total/NA	Solid	8015NM Prep	
880-21717-14	C-103 , 7'	Total/NA	Solid	8015NM Prep	
880-21717-15	C-104 , 7'	Total/NA	Solid	8015NM Prep	
880-21717-16	C-105 , 7'	Total/NA	Solid	8015NM Prep	
880-21717-17	C-106 , 7'	Total/NA	Solid	8015NM Prep	
880-21717-18	C-107 , 7'	Total/NA	Solid	8015NM Prep	
880-21717-19	C-108 , 7'	Total/NA	Solid	8015NM Prep	
880-21717-20	C-109 , 7'	Total/NA	Solid	8015NM Prep	
MB 880-39822/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-39822/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-39822/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-21717-1 MS	C-90, 5.5	Total/NA	Solid	8015NM Prep	
880-21717-1 MSD	C-90, 5.5	Total/NA	Solid	8015NM Prep	

Analysis Batch: 39876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21717-1	C-90, 5.5	Total/NA	Solid	8015B NM	39822
880-21717-2	C-91, 5.5	Total/NA	Solid	8015B NM	39822
880-21717-3	C-92 , 7'	Total/NA	Solid	8015B NM	39822
880-21717-4	C-93 , 7'	Total/NA	Solid	8015B NM	39822
880-21717-5	C-94 , 7'	Total/NA	Solid	8015B NM	39822
880-21717-6	C-95 , 7'	Total/NA	Solid	8015B NM	39822
880-21717-7	C-96 , 7'	Total/NA	Solid	8015B NM	39822
880-21717-8	C-97 , 7'	Total/NA	Solid	8015B NM	39822
880-21717-9	C-98 , 7'	Total/NA	Solid	8015B NM	39822
880-21717-10	C-99 , 7'	Total/NA	Solid	8015B NM	39822
880-21717-11	C-100 , 7'	Total/NA	Solid	8015B NM	39822
880-21717-12	C-101 , 7'	Total/NA	Solid	8015B NM	39822
880-21717-13	C-102 , 7'	Total/NA	Solid	8015B NM	39822
880-21717-14	C-103 , 7'	Total/NA	Solid	8015B NM	39822
880-21717-15	C-104 , 7'	Total/NA	Solid	8015B NM	39822
880-21717-16	C-105 , 7'	Total/NA	Solid	8015B NM	39822
880-21717-17	C-106 , 7'	Total/NA	Solid	8015B NM	39822
880-21717-18	C-107 , 7'	Total/NA	Solid	8015B NM	39822
880-21717-19	C-108 , 7'	Total/NA	Solid	8015B NM	39822
880-21717-20	C-109 , 7'	Total/NA	Solid	8015B NM	39822
MB 880-39822/1-A	Method Blank	Total/NA	Solid	8015B NM	39822
LCS 880-39822/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	39822
LCSD 880-39822/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39822
880-21717-1 MS	C-90, 5.5	Total/NA	Solid	8015B NM	39822
880-21717-1 MSD	C-90, 5.5	Total/NA	Solid	8015B NM	39822

Prep Batch: 39882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21717-21	C-110 , 7'	Total/NA	Solid	8015NM Prep	
880-21717-22	C-111 , 7'	Total/NA	Solid	8015NM Prep	
880-21717-23	C-112 , 7'	Total/NA	Solid	8015NM Prep	
880-21717-24	C-113 , 7'	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

GC Semi VOA (Continued)

Prep Batch: 39882 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21717-25	C-114 , 7'	Total/NA	Solid	8015NM Prep	
880-21717-26	C-115 , 7'	Total/NA	Solid	8015NM Prep	
880-21717-27	SW-2 , 0-5'	Total/NA	Solid	8015NM Prep	
880-21717-28	SW-3 , 0-5'	Total/NA	Solid	8015NM Prep	
880-21717-29	SW-4 , 0-7'	Total/NA	Solid	8015NM Prep	
880-21717-30	SW-5 , 0-7'	Total/NA	Solid	8015NM Prep	
880-21717-31	SW-6 , 0-7'	Total/NA	Solid	8015NM Prep	
880-21717-32	SW-7 , 0-5'	Total/NA	Solid	8015NM Prep	
880-21717-33	SW-8 , 0-7'	Total/NA	Solid	8015NM Prep	
MB 880-39882/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-39882/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-39882/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 39958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21717-21	C-110 , 7'	Total/NA	Solid	8015B NM	39882
880-21717-22	C-111 , 7'	Total/NA	Solid	8015B NM	39882
880-21717-23	C-112 , 7'	Total/NA	Solid	8015B NM	39882
880-21717-24	C-113 , 7'	Total/NA	Solid	8015B NM	39882
880-21717-25	C-114 , 7'	Total/NA	Solid	8015B NM	39882
880-21717-26	C-115 , 7'	Total/NA	Solid	8015B NM	39882
880-21717-27	SW-2 , 0-5'	Total/NA	Solid	8015B NM	39882
880-21717-28	SW-3 , 0-5'	Total/NA	Solid	8015B NM	39882
880-21717-29	SW-4 , 0-7'	Total/NA	Solid	8015B NM	39882
880-21717-30	SW-5 , 0-7'	Total/NA	Solid	8015B NM	39882
880-21717-31	SW-6 , 0-7'	Total/NA	Solid	8015B NM	39882
880-21717-32	SW-7 , 0-5'	Total/NA	Solid	8015B NM	39882
880-21717-33	SW-8 , 0-7'	Total/NA	Solid	8015B NM	39882
MB 880-39882/1-A	Method Blank	Total/NA	Solid	8015B NM	39882
LCS 880-39882/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	39882
LCSD 880-39882/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39882

Analysis Batch: 40090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21717-1	C-90, 5.5	Total/NA	Solid	8015 NM	
880-21717-2	C-91, 5.5	Total/NA	Solid	8015 NM	
880-21717-3	C-92 , 7'	Total/NA	Solid	8015 NM	
880-21717-4	C-93 , 7'	Total/NA	Solid	8015 NM	
880-21717-5	C-94 , 7'	Total/NA	Solid	8015 NM	
880-21717-6	C-95 , 7'	Total/NA	Solid	8015 NM	
880-21717-7	C-96 , 7'	Total/NA	Solid	8015 NM	
880-21717-8	C-97 , 7'	Total/NA	Solid	8015 NM	
880-21717-9	C-98 , 7'	Total/NA	Solid	8015 NM	
880-21717-10	C-99 , 7'	Total/NA	Solid	8015 NM	
880-21717-11	C-100 , 7'	Total/NA	Solid	8015 NM	
880-21717-12	C-101 , 7'	Total/NA	Solid	8015 NM	
880-21717-13	C-102 , 7'	Total/NA	Solid	8015 NM	
880-21717-14	C-103 , 7'	Total/NA	Solid	8015 NM	
880-21717-15	C-104 , 7'	Total/NA	Solid	8015 NM	
880-21717-16	C-105 , 7'	Total/NA	Solid	8015 NM	
880-21717-17	C-106 , 7'	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

GC Semi VOA (Continued)

Analysis Batch: 40090 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21717-18	C-107 , 7'	Total/NA	Solid	8015 NM	
880-21717-19	C-108 , 7'	Total/NA	Solid	8015 NM	
880-21717-20	C-109 , 7'	Total/NA	Solid	8015 NM	
880-21717-21	C-110 , 7'	Total/NA	Solid	8015 NM	
880-21717-22	C-111 , 7'	Total/NA	Solid	8015 NM	
880-21717-23	C-112 , 7'	Total/NA	Solid	8015 NM	
880-21717-24	C-113 , 7'	Total/NA	Solid	8015 NM	
880-21717-25	C-114 , 7'	Total/NA	Solid	8015 NM	
880-21717-26	C-115 , 7'	Total/NA	Solid	8015 NM	
880-21717-27	SW-2 , 0-5'	Total/NA	Solid	8015 NM	
880-21717-28	SW-3 , 0-5'	Total/NA	Solid	8015 NM	
880-21717-29	SW-4 , 0-7'	Total/NA	Solid	8015 NM	
880-21717-30	SW-5 , 0-7'	Total/NA	Solid	8015 NM	
880-21717-31	SW-6 , 0-7'	Total/NA	Solid	8015 NM	
880-21717-32	SW-7 , 0-5'	Total/NA	Solid	8015 NM	
880-21717-33	SW-8 , 0-7'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 39793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21717-1	C-90, 5.5	Soluble	Solid	DI Leach	
880-21717-2	C-91, 5.5	Soluble	Solid	DI Leach	
880-21717-3	C-92 , 7'	Soluble	Solid	DI Leach	
880-21717-4	C-93 , 7'	Soluble	Solid	DI Leach	
880-21717-5	C-94 , 7'	Soluble	Solid	DI Leach	
880-21717-6	C-95 , 7'	Soluble	Solid	DI Leach	
880-21717-7	C-96 , 7'	Soluble	Solid	DI Leach	
880-21717-8	C-97 , 7'	Soluble	Solid	DI Leach	
880-21717-9	C-98 , 7'	Soluble	Solid	DI Leach	
880-21717-10	C-99 , 7'	Soluble	Solid	DI Leach	
MB 880-39793/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-39793/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-39793/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-21717-1 MS	C-90, 5.5	Soluble	Solid	DI Leach	
880-21717-1 MSD	C-90, 5.5	Soluble	Solid	DI Leach	

Leach Batch: 39795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21717-11	C-100 , 7'	Soluble	Solid	DI Leach	
880-21717-12	C-101 , 7'	Soluble	Solid	DI Leach	
880-21717-13	C-102 , 7'	Soluble	Solid	DI Leach	
880-21717-14	C-103 , 7'	Soluble	Solid	DI Leach	
880-21717-15	C-104 , 7'	Soluble	Solid	DI Leach	
880-21717-16	C-105 , 7'	Soluble	Solid	DI Leach	
880-21717-17	C-106 , 7'	Soluble	Solid	DI Leach	
880-21717-18	C-107 , 7'	Soluble	Solid	DI Leach	
880-21717-19	C-108 , 7'	Soluble	Solid	DI Leach	
880-21717-20	C-109 , 7'	Soluble	Solid	DI Leach	
880-21717-21	C-110 , 7'	Soluble	Solid	DI Leach	
880-21717-22	C-111 , 7'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

HPLC/IC (Continued)

Leach Batch: 39795 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21717-23	C-112 , 7'	Soluble	Solid	DI Leach	
880-21717-24	C-113 , 7'	Soluble	Solid	DI Leach	
880-21717-25	C-114 , 7'	Soluble	Solid	DI Leach	
880-21717-26	C-115 , 7'	Soluble	Solid	DI Leach	
880-21717-27	SW-2 , 0-5'	Soluble	Solid	DI Leach	
880-21717-28	SW-3 , 0-5'	Soluble	Solid	DI Leach	
880-21717-29	SW-4 , 0-7'	Soluble	Solid	DI Leach	
880-21717-30	SW-5 , 0-7'	Soluble	Solid	DI Leach	
MB 880-39795/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-39795/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-39795/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-21717-11 MS	C-100 , 7'	Soluble	Solid	DI Leach	
880-21717-11 MSD	C-100 , 7'	Soluble	Solid	DI Leach	
880-21717-21 MS	C-110 , 7'	Soluble	Solid	DI Leach	
880-21717-21 MSD	C-110 , 7'	Soluble	Solid	DI Leach	

Leach Batch: 39796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21717-31	SW-6 , 0-7'	Soluble	Solid	DI Leach	
880-21717-32	SW-7 , 0-5'	Soluble	Solid	DI Leach	
880-21717-33	SW-8 , 0-7'	Soluble	Solid	DI Leach	
MB 880-39796/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-39796/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-39796/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-21717-31 MS	SW-6 , 0-7'	Soluble	Solid	DI Leach	
880-21717-31 MSD	SW-6 , 0-7'	Soluble	Solid	DI Leach	

Analysis Batch: 39854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21717-31	SW-6 , 0-7'	Soluble	Solid	300.0	39796
880-21717-32	SW-7 , 0-5'	Soluble	Solid	300.0	39796
880-21717-33	SW-8 , 0-7'	Soluble	Solid	300.0	39796
MB 880-39796/1-A	Method Blank	Soluble	Solid	300.0	39796
LCS 880-39796/2-A	Lab Control Sample	Soluble	Solid	300.0	39796
LCSD 880-39796/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	39796
880-21717-31 MS	SW-6 , 0-7'	Soluble	Solid	300.0	39796
880-21717-31 MSD	SW-6 , 0-7'	Soluble	Solid	300.0	39796

Analysis Batch: 39855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21717-1	C-90, 5.5	Soluble	Solid	300.0	39793
880-21717-2	C-91, 5.5	Soluble	Solid	300.0	39793
880-21717-3	C-92 , 7'	Soluble	Solid	300.0	39793
880-21717-4	C-93 , 7'	Soluble	Solid	300.0	39793
880-21717-5	C-94 , 7'	Soluble	Solid	300.0	39793
880-21717-6	C-95 , 7'	Soluble	Solid	300.0	39793
880-21717-7	C-96 , 7'	Soluble	Solid	300.0	39793
880-21717-8	C-97 , 7'	Soluble	Solid	300.0	39793
880-21717-9	C-98 , 7'	Soluble	Solid	300.0	39793
880-21717-10	C-99 , 7'	Soluble	Solid	300.0	39793
MB 880-39793/1-A	Method Blank	Soluble	Solid	300.0	39793

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

HPLC/IC (Continued)

Analysis Batch: 39855 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-39793/2-A	Lab Control Sample	Soluble	Solid	300.0	39793
LCSD 880-39793/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	39793
880-21717-1 MS	C-90, 5.5	Soluble	Solid	300.0	39793
880-21717-1 MSD	C-90, 5.5	Soluble	Solid	300.0	39793

Analysis Batch: 39857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21717-11	C-100 , 7'	Soluble	Solid	300.0	39795
880-21717-12	C-101 , 7'	Soluble	Solid	300.0	39795
880-21717-13	C-102 , 7'	Soluble	Solid	300.0	39795
880-21717-14	C-103 , 7'	Soluble	Solid	300.0	39795
880-21717-15	C-104 , 7'	Soluble	Solid	300.0	39795
880-21717-16	C-105 , 7'	Soluble	Solid	300.0	39795
880-21717-17	C-106 , 7'	Soluble	Solid	300.0	39795
880-21717-18	C-107 , 7'	Soluble	Solid	300.0	39795
880-21717-19	C-108 , 7'	Soluble	Solid	300.0	39795
880-21717-20	C-109 , 7'	Soluble	Solid	300.0	39795
880-21717-21	C-110 , 7'	Soluble	Solid	300.0	39795
880-21717-22	C-111 , 7'	Soluble	Solid	300.0	39795
880-21717-23	C-112 , 7'	Soluble	Solid	300.0	39795
880-21717-24	C-113 , 7'	Soluble	Solid	300.0	39795
880-21717-25	C-114 , 7'	Soluble	Solid	300.0	39795
880-21717-26	C-115 , 7'	Soluble	Solid	300.0	39795
880-21717-27	SW-2 , 0-5'	Soluble	Solid	300.0	39795
880-21717-28	SW-3 , 0-5'	Soluble	Solid	300.0	39795
880-21717-29	SW-4 , 0-7'	Soluble	Solid	300.0	39795
880-21717-30	SW-5 , 0-7'	Soluble	Solid	300.0	39795
MB 880-39795/1-A	Method Blank	Soluble	Solid	300.0	39795
LCS 880-39795/2-A	Lab Control Sample	Soluble	Solid	300.0	39795
LCSD 880-39795/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	39795
880-21717-11 MS	C-100 , 7'	Soluble	Solid	300.0	39795
880-21717-11 MSD	C-100 , 7'	Soluble	Solid	300.0	39795
880-21717-21 MS	C-110 , 7'	Soluble	Solid	300.0	39795
880-21717-21 MSD	C-110 , 7'	Soluble	Solid	300.0	39795

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Client Sample ID: C-90, 5.5
Date Collected: 11/16/22 15:30
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-1
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	39791	11/17/22 11:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39800	11/17/22 19:25	SM	EET MID
Total/NA	Analysis	Total BTEX		1			39921	11/22/22 17:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			40090	11/21/22 10:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39822	11/17/22 13:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39876	11/18/22 11:07	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	39793	11/17/22 11:56	KS	EET MID
Soluble	Analysis	300.0		5			39855	11/18/22 08:42	SMC	EET MID

Client Sample ID: C-91, 5.5
Date Collected: 11/16/22 15:35
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39791	11/17/22 11:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39800	11/17/22 19:51	SM	EET MID
Total/NA	Analysis	Total BTEX		1			39921	11/22/22 17:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			40090	11/21/22 10:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39822	11/17/22 13:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39876	11/18/22 12:12	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	39793	11/17/22 11:56	KS	EET MID
Soluble	Analysis	300.0		1			39855	11/18/22 08:59	SMC	EET MID

Client Sample ID: C-92 , 7'
Date Collected: 11/16/22 15:40
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	39791	11/17/22 11:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39800	11/17/22 21:34	SM	EET MID
Total/NA	Analysis	Total BTEX		1			39921	11/22/22 17:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			40090	11/21/22 10:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39822	11/17/22 13:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39876	11/18/22 12:35	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	39793	11/17/22 11:56	KS	EET MID
Soluble	Analysis	300.0		1			39855	11/18/22 09:05	SMC	EET MID

Client Sample ID: C-93 , 7'
Date Collected: 11/16/22 15:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-4
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			5.02 g	5 mL	39791	11/17/22 11:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39800	11/17/22 22:00	SM	EET MID
Total/NA	Analysis	Total BTEX		1			39921	11/22/22 17:04	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Client Sample ID: C-93 , 7'
Date Collected: 11/16/22 15:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-4
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			40090	11/21/22 10:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39822	11/17/22 13:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39876	11/18/22 12:56	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	39793	11/17/22 11:56	KS	EET MID
Soluble	Analysis	300.0		1			39855	11/18/22 09:22	SMC	EET MID

Client Sample ID: C-94 , 7'
Date Collected: 11/16/22 16:00
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-5
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			5.03 g	5 mL	39791	11/17/22 11:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39800	11/17/22 22:26	SM	EET MID
Total/NA	Analysis	Total BTEX		1			39921	11/22/22 17:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			40090	11/21/22 10:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39822	11/17/22 13:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39876	11/18/22 13:18	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	39793	11/17/22 11:56	KS	EET MID
Soluble	Analysis	300.0		1			39855	11/18/22 09:27	SMC	EET MID

Client Sample ID: C-95 , 7'
Date Collected: 11/16/22 16:05
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	39791	11/17/22 11:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39800	11/17/22 22:51	SM	EET MID
Total/NA	Analysis	Total BTEX		1			39921	11/22/22 17:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			40090	11/21/22 10:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39822	11/17/22 13:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39876	11/18/22 13:39	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39793	11/17/22 11:56	KS	EET MID
Soluble	Analysis	300.0		1			39855	11/18/22 09:33	SMC	EET MID

Client Sample ID: C-96 , 7'
Date Collected: 11/16/22 16:10
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-7
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			4.98 g	5 mL	39791	11/17/22 11:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39800	11/17/22 23:17	SM	EET MID
Total/NA	Analysis	Total BTEX		1			39921	11/22/22 17:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			40090	11/21/22 10:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39822	11/17/22 13:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39876	11/18/22 14:02	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Client Sample ID: C-96 , 7'
Date Collected: 11/16/22 16:10
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	39793	11/17/22 11:56	KS	EET MID
Soluble	Analysis	300.0		1			39855	11/18/22 09:39	SMC	EET MID

Client Sample ID: C-97 , 7'
Date Collected: 11/16/22 16:15
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	39791	11/17/22 11:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39800	11/17/22 23:43	SM	EET MID
Total/NA	Analysis	Total BTEX		1			39921	11/22/22 17:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			40090	11/21/22 10:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39822	11/17/22 13:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39876	11/18/22 14:24	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39793	11/17/22 11:56	KS	EET MID
Soluble	Analysis	300.0		1			39855	11/18/22 09:44	SMC	EET MID

Client Sample ID: C-98 , 7'
Date Collected: 11/16/22 16:20
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	39791	11/17/22 11:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39800	11/18/22 00:09	SM	EET MID
Total/NA	Analysis	Total BTEX		1			39921	11/22/22 17:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			40090	11/21/22 10:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39822	11/17/22 13:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39876	11/18/22 14:46	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39793	11/17/22 11:56	KS	EET MID
Soluble	Analysis	300.0		1			39855	11/18/22 09:50	SMC	EET MID

Client Sample ID: C-99 , 7'
Date Collected: 11/16/22 16:25
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	39791	11/17/22 11:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39800	11/18/22 00:35	SM	EET MID
Total/NA	Analysis	Total BTEX		1			39921	11/22/22 17:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			40090	11/21/22 10:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39822	11/17/22 13:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39876	11/18/22 15:07	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	39793	11/17/22 11:56	KS	EET MID
Soluble	Analysis	300.0		1			39855	11/18/22 09:56	SMC	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Client Sample ID: C-100 , 7'
Date Collected: 11/16/22 16:30
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39791	11/17/22 11:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39800	11/18/22 01:01	SM	EET MID
Total/NA	Analysis	Total BTEX		1			39921	11/22/22 17:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			40090	11/21/22 10:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39822	11/17/22 13:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39876	11/18/22 15:51	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39795	11/17/22 11:58	KS	EET MID
Soluble	Analysis	300.0		1			39857	11/18/22 20:47	CH	EET MID

Client Sample ID: C-101 , 7'
Date Collected: 11/16/22 16:35
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39791	11/17/22 11:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39800	11/18/22 01:26	SM	EET MID
Total/NA	Analysis	Total BTEX		1			39921	11/22/22 17:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			40090	11/21/22 10:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39822	11/17/22 13:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39876	11/18/22 16:13	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39795	11/17/22 11:58	KS	EET MID
Soluble	Analysis	300.0		1			39857	11/18/22 21:04	CH	EET MID

Client Sample ID: C-102 , 7'
Date Collected: 11/16/22 16:40
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	39794	11/17/22 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39827	11/18/22 11:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39921	11/18/22 14:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			40090	11/21/22 10:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39822	11/17/22 13:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39876	11/18/22 16:35	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39795	11/17/22 11:58	KS	EET MID
Soluble	Analysis	300.0		5			39857	11/18/22 21:10	CH	EET MID

Client Sample ID: C-103 , 7'
Date Collected: 11/16/22 16:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39794	11/17/22 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39827	11/18/22 12:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39921	11/18/22 14:30	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Client Sample ID: C-103 , 7'
Date Collected: 11/16/22 16:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-14
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			40090	11/21/22 10:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39822	11/17/22 13:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39876	11/18/22 16:57	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	39795	11/17/22 11:58	KS	EET MID
Soluble	Analysis	300.0		1			39857	11/18/22 21:15	CH	EET MID

Client Sample ID: C-104 , 7'
Date Collected: 11/16/22 16:50
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-15
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			5.05 g	5 mL	39794	11/17/22 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39827	11/18/22 12:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39921	11/18/22 14:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			40090	11/21/22 10:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39822	11/17/22 13:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39876	11/18/22 17:18	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	39795	11/17/22 11:58	KS	EET MID
Soluble	Analysis	300.0		5			39857	11/18/22 21:21	CH	EET MID

Client Sample ID: C-105 , 7'
Date Collected: 11/16/22 08:30
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-16
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			4.99 g	5 mL	39794	11/17/22 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39827	11/18/22 12:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39921	11/18/22 14:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			40090	11/21/22 10:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	39822	11/17/22 13:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39876	11/18/22 17:41	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	39795	11/17/22 11:58	KS	EET MID
Soluble	Analysis	300.0		1			39857	11/18/22 21:38	CH	EET MID

Client Sample ID: C-106 , 7'
Date Collected: 11/16/22 08:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-17
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			4.97 g	5 mL	39794	11/17/22 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39827	11/18/22 13:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39921	11/18/22 14:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			40090	11/21/22 10:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39822	11/17/22 13:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39876	11/18/22 18:02	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Client Sample ID: C-106 , 7'
Date Collected: 11/16/22 08:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	39795	11/17/22 11:58	KS	EET MID
Soluble	Analysis	300.0		1			39857	11/18/22 21:44	CH	EET MID

Client Sample ID: C-107 , 7'
Date Collected: 11/16/22 09:00
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39794	11/17/22 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39827	11/18/22 13:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39921	11/18/22 14:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			40090	11/21/22 10:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39822	11/17/22 13:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39876	11/18/22 18:23	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39795	11/17/22 11:58	KS	EET MID
Soluble	Analysis	300.0		5			39857	11/18/22 21:49	CH	EET MID

Client Sample ID: C-108 , 7'
Date Collected: 11/16/22 09:15
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-19
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	39794	11/17/22 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39827	11/18/22 13:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39921	11/18/22 14:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			40090	11/21/22 10:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39822	11/17/22 13:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39876	11/18/22 18:45	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	39795	11/17/22 11:58	KS	EET MID
Soluble	Analysis	300.0		5			39857	11/18/22 21:55	CH	EET MID

Client Sample ID: C-109 , 7'
Date Collected: 11/16/22 09:30
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-20
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	39794	11/17/22 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39827	11/18/22 15:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39921	11/18/22 16:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			40090	11/21/22 10:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39822	11/17/22 13:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39876	11/18/22 19:07	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	39795	11/17/22 11:58	KS	EET MID
Soluble	Analysis	300.0		5			39857	11/18/22 22:01	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Client Sample ID: C-110 , 7'
Date Collected: 11/16/22 09:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	39794	11/17/22 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39827	11/18/22 15:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39921	11/18/22 16:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			40090	11/21/22 11:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39882	11/18/22 07:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39958	11/19/22 14:14	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	39795	11/17/22 11:58	KS	EET MID
Soluble	Analysis	300.0		5			39857	11/18/22 22:06	CH	EET MID

Client Sample ID: C-111 , 7'
Date Collected: 11/16/22 10:00
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39794	11/17/22 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39827	11/18/22 15:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39921	11/18/22 16:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			40090	11/21/22 11:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39882	11/18/22 07:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39958	11/19/22 14:36	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	39795	11/17/22 11:58	KS	EET MID
Soluble	Analysis	300.0		5			39857	11/18/22 22:23	CH	EET MID

Client Sample ID: C-112 , 7'
Date Collected: 11/16/22 10:15
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	39794	11/17/22 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39827	11/18/22 17:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39921	11/21/22 14:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			40090	11/21/22 11:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39882	11/18/22 07:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39958	11/19/22 14:58	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	39795	11/17/22 11:58	KS	EET MID
Soluble	Analysis	300.0		1			39857	11/18/22 22:29	CH	EET MID

Client Sample ID: C-113 , 7'
Date Collected: 11/16/22 10:30
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	39794	11/17/22 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39827	11/18/22 17:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39921	11/21/22 14:45	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Client Sample ID: C-113 , 7'
Date Collected: 11/16/22 10:30
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			40090	11/21/22 11:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39882	11/18/22 07:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39958	11/19/22 15:20	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39795	11/17/22 11:58	KS	EET MID
Soluble	Analysis	300.0		1			39857	11/18/22 22:46	CH	EET MID

Client Sample ID: C-114 , 7'
Date Collected: 11/16/22 10:45
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	39794	11/17/22 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39827	11/18/22 17:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39921	11/21/22 14:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			40090	11/21/22 11:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39882	11/18/22 07:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39958	11/19/22 15:42	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	39795	11/17/22 11:58	KS	EET MID
Soluble	Analysis	300.0		5			39857	11/18/22 22:52	CH	EET MID

Client Sample ID: C-115 , 7'
Date Collected: 11/16/22 11:00
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-26
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	39794	11/17/22 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39827	11/18/22 18:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39921	11/21/22 14:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			40090	11/21/22 11:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39882	11/18/22 07:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39958	11/19/22 16:26	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	39795	11/17/22 11:58	KS	EET MID
Soluble	Analysis	300.0		5			39857	11/18/22 22:57	CH	EET MID

Client Sample ID: SW-2 , 0-5'
Date Collected: 11/16/22 11:15
Date Received: 11/17/22 10:33

Lab Sample ID: 880-21717-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	39794	11/17/22 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39827	11/18/22 18:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39921	11/21/22 14:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			40090	11/21/22 11:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39882	11/18/22 07:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39958	11/19/22 16:48	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Client Sample ID: SW-2 , 0-5'

Lab Sample ID: 880-21717-27
Matrix: Solid
Date Collected: 11/16/22 11:15
Date Received: 11/17/22 10:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	39795	11/17/22 11:58	KS	EET MID
Soluble	Analysis	300.0		1			39857	11/18/22 23:03	CH	EET MID

Client Sample ID: SW-3 , 0-5'

Lab Sample ID: 880-21717-28
Matrix: Solid
Date Collected: 11/16/22 11:30
Date Received: 11/17/22 10:33

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	39794	11/17/22 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39827	11/18/22 18:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39921	11/21/22 14:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			40090	11/21/22 11:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39882	11/18/22 07:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39958	11/19/22 17:09	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39795	11/17/22 11:58	KS	EET MID
Soluble	Analysis	300.0		5			39857	11/18/22 23:08	CH	EET MID

Client Sample ID: SW-4 , 0-7'

Lab Sample ID: 880-21717-29
Matrix: Solid
Date Collected: 11/16/22 11:45
Date Received: 11/17/22 10:33

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	39794	11/17/22 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39827	11/18/22 19:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39921	11/21/22 14:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			40090	11/21/22 11:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39882	11/18/22 07:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39958	11/19/22 17:31	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39795	11/17/22 11:58	KS	EET MID
Soluble	Analysis	300.0		5			39857	11/18/22 23:14	CH	EET MID

Client Sample ID: SW-5 , 0-7'

Lab Sample ID: 880-21717-30
Matrix: Solid
Date Collected: 11/16/22 12:00
Date Received: 11/17/22 10:33

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	39794	11/17/22 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39827	11/18/22 19:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39921	11/21/22 14:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			40090	11/21/22 11:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39882	11/18/22 07:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39958	11/19/22 17:53	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39795	11/17/22 11:58	KS	EET MID
Soluble	Analysis	300.0		5			39857	11/18/22 23:20	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Client Sample ID: SW-6 , 0-7'

Lab Sample ID: 880-21717-31
Matrix: Solid
Date Collected: 11/16/22 12:15
Date Received: 11/17/22 10:33

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	39794	11/17/22 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39827	11/18/22 20:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39921	11/21/22 14:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			40090	11/21/22 11:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39882	11/18/22 07:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39958	11/19/22 18:14	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	39796	11/17/22 11:59	KS	EET MID
Soluble	Analysis	300.0		5			39854	11/18/22 08:14	CH	EET MID

Client Sample ID: SW-7 , 0-5'

Lab Sample ID: 880-21717-32
Matrix: Solid
Date Collected: 11/16/22 12:30
Date Received: 11/17/22 10:33

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	39794	11/17/22 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39827	11/18/22 20:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39921	11/21/22 14:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			40090	11/21/22 11:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39882	11/18/22 07:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39958	11/19/22 18:36	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39796	11/17/22 11:59	KS	EET MID
Soluble	Analysis	300.0		10			39854	11/18/22 08:36	CH	EET MID

Client Sample ID: SW-8 , 0-7'

Lab Sample ID: 880-21717-33
Matrix: Solid
Date Collected: 11/16/22 12:45
Date Received: 11/17/22 10:33

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	39775	11/17/22 12:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39773	11/17/22 19:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39921	11/18/22 12:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			40090	11/21/22 11:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39882	11/18/22 07:28	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39958	11/19/22 18:57	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	39796	11/17/22 11:59	KS	EET MID
Soluble	Analysis	300.0		5			39854	11/18/22 08:43	CH	EET MID

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

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

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	T104704400-22-24	06-30-23

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

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

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

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	MCAWW	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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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: Culebra Bluff SE 5 32

Job ID: 880-21717-1
SDG: 19-0180-07

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-21717-1	C-90, 5.5	Solid	11/16/22 15:30	11/17/22 10:33
880-21717-2	C-91, 5.5	Solid	11/16/22 15:35	11/17/22 10:33
880-21717-3	C-92 , 7'	Solid	11/16/22 15:40	11/17/22 10:33
880-21717-4	C-93 , 7'	Solid	11/16/22 15:45	11/17/22 10:33
880-21717-5	C-94 , 7'	Solid	11/16/22 16:00	11/17/22 10:33
880-21717-6	C-95 , 7'	Solid	11/16/22 16:05	11/17/22 10:33
880-21717-7	C-96 , 7'	Solid	11/16/22 16:10	11/17/22 10:33
880-21717-8	C-97 , 7'	Solid	11/16/22 16:15	11/17/22 10:33
880-21717-9	C-98 , 7'	Solid	11/16/22 16:20	11/17/22 10:33
880-21717-10	C-99 , 7'	Solid	11/16/22 16:25	11/17/22 10:33
880-21717-11	C-100 , 7'	Solid	11/16/22 16:30	11/17/22 10:33
880-21717-12	C-101 , 7'	Solid	11/16/22 16:35	11/17/22 10:33
880-21717-13	C-102 , 7'	Solid	11/16/22 16:40	11/17/22 10:33
880-21717-14	C-103 , 7'	Solid	11/16/22 16:45	11/17/22 10:33
880-21717-15	C-104 , 7'	Solid	11/16/22 16:50	11/17/22 10:33
880-21717-16	C-105 , 7'	Solid	11/16/22 08:30	11/17/22 10:33
880-21717-17	C-106 , 7'	Solid	11/16/22 08:45	11/17/22 10:33
880-21717-18	C-107 , 7'	Solid	11/16/22 09:00	11/17/22 10:33
880-21717-19	C-108 , 7'	Solid	11/16/22 09:15	11/17/22 10:33
880-21717-20	C-109 , 7'	Solid	11/16/22 09:30	11/17/22 10:33
880-21717-21	C-110 , 7'	Solid	11/16/22 09:45	11/17/22 10:33
880-21717-22	C-111 , 7'	Solid	11/16/22 10:00	11/17/22 10:33
880-21717-23	C-112 , 7'	Solid	11/16/22 10:15	11/17/22 10:33
880-21717-24	C-113 , 7'	Solid	11/16/22 10:30	11/17/22 10:33
880-21717-25	C-114 , 7'	Solid	11/16/22 10:45	11/17/22 10:33
880-21717-26	C-115 , 7'	Solid	11/16/22 11:00	11/17/22 10:33
880-21717-27	SW-2 , 0-5'	Solid	11/16/22 11:15	11/17/22 10:33
880-21717-28	SW-3 , 0-5'	Solid	11/16/22 11:30	11/17/22 10:33
880-21717-29	SW-4 , 0-7'	Solid	11/16/22 11:45	11/17/22 10:33
880-21717-30	SW-5 , 0-7'	Solid	11/16/22 12:00	11/17/22 10:33
880-21717-31	SW-6 , 0-7'	Solid	11/16/22 12:15	11/17/22 10:33
880-21717-32	SW-7 , 0-5'	Solid	11/16/22 12:30	11/17/22 10:33
880-21717-33	SW-8 , 0-7'	Solid	11/16/22 12:45	11/17/22 10:33

Released to Imaging: 6/25/2024 3:25:17 PM
Received by OCD: 5/8/2024 10:38:54 AM

21717 No. 2869

CHAIN-OF-CUSTODY

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

DATE 11/17/2022 PAGE 1 OF 3
PO# _____ LAB WORK ORDER# _____
PROJECT LOCATION OR NAME Culebra Bluff SE S 32
LAI PROJECT # 19-0180-07 COLLECTOR JH

Data Reported to

TRRP report? ☐ Yes ☑ No
TIME ZONE Time zone/State: MST/NM

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

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

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

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 NaOH	ICE	UNPRESERVED	FIELD NOTES
C-90, 5.5		11/15/22	1530	S	1				X		202
C-91, 5.5			1535								
C-92, 7'			1540								
C-93, 7'			1545								
C-94, 7'			1600								
C-95, 7'			1605								
C-96, 7'			1610								
C-97, 7'			1615								
C-98, 7'			1620								
C-99, 7'			1625								
C-100, 7'			1630								
C-101, 7'			1635								
C-102, 7'			1640								
C-103, 7'			1645								
C-104, 7			1650								
TOTAL											

880-21717 Chain of Custody

RELINQUISHED BY (Signature) DATE/TIME 11/17/22 1033 RECEIVED BY (Signature)
RELINQUISHED BY (Signature) DATE/TIME RECEIVED BY (Signature)
RELINQUISHED BY (Signature) DATE/TIME RECEIVED BY (Signature)
LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP -4.4/-4.1 THERM# CF0-30
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☑ HAND DELIVERED

Released to Imaging: 6/25/2024 3:25:17 PM
Received by OCD: 5/8/2024 10:38:54 AM

21717 No. 2870

CHAIN-OF-CUSTODY

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

Data Reported to

DATE 11/17/2022 PAGE 2 OF 3
PO# _____ LAB WORK ORDER# _____
PROJECT LOCATION OR NAME. Culebra Bluff SE 5 32
LAI PROJECT # 19-0180-07 COLLECTOR JH

TRRP report? ☐ Yes ☑ No
TIME ZONE Time zone/State: MST / NM

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

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX 8021 ☐ 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
C-105, 7'		11/16/22	0830	S	1				X		X		X	X	X														X	
C-106, 7'		"	0845	"	"				"		"		"	"	"														"	
C-107, 5'			0900																											
C-108, 5'			0915																											
C-109, 5'			0930																											
C-110, 5'			0945																											
C-111, 5'			1000																											
C-112, 5'			1015																											
C-113, 5'			1030																											
C-114, 5'			1045																											
C-115, 5'			1100																											
SW-2, 0-5'			1115																											
SW-3, 0-5'			1130																											
SW-4, 0-5'			1145																											
SW-5, 0-5'		"	1200	"	"				"		"		"	"	"														"	
TOTAL																														

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
[signature]	11/17/22 1033	[signature]
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP -4.4/-4.1 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

Released to Imaging: 6/25/2024 3:25:17 PM
Received by OCD: 5/8/2024 10:38:54 AM

2717

No. 2871

CHAIN-OF-CUSTODY

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

DATE 11/17/2022 PAGE 3 OF 3

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME Culebra Bluff SE S 32

LAI PROJECT # 19-0180-07 COLLECTOR: JH

Data Reported to

TRRP report? ☐ Yes ☑ No

TIME ZONE Time zone/State: MST NM

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

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

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

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	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 ☐	HEXAVALENT CHROMIUM ☐	CYANIDE ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDES ☐	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
SW-6, 0-7'		11/16/22	1215	S	1				X		X		X	X	X																															
SW-7, 0-5'		1	1230	1	1				1		1		1	1	1																															
SW-8, 0-7'		1	1245	1	1				1		1		1	1	1																															
TOTAL																																													

Loc: 880
21717

RELINQUISHED BY (Signature) _____ DATE/TIME 11/17/22 1033 RECEIVED BY (Signature) _____

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

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

LABORATORY Xenco

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

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

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-21717-1
SDG Number: 19-0180-07

Login Number: 21717
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 Midland

Job Notes

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
11/22/2022 5:42:00 PM

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/3/2023 4:13:28 PM

JOB DESCRIPTION

CBBF/Culebre Buff Backfill
SDG NUMBER 19-0180-07

JOB NUMBER

880-26425-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 6/25/2024 3:25:17 PM

my EOL

Eurofins Midland

Job Notes

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

Authorization

Generated
4/3/2023 4:13:28 PM

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

Client: Larson & Associates, Inc.
Project/Site: CBBF/Culebre Buff Backfill

Laboratory Job ID: 880-26425-1
SDG: 19-0180-07

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-26425-1
Project/Site: CBBF/Culebre Buff Backfill SDG: 19-0180-07

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F2	MS/MSD RPD 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: 880-26425-1
Project/Site: CBBF/Culebre Buff Backfill SDG: 19-0180-07

Job ID: 880-26425-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-26425-1

Receipt
The samples were received on 3/28/2023 8:57 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.3°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: TX 8015

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-49868 and analytical batch 880-49998 was outside the control limits.

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-49734/2-A) and (LCSD 880-49734/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-49734 and analytical batch 880-49779 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-26425-A-14-C MS) and (880-26425-A-14-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-49755 and analytical batch 880-49777 was outside control limits. Sample non-homogeneity is suspected.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-49714 and 880-49714 and analytical batch 880-49825 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.BF-1 (880-26425-1), BF-2 (880-26425-2), BF-3 (880-26425-3), BF-5 (880-26425-5), BF-6 (880-26425-6), BF-7 (880-26425-7), BF-8 (880-26425-8) and BF-9 (880-26425-9)

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: CBBF/Culebre Buff Backfill

Job ID: 880-26425-1
SDG: 19-0180-07

Client Sample ID: BF-1

Date Collected: 03/27/23 11:00
Date Received: 03/28/23 08:57

Lab Sample ID: 880-26425-1

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		03/29/23 15:38	04/01/23 19:36	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/29/23 15:38	04/01/23 19:36	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/29/23 15:38	04/01/23 19:36	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		03/29/23 15:38	04/01/23 19:36	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/29/23 15:38	04/01/23 19:36	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/29/23 15:38	04/01/23 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*03/29/23 15:38*	*04/01/23 19:36*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*03/29/23 15:38*	*04/01/23 19:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			04/03/23 16:27	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			03/29/23 17:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		03/28/23 11:43	03/29/23 16:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/28/23 11:43	03/29/23 16:51	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/28/23 11:43	03/29/23 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*84*		*70 - 130*	*03/28/23 11:43*	*03/29/23 16:51*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*03/28/23 11:43*	*03/29/23 16:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**687**		5.01		mg/Kg			03/28/23 16:05	1

Client Sample ID: BF-2

Date Collected: 03/27/23 11:05
Date Received: 03/28/23 08:57

Lab Sample ID: 880-26425-2

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		03/29/23 15:38	04/01/23 20:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/29/23 15:38	04/01/23 20:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/29/23 15:38	04/01/23 20:02	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/29/23 15:38	04/01/23 20:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/29/23 15:38	04/01/23 20:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/29/23 15:38	04/01/23 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*03/29/23 15:38*	*04/01/23 20:02*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*03/29/23 15:38*	*04/01/23 20:02*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: CBBF/Culebre Buff Backfill

Job ID: 880-26425-1
SDG: 19-0180-07

Client Sample ID: BF-2

Date Collected: 03/27/23 11:05
Date Received: 03/28/23 08:57

Lab Sample ID: 880-26425-2
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			04/03/23 16:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/29/23 22:12	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	<49.9	U *1	49.9		mg/Kg		03/28/23 11:43	03/29/23 17:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/28/23 11:43	03/29/23 17:13	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/28/23 11:43	03/29/23 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*83*		*70 - 130*	*03/28/23 11:43*	*03/29/23 17:13*	*1*
o-Terphenyl (Surr)	*90*		*70 - 130*	*03/28/23 11:43*	*03/29/23 17:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**535**		5.00		mg/Kg			03/28/23 16:09	1

Client Sample ID: BF-3

Date Collected: 03/27/23 11:10
Date Received: 03/28/23 08:57

Lab Sample ID: 880-26425-3
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		03/29/23 15:38	04/01/23 21:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/29/23 15:38	04/01/23 21:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/29/23 15:38	04/01/23 21:47	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		03/29/23 15:38	04/01/23 21:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/29/23 15:38	04/01/23 21:47	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/29/23 15:38	04/01/23 21:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*03/29/23 15:38*	*04/01/23 21:47*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*03/29/23 15:38*	*04/01/23 21:47*	*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			04/03/23 16:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/29/23 22:12	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	<49.9	U *1	49.9		mg/Kg		03/28/23 11:43	03/29/23 17:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/28/23 11:43	03/29/23 17:35	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-26425-1
Project/Site: CBBF/Culebre Buff Backfill SDG: 19-0180-07

Client Sample ID: BF-3 Lab Sample ID: 880-26425-3

Date Collected: 03/27/23 11:10 **Matrix: Solid**
Date Received: 03/28/23 08:57

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/28/23 11:43	03/29/23 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*82*		*70 - 130*	*03/28/23 11:43*	*03/29/23 17:35*	*1*
o-Terphenyl (Surr)	*90*		*70 - 130*	*03/28/23 11:43*	*03/29/23 17:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**513**		5.00		mg/Kg			03/28/23 16:14	1

Client Sample ID: BF-5 Lab Sample ID: 880-26425-5

Date Collected: 03/27/23 11:20 **Matrix: Solid**
Date Received: 03/28/23 08:57

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/29/23 15:38	04/01/23 22:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/29/23 15:38	04/01/23 22:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/29/23 15:38	04/01/23 22:14	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		03/29/23 15:38	04/01/23 22:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/29/23 15:38	04/01/23 22:14	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/29/23 15:38	04/01/23 22:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*03/29/23 15:38*	*04/01/23 22:14*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*03/29/23 15:38*	*04/01/23 22:14*	*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			04/03/23 16:27	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			03/29/23 22:12	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 *1	50.0		mg/Kg		03/28/23 11:43	03/29/23 17:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/28/23 11:43	03/29/23 17:57	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/28/23 11:43	03/29/23 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*81*		*70 - 130*	*03/28/23 11:43*	*03/29/23 17:57*	*1*
o-Terphenyl (Surr)	*90*		*70 - 130*	*03/28/23 11:43*	*03/29/23 17:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1040**		4.97		mg/Kg			03/28/23 16:28	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: CBBF/Culebre Buff Backfill

Job ID: 880-26425-1
SDG: 19-0180-07

Client Sample ID: BF-6

Lab Sample ID: 880-26425-6
Matrix: Solid
Date Collected: 03/27/23 11:25
Date Received: 03/28/23 08:57

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/29/23 15:38	04/01/23 22:40	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/29/23 15:38	04/01/23 22:40	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/29/23 15:38	04/01/23 22:40	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		03/29/23 15:38	04/01/23 22:40	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/29/23 15:38	04/01/23 22:40	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/29/23 15:38	04/01/23 22:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*03/29/23 15:38*	*04/01/23 22:40*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*03/29/23 15:38*	*04/01/23 22:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/03/23 16:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/29/23 22:12	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	<49.9	U *1	49.9		mg/Kg		03/28/23 11:43	03/29/23 18:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/28/23 11:43	03/29/23 18:19	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/28/23 11:43	03/29/23 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*86*		*70 - 130*	*03/28/23 11:43*	*03/29/23 18:19*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*03/28/23 11:43*	*03/29/23 18:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1300**		24.8		mg/Kg			03/28/23 16:32	5

Client Sample ID: BF-7

Lab Sample ID: 880-26425-7
Matrix: Solid
Date Collected: 03/27/23 11:30
Date Received: 03/28/23 08:57

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/29/23 15:38	04/01/23 23:05	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/29/23 15:38	04/01/23 23:05	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/29/23 15:38	04/01/23 23:05	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		03/29/23 15:38	04/01/23 23:05	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/29/23 15:38	04/01/23 23:05	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/29/23 15:38	04/01/23 23:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*03/29/23 15:38*	*04/01/23 23:05*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*03/29/23 15:38*	*04/01/23 23:05*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-26425-1
Project/Site: CBBF/Culebre Buff Backfill SDG: 19-0180-07

Client Sample ID: BF-7 Lab Sample ID: 880-26425-7

Date Collected: 03/27/23 11:30 **Matrix: Solid**
Date Received: 03/28/23 08:57

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			04/03/23 16:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/29/23 22:12	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	<49.9	U *1	49.9		mg/Kg		03/28/23 11:43	03/29/23 18:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/28/23 11:43	03/29/23 18:41	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/28/23 11:43	03/29/23 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*88*		*70 - 130*	*03/28/23 11:43*	*03/29/23 18:41*	*1*
o-Terphenyl (Surr)	*97*		*70 - 130*	*03/28/23 11:43*	*03/29/23 18:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**701**		4.95		mg/Kg			03/28/23 16:37	1

Client Sample ID: BF-8 Lab Sample ID: 880-26425-8

Date Collected: 03/27/23 11:35 **Matrix: Solid**
Date Received: 03/28/23 08:57

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/29/23 15:38	04/01/23 23:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/29/23 15:38	04/01/23 23:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/29/23 15:38	04/01/23 23:31	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/29/23 15:38	04/01/23 23:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/29/23 15:38	04/01/23 23:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/29/23 15:38	04/01/23 23:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*03/29/23 15:38*	*04/01/23 23:31*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*03/29/23 15:38*	*04/01/23 23:31*	*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			04/03/23 16:27	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			03/29/23 22:12	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 *1	50.0		mg/Kg		03/28/23 11:43	03/29/23 19:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/28/23 11:43	03/29/23 19:03	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-26425-1
Project/Site: CBBF/Culebre Buff Backfill SDG: 19-0180-07

Client Sample ID: BF-8 Lab Sample ID: 880-26425-8

Date Collected: 03/27/23 11:35 **Matrix: Solid**
Date Received: 03/28/23 08:57

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/28/23 11:43	03/29/23 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*03/28/23 11:43*	*03/29/23 19:03*	*1*
o-Terphenyl (Surr)	*110*		*70 - 130*	*03/28/23 11:43*	*03/29/23 19:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**69.2**		5.02		mg/Kg			03/28/23 16:41	1

Client Sample ID: BF-9 Lab Sample ID: 880-26425-9

Date Collected: 03/27/23 11:40 **Matrix: Solid**
Date Received: 03/28/23 08:57

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/29/23 15:38	04/01/23 23:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/29/23 15:38	04/01/23 23:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/29/23 15:38	04/01/23 23:58	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/29/23 15:38	04/01/23 23:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/29/23 15:38	04/01/23 23:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/29/23 15:38	04/01/23 23:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*03/29/23 15:38*	*04/01/23 23:58*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*03/29/23 15:38*	*04/01/23 23:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/03/23 16:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/29/23 22:12	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	<49.9	U *1	49.9		mg/Kg		03/28/23 11:43	03/29/23 19:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/28/23 11:43	03/29/23 19:25	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/28/23 11:43	03/29/23 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*88*		*70 - 130*	*03/28/23 11:43*	*03/29/23 19:25*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*03/28/23 11:43*	*03/29/23 19:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**296**		5.04		mg/Kg			03/28/23 16:46	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: CBBF/Culebre Buff Backfill

Job ID: 880-26425-1
SDG: 19-0180-07

Client Sample ID: BF-10

Date Collected: 03/27/23 11:45
Date Received: 03/28/23 08:57

Lab Sample ID: 880-26425-10

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		03/29/23 15:38	04/02/23 00:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/29/23 15:38	04/02/23 00:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/29/23 15:38	04/02/23 00:24	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		03/29/23 15:38	04/02/23 00:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/29/23 15:38	04/02/23 00:24	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/29/23 15:38	04/02/23 00:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*03/29/23 15:38*	*04/02/23 00:24*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*03/29/23 15:38*	*04/02/23 00:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/03/23 16:27	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			03/30/23 12:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/28/23 13:32	03/29/23 22:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/28/23 13:32	03/29/23 22:20	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/28/23 13:32	03/29/23 22:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*03/28/23 13:32*	*03/29/23 22:20*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*03/28/23 13:32*	*03/29/23 22:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**317**		5.05		mg/Kg			03/28/23 16:50	1

Client Sample ID: BF-11

Date Collected: 03/27/23 11:50
Date Received: 03/28/23 08:57

Lab Sample ID: 880-26425-11

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/29/23 15:38	04/02/23 00:50	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/29/23 15:38	04/02/23 00:50	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/29/23 15:38	04/02/23 00:50	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		03/29/23 15:38	04/02/23 00:50	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/29/23 15:38	04/02/23 00:50	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/29/23 15:38	04/02/23 00:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*03/29/23 15:38*	*04/02/23 00:50*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*03/29/23 15:38*	*04/02/23 00:50*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-26425-1
Project/Site: CBBF/Culebre Buff Backfill SDG: 19-0180-07

Client Sample ID: BF-11
Lab Sample ID: 880-26425-11
Date Collected: 03/27/23 11:50 **Matrix: Solid**
Date Received: 03/28/23 08:57

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/03/23 16:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/30/23 12:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/28/23 13:32	03/29/23 22:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/28/23 13:32	03/29/23 22:41	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/28/23 13:32	03/29/23 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*86*		*70 - 130*	*03/28/23 13:32*	*03/29/23 22:41*	*1*
o-Terphenyl (Surr)	*86*		*70 - 130*	*03/28/23 13:32*	*03/29/23 22:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**153**		4.97		mg/Kg			03/28/23 17:04	1

Client Sample ID: BF-12
Lab Sample ID: 880-26425-12
Date Collected: 03/27/23 11:55 **Matrix: Solid**
Date Received: 03/28/23 08:57

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/29/23 15:38	04/02/23 01:16	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/29/23 15:38	04/02/23 01:16	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/29/23 15:38	04/02/23 01:16	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		03/29/23 15:38	04/02/23 01:16	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/29/23 15:38	04/02/23 01:16	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/29/23 15:38	04/02/23 01:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*03/29/23 15:38*	*04/02/23 01:16*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*03/29/23 15:38*	*04/02/23 01:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			04/03/23 16:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/30/23 12:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/28/23 13:32	03/29/23 23:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/28/23 13:32	03/29/23 23:03	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-26425-1
Project/Site: CBBF/Culebre Buff Backfill SDG: 19-0180-07

Client Sample ID: BF-12 Lab Sample ID: 880-26425-12

Date Collected: 03/27/23 11:55 **Matrix: Solid**
Date Received: 03/28/23 08:57

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/28/23 13:32	03/29/23 23:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*03/28/23 13:32*	*03/29/23 23:03*	*1*
o-Terphenyl (Surr)	*90*		*70 - 130*	*03/28/23 13:32*	*03/29/23 23:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**276**		4.96		mg/Kg			03/28/23 17:08	1

Client Sample ID: BF-13 Lab Sample ID: 880-26425-13

Date Collected: 03/27/23 12:00 **Matrix: Solid**
Date Received: 03/28/23 08:57

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/29/23 15:38	04/02/23 01:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/29/23 15:38	04/02/23 01:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/29/23 15:38	04/02/23 01:42	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/29/23 15:38	04/02/23 01:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/29/23 15:38	04/02/23 01:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/29/23 15:38	04/02/23 01:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*03/29/23 15:38*	*04/02/23 01:42*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*03/29/23 15:38*	*04/02/23 01:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/03/23 16:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/30/23 12:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/28/23 13:32	03/29/23 23:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/28/23 13:32	03/29/23 23:24	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/28/23 13:32	03/29/23 23:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*03/28/23 13:32*	*03/29/23 23:24*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*03/28/23 13:32*	*03/29/23 23:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**76.5**		5.02		mg/Kg			03/28/23 17:22	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: CBBF/Culebre Buff Backfill

Job ID: 880-26425-1
SDG: 19-0180-07

Client Sample ID: BF-14

Date Collected: 03/27/23 12:05
Date Received: 03/28/23 08:57

Lab Sample ID: 880-26425-14
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		03/29/23 16:16	04/01/23 12:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/29/23 16:16	04/01/23 12:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/29/23 16:16	04/01/23 12:23	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/29/23 16:16	04/01/23 12:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/29/23 16:16	04/01/23 12:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/29/23 16:16	04/01/23 12:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*03/29/23 16:16*	*04/01/23 12:23*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*03/29/23 16:16*	*04/01/23 12:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/03/23 16:44	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			03/30/23 12:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	49.9		mg/Kg		03/28/23 13:32	03/29/23 21:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/28/23 13:32	03/29/23 21:14	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/28/23 13:32	03/29/23 21:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*86*		*70 - 130*	*03/28/23 13:32*	*03/29/23 21:14*	*1*
o-Terphenyl (Surr)	*87*		*70 - 130*	*03/28/23 13:32*	*03/29/23 21:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**217**		5.03		mg/Kg			03/28/23 17:27	1

Client Sample ID: BF-15

Date Collected: 03/27/23 12:10
Date Received: 03/28/23 08:57

Lab Sample ID: 880-26425-15
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		03/29/23 16:16	04/01/23 12:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/29/23 16:16	04/01/23 12:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/29/23 16:16	04/01/23 12:44	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/29/23 16:16	04/01/23 12:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/29/23 16:16	04/01/23 12:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/29/23 16:16	04/01/23 12:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*03/29/23 16:16*	*04/01/23 12:44*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*03/29/23 16:16*	*04/01/23 12:44*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-26425-1
Project/Site: CBBF/Culebre Buff Backfill SDG: 19-0180-07

Client Sample ID: BF-15 Lab Sample ID: 880-26425-15

Date Collected: 03/27/23 12:10 **Matrix: Solid**
Date Received: 03/28/23 08:57

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/03/23 16:44	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/30/23 12:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/28/23 13:32	03/29/23 23:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/28/23 13:32	03/29/23 23:46	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/28/23 13:32	03/29/23 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*87*		*70 - 130*	*03/28/23 13:32*	*03/29/23 23:46*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*03/28/23 13:32*	*03/29/23 23:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.6**		5.00		mg/Kg			03/28/23 17:31	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: CBBF/Culebre Buff Backfill

Job ID: 880-26425-1
SDG: 19-0180-07

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)
880-26425-1	BF-1	116	103
880-26425-2	BF-2	122	107
880-26425-3	BF-3	102	87
880-26425-5	BF-5	105	87
880-26425-6	BF-6	103	91
880-26425-7	BF-7	115	95
880-26425-8	BF-8	104	88
880-26425-9	BF-9	113	89
880-26425-10	BF-10	113	93
880-26425-11	BF-11	117	102
880-26425-12	BF-12	115	93
880-26425-13	BF-13	125	101
880-26425-14	BF-14	94	106
880-26425-14 MS	BF-14	100	104
880-26425-14 MSD	BF-14	100	107
880-26425-15	BF-15	103	103
LCS 880-49868/1-A	Lab Control Sample	103	95
LCS 880-49879/1-A	Lab Control Sample	101	111
LCSD 880-49868/2-A	Lab Control Sample Dup	95	106
LCSD 880-49879/2-A	Lab Control Sample Dup	97	109
MB 880-49868/5-A	Method Blank	65 S1-	86
MB 880-49879/5-A	Method Blank	90	99
MB 880-49940/5-A	Method Blank	94	101

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)
880-26425-1	BF-1	84	91
880-26425-2	BF-2	83	90
880-26425-3	BF-3	82	90
880-26425-5	BF-5	81	90
880-26425-6	BF-6	86	95
880-26425-7	BF-7	88	97
880-26425-8	BF-8	103	110
880-26425-9	BF-9	88	96
880-26425-10	BF-10	110	106
880-26425-11	BF-11	86	86
880-26425-12	BF-12	89	90
880-26425-13	BF-13	93	96
880-26425-14	BF-14	86	87
880-26425-14 MS	BF-14	14 S1-	8 S1-
880-26425-14 MSD	BF-14	16 S1-	9 S1-
880-26425-15	BF-15	87	89

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-26425-1
Project/Site: CBBF/Culebre Buff Backfill SDG: 19-0180-07

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)								
LCS 880-49734/2-A	Lab Control Sample	132 S1+	154 S1+								
LCS 880-49755/2-A	Lab Control Sample	111	115								
LCSD 880-49734/3-A	Lab Control Sample Dup	122	132 S1+								
LCSD 880-49755/3-A	Lab Control Sample Dup	112	119								
MB 880-49734/1-A	Method Blank	115	127								
MB 880-49755/1-A	Method Blank	119	124								

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: CBBF/Culebre Buff Backfill

Job ID: 880-26425-1
SDG: 19-0180-07

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49868/5-A
Matrix: Solid
Analysis Batch: 49998

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49868

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/29/23 15:38	04/01/23 15:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/29/23 15:38	04/01/23 15:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/29/23 15:38	04/01/23 15:42	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/29/23 15:38	04/01/23 15:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/29/23 15:38	04/01/23 15:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/29/23 15:38	04/01/23 15:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*65*	*S1-*	*70 - 130*	*03/29/23 15:38*	*04/01/23 15:42*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*03/29/23 15:38*	*04/01/23 15:42*	*1*

Lab Sample ID: LCS 880-49868/1-A
Matrix: Solid
Analysis Batch: 49998

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49868

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1246		mg/Kg		125	70 - 130		
Toluene			0.100	0.1207		mg/Kg		121	70 - 130		
Ethylbenzene			0.100	0.1229		mg/Kg		123	70 - 130		
m,p-Xylenes			0.200	0.2486		mg/Kg		124	70 - 130		
o-Xylene			0.100	0.1246		mg/Kg		125	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 880-49868/2-A
Matrix: Solid
Analysis Batch: 49998

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49868

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1204		mg/Kg		120	70 - 130	3	35
Toluene			0.100	0.1059		mg/Kg		106	70 - 130	13	35
Ethylbenzene			0.100	0.1086		mg/Kg		109	70 - 130	12	35
m,p-Xylenes			0.200	0.2195		mg/Kg		110	70 - 130	12	35
o-Xylene			0.100	0.1100		mg/Kg		110	70 - 130	12	35

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

Lab Sample ID: MB 880-49879/5-A
Matrix: Solid
Analysis Batch: 50015

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49879

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/29/23 16:16	04/01/23 11:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/29/23 16:16	04/01/23 11:55	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: CBBF/Culebre Buff Backfill

Job ID: 880-26425-1
SDG: 19-0180-07

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

Lab Sample ID: MB 880-49879/5-A
Matrix: Solid
Analysis Batch: 50015

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49879

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/29/23 16:16	04/01/23 11:55	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/29/23 16:16	04/01/23 11:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/29/23 16:16	04/01/23 11:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/29/23 16:16	04/01/23 11:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*03/29/23 16:16*	*04/01/23 11:55*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*03/29/23 16:16*	*04/01/23 11:55*	*1*

Lab Sample ID: LCS 880-49879/1-A
Matrix: Solid
Analysis Batch: 50015

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49879

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1058		mg/Kg		106	70 - 130		
Toluene			0.100	0.1013		mg/Kg		101	70 - 130		
Ethylbenzene			0.100	0.09189		mg/Kg		92	70 - 130		
m,p-Xylenes			0.200	0.1817		mg/Kg		91	70 - 130		
o-Xylene			0.100	0.09300		mg/Kg		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: LCSD 880-49879/2-A
Matrix: Solid
Analysis Batch: 50015

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49879

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1041		mg/Kg		104	70 - 130	2	35
Toluene			0.100	0.1004		mg/Kg		100	70 - 130	1	35
Ethylbenzene			0.100	0.08952		mg/Kg		90	70 - 130	3	35
m,p-Xylenes			0.200	0.1763		mg/Kg		88	70 - 130	3	35
o-Xylene			0.100	0.09037		mg/Kg		90	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: 880-26425-14 MS
Matrix: Solid
Analysis Batch: 50015

Client Sample ID: BF-14
Prep Type: Total/NA
Prep Batch: 49879

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.0998	0.08022		mg/Kg		80	70 - 130		
Toluene	<0.00199	U	0.0998	0.07856		mg/Kg		79	70 - 130		
Ethylbenzene	<0.00199	U	0.0998	0.07081		mg/Kg		71	70 - 130		
m,p-Xylenes	<0.00398	U	0.200	0.1397		mg/Kg		70	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-26425-1
Project/Site: CBBF/Culebre Buff Backfill SDG: 19-0180-07

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

Lab Sample ID: 880-26425-14 MS **Client Sample ID: BF-14**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 50015 **Prep Batch: 49879**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	<0.00199	U	0.0998	0.07374		mg/Kg		74	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 880-26425-14 MSD **Client Sample ID: BF-14**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 50015 **Prep Batch: 49879**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.09383		mg/Kg		95	70 - 130	16	35
Toluene	<0.00199	U	0.0990	0.08598		mg/Kg		87	70 - 130	9	35
Ethylbenzene	<0.00199	U	0.0990	0.07871		mg/Kg		79	70 - 130	11	35
m,p-Xylenes	<0.00398	U	0.198	0.1515		mg/Kg		77	70 - 130	8	35
o-Xylene	<0.00199	U	0.0990	0.08154		mg/Kg		82	70 - 130	10	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: MB 880-49940/5-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 50015 **Prep Batch: 49940**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/30/23 12:57	04/01/23 00:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/30/23 12:57	04/01/23 00:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/30/23 12:57	04/01/23 00:19	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		03/30/23 12:57	04/01/23 00:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/30/23 12:57	04/01/23 00:19	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/30/23 12:57	04/01/23 00:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*03/30/23 12:57*	*04/01/23 00:19*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*03/30/23 12:57*	*04/01/23 00:19*	*1*

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

Lab Sample ID: MB 880-49734/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 49779 **Prep Batch: 49734**

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		03/28/23 11:43	03/29/23 08:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/28/23 11:43	03/29/23 08:17	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/28/23 11:43	03/29/23 08:17	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: CBBF/Culebre Buff Backfill

Job ID: 880-26425-1
SDG: 19-0180-07

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	115		70 - 130	03/28/23 11:43	03/29/23 08:17	1
o-Terphenyl (Surr)	127		70 - 130	03/28/23 11:43	03/29/23 08:17	1

Lab Sample ID: LCS 880-49734/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 49779 — **Prep Batch: 49734**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1114		mg/Kg		111	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	934.9		mg/Kg		93	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	132	S1+	70 - 130
o-Terphenyl (Surr)	154	S1+	70 - 130

Lab Sample ID: LCSD 880-49734/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 49779 — **Prep Batch: 49734**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	893.2	*1	mg/Kg		89	70 - 130	22	20
Diesel Range Organics (Over C10-C28)			1000	857.1		mg/Kg		86	70 - 130	9	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	122		70 - 130
o-Terphenyl (Surr)	132	S1+	70 - 130

Lab Sample ID: MB 880-49755/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 49777 — **Prep Batch: 49755**

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		03/28/23 13:32	03/29/23 20:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/28/23 13:32	03/29/23 20:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/28/23 13:32	03/29/23 20:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	119		70 - 130	03/28/23 13:32	03/29/23 20:09	1
o-Terphenyl (Surr)	124		70 - 130	03/28/23 13:32	03/29/23 20:09	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: CBBF/Culebre Buff Backfill

Job ID: 880-26425-1
SDG: 19-0180-07

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

Lab Sample ID: LCS 880-49755/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 49777 — **Prep Batch: 49755**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	856.4		mg/Kg		86	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	863.7		mg/Kg		86	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*111*		*70 - 130*
o-Terphenyl (Surr)	*115*		*70 - 130*

Lab Sample ID: LCSD 880-49755/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 49777 — **Prep Batch: 49755**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	843.1		mg/Kg		84	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	889.4		mg/Kg		89	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*112*		*70 - 130*
o-Terphenyl (Surr)	*119*		*70 - 130*

Lab Sample ID: 880-26425-14 MS — **Client Sample ID: BF-14**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 49777 — **Prep Batch: 49755**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	998	895.3		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	998	872.3		mg/Kg		87	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*14*	*S1-*	*70 - 130*
o-Terphenyl (Surr)	*8*	*S1-*	*70 - 130*

Lab Sample ID: 880-26425-14 MSD — **Client Sample ID: BF-14**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 49777 — **Prep Batch: 49755**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	997	1221	F2	mg/Kg		119	70 - 130	31	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1006		mg/Kg		101	70 - 130	14	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*16*	*S1-*	*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: CBBF/Culebre Buff Backfill

Job ID: 880-26425-1
SDG: 19-0180-07

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

Lab Sample ID: 880-26425-14 MSD
Matrix: Solid
Analysis Batch: 49777

Client Sample ID: BF-14
Prep Type: Total/NA
Prep Batch: 49755

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl (Surr)	*9*	*S1-*	*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-49714/1-A
Matrix: Solid
Analysis Batch: 49825

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/28/23 15:33	1

Lab Sample ID: LCS 880-49714/2-A
Matrix: Solid
Analysis Batch: 49825

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	248.4		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-49714/3-A
Matrix: Solid
Analysis Batch: 49825

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	247.2		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-26425-10 MS
Matrix: Solid
Analysis Batch: 49825

Client Sample ID: BF-10
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	317		253	591.6		mg/Kg		109	90 - 110		

Lab Sample ID: 880-26425-10 MSD
Matrix: Solid
Analysis Batch: 49825

Client Sample ID: BF-10
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	317		253	585.5		mg/Kg		106	90 - 110	1	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: CBBF/Culebre Buff Backfill

Job ID: 880-26425-1
SDG: 19-0180-07

GC VOA

Prep Batch: 49868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26425-1	BF-1	Total/NA	Solid	5035	
880-26425-2	BF-2	Total/NA	Solid	5035	
880-26425-3	BF-3	Total/NA	Solid	5035	
880-26425-5	BF-5	Total/NA	Solid	5035	
880-26425-6	BF-6	Total/NA	Solid	5035	
880-26425-7	BF-7	Total/NA	Solid	5035	
880-26425-8	BF-8	Total/NA	Solid	5035	
880-26425-9	BF-9	Total/NA	Solid	5035	
880-26425-10	BF-10	Total/NA	Solid	5035	
880-26425-11	BF-11	Total/NA	Solid	5035	
880-26425-12	BF-12	Total/NA	Solid	5035	
880-26425-13	BF-13	Total/NA	Solid	5035	
MB 880-49868/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49868/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49868/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 49879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26425-14	BF-14	Total/NA	Solid	5035	
880-26425-15	BF-15	Total/NA	Solid	5035	
MB 880-49879/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49879/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49879/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-26425-14 MS	BF-14	Total/NA	Solid	5035	
880-26425-14 MSD	BF-14	Total/NA	Solid	5035	

Prep Batch: 49940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-49940/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 49998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26425-1	BF-1	Total/NA	Solid	8021B	49868
880-26425-2	BF-2	Total/NA	Solid	8021B	49868
880-26425-3	BF-3	Total/NA	Solid	8021B	49868
880-26425-5	BF-5	Total/NA	Solid	8021B	49868
880-26425-6	BF-6	Total/NA	Solid	8021B	49868
880-26425-7	BF-7	Total/NA	Solid	8021B	49868
880-26425-8	BF-8	Total/NA	Solid	8021B	49868
880-26425-9	BF-9	Total/NA	Solid	8021B	49868
880-26425-10	BF-10	Total/NA	Solid	8021B	49868
880-26425-11	BF-11	Total/NA	Solid	8021B	49868
880-26425-12	BF-12	Total/NA	Solid	8021B	49868
880-26425-13	BF-13	Total/NA	Solid	8021B	49868
MB 880-49868/5-A	Method Blank	Total/NA	Solid	8021B	49868
LCS 880-49868/1-A	Lab Control Sample	Total/NA	Solid	8021B	49868
LCSD 880-49868/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49868

Analysis Batch: 50015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26425-14	BF-14	Total/NA	Solid	8021B	49879

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: CBBF/Culebre Buff Backfill

Job ID: 880-26425-1
SDG: 19-0180-07

GC VOA (Continued)

Analysis Batch: 50015 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26425-15	BF-15	Total/NA	Solid	8021B	49879
MB 880-49879/5-A	Method Blank	Total/NA	Solid	8021B	49879
MB 880-49940/5-A	Method Blank	Total/NA	Solid	8021B	49940
LCS 880-49879/1-A	Lab Control Sample	Total/NA	Solid	8021B	49879
LCSD 880-49879/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49879
880-26425-14 MS	BF-14	Total/NA	Solid	8021B	49879
880-26425-14 MSD	BF-14	Total/NA	Solid	8021B	49879

Analysis Batch: 50253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26425-1	BF-1	Total/NA	Solid	Total BTEX	
880-26425-2	BF-2	Total/NA	Solid	Total BTEX	
880-26425-3	BF-3	Total/NA	Solid	Total BTEX	
880-26425-5	BF-5	Total/NA	Solid	Total BTEX	
880-26425-6	BF-6	Total/NA	Solid	Total BTEX	
880-26425-7	BF-7	Total/NA	Solid	Total BTEX	
880-26425-8	BF-8	Total/NA	Solid	Total BTEX	
880-26425-9	BF-9	Total/NA	Solid	Total BTEX	
880-26425-10	BF-10	Total/NA	Solid	Total BTEX	
880-26425-11	BF-11	Total/NA	Solid	Total BTEX	
880-26425-12	BF-12	Total/NA	Solid	Total BTEX	
880-26425-13	BF-13	Total/NA	Solid	Total BTEX	
880-26425-14	BF-14	Total/NA	Solid	Total BTEX	
880-26425-15	BF-15	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 49734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26425-1	BF-1	Total/NA	Solid	8015NM Prep	
880-26425-2	BF-2	Total/NA	Solid	8015NM Prep	
880-26425-3	BF-3	Total/NA	Solid	8015NM Prep	
880-26425-5	BF-5	Total/NA	Solid	8015NM Prep	
880-26425-6	BF-6	Total/NA	Solid	8015NM Prep	
880-26425-7	BF-7	Total/NA	Solid	8015NM Prep	
880-26425-8	BF-8	Total/NA	Solid	8015NM Prep	
880-26425-9	BF-9	Total/NA	Solid	8015NM Prep	
MB 880-49734/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49734/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49734/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 49755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26425-10	BF-10	Total/NA	Solid	8015NM Prep	
880-26425-11	BF-11	Total/NA	Solid	8015NM Prep	
880-26425-12	BF-12	Total/NA	Solid	8015NM Prep	
880-26425-13	BF-13	Total/NA	Solid	8015NM Prep	
880-26425-14	BF-14	Total/NA	Solid	8015NM Prep	
880-26425-15	BF-15	Total/NA	Solid	8015NM Prep	
MB 880-49755/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49755/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: CBBF/Culebre Buff Backfill

Job ID: 880-26425-1
SDG: 19-0180-07

GC Semi VOA (Continued)

Prep Batch: 49755 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-49755/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26425-14 MS	BF-14	Total/NA	Solid	8015NM Prep	
880-26425-14 MSD	BF-14	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26425-10	BF-10	Total/NA	Solid	8015B NM	49755
880-26425-11	BF-11	Total/NA	Solid	8015B NM	49755
880-26425-12	BF-12	Total/NA	Solid	8015B NM	49755
880-26425-13	BF-13	Total/NA	Solid	8015B NM	49755
880-26425-14	BF-14	Total/NA	Solid	8015B NM	49755
880-26425-15	BF-15	Total/NA	Solid	8015B NM	49755
MB 880-49755/1-A	Method Blank	Total/NA	Solid	8015B NM	49755
LCS 880-49755/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49755
LCSD 880-49755/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49755
880-26425-14 MS	BF-14	Total/NA	Solid	8015B NM	49755
880-26425-14 MSD	BF-14	Total/NA	Solid	8015B NM	49755

Analysis Batch: 49779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26425-1	BF-1	Total/NA	Solid	8015B NM	49734
880-26425-2	BF-2	Total/NA	Solid	8015B NM	49734
880-26425-3	BF-3	Total/NA	Solid	8015B NM	49734
880-26425-5	BF-5	Total/NA	Solid	8015B NM	49734
880-26425-6	BF-6	Total/NA	Solid	8015B NM	49734
880-26425-7	BF-7	Total/NA	Solid	8015B NM	49734
880-26425-8	BF-8	Total/NA	Solid	8015B NM	49734
880-26425-9	BF-9	Total/NA	Solid	8015B NM	49734
MB 880-49734/1-A	Method Blank	Total/NA	Solid	8015B NM	49734
LCS 880-49734/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49734
LCSD 880-49734/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49734

Analysis Batch: 49896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26425-1	BF-1	Total/NA	Solid	8015 NM	
880-26425-2	BF-2	Total/NA	Solid	8015 NM	
880-26425-3	BF-3	Total/NA	Solid	8015 NM	
880-26425-5	BF-5	Total/NA	Solid	8015 NM	
880-26425-6	BF-6	Total/NA	Solid	8015 NM	
880-26425-7	BF-7	Total/NA	Solid	8015 NM	
880-26425-8	BF-8	Total/NA	Solid	8015 NM	
880-26425-9	BF-9	Total/NA	Solid	8015 NM	
880-26425-10	BF-10	Total/NA	Solid	8015 NM	
880-26425-11	BF-11	Total/NA	Solid	8015 NM	
880-26425-12	BF-12	Total/NA	Solid	8015 NM	
880-26425-13	BF-13	Total/NA	Solid	8015 NM	
880-26425-14	BF-14	Total/NA	Solid	8015 NM	
880-26425-15	BF-15	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: CBBF/Culebre Buff Backfill

Job ID: 880-26425-1
SDG: 19-0180-07

HPLC/IC

Leach Batch: 49714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26425-1	BF-1	Soluble	Solid	DI Leach	
880-26425-2	BF-2	Soluble	Solid	DI Leach	
880-26425-3	BF-3	Soluble	Solid	DI Leach	
880-26425-5	BF-5	Soluble	Solid	DI Leach	
880-26425-6	BF-6	Soluble	Solid	DI Leach	
880-26425-7	BF-7	Soluble	Solid	DI Leach	
880-26425-8	BF-8	Soluble	Solid	DI Leach	
880-26425-9	BF-9	Soluble	Solid	DI Leach	
880-26425-10	BF-10	Soluble	Solid	DI Leach	
880-26425-11	BF-11	Soluble	Solid	DI Leach	
880-26425-12	BF-12	Soluble	Solid	DI Leach	
880-26425-13	BF-13	Soluble	Solid	DI Leach	
880-26425-14	BF-14	Soluble	Solid	DI Leach	
880-26425-15	BF-15	Soluble	Solid	DI Leach	
MB 880-49714/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49714/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49714/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-26425-10 MS	BF-10	Soluble	Solid	DI Leach	
880-26425-10 MSD	BF-10	Soluble	Solid	DI Leach	

Analysis Batch: 49825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26425-1	BF-1	Soluble	Solid	300.0	49714
880-26425-2	BF-2	Soluble	Solid	300.0	49714
880-26425-3	BF-3	Soluble	Solid	300.0	49714
880-26425-5	BF-5	Soluble	Solid	300.0	49714
880-26425-6	BF-6	Soluble	Solid	300.0	49714
880-26425-7	BF-7	Soluble	Solid	300.0	49714
880-26425-8	BF-8	Soluble	Solid	300.0	49714
880-26425-9	BF-9	Soluble	Solid	300.0	49714
880-26425-10	BF-10	Soluble	Solid	300.0	49714
880-26425-11	BF-11	Soluble	Solid	300.0	49714
880-26425-12	BF-12	Soluble	Solid	300.0	49714
880-26425-13	BF-13	Soluble	Solid	300.0	49714
880-26425-14	BF-14	Soluble	Solid	300.0	49714
880-26425-15	BF-15	Soluble	Solid	300.0	49714
MB 880-49714/1-A	Method Blank	Soluble	Solid	300.0	49714
LCS 880-49714/2-A	Lab Control Sample	Soluble	Solid	300.0	49714
LCSD 880-49714/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49714
880-26425-10 MS	BF-10	Soluble	Solid	300.0	49714
880-26425-10 MSD	BF-10	Soluble	Solid	300.0	49714

Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-26425-1
Project/Site: CBBF/Culebre Buff Backfill SDG: 19-0180-07

Client Sample ID: BF-1 Lab Sample ID: 880-26425-1

Date Collected: 03/27/23 11:00 **Matrix: Solid**
Date Received: 03/28/23 08:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	49868	03/29/23 15:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/01/23 19:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50253	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49896	03/29/23 17:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49734	03/28/23 11:43	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49779	03/29/23 16:51	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	49714	03/28/23 10:15	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49825	03/28/23 16:05	SMC	EET MID

Client Sample ID: BF-2 Lab Sample ID: 880-26425-2

Date Collected: 03/27/23 11:05 **Matrix: Solid**
Date Received: 03/28/23 08:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	49868	03/29/23 15:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/01/23 20:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50253	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49896	03/29/23 22:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49734	03/28/23 11:43	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49779	03/29/23 17:13	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	49714	03/28/23 10:15	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49825	03/28/23 16:09	SMC	EET MID

Client Sample ID: BF-3 Lab Sample ID: 880-26425-3

Date Collected: 03/27/23 11:10 **Matrix: Solid**
Date Received: 03/28/23 08:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	49868	03/29/23 15:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/01/23 21:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50253	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49896	03/29/23 22:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49734	03/28/23 11:43	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49779	03/29/23 17:35	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	49714	03/28/23 10:15	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49825	03/28/23 16:14	SMC	EET MID

Client Sample ID: BF-5 Lab Sample ID: 880-26425-5

Date Collected: 03/27/23 11:20 **Matrix: Solid**
Date Received: 03/28/23 08:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	49868	03/29/23 15:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/01/23 22:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50253	04/03/23 16:27	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: CBBF/Culebre Buff Backfill

Job ID: 880-26425-1
SDG: 19-0180-07

Client Sample ID: BF-5

Date Collected: 03/27/23 11:20
Date Received: 03/28/23 08:57

Lab Sample ID: 880-26425-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			49896	03/29/23 22:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49734	03/28/23 11:43	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49779	03/29/23 17:57	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	49714	03/28/23 10:15	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49825	03/28/23 16:28	SMC	EET MID

Client Sample ID: BF-6

Date Collected: 03/27/23 11:25
Date Received: 03/28/23 08:57

Lab Sample ID: 880-26425-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	49868	03/29/23 15:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/01/23 22:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50253	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49896	03/29/23 22:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49734	03/28/23 11:43	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49779	03/29/23 18:19	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	49714	03/28/23 10:15	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49825	03/28/23 16:32	SMC	EET MID

Client Sample ID: BF-7

Date Collected: 03/27/23 11:30
Date Received: 03/28/23 08:57

Lab Sample ID: 880-26425-7

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			4.95 g	5 mL	49868	03/29/23 15:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/01/23 23:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50253	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49896	03/29/23 22:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49734	03/28/23 11:43	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49779	03/29/23 18:41	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	49714	03/28/23 10:15	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49825	03/28/23 16:37	SMC	EET MID

Client Sample ID: BF-8

Date Collected: 03/27/23 11:35
Date Received: 03/28/23 08:57

Lab Sample ID: 880-26425-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	49868	03/29/23 15:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/01/23 23:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50253	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49896	03/29/23 22:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49734	03/28/23 11:43	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49779	03/29/23 19:03	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: CBBF/Culebre Buff Backfill

Job ID: 880-26425-1
SDG: 19-0180-07

Client Sample ID: BF-8

Date Collected: 03/27/23 11:35
Date Received: 03/28/23 08:57

Lab Sample ID: 880-26425-8

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			4.98 g	50 mL	49714	03/28/23 10:15	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49825	03/28/23 16:41	SMC	EET MID

Client Sample ID: BF-9

Date Collected: 03/27/23 11:40
Date Received: 03/28/23 08:57

Lab Sample ID: 880-26425-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	49868	03/29/23 15:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/01/23 23:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50253	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49896	03/29/23 22:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49734	03/28/23 11:43	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49779	03/29/23 19:25	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	49714	03/28/23 10:15	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49825	03/28/23 16:46	SMC	EET MID

Client Sample ID: BF-10

Date Collected: 03/27/23 11:45
Date Received: 03/28/23 08:57

Lab Sample ID: 880-26425-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	49868	03/29/23 15:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/02/23 00:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50253	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49896	03/30/23 12:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	49755	03/28/23 13:32	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49777	03/29/23 22:20	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	49714	03/28/23 10:15	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49825	03/28/23 16:50	SMC	EET MID

Client Sample ID: BF-11

Date Collected: 03/27/23 11:50
Date Received: 03/28/23 08:57

Lab Sample ID: 880-26425-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	49868	03/29/23 15:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/02/23 00:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50253	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49896	03/30/23 12:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49755	03/28/23 13:32	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49777	03/29/23 22:41	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	49714	03/28/23 10:15	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49825	03/28/23 17:04	SMC	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: CBBF/Culebre Buff Backfill

Job ID: 880-26425-1
SDG: 19-0180-07

Client Sample ID: BF-12

Date Collected: 03/27/23 11:55
Date Received: 03/28/23 08:57

Lab Sample ID: 880-26425-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	49868	03/29/23 15:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/02/23 01:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50253	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49896	03/30/23 12:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49755	03/28/23 13:32	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49777	03/29/23 23:03	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	49714	03/28/23 10:15	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49825	03/28/23 17:08	SMC	EET MID

Client Sample ID: BF-13

Date Collected: 03/27/23 12:00
Date Received: 03/28/23 08:57

Lab Sample ID: 880-26425-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	49868	03/29/23 15:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/02/23 01:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50253	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49896	03/30/23 12:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49755	03/28/23 13:32	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49777	03/29/23 23:24	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	49714	03/28/23 10:15	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49825	03/28/23 17:22	SMC	EET MID

Client Sample ID: BF-14

Date Collected: 03/27/23 12:05
Date Received: 03/28/23 08:57

Lab Sample ID: 880-26425-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	49879	03/29/23 16:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	04/01/23 12:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50253	04/03/23 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			49896	03/30/23 12:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49755	03/28/23 13:32	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49777	03/29/23 21:14	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	49714	03/28/23 10:15	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49825	03/28/23 17:27	SMC	EET MID

Client Sample ID: BF-15

Date Collected: 03/27/23 12:10
Date Received: 03/28/23 08:57

Lab Sample ID: 880-26425-15

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			5.03 g	5 mL	49879	03/29/23 16:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	04/01/23 12:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50253	04/03/23 16:44	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: CBBF/Culebre Buff Backfill

Job ID: 880-26425-1
SDG: 19-0180-07

Client Sample ID: BF-15

Date Collected: 03/27/23 12:10
Date Received: 03/28/23 08:57

Lab Sample ID: 880-26425-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			49896	03/30/23 12:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49755	03/28/23 13:32	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49777	03/29/23 23:46	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	49714	03/28/23 10:15	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49825	03/28/23 17:31	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: 880-26425-1
Project/Site: CBBF/Culebre Buff Backfill SDG: 19-0180-07

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	T104704400-22-25	06-30-23

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: 880-26425-1
Project/Site: CBBF/Culebre Buff Backfill SDG: 19-0180-07

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: CBBF/Culebre Buff Backfill

Job ID: 880-26425-1
SDG: 19-0180-07

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-26425-1	BF-1	Solid	03/27/23 11:00	03/28/23 08:57
880-26425-2	BF-2	Solid	03/27/23 11:05	03/28/23 08:57
880-26425-3	BF-3	Solid	03/27/23 11:10	03/28/23 08:57
880-26425-5	BF-5	Solid	03/27/23 11:20	03/28/23 08:57
880-26425-6	BF-6	Solid	03/27/23 11:25	03/28/23 08:57
880-26425-7	BF-7	Solid	03/27/23 11:30	03/28/23 08:57
880-26425-8	BF-8	Solid	03/27/23 11:35	03/28/23 08:57
880-26425-9	BF-9	Solid	03/27/23 11:40	03/28/23 08:57
880-26425-10	BF-10	Solid	03/27/23 11:45	03/28/23 08:57
880-26425-11	BF-11	Solid	03/27/23 11:50	03/28/23 08:57
880-26425-12	BF-12	Solid	03/27/23 11:55	03/28/23 08:57
880-26425-13	BF-13	Solid	03/27/23 12:00	03/28/23 08:57
880-26425-14	BF-14	Solid	03/27/23 12:05	03/28/23 08:57
880-26425-15	BF-15	Solid	03/27/23 12:10	03/28/23 08:57

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24425

No. 2700

CHAIN-OF-CUSTODY

4/3/2023

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

DATE: 3/27/23 PAGE 1 OF 1

PO# _____ LAB WORK ORDER#. _____

PROJECT LOCATION OR NAME: CBBF / Culebra Bluff Backfill

LAI PROJECT #: 19-0180-07 COLLECTOR. MF

Data Reported to

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State: MNT/NM

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

ANALYSES: BTEX ☒ MTBE ☐ | ~~TRPH 418.1~~ ☐ ~~TPH 1005~~ ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☒ | DIESEL - MOD 8015 ☒ | OIL - MOD 8015 ☒ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D W 200 8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	BTEX ☒	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
BF-1		3/27/23	1100	S	1				X		X	X	X	X	X																										X			202
BF-2			1105																																								
BF-3			1110																																							
BF-4			1115																																							
BF-5			1120																																							
BF-6			1125																																							
BF-7			1130																																							
BF-8			1135																																							
BF-9			1140																																							
BF-10			1145																																							
BF-11			1150																																							
BF-12			1155																																							
BF-13			1200																																							
BF-14			1205																																							
BF-15			1210																																							
TOTAL																																													

880-26425 Chain of Custody

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
Matthew Fuller	3/28/23	8:57
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 1.6 1.3 THERM#: IR8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☑ HAND DELIVERED

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Received by OCD: 5/8/2024 10:38:54 AM

Released to Imaging: 6/25/2024 3:25:17 PM

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-26425-1
SDG Number: 19-0180-07

Login Number: 26425
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: Mr. Mark J Larson
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Generated 2/29/2024 10:02:18 AM Revision 2

JOB DESCRIPTION

Culebra Bluff SE 5 32 Fed Com 3
19-0180-07

JOB NUMBER

880-39246-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

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my EOL

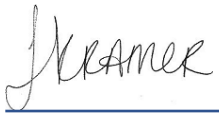
Eurofins Midland

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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2/29/2024 10:02:18 AM
Revision 2

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
Designee for
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(806)794-1296

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Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
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.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD 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.

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: 880-39246-1
Project: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1 Eurofins Midland

Job Narrative
880-39246-1

Revision
The report being provided is a revision of the original report sent on 2/22/2024. The report (revision 1) is being revised to correct the project name and report the results for the reanalysis of Cl per Robert Nelson (email).

Receipt
The samples were received on 2/12/2024 12:30 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 was 2.5º C.

Receipt Exceptions
The following sampleswere received and analyzed from an unpreserved bulk soil jar: C-5,O-4.1 (880-39246-1), SW-2.0-4.1 (880-39246-2), SW-3,0-4.1 (880-39246-3), C-12,0-4.1 (880-39246-4), SW-4,0-4.1 (880-39246-5), SW-5,0-4.1 (880-39246-6), C-4,0-4.1 (880-39246-7), C-63,0-4.1 (880-39246-8), C-2,0-4.1 (880-39246-9), SW-8.0-4.1 (880-39246-10), C-59,0-4.1 (880-39246-11), C-19,0-4.1 (880-39246-12), SW-7,0-4.1 (880-39246-13), SW-6,0-4.1 (880-39246-14), C-116,4.1 (880-39246-15), C-117,4.1 (880-39246-16), C-118,4.1 (880-39246-17), C-119,4.1 (880-39246-18), C-120,4.1 (880-39246-19), C-212,4.1 (880-39246-20), C-122,4.1 (880-39246-21), C-123,4.1 (880-39246-22), C-124,4.1 (880-39246-23), C-125,4.1 (880-39246-24), C-126,4.1 (880-39246-25), C-127,4.1 (880-39246-26), C-128,4.1 (880-39246-27), C-129,4.1 (880-39246-28), C-130,4.1 (880-39246-29), C-131,4.1 (880-39246-30), C-132,4.1 (880-39246-31), C-133,4.1 (880-39246-32), C-134,4.1 (880-39246-33), C-135,4.1 (880-39246-34), C-136,4.1 (880-39246-35), C-137,4.1 (880-39246-36), C-138,4.1 (880-39246-37), C-139,4.1 (880-39246-38), C-140,4.1 (880-39246-39), C-141,4.1 (880-39246-40), C-142,4.1 (880-39246-41), C-143,4.1 (880-39246-42), C-144.4.1 (880-39246-43), C-145,4.1 (880-39246-44), C-146,4.1 (880-39246-45), C-148,4.1 (880-39246-46), C-149,4.1 (880-39246-47), C-150,4.1 (880-39246-48), C-151,4.1 (880-39246-49), C-152,4.1 (880-39246-50), C-153,4.1 (880-39246-51), C-154,4.1 (880-39246-52) and C-147,4.1 (880-39246-53).

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-73189 and analytical batch 880-73320 was outside the control limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-73320 recovered below the lower control limit for Ethylbenzene, m,p-Xylenes and o-Xylene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-73320/64).

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCS 880-73271/1-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-122,4.1 (880-39246-21), C-123,4.1 (880-39246-22), C-124,4.1 (880-39246-23), C-125,4.1 (880-39246-24), C-126,4.1 (880-39246-25), C-127,4.1 (880-39246-26), C-128,4.1 (880-39246-27), C-129,4.1 (880-39246-28), C-130,4.1 (880-39246-29), C-131,4.1 (880-39246-30), C-132,4.1 (880-39246-31), C-133,4.1 (880-39246-32), C-134,4.1 (880-39246-33), C-135,4.1 (880-39246-34), C-136,4.1 (880-39246-35), C-137,4.1 (880-39246-36), C-138,4.1 (880-39246-37), C-139,4.1 (880-39246-38), C-140,4.1 (880-39246-39), C-141,4.1 (880-39246-40) and (MB 880-73272/5-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCS 880-73272/1-A), (LCSD 880-73272/2-A), (880-39246-A-21-G MS) and (880-39246-A-21-H MSD). Evidence of matrix interferences is not obvious.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-73428 recovered above the upper control limit for Ethylbenzene and m,p-Xylenes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-73428/2).

Method 8021B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 880-73272 and analytical batch 880-73428 recovered outside control limits for the following analytes: Toluene, Ethylbenzene, m,p-Xylenes and o-Xylene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-73272 and analytical batch 880-73428 was outside control limits. Sample matrix interference and/or non-homogeneity is suspected.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-73428 recovered above the upper control limit for m,p-Xylenes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have

Case Narrative

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1 (Continued) Eurofins Midland

been reported. The associated sample is impacted: (CCV 880-73428/20).

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-73428 recovered above the upper control limit for 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 sample is impacted: (CCV 880-73428/33).

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-143,4.1 (880-39246-42) and C-144.4.1 (880-39246-43). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA
Method 8015B NM: The surrogate recovery for the blank associated with preparation batch 880-73050 and 880-73051 and analytical batch 880-73400 was outside the upper control limits.

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: SW-5,0-4.1 (880-39246-6), C-4,0-4.1 (880-39246-7) and C-128,4.1 (880-39246-27). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-73050/2-A). Evidence of matrix interferences is not obvious.

Method 8015B NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-73051 and analytical batch 880-73400 was outside control limits. Sample non-homogeneity is suspected.

Method 8015B NM: The surrogate recovery for the blank associated with preparation batch 880-73083 and analytical batch 880-73402 was outside the upper control limits.

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: C-143,4.1 (880-39246-42), C-146,4.1 (880-39246-45), (880-39246-A-41-E MS) and (880-39246-A-41-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: C-147,4.1 (880-39246-53). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015B NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-73083 and analytical batch 880-73402 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.

General Chemistry
Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-73040 and 880-73040 and analytical batch 880-73198 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300.0: The matrix spike duplicate (MSD) recoveries for preparation batch 880-73029 and 880-73029 and analytical batch 880-73194 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300.0: The matrix spike duplicate (MSD) recoveries for preparation batch 880-73029 and analytical batch 880-73194 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-73228 and analytical batch 880-73299 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Case Narrative

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1 (Continued) Eurofins Midland

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-73473 and analytical batch 880-73579 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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

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

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C-5,O-4.1 Lab Sample ID: 880-39246-1

Date Collected: 02/06/24 11:08 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 12:26	02/17/24 10:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/15/24 12:26	02/17/24 10:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/15/24 12:26	02/17/24 10:49	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		02/15/24 12:26	02/17/24 10:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/15/24 12:26	02/17/24 10:49	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/15/24 12:26	02/17/24 10:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*02/15/24 12:26*	*02/17/24 10:49*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*02/15/24 12:26*	*02/17/24 10:49*	*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			02/17/24 10:49	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			02/17/24 10:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.7	U	49.7		mg/Kg		02/13/24 12:58	02/17/24 10:24	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/13/24 12:58	02/17/24 10:24	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/13/24 12:58	02/17/24 10:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*128*		*70 - 130*	*02/13/24 12:58*	*02/17/24 10:24*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*02/13/24 12:58*	*02/17/24 10:24*	*1*

Client Sample ID: SW-2.0-4.1 Lab Sample ID: 880-39246-2

Date Collected: 02/06/24 11:29 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 12:26	02/17/24 11:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/15/24 12:26	02/17/24 11:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/15/24 12:26	02/17/24 11:10	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		02/15/24 12:26	02/17/24 11:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/15/24 12:26	02/17/24 11:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/15/24 12:26	02/17/24 11:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*02/15/24 12:26*	*02/17/24 11:10*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*02/15/24 12:26*	*02/17/24 11:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/17/24 11:10	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Client Sample ID: SW-2.0-4.1 Lab Sample ID: 880-39246-2

Date Collected: 02/06/24 11:29 **Matrix: Solid**
Date Received: 02/12/24 12:30

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			02/17/24 11:31	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.5	U	50.5		mg/Kg		02/13/24 12:58	02/17/24 11:31	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		02/13/24 12:58	02/17/24 11:31	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		02/13/24 12:58	02/17/24 11:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*128*		*70 - 130*	*02/13/24 12:58*	*02/17/24 11:31*	*1*
o-Terphenyl (Surr)	*107*		*70 - 130*	*02/13/24 12:58*	*02/17/24 11:31*	*1*

Client Sample ID: SW-3,0-4.1 Lab Sample ID: 880-39246-3

Date Collected: 02/06/24 14:59 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 12:26	02/17/24 11:31	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/15/24 12:26	02/17/24 11:31	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/15/24 12:26	02/17/24 11:31	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		02/15/24 12:26	02/17/24 11:31	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/15/24 12:26	02/17/24 11:31	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/15/24 12:26	02/17/24 11:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*02/15/24 12:26*	*02/17/24 11:31*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*02/15/24 12:26*	*02/17/24 11:31*	*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			02/17/24 11:31	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			02/17/24 11:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.9	U	49.9		mg/Kg		02/13/24 12:58	02/17/24 11:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/13/24 12:58	02/17/24 11:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/13/24 12:58	02/17/24 11:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*117*		*70 - 130*	*02/13/24 12:58*	*02/17/24 11:53*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*02/13/24 12:58*	*02/17/24 11:53*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C-12,0-4.1 — Lab Sample ID: 880-39246-4

Date Collected: 02/07/24 09:47 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:52	02/20/24 01:25	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/15/24 14:52	02/20/24 01:25	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/15/24 14:52	02/20/24 01:25	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		02/15/24 14:52	02/20/24 01:25	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/15/24 14:52	02/20/24 01:25	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/15/24 14:52	02/20/24 01:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*02/15/24 14:52*	*02/20/24 01:25*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*02/15/24 14:52*	*02/20/24 01:25*	*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			02/20/24 01:25	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/17/24 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.0	U	50.0		mg/Kg		02/13/24 12:58	02/17/24 12:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/13/24 12:58	02/17/24 12:15	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/13/24 12:58	02/17/24 12:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*108*		*70 - 130*	*02/13/24 12:58*	*02/17/24 12:15*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*02/13/24 12:58*	*02/17/24 12:15*	*1*

Client Sample ID: SW-4,0-4.1 — Lab Sample ID: 880-39246-5

Date Collected: 02/07/24 09:48 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:52	02/20/24 01:45	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/15/24 14:52	02/20/24 01:45	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/15/24 14:52	02/20/24 01:45	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		02/15/24 14:52	02/20/24 01:45	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/15/24 14:52	02/20/24 01:45	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		02/15/24 14:52	02/20/24 01:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*02/15/24 14:52*	*02/20/24 01:45*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*02/15/24 14:52*	*02/20/24 01:45*	*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			02/20/24 01:45	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Client Sample ID: SW-4,0-4.1 Lab Sample ID: 880-39246-5
Date Collected: 02/07/24 09:48 **Matrix: Solid**
Date Received: 02/12/24 12:30

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			02/17/24 12:38	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.0	U	50.0		mg/Kg		02/13/24 12:58	02/17/24 12:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/13/24 12:58	02/17/24 12:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/13/24 12:58	02/17/24 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*02/13/24 12:58*	*02/17/24 12:38*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*02/13/24 12:58*	*02/17/24 12:38*	*1*

Client Sample ID: SW-5,0-4.1 Lab Sample ID: 880-39246-6
Date Collected: 02/07/24 11:29 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:52	02/20/24 02:06	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/15/24 14:52	02/20/24 02:06	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/15/24 14:52	02/20/24 02:06	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		02/15/24 14:52	02/20/24 02:06	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/15/24 14:52	02/20/24 02:06	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		02/15/24 14:52	02/20/24 02:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*02/15/24 14:52*	*02/20/24 02:06*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*02/15/24 14:52*	*02/20/24 02:06*	*1*

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			02/20/24 02:06	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			02/17/24 13:00	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.6	U	49.6		mg/Kg		02/13/24 12:58	02/17/24 13:00	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		02/13/24 12:58	02/17/24 13:00	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		02/13/24 12:58	02/17/24 13:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*138*	*S1+*	*70 - 130*	*02/13/24 12:58*	*02/17/24 13:00*	*1*
o-Terphenyl (Surr)	*115*		*70 - 130*	*02/13/24 12:58*	*02/17/24 13:00*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C-4,0-4.1 — Lab Sample ID: 880-39246-7

Date Collected: 02/08/24 09:49 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:52	02/20/24 02:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/15/24 14:52	02/20/24 02:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/15/24 14:52	02/20/24 02:27	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		02/15/24 14:52	02/20/24 02:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/15/24 14:52	02/20/24 02:27	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/15/24 14:52	02/20/24 02:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*02/15/24 14:52*	*02/20/24 02:27*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*02/15/24 14:52*	*02/20/24 02:27*	*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			02/20/24 02:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			02/17/24 13:22	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.2	U	50.2		mg/Kg		02/13/24 12:58	02/17/24 13:22	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		02/13/24 12:58	02/17/24 13:22	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		02/13/24 12:58	02/17/24 13:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*133*	*S1+*	*70 - 130*	*02/13/24 12:58*	*02/17/24 13:22*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*02/13/24 12:58*	*02/17/24 13:22*	*1*

Client Sample ID: C-63,0-4.1 — Lab Sample ID: 880-39246-8

Date Collected: 02/08/24 10:08 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:52	02/20/24 02:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/15/24 14:52	02/20/24 02:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/15/24 14:52	02/20/24 02:47	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		02/15/24 14:52	02/20/24 02:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/15/24 14:52	02/20/24 02:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/15/24 14:52	02/20/24 02:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*02/15/24 14:52*	*02/20/24 02:47*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*02/15/24 14:52*	*02/20/24 02:47*	*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			02/20/24 02:47	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C-63,0-4.1 Lab Sample ID: 880-39246-8

Date Collected: 02/08/24 10:08 **Matrix: Solid**
Date Received: 02/12/24 12:30

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			02/17/24 13:44	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.1	U	50.1		mg/Kg		02/13/24 12:58	02/17/24 13:44	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		02/13/24 12:58	02/17/24 13:44	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		02/13/24 12:58	02/17/24 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*120*		*70 - 130*	*02/13/24 12:58*	*02/17/24 13:44*	*1*
o-Terphenyl (Surr)	*100*		*70 - 130*	*02/13/24 12:58*	*02/17/24 13:44*	*1*

Client Sample ID: C-2,0-4.1 Lab Sample ID: 880-39246-9

Date Collected: 02/08/24 10:36 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:52	02/20/24 03:08	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/15/24 14:52	02/20/24 03:08	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/15/24 14:52	02/20/24 03:08	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		02/15/24 14:52	02/20/24 03:08	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/15/24 14:52	02/20/24 03:08	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/15/24 14:52	02/20/24 03:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*02/15/24 14:52*	*02/20/24 03:08*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*02/15/24 14:52*	*02/20/24 03:08*	*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			02/20/24 03:08	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			02/17/24 14:06	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.5	U	50.5		mg/Kg		02/13/24 12:58	02/17/24 14:06	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		02/13/24 12:58	02/17/24 14:06	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		02/13/24 12:58	02/17/24 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*129*		*70 - 130*	*02/13/24 12:58*	*02/17/24 14:06*	*1*
o-Terphenyl (Surr)	*106*		*70 - 130*	*02/13/24 12:58*	*02/17/24 14:06*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Client Sample ID: SW-8.0-4.1 Lab Sample ID: 880-39246-10

Date Collected: 02/08/24 11:32 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:52	02/20/24 03:28	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/15/24 14:52	02/20/24 03:28	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/15/24 14:52	02/20/24 03:28	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		02/15/24 14:52	02/20/24 03:28	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/15/24 14:52	02/20/24 03:28	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		02/15/24 14:52	02/20/24 03:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*02/15/24 14:52*	*02/20/24 03:28*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*02/15/24 14:52*	*02/20/24 03:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			02/20/24 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			02/17/24 14:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.9	U	49.9		mg/Kg		02/13/24 12:58	02/17/24 14:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/13/24 12:58	02/17/24 14:29	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/13/24 12:58	02/17/24 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*114*		*70 - 130*	*02/13/24 12:58*	*02/17/24 14:29*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*02/13/24 12:58*	*02/17/24 14:29*	*1*

Client Sample ID: C-59,0-4.1 Lab Sample ID: 880-39246-11

Date Collected: 02/08/24 13:33 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:52	02/20/24 04:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/15/24 14:52	02/20/24 04:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/15/24 14:52	02/20/24 04:52	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		02/15/24 14:52	02/20/24 04:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/15/24 14:52	02/20/24 04:52	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/15/24 14:52	02/20/24 04:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*02/15/24 14:52*	*02/20/24 04:52*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*02/15/24 14:52*	*02/20/24 04:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/20/24 04:52	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C-59,0-4.1 Lab Sample ID: 880-39246-11

Date Collected: 02/08/24 13:33 **Matrix: Solid**
Date Received: 02/12/24 12:30

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			02/17/24 15:13	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.9	U	49.9		mg/Kg		02/13/24 12:58	02/17/24 15:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/13/24 12:58	02/17/24 15:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/13/24 12:58	02/17/24 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*02/13/24 12:58*	*02/17/24 15:13*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*02/13/24 12:58*	*02/17/24 15:13*	*1*

Client Sample ID: C-19,0-4.1 Lab Sample ID: 880-39246-12

Date Collected: 02/08/24 14:16 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:52	02/20/24 05:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/15/24 14:52	02/20/24 05:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/15/24 14:52	02/20/24 05:13	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		02/15/24 14:52	02/20/24 05:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/15/24 14:52	02/20/24 05:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/15/24 14:52	02/20/24 05:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*02/15/24 14:52*	*02/20/24 05:13*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*02/15/24 14:52*	*02/20/24 05:13*	*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			02/20/24 05:13	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			02/17/24 15:35	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.0	U	50.0		mg/Kg		02/13/24 12:58	02/17/24 15:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/13/24 12:58	02/17/24 15:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/13/24 12:58	02/17/24 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*119*		*70 - 130*	*02/13/24 12:58*	*02/17/24 15:35*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*02/13/24 12:58*	*02/17/24 15:35*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Client Sample ID: SW-7,0-4.1 Lab Sample ID: 880-39246-13

Date Collected: 02/08/24 14:17 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:52	02/20/24 05:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/15/24 14:52	02/20/24 05:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/15/24 14:52	02/20/24 05:33	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		02/15/24 14:52	02/20/24 05:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/15/24 14:52	02/20/24 05:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/15/24 14:52	02/20/24 05:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*02/15/24 14:52*	*02/20/24 05:33*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*02/15/24 14:52*	*02/20/24 05:33*	*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			02/20/24 05:33	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			02/17/24 15:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.8	U	49.8		mg/Kg		02/13/24 12:58	02/17/24 15:58	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/13/24 12:58	02/17/24 15:58	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/13/24 12:58	02/17/24 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*119*		*70 - 130*	*02/13/24 12:58*	*02/17/24 15:58*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*02/13/24 12:58*	*02/17/24 15:58*	*1*

Client Sample ID: SW-6,0-4.1 Lab Sample ID: 880-39246-14

Date Collected: 02/09/24 08:32 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:52	02/20/24 05:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/15/24 14:52	02/20/24 05:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/15/24 14:52	02/20/24 05:54	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		02/15/24 14:52	02/20/24 05:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/15/24 14:52	02/20/24 05:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/15/24 14:52	02/20/24 05:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*02/15/24 14:52*	*02/20/24 05:54*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*02/15/24 14:52*	*02/20/24 05:54*	*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			02/20/24 05:54	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Client Sample ID: SW-6,0-4.1 Lab Sample ID: 880-39246-14

Date Collected: 02/09/24 08:32 **Matrix: Solid**
Date Received: 02/12/24 12:30

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			02/17/24 16:20	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.6	U	49.6		mg/Kg		02/13/24 12:58	02/17/24 16:20	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		02/13/24 12:58	02/17/24 16:20	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		02/13/24 12:58	02/17/24 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*108*		*70 - 130*	*02/13/24 12:58*	*02/17/24 16:20*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*02/13/24 12:58*	*02/17/24 16:20*	*1*

Client Sample ID: C-116,4.1 Lab Sample ID: 880-39246-15

Date Collected: 02/09/24 08:00 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:52	02/20/24 06:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/15/24 14:52	02/20/24 06:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/15/24 14:52	02/20/24 06:15	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		02/15/24 14:52	02/20/24 06:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/15/24 14:52	02/20/24 06:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/15/24 14:52	02/20/24 06:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*02/15/24 14:52*	*02/20/24 06:15*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*02/15/24 14:52*	*02/20/24 06:15*	*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			02/20/24 06:15	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			02/17/24 16:43	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.6	U	49.6		mg/Kg		02/13/24 12:58	02/17/24 16:43	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		02/13/24 12:58	02/17/24 16:43	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		02/13/24 12:58	02/17/24 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*02/13/24 12:58*	*02/17/24 16:43*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*02/13/24 12:58*	*02/17/24 16:43*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C-117,4.1 — Lab Sample ID: 880-39246-16

Date Collected: 02/09/24 09:02 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:52	02/20/24 06:35	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/15/24 14:52	02/20/24 06:35	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/15/24 14:52	02/20/24 06:35	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		02/15/24 14:52	02/20/24 06:35	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/15/24 14:52	02/20/24 06:35	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		02/15/24 14:52	02/20/24 06:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*02/15/24 14:52*	*02/20/24 06:35*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*02/15/24 14:52*	*02/20/24 06:35*	*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			02/20/24 06:35	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			02/17/24 17:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.8	U	49.8		mg/Kg		02/13/24 12:58	02/17/24 17:05	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/13/24 12:58	02/17/24 17:05	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/13/24 12:58	02/17/24 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*98*		*70 - 130*	*02/13/24 12:58*	*02/17/24 17:05*	*1*
o-Terphenyl (Surr)	*82*		*70 - 130*	*02/13/24 12:58*	*02/17/24 17:05*	*1*

Client Sample ID: C-118,4.1 — Lab Sample ID: 880-39246-17

Date Collected: 02/09/24 09:09 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:52	02/20/24 06:56	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/15/24 14:52	02/20/24 06:56	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/15/24 14:52	02/20/24 06:56	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		02/15/24 14:52	02/20/24 06:56	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/15/24 14:52	02/20/24 06:56	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/15/24 14:52	02/20/24 06:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*02/15/24 14:52*	*02/20/24 06:56*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*02/15/24 14:52*	*02/20/24 06:56*	*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			02/20/24 06:56	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C-118,4.1 — Lab Sample ID: 880-39246-17

Date Collected: 02/09/24 09:09 **Matrix: Solid**
Date Received: 02/12/24 12:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			02/17/24 17:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.3	U	50.3	mg/Kg		02/13/24 12:58	02/17/24 17:27	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		02/13/24 12:58	02/17/24 17:27	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		02/13/24 12:58	02/17/24 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*02/13/24 12:58*	*02/17/24 17:27*	*1*
o-Terphenyl (Surr)	*79*		*70 - 130*	*02/13/24 12:58*	*02/17/24 17:27*	*1*

Client Sample ID: C-119,4.1 — Lab Sample ID: 880-39246-18

Date Collected: 02/09/24 09:06 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:52	02/20/24 07:17	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/15/24 14:52	02/20/24 07:17	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/15/24 14:52	02/20/24 07:17	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		02/15/24 14:52	02/20/24 07:17	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/15/24 14:52	02/20/24 07:17	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		02/15/24 14:52	02/20/24 07:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*02/15/24 14:52*	*02/20/24 07:17*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*02/15/24 14:52*	*02/20/24 07:17*	*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			02/20/24 07:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			02/17/24 17:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.5	U	50.5	mg/Kg		02/13/24 12:58	02/17/24 17:50	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		02/13/24 12:58	02/17/24 17:50	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		02/13/24 12:58	02/17/24 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*130*		*70 - 130*	*02/13/24 12:58*	*02/17/24 17:50*	*1*
o-Terphenyl (Surr)	*108*		*70 - 130*	*02/13/24 12:58*	*02/17/24 17:50*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C-120,4.1 — Lab Sample ID: 880-39246-19

Date Collected: 02/09/24 09:08 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:52	02/20/24 07:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/15/24 14:52	02/20/24 07:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/15/24 14:52	02/20/24 07:37	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		02/15/24 14:52	02/20/24 07:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/15/24 14:52	02/20/24 07:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/15/24 14:52	02/20/24 07:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*02/15/24 14:52*	*02/20/24 07:37*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*02/15/24 14:52*	*02/20/24 07:37*	*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			02/20/24 07:37	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			02/17/24 18:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.1	U	50.1		mg/Kg		02/13/24 12:58	02/17/24 18:12	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		02/13/24 12:58	02/17/24 18:12	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		02/13/24 12:58	02/17/24 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*127*		*70 - 130*	*02/13/24 12:58*	*02/17/24 18:12*	*1*
o-Terphenyl (Surr)	*105*		*70 - 130*	*02/13/24 12:58*	*02/17/24 18:12*	*1*

Client Sample ID: C-212,4.1 — Lab Sample ID: 880-39246-20

Date Collected: 02/09/24 09:10 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:52	02/20/24 07:58	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/15/24 14:52	02/20/24 07:58	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/15/24 14:52	02/20/24 07:58	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		02/15/24 14:52	02/20/24 07:58	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/15/24 14:52	02/20/24 07:58	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/15/24 14:52	02/20/24 07:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*02/15/24 14:52*	*02/20/24 07:58*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*02/15/24 14:52*	*02/20/24 07:58*	*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			02/20/24 07:58	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C-212,4.1 Lab Sample ID: 880-39246-20
Date Collected: 02/09/24 09:10 **Matrix: Solid**
Date Received: 02/12/24 12:30

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			02/17/24 18:34	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.4	U	50.4		mg/Kg		02/13/24 12:58	02/17/24 18:34	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		02/13/24 12:58	02/17/24 18:34	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		02/13/24 12:58	02/17/24 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*128*		*70 - 130*	*02/13/24 12:58*	*02/17/24 18:34*	*1*
o-Terphenyl (Surr)	*107*		*70 - 130*	*02/13/24 12:58*	*02/17/24 18:34*	*1*

Client Sample ID: C-122,4.1 Lab Sample ID: 880-39246-21
Date Collected: 02/09/24 09:12 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:55	02/19/24 12:16	1
Toluene	<0.00199	U *+ F1	0.00199		mg/Kg		02/15/24 14:55	02/19/24 12:16	1
Ethylbenzene	<0.00199	U *+ F1	0.00199		mg/Kg		02/15/24 14:55	02/19/24 12:16	1
m,p-Xylenes	<0.00398	U *+ F1 *-*1	0.00398		mg/Kg		02/15/24 14:55	02/19/24 12:16	1
o-Xylene	<0.00199	U *+ F1	0.00199		mg/Kg		02/15/24 14:55	02/19/24 12:16	1
Xylenes, Total	<0.00398	U *+ F1 *-*1	0.00398		mg/Kg		02/15/24 14:55	02/19/24 12:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*231*	*S1+*	*70 - 130*	*02/15/24 14:55*	*02/19/24 12:16*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*02/15/24 14:55*	*02/19/24 12:16*	*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			02/19/24 12:16	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			02/17/24 20:25	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.9	U	49.9		mg/Kg		02/13/24 13:00	02/17/24 20:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U F2	49.9		mg/Kg		02/13/24 13:00	02/17/24 20:25	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/13/24 13:00	02/17/24 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*127*		*70 - 130*	*02/13/24 13:00*	*02/17/24 20:25*	*1*
o-Terphenyl (Surr)	*107*		*70 - 130*	*02/13/24 13:00*	*02/17/24 20:25*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C-123,4.1 — Lab Sample ID: 880-39246-22

Date Collected: 02/09/24 09:14 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:55	02/19/24 12:42	1
Toluene	<0.00198	U *+	0.00198		mg/Kg		02/15/24 14:55	02/19/24 12:42	1
Ethylbenzene	<0.00198	U *+	0.00198		mg/Kg		02/15/24 14:55	02/19/24 12:42	1
m,p-Xylenes	<0.00396	U *+ *- *1	0.00396		mg/Kg		02/15/24 14:55	02/19/24 12:42	1
o-Xylene	<0.00198	U *+	0.00198		mg/Kg		02/15/24 14:55	02/19/24 12:42	1
Xylenes, Total	<0.00396	U *+ *- *1	0.00396		mg/Kg		02/15/24 14:55	02/19/24 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*186*	*S1+*	*70 - 130*	*02/15/24 14:55*	*02/19/24 12:42*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*02/15/24 14:55*	*02/19/24 12:42*	*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			02/19/24 12:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			02/17/24 21:31	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.5	U	50.5		mg/Kg		02/13/24 13:00	02/17/24 21:31	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		02/13/24 13:00	02/17/24 21:31	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		02/13/24 13:00	02/17/24 21:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*111*		*70 - 130*	*02/13/24 13:00*	*02/17/24 21:31*	*1*
o-Terphenyl (Surr)	*90*		*70 - 130*	*02/13/24 13:00*	*02/17/24 21:31*	*1*

Client Sample ID: C-124,4.1 — Lab Sample ID: 880-39246-23

Date Collected: 02/09/24 09:16 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:55	02/19/24 13:08	1
Toluene	<0.00202	U *+	0.00202		mg/Kg		02/15/24 14:55	02/19/24 13:08	1
Ethylbenzene	<0.00202	U *+	0.00202		mg/Kg		02/15/24 14:55	02/19/24 13:08	1
m,p-Xylenes	<0.00404	U *+ *- *1	0.00404		mg/Kg		02/15/24 14:55	02/19/24 13:08	1
o-Xylene	<0.00202	U *+	0.00202		mg/Kg		02/15/24 14:55	02/19/24 13:08	1
Xylenes, Total	<0.00404	U *+ *- *1	0.00404		mg/Kg		02/15/24 14:55	02/19/24 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*246*	*S1+*	*70 - 130*	*02/15/24 14:55*	*02/19/24 13:08*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*02/15/24 14:55*	*02/19/24 13:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			02/19/24 13:08	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C-124,4.1 Lab Sample ID: 880-39246-23
Date Collected: 02/09/24 09:16 **Matrix: Solid**
Date Received: 02/12/24 12:30

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			02/17/24 21:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.0	U	50.0		mg/Kg		02/13/24 13:00	02/17/24 21:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/13/24 13:00	02/17/24 21:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/13/24 13:00	02/17/24 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*124*		*70 - 130*	*02/13/24 13:00*	*02/17/24 21:53*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*02/13/24 13:00*	*02/17/24 21:53*	*1*

Client Sample ID: C-125,4.1 Lab Sample ID: 880-39246-24
Date Collected: 02/09/24 09:18 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:55	02/19/24 13:35	1
Toluene	<0.00201	U *+	0.00201		mg/Kg		02/15/24 14:55	02/19/24 13:35	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		02/15/24 14:55	02/19/24 13:35	1
m,p-Xylenes	<0.00402	U *+ *- *1	0.00402		mg/Kg		02/15/24 14:55	02/19/24 13:35	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		02/15/24 14:55	02/19/24 13:35	1
Xylenes, Total	<0.00402	U *+ *- *1	0.00402		mg/Kg		02/15/24 14:55	02/19/24 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*261*	*S1+*	*70 - 130*	*02/15/24 14:55*	*02/19/24 13:35*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*02/15/24 14:55*	*02/19/24 13:35*	*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			02/19/24 13:35	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			02/17/24 22:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.9	U	49.9		mg/Kg		02/13/24 13:00	02/17/24 22:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/13/24 13:00	02/17/24 22:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/13/24 13:00	02/17/24 22:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*02/13/24 13:00*	*02/17/24 22:15*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*02/13/24 13:00*	*02/17/24 22:15*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C-126,4.1 — Lab Sample ID: 880-39246-25

Date Collected: 02/09/24 09:20 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:55	02/19/24 14:01	1
Toluene	<0.00202	U *+	0.00202		mg/Kg		02/15/24 14:55	02/19/24 14:01	1
Ethylbenzene	<0.00202	U *+	0.00202		mg/Kg		02/15/24 14:55	02/19/24 14:01	1
m,p-Xylenes	<0.00403	U *+ *- *1	0.00403		mg/Kg		02/15/24 14:55	02/19/24 14:01	1
o-Xylene	<0.00202	U *+	0.00202		mg/Kg		02/15/24 14:55	02/19/24 14:01	1
Xylenes, Total	<0.00403	U *+ *- *1	0.00403		mg/Kg		02/15/24 14:55	02/19/24 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*238*	*S1+*	*70 - 130*	*02/15/24 14:55*	*02/19/24 14:01*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*02/15/24 14:55*	*02/19/24 14:01*	*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			02/19/24 14:01	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			02/17/24 22:37	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.1	U	50.1		mg/Kg		02/13/24 13:00	02/17/24 22:37	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		02/13/24 13:00	02/17/24 22:37	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		02/13/24 13:00	02/17/24 22:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*123*		*70 - 130*	*02/13/24 13:00*	*02/17/24 22:37*	*1*
o-Terphenyl (Surr)	*104*		*70 - 130*	*02/13/24 13:00*	*02/17/24 22:37*	*1*

Client Sample ID: C-127,4.1 — Lab Sample ID: 880-39246-26

Date Collected: 02/09/24 09:22 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:55	02/19/24 14:28	1
Toluene	<0.00198	U *+	0.00198		mg/Kg		02/15/24 14:55	02/19/24 14:28	1
Ethylbenzene	<0.00198	U *+	0.00198		mg/Kg		02/15/24 14:55	02/19/24 14:28	1
m,p-Xylenes	<0.00397	U *+ *- *1	0.00397		mg/Kg		02/15/24 14:55	02/19/24 14:28	1
o-Xylene	<0.00198	U *+	0.00198		mg/Kg		02/15/24 14:55	02/19/24 14:28	1
Xylenes, Total	<0.00397	U *+ *- *1	0.00397		mg/Kg		02/15/24 14:55	02/19/24 14:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*249*	*S1+*	*70 - 130*	*02/15/24 14:55*	*02/19/24 14:28*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*02/15/24 14:55*	*02/19/24 14:28*	*1*

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			02/19/24 14:28	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C-127,4.1 Lab Sample ID: 880-39246-26
Date Collected: 02/09/24 09:22 **Matrix: Solid**
Date Received: 02/12/24 12:30

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			02/17/24 22:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.3	U	50.3		mg/Kg		02/13/24 13:00	02/17/24 22:59	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		02/13/24 13:00	02/17/24 22:59	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		02/13/24 13:00	02/17/24 22:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*116*		*70 - 130*	*02/13/24 13:00*	*02/17/24 22:59*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*02/13/24 13:00*	*02/17/24 22:59*	*1*

Client Sample ID: C-128,4.1 Lab Sample ID: 880-39246-27
Date Collected: 02/09/24 09:24 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:55	02/19/24 14:54	1
Toluene	<0.00200	U *+	0.00200		mg/Kg		02/15/24 14:55	02/19/24 14:54	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		02/15/24 14:55	02/19/24 14:54	1
m,p-Xylenes	<0.00399	U *+ *- *1	0.00399		mg/Kg		02/15/24 14:55	02/19/24 14:54	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		02/15/24 14:55	02/19/24 14:54	1
Xylenes, Total	<0.00399	U *+ *- *1	0.00399		mg/Kg		02/15/24 14:55	02/19/24 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*238*	*S1+*	*70 - 130*	*02/15/24 14:55*	*02/19/24 14:54*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*02/15/24 14:55*	*02/19/24 14:54*	*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			02/19/24 14:54	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			02/17/24 23:21	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.3	U	50.3		mg/Kg		02/13/24 13:00	02/17/24 23:21	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		02/13/24 13:00	02/17/24 23:21	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		02/13/24 13:00	02/17/24 23:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*139*	*S1+*	*70 - 130*	*02/13/24 13:00*	*02/17/24 23:21*	*1*
o-Terphenyl (Surr)	*117*		*70 - 130*	*02/13/24 13:00*	*02/17/24 23:21*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C-129,4.1 — Lab Sample ID: 880-39246-28

Date Collected: 02/09/24 09:26 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:55	02/19/24 15:21	1
Toluene	<0.00199	U *+	0.00199		mg/Kg		02/15/24 14:55	02/19/24 15:21	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		02/15/24 14:55	02/19/24 15:21	1
m,p-Xylenes	<0.00398	U *+ *- *1	0.00398		mg/Kg		02/15/24 14:55	02/19/24 15:21	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		02/15/24 14:55	02/19/24 15:21	1
Xylenes, Total	<0.00398	U *+ *- *1	0.00398		mg/Kg		02/15/24 14:55	02/19/24 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*206*	*S1+*	*70 - 130*	*02/15/24 14:55*	*02/19/24 15:21*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*02/15/24 14:55*	*02/19/24 15:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/19/24 15:21	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			02/17/24 23:43	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.4	U	50.4		mg/Kg		02/13/24 13:00	02/17/24 23:43	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		02/13/24 13:00	02/17/24 23:43	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		02/13/24 13:00	02/17/24 23:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*02/13/24 13:00*	*02/17/24 23:43*	*1*
o-Terphenyl (Surr)	*88*		*70 - 130*	*02/13/24 13:00*	*02/17/24 23:43*	*1*

Client Sample ID: C-130,4.1 — Lab Sample ID: 880-39246-29

Date Collected: 02/09/24 09:28 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:55	02/19/24 15:47	1
Toluene	<0.00198	U *+	0.00198		mg/Kg		02/15/24 14:55	02/19/24 15:47	1
Ethylbenzene	<0.00198	U *+	0.00198		mg/Kg		02/15/24 14:55	02/19/24 15:47	1
m,p-Xylenes	<0.00396	U *+ *- *1	0.00396		mg/Kg		02/15/24 14:55	02/19/24 15:47	1
o-Xylene	<0.00198	U *+	0.00198		mg/Kg		02/15/24 14:55	02/19/24 15:47	1
Xylenes, Total	<0.00396	U *+ *- *1	0.00396		mg/Kg		02/15/24 14:55	02/19/24 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*250*	*S1+*	*70 - 130*	*02/15/24 14:55*	*02/19/24 15:47*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*02/15/24 14:55*	*02/19/24 15:47*	*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			02/19/24 15:47	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C-130,4.1 Lab Sample ID: 880-39246-29
Date Collected: 02/09/24 09:28 **Matrix: Solid**
Date Received: 02/12/24 12:30

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			02/18/24 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)	<49.6	U	49.6		mg/Kg		02/13/24 13:00	02/18/24 00:04	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		02/13/24 13:00	02/18/24 00:04	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		02/13/24 13:00	02/18/24 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*02/13/24 13:00*	*02/18/24 00:04*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*02/13/24 13:00*	*02/18/24 00:04*	*1*

Client Sample ID: C-131,4.1 Lab Sample ID: 880-39246-30
Date Collected: 02/09/24 09:30 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:55	02/19/24 16:14	1
Toluene	<0.00202	U *+	0.00202		mg/Kg		02/15/24 14:55	02/19/24 16:14	1
Ethylbenzene	<0.00202	U *+	0.00202		mg/Kg		02/15/24 14:55	02/19/24 16:14	1
m,p-Xylenes	<0.00403	U *+ *- *1	0.00403		mg/Kg		02/15/24 14:55	02/19/24 16:14	1
o-Xylene	<0.00202	U *+	0.00202		mg/Kg		02/15/24 14:55	02/19/24 16:14	1
Xylenes, Total	<0.00403	U *+ *- *1	0.00403		mg/Kg		02/15/24 14:55	02/19/24 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*209*	*S1+*	*70 - 130*	*02/15/24 14:55*	*02/19/24 16:14*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*02/15/24 14:55*	*02/19/24 16:14*	*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			02/19/24 16:14	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			02/18/24 00:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.8	U	49.8		mg/Kg		02/13/24 13:00	02/18/24 00:26	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/13/24 13:00	02/18/24 00:26	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/13/24 13:00	02/18/24 00:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*112*		*70 - 130*	*02/13/24 13:00*	*02/18/24 00:26*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*02/13/24 13:00*	*02/18/24 00:26*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C-132,4.1 — Lab Sample ID: 880-39246-31

Date Collected: 02/09/24 09:32 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:55	02/19/24 18:01	1
Toluene	<0.00200	U *+	0.00200		mg/Kg		02/15/24 14:55	02/19/24 18:01	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		02/15/24 14:55	02/19/24 18:01	1
m,p-Xylenes	<0.00401	U *+ *- *1	0.00401		mg/Kg		02/15/24 14:55	02/19/24 18:01	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		02/15/24 14:55	02/19/24 18:01	1
Xylenes, Total	<0.00401	U *+ *- *1	0.00401		mg/Kg		02/15/24 14:55	02/19/24 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*166*	*S1+*	*70 - 130*	*02/15/24 14:55*	*02/19/24 18:01*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*02/15/24 14:55*	*02/19/24 18:01*	*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			02/19/24 18:01	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/18/24 01:10	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.8	U	49.8		mg/Kg		02/13/24 13:00	02/18/24 01:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/13/24 13:00	02/18/24 01:10	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/13/24 13:00	02/18/24 01:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*92*		*70 - 130*	*02/13/24 13:00*	*02/18/24 01:10*	*1*
o-Terphenyl (Surr)	*76*		*70 - 130*	*02/13/24 13:00*	*02/18/24 01:10*	*1*

Client Sample ID: C-133,4.1 — Lab Sample ID: 880-39246-32

Date Collected: 02/09/24 09:34 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:55	02/19/24 18:27	1
Toluene	<0.00199	U *+	0.00199		mg/Kg		02/15/24 14:55	02/19/24 18:27	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		02/15/24 14:55	02/19/24 18:27	1
m,p-Xylenes	<0.00398	U *+ *- *1	0.00398		mg/Kg		02/15/24 14:55	02/19/24 18:27	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		02/15/24 14:55	02/19/24 18:27	1
Xylenes, Total	<0.00398	U *+ *- *1	0.00398		mg/Kg		02/15/24 14:55	02/19/24 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*240*	*S1+*	*70 - 130*	*02/15/24 14:55*	*02/19/24 18:27*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*02/15/24 14:55*	*02/19/24 18:27*	*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			02/19/24 18:27	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C-133,4.1 Lab Sample ID: 880-39246-32
Date Collected: 02/09/24 09:34 **Matrix: Solid**
Date Received: 02/12/24 12:30

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			02/18/24 01:31	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.0	U	50.0		mg/Kg		02/13/24 13:00	02/18/24 01:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/13/24 13:00	02/18/24 01:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/13/24 13:00	02/18/24 01:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*118*		*70 - 130*	*02/13/24 13:00*	*02/18/24 01:31*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*02/13/24 13:00*	*02/18/24 01:31*	*1*

Client Sample ID: C-134,4.1 Lab Sample ID: 880-39246-33
Date Collected: 02/09/24 09:36 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:55	02/19/24 18:54	1
Toluene	<0.00199	U *+	0.00199		mg/Kg		02/15/24 14:55	02/19/24 18:54	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		02/15/24 14:55	02/19/24 18:54	1
m,p-Xylenes	<0.00398	U *+ *- *1	0.00398		mg/Kg		02/15/24 14:55	02/19/24 18:54	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		02/15/24 14:55	02/19/24 18:54	1
Xylenes, Total	<0.00398	U *+ *- *1	0.00398		mg/Kg		02/15/24 14:55	02/19/24 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*240*	*S1+*	*70 - 130*	*02/15/24 14:55*	*02/19/24 18:54*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*02/15/24 14:55*	*02/19/24 18:54*	*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			02/19/24 18:54	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			02/18/24 01:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.3	U	50.3		mg/Kg		02/13/24 13:00	02/18/24 01:53	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		02/13/24 13:00	02/18/24 01:53	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		02/13/24 13:00	02/18/24 01:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*121*		*70 - 130*	*02/13/24 13:00*	*02/18/24 01:53*	*1*
o-Terphenyl (Surr)	*101*		*70 - 130*	*02/13/24 13:00*	*02/18/24 01:53*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C-135,4.1 — Lab Sample ID: 880-39246-34

Date Collected: 02/09/24 09:38 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:55	02/19/24 19:20	1
Toluene	<0.00200	U *+	0.00200		mg/Kg		02/15/24 14:55	02/19/24 19:20	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		02/15/24 14:55	02/19/24 19:20	1
m,p-Xylenes	<0.00400	U *+ *- *1	0.00400		mg/Kg		02/15/24 14:55	02/19/24 19:20	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		02/15/24 14:55	02/19/24 19:20	1
Xylenes, Total	<0.00400	U *+ *- *1	0.00400		mg/Kg		02/15/24 14:55	02/19/24 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*240*	*S1+*	*70 - 130*	*02/15/24 14:55*	*02/19/24 19:20*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*02/15/24 14:55*	*02/19/24 19:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			02/19/24 19:20	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			02/18/24 02:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.2	U	50.2		mg/Kg		02/13/24 13:00	02/18/24 02:15	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		02/13/24 13:00	02/18/24 02:15	1
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		02/13/24 13:00	02/18/24 02:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*119*		*70 - 130*	*02/13/24 13:00*	*02/18/24 02:15*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*02/13/24 13:00*	*02/18/24 02:15*	*1*

Client Sample ID: C-136,4.1 — Lab Sample ID: 880-39246-35

Date Collected: 02/09/24 09:40 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:55	02/19/24 19:47	1
Toluene	<0.00200	U *+	0.00200		mg/Kg		02/15/24 14:55	02/19/24 19:47	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		02/15/24 14:55	02/19/24 19:47	1
m,p-Xylenes	<0.00400	U *+ *- *1	0.00400		mg/Kg		02/15/24 14:55	02/19/24 19:47	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		02/15/24 14:55	02/19/24 19:47	1
Xylenes, Total	<0.00400	U *+ *- *1	0.00400		mg/Kg		02/15/24 14:55	02/19/24 19:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*248*	*S1+*	*70 - 130*	*02/15/24 14:55*	*02/19/24 19:47*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*02/15/24 14:55*	*02/19/24 19:47*	*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			02/19/24 19:47	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C-136,4.1 — Lab Sample ID: 880-39246-35
Date Collected: 02/09/24 09:40 **Matrix: Solid**
Date Received: 02/12/24 12:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			02/18/24 02:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.1	U	50.1	mg/Kg		02/13/24 13:00	02/18/24 02:37	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		02/13/24 13:00	02/18/24 02:37	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		02/13/24 13:00	02/18/24 02:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*116*		*70 - 130*	*02/13/24 13:00*	*02/18/24 02:37*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*02/13/24 13:00*	*02/18/24 02:37*	*1*

Client Sample ID: C-137,4.1 — Lab Sample ID: 880-39246-36
Date Collected: 02/09/24 09:42 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:55	02/19/24 20:13	1
Toluene	<0.00202	U *+	0.00202	mg/Kg		02/15/24 14:55	02/19/24 20:13	1
Ethylbenzene	<0.00202	U *+	0.00202	mg/Kg		02/15/24 14:55	02/19/24 20:13	1
m,p-Xylenes	<0.00404	U *+ *- *1	0.00404	mg/Kg		02/15/24 14:55	02/19/24 20:13	1
o-Xylene	<0.00202	U *+	0.00202	mg/Kg		02/15/24 14:55	02/19/24 20:13	1
Xylenes, Total	<0.00404	U *+ *- *1	0.00404	mg/Kg		02/15/24 14:55	02/19/24 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*276*	*S1+*	*70 - 130*	*02/15/24 14:55*	*02/19/24 20:13*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*02/15/24 14:55*	*02/19/24 20:13*	*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			02/19/24 20:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			02/18/24 02:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.4	U	50.4	mg/Kg		02/13/24 13:00	02/18/24 02:59	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		02/13/24 13:00	02/18/24 02:59	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		02/13/24 13:00	02/18/24 02:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*02/13/24 13:00*	*02/18/24 02:59*	*1*
o-Terphenyl (Surr)	*87*		*70 - 130*	*02/13/24 13:00*	*02/18/24 02:59*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C-138,4.1 — Lab Sample ID: 880-39246-37

Date Collected: 02/09/24 09:49 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:55	02/19/24 20:39	1
Toluene	<0.00201	U *+	0.00201		mg/Kg		02/15/24 14:55	02/19/24 20:39	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		02/15/24 14:55	02/19/24 20:39	1
m,p-Xylenes	<0.00402	U *+ *- *1	0.00402		mg/Kg		02/15/24 14:55	02/19/24 20:39	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		02/15/24 14:55	02/19/24 20:39	1
Xylenes, Total	<0.00402	U *+ *- *1	0.00402		mg/Kg		02/15/24 14:55	02/19/24 20:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*266*	*S1+*	*70 - 130*	*02/15/24 14:55*	*02/19/24 20:39*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*02/15/24 14:55*	*02/19/24 20:39*	*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			02/19/24 20:39	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			02/18/24 03:21	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.5	U	50.5		mg/Kg		02/13/24 13:00	02/18/24 03:21	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		02/13/24 13:00	02/18/24 03:21	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		02/13/24 13:00	02/18/24 03:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*111*		*70 - 130*	*02/13/24 13:00*	*02/18/24 03:21*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*02/13/24 13:00*	*02/18/24 03:21*	*1*

Client Sample ID: C-139,4.1 — Lab Sample ID: 880-39246-38

Date Collected: 02/09/24 09:46 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:55	02/19/24 21:06	1
Toluene	<0.00202	U *+	0.00202		mg/Kg		02/15/24 14:55	02/19/24 21:06	1
Ethylbenzene	<0.00202	U *+	0.00202		mg/Kg		02/15/24 14:55	02/19/24 21:06	1
m,p-Xylenes	<0.00403	U *+ *- *1	0.00403		mg/Kg		02/15/24 14:55	02/19/24 21:06	1
o-Xylene	<0.00202	U *+	0.00202		mg/Kg		02/15/24 14:55	02/19/24 21:06	1
Xylenes, Total	<0.00403	U *+ *- *1	0.00403		mg/Kg		02/15/24 14:55	02/19/24 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*280*	*S1+*	*70 - 130*	*02/15/24 14:55*	*02/19/24 21:06*	*1*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*	*02/15/24 14:55*	*02/19/24 21:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			02/19/24 21:06	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C-139,4.1 Lab Sample ID: 880-39246-38
Date Collected: 02/09/24 09:46 **Matrix: Solid**
Date Received: 02/12/24 12:30

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			02/18/24 03:43	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.9	U	49.9		mg/Kg		02/13/24 13:00	02/18/24 03:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/13/24 13:00	02/18/24 03:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/13/24 13:00	02/18/24 03:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*113*		*70 - 130*	*02/13/24 13:00*	*02/18/24 03:43*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*02/13/24 13:00*	*02/18/24 03:43*	*1*

Client Sample ID: C-140,4.1 Lab Sample ID: 880-39246-39
Date Collected: 02/09/24 09:48 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:55	02/19/24 21:32	1
Toluene	<0.00199	U *+	0.00199		mg/Kg		02/15/24 14:55	02/19/24 21:32	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		02/15/24 14:55	02/19/24 21:32	1
m,p-Xylenes	<0.00398	U *+ *- *1	0.00398		mg/Kg		02/15/24 14:55	02/19/24 21:32	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		02/15/24 14:55	02/19/24 21:32	1
Xylenes, Total	<0.00398	U *+ *- *1	0.00398		mg/Kg		02/15/24 14:55	02/19/24 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*384*	*S1+*	*70 - 130*	*02/15/24 14:55*	*02/19/24 21:32*	*1*
1,4-Difluorobenzene (Surr)	*126*		*70 - 130*	*02/15/24 14:55*	*02/19/24 21:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/19/24 21:32	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			02/18/24 04:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.8	U	49.8		mg/Kg		02/13/24 13:00	02/18/24 04:05	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/13/24 13:00	02/18/24 04:05	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/13/24 13:00	02/18/24 04:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*130*		*70 - 130*	*02/13/24 13:00*	*02/18/24 04:05*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*02/13/24 13:00*	*02/18/24 04:05*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C-141,4.1 — Lab Sample ID: 880-39246-40

Date Collected: 02/09/24 09:50 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 14:55	02/19/24 21:59	1
Toluene	<0.00198	U *+	0.00198		mg/Kg		02/15/24 14:55	02/19/24 21:59	1
Ethylbenzene	<0.00198	U *+	0.00198		mg/Kg		02/15/24 14:55	02/19/24 21:59	1
m,p-Xylenes	<0.00396	U *+ *- *1	0.00396		mg/Kg		02/15/24 14:55	02/19/24 21:59	1
o-Xylene	<0.00198	U *+	0.00198		mg/Kg		02/15/24 14:55	02/19/24 21:59	1
Xylenes, Total	<0.00396	U *+ *- *1	0.00396		mg/Kg		02/15/24 14:55	02/19/24 21:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*273*	*S1+*	*70 - 130*	*02/15/24 14:55*	*02/19/24 21:59*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*02/15/24 14:55*	*02/19/24 21:59*	*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			02/19/24 21:59	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			02/18/24 04:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.0	U	50.0		mg/Kg		02/13/24 13:00	02/18/24 04:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/13/24 13:00	02/18/24 04:27	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/13/24 13:00	02/18/24 04:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*02/13/24 13:00*	*02/18/24 04:27*	*1*
o-Terphenyl (Surr)	*85*		*70 - 130*	*02/13/24 13:00*	*02/18/24 04:27*	*1*

Client Sample ID: C-142,4.1 — Lab Sample ID: 880-39246-41

Date Collected: 02/09/24 09:52 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 15:00	02/21/24 12:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/15/24 15:00	02/21/24 12:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/15/24 15:00	02/21/24 12:38	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		02/15/24 15:00	02/21/24 12:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/15/24 15:00	02/21/24 12:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/15/24 15:00	02/21/24 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*02/15/24 15:00*	*02/21/24 12:38*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*02/15/24 15:00*	*02/21/24 12:38*	*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			02/21/24 12:38	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C-142,4.1 Lab Sample ID: 880-39246-41

Date Collected: 02/09/24 09:52 **Matrix: Solid**
Date Received: 02/12/24 12:30

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			02/17/24 10:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.6	U	49.6		mg/Kg		02/13/24 16:08	02/17/24 10:24	1
Diesel Range Organics (Over C10-C28)	<49.6	U F1	49.6		mg/Kg		02/13/24 16:08	02/17/24 10:24	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		02/13/24 16:08	02/17/24 10:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*85*		*70 - 130*	*02/13/24 16:08*	*02/17/24 10:24*	*1*
o-Terphenyl (Surr)	*88*		*70 - 130*	*02/13/24 16:08*	*02/17/24 10:24*	*1*

Client Sample ID: C-143,4.1 Lab Sample ID: 880-39246-42

Date Collected: 02/09/24 09:54 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 15:00	02/21/24 15:24	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/15/24 15:00	02/21/24 15:24	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/15/24 15:00	02/21/24 15:24	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		02/15/24 15:00	02/21/24 15:24	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/15/24 15:00	02/21/24 15:24	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/15/24 15:00	02/21/24 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*145*	*S1+*	*70 - 130*	*02/15/24 15:00*	*02/21/24 15:24*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*02/15/24 15:00*	*02/21/24 15:24*	*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			02/21/24 15:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			02/17/24 11:31	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.5	U	50.5		mg/Kg		02/13/24 16:08	02/17/24 11:31	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		02/13/24 16:08	02/17/24 11:31	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		02/13/24 16:08	02/17/24 11:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*68*	*S1-*	*70 - 130*	*02/13/24 16:08*	*02/17/24 11:31*	*1*
o-Terphenyl (Surr)	*70*		*70 - 130*	*02/13/24 16:08*	*02/17/24 11:31*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C-144.4.1 Lab Sample ID: 880-39246-43

Date Collected: 02/09/24 09:56 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 15:00	02/21/24 15:45	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/15/24 15:00	02/21/24 15:45	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/15/24 15:00	02/21/24 15:45	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		02/15/24 15:00	02/21/24 15:45	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/15/24 15:00	02/21/24 15:45	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		02/15/24 15:00	02/21/24 15:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*148*	*S1+*	*70 - 130*	*02/15/24 15:00*	*02/21/24 15:45*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*02/15/24 15:00*	*02/21/24 15:45*	*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			02/21/24 15:45	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			02/17/24 11:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.7	U	49.7		mg/Kg		02/13/24 16:08	02/17/24 11:53	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/13/24 16:08	02/17/24 11:53	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/13/24 16:08	02/17/24 11:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*85*		*70 - 130*	*02/13/24 16:08*	*02/17/24 11:53*	*1*
o-Terphenyl (Surr)	*87*		*70 - 130*	*02/13/24 16:08*	*02/17/24 11:53*	*1*

Client Sample ID: C-145,4.1 Lab Sample ID: 880-39246-44

Date Collected: 02/09/24 09:58 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 15:00	02/21/24 17:37	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/15/24 15:00	02/21/24 17:37	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/15/24 15:00	02/21/24 17:37	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		02/15/24 15:00	02/21/24 17:37	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/15/24 15:00	02/21/24 17:37	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/15/24 15:00	02/21/24 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*02/15/24 15:00*	*02/21/24 17:37*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*02/15/24 15:00*	*02/21/24 17:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/21/24 17:37	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C-145,4.1 Lab Sample ID: 880-39246-44
Date Collected: 02/09/24 09:58 **Matrix: Solid**
Date Received: 02/12/24 12:30

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			02/17/24 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.9	U	49.9		mg/Kg		02/13/24 16:08	02/17/24 12:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/13/24 16:08	02/17/24 12:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/13/24 16:08	02/17/24 12:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*81*		*70 - 130*	*02/13/24 16:08*	*02/17/24 12:15*	*1*
o-Terphenyl (Surr)	*85*		*70 - 130*	*02/13/24 16:08*	*02/17/24 12:15*	*1*

Client Sample ID: C-146,4.1 Lab Sample ID: 880-39246-45
Date Collected: 02/09/24 10:00 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 15:00	02/21/24 17:57	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/15/24 15:00	02/21/24 17:57	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/15/24 15:00	02/21/24 17:57	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		02/15/24 15:00	02/21/24 17:57	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/15/24 15:00	02/21/24 17:57	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		02/15/24 15:00	02/21/24 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*02/15/24 15:00*	*02/21/24 17:57*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*02/15/24 15:00*	*02/21/24 17:57*	*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			02/21/24 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			02/17/24 12:38	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.9	U	49.9		mg/Kg		02/13/24 16:08	02/17/24 12:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/13/24 16:08	02/17/24 12:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/13/24 16:08	02/17/24 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*65*	*S1-*	*70 - 130*	*02/13/24 16:08*	*02/17/24 12:38*	*1*
o-Terphenyl (Surr)	*66*	*S1-*	*70 - 130*	*02/13/24 16:08*	*02/17/24 12:38*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C-148,4.1 — Lab Sample ID: 880-39246-46

Date Collected: 02/09/24 10:04 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 15:00	02/21/24 18:18	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/15/24 15:00	02/21/24 18:18	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/15/24 15:00	02/21/24 18:18	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		02/15/24 15:00	02/21/24 18:18	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/15/24 15:00	02/21/24 18:18	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		02/15/24 15:00	02/21/24 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*02/15/24 15:00*	*02/21/24 18:18*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*02/15/24 15:00*	*02/21/24 18:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			02/21/24 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			02/17/24 13:00	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.8	U	49.8		mg/Kg		02/13/24 16:08	02/17/24 13:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/13/24 16:08	02/17/24 13:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/13/24 16:08	02/17/24 13:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*02/13/24 16:08*	*02/17/24 13:00*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*02/13/24 16:08*	*02/17/24 13:00*	*1*

Client Sample ID: C-149,4.1 — Lab Sample ID: 880-39246-47

Date Collected: 02/09/24 10:06 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 15:00	02/21/24 18:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:00	02/21/24 18:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:00	02/21/24 18:39	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		02/15/24 15:00	02/21/24 18:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:00	02/21/24 18:39	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/15/24 15:00	02/21/24 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*02/15/24 15:00*	*02/21/24 18:39*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*02/15/24 15:00*	*02/21/24 18:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/21/24 18:39	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C-149,4.1 Lab Sample ID: 880-39246-47
Date Collected: 02/09/24 10:06 **Matrix: Solid**
Date Received: 02/12/24 12:30

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			02/17/24 13:22	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.2	U	50.2		mg/Kg		02/13/24 16:08	02/17/24 13:22	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		02/13/24 16:08	02/17/24 13:22	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		02/13/24 16:08	02/17/24 13:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*80*		*70 - 130*	*02/13/24 16:08*	*02/17/24 13:22*	*1*
o-Terphenyl (Surr)	*84*		*70 - 130*	*02/13/24 16:08*	*02/17/24 13:22*	*1*

Client Sample ID: C-150,4.1 Lab Sample ID: 880-39246-48
Date Collected: 02/09/24 10:08 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 15:00	02/21/24 18:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/15/24 15:00	02/21/24 18:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/15/24 15:00	02/21/24 18:59	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		02/15/24 15:00	02/21/24 18:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/15/24 15:00	02/21/24 18:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/15/24 15:00	02/21/24 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*02/15/24 15:00*	*02/21/24 18:59*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*02/15/24 15:00*	*02/21/24 18:59*	*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			02/21/24 18:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			02/17/24 13:44	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.1	U	50.1		mg/Kg		02/13/24 16:08	02/17/24 13:44	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		02/13/24 16:08	02/17/24 13:44	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		02/13/24 16:08	02/17/24 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*77*		*70 - 130*	*02/13/24 16:08*	*02/17/24 13:44*	*1*
o-Terphenyl (Surr)	*81*		*70 - 130*	*02/13/24 16:08*	*02/17/24 13:44*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C-151,4.1 — Lab Sample ID: 880-39246-49

Date Collected: 02/09/24 10:10 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 15:00	02/21/24 19:20	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/15/24 15:00	02/21/24 19:20	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/15/24 15:00	02/21/24 19:20	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		02/15/24 15:00	02/21/24 19:20	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/15/24 15:00	02/21/24 19:20	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/15/24 15:00	02/21/24 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*02/15/24 15:00*	*02/21/24 19:20*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*02/15/24 15:00*	*02/21/24 19:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/21/24 19:20	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			02/17/24 14:06	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.5	U	50.5		mg/Kg		02/13/24 16:08	02/17/24 14:06	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		02/13/24 16:08	02/17/24 14:06	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		02/13/24 16:08	02/17/24 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*02/13/24 16:08*	*02/17/24 14:06*	*1*
o-Terphenyl (Surr)	*96*		*70 - 130*	*02/13/24 16:08*	*02/17/24 14:06*	*1*

Client Sample ID: C-152,4.1 — Lab Sample ID: 880-39246-50

Date Collected: 02/09/24 10:12 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 15:00	02/21/24 19:41	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/15/24 15:00	02/21/24 19:41	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/15/24 15:00	02/21/24 19:41	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		02/15/24 15:00	02/21/24 19:41	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/15/24 15:00	02/21/24 19:41	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		02/15/24 15:00	02/21/24 19:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*02/15/24 15:00*	*02/21/24 19:41*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*02/15/24 15:00*	*02/21/24 19:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			02/21/24 19:41	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C-152,4.1 — Lab Sample ID: 880-39246-50

Date Collected: 02/09/24 10:12 **Matrix: Solid**
Date Received: 02/12/24 12:30

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			02/17/24 14:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.9	U	49.9		mg/Kg		02/13/24 16:08	02/17/24 14:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/13/24 16:08	02/17/24 14:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/13/24 16:08	02/17/24 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*76*		*70 - 130*	*02/13/24 16:08*	*02/17/24 14:29*	*1*
o-Terphenyl (Surr)	*78*		*70 - 130*	*02/13/24 16:08*	*02/17/24 14:29*	*1*

Client Sample ID: C-153,4.1 — Lab Sample ID: 880-39246-51

Date Collected: 02/09/24 10:14 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 15:00	02/21/24 20:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:00	02/21/24 20:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:00	02/21/24 20:01	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		02/15/24 15:00	02/21/24 20:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:00	02/21/24 20:01	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/15/24 15:00	02/21/24 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*02/15/24 15:00*	*02/21/24 20:01*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*02/15/24 15:00*	*02/21/24 20:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/21/24 20:01	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/17/24 15:13	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.8	U	49.8		mg/Kg		02/13/24 16:08	02/17/24 15:13	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/13/24 16:08	02/17/24 15:13	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/13/24 16:08	02/17/24 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*02/13/24 16:08*	*02/17/24 15:13*	*1*
o-Terphenyl (Surr)	*97*		*70 - 130*	*02/13/24 16:08*	*02/17/24 15:13*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Client Sample ID: C-154,4.1 — Lab Sample ID: 880-39246-52

Date Collected: 02/09/24 10:16 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 15:00	02/21/24 20:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/15/24 15:00	02/21/24 20:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/15/24 15:00	02/21/24 20:22	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		02/15/24 15:00	02/21/24 20:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/15/24 15:00	02/21/24 20:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/15/24 15:00	02/21/24 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*02/15/24 15:00*	*02/21/24 20:22*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*02/15/24 15:00*	*02/21/24 20:22*	*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			02/21/24 20:22	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			02/17/24 15:35	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.6	U	49.6		mg/Kg		02/13/24 16:08	02/17/24 15:35	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		02/13/24 16:08	02/17/24 15:35	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		02/13/24 16:08	02/17/24 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*84*		*70 - 130*	*02/13/24 16:08*	*02/17/24 15:35*	*1*
o-Terphenyl (Surr)	*87*		*70 - 130*	*02/13/24 16:08*	*02/17/24 15:35*	*1*

Client Sample ID: C-147,4.1 — Lab Sample ID: 880-39246-53

Date Collected: 02/09/24 10:02 **Matrix: Solid**
Date Received: 02/12/24 12:30

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		02/15/24 15:00	02/21/24 20:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/15/24 15:00	02/21/24 20:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/15/24 15:00	02/21/24 20:43	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		02/15/24 15:00	02/21/24 20:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/15/24 15:00	02/21/24 20:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/15/24 15:00	02/21/24 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*02/15/24 15:00*	*02/21/24 20:43*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*02/15/24 15:00*	*02/21/24 20:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/21/24 20:43	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1
SDG: 19-0180-07

Client Sample ID: C-147,4.1

Date Collected: 02/09/24 10:02
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-53

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			02/17/24 15:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.2	U	50.2		mg/Kg		02/13/24 16:08	02/17/24 15:58	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		02/13/24 16:08	02/17/24 15:58	1
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		02/13/24 16:08	02/17/24 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*58*	*S1-*	*70 - 130*	*02/13/24 16:08*	*02/17/24 15:58*	*1*
o-Terphenyl (Surr)	*58*	*S1-*	*70 - 130*	*02/13/24 16:08*	*02/17/24 15:58*	*1*

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1
SDG: 19-0180-07

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)										
880-39246-1	C-5,O-4.1	82	86										
880-39246-2	SW-2.0-4.1	80	78										
880-39246-3	SW-3,0-4.1	81	78										
880-39246-4	C-12,0-4.1	102	105										
880-39246-5	SW-4,0-4.1	99	103										
880-39246-6	SW-5,0-4.1	107	102										
880-39246-7	C-4,0-4.1	102	102										
880-39246-8	C-63,0-4.1	104	105										
880-39246-9	C-2,0-4.1	102	103										
880-39246-10	SW-8.0-4.1	107	102										
880-39246-11	C-59,0-4.1	94	100										
880-39246-12	C-19,0-4.1	105	106										
880-39246-13	SW-7,0-4.1	102	104										
880-39246-14	SW-6,0-4.1	99	103										
880-39246-15	C-116,4.1	105	101										
880-39246-16	C-117,4.1	99	103										
880-39246-17	C-118,4.1	105	104										
880-39246-18	C-119,4.1	101	103										
880-39246-19	C-120,4.1	100	104										
880-39246-20	C-212,4.1	102	103										
880-39246-21	C-122,4.1	231 S1+	78										
880-39246-21 MS	C-122,4.1	219 S1+	89										
880-39246-21 MSD	C-122,4.1	215 S1+	79										
880-39246-22	C-123,4.1	186 S1+	75										
880-39246-23	C-124,4.1	246 S1+	78										
880-39246-24	C-125,4.1	261 S1+	112										
880-39246-25	C-126,4.1	238 S1+	98										
880-39246-26	C-127,4.1	249 S1+	85										
880-39246-27	C-128,4.1	238 S1+	103										
880-39246-28	C-129,4.1	206 S1+	80										
880-39246-29	C-130,4.1	250 S1+	93										
880-39246-30	C-131,4.1	209 S1+	76										
880-39246-31	C-132,4.1	166 S1+	75										
880-39246-32	C-133,4.1	240 S1+	82										
880-39246-33	C-134,4.1	240 S1+	100										
880-39246-34	C-135,4.1	240 S1+	82										
880-39246-35	C-136,4.1	248 S1+	91										
880-39246-36	C-137,4.1	276 S1+	102										
880-39246-37	C-138,4.1	266 S1+	114										
880-39246-38	C-139,4.1	280 S1+	119										
880-39246-39	C-140,4.1	384 S1+	126										
880-39246-40	C-141,4.1	273 S1+	109										
880-39246-41	C-142,4.1	92	102										
880-39246-41 MS	C-142,4.1	107	103										
880-39246-41 MSD	C-142,4.1	119	99										
880-39246-42	C-143,4.1	145 S1+	96										
880-39246-43	C-144.4.1	148 S1+	96										
880-39246-44	C-145,4.1	102	100										
880-39246-45	C-146,4.1	126	99										

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-39246-46	C-148,4.1	119	102
880-39246-47	C-149,4.1	115	106
880-39246-48	C-150,4.1	122	103
880-39246-49	C-151,4.1	127	101
880-39246-50	C-152,4.1	116	100
880-39246-51	C-153,4.1	114	105
880-39246-52	C-154,4.1	123	105
880-39246-53	C-147,4.1	128	104
LCS 880-73253/1-A	Lab Control Sample	107	122
LCS 880-73271/1-A	Lab Control Sample	142 S1+	96
LCS 880-73272/1-A	Lab Control Sample	169 S1+	82
LCS 880-73275/1-A	Lab Control Sample	107	101
LCSD 880-73253/2-A	Lab Control Sample Dup	108	117
LCSD 880-73271/2-A	Lab Control Sample Dup	114	96
LCSD 880-73272/2-A	Lab Control Sample Dup	202 S1+	87
LCSD 880-73275/2-A	Lab Control Sample Dup	116	99
MB 880-73189/5-A	Method Blank	69 S1-	79
MB 880-73253/5-A	Method Blank	73	92
MB 880-73256/5-A	Method Blank	76	100
MB 880-73271/5-A	Method Blank	75	101
MB 880-73272/5-A	Method Blank	152 S1+	83
MB 880-73275/5-A	Method Blank	127	109

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-39246-1	C-5,O-4.1	128	106
880-39246-1 MS	C-5,O-4.1	103	79
880-39246-1 MSD	C-5,O-4.1	108	83
880-39246-2	SW-2.0-4.1	128	107
880-39246-3	SW-3,0-4.1	117	96
880-39246-4	C-12,0-4.1	108	91
880-39246-5	SW-4,0-4.1	106	92
880-39246-6	SW-5,0-4.1	138 S1+	115
880-39246-7	C-4,0-4.1	133 S1+	109
880-39246-8	C-63,0-4.1	120	100
880-39246-9	C-2,0-4.1	129	106
880-39246-10	SW-8.0-4.1	114	95
880-39246-11	C-59,0-4.1	110	91
880-39246-12	C-19,0-4.1	119	98
880-39246-13	SW-7,0-4.1	119	98
880-39246-14	SW-6,0-4.1	108	91
880-39246-15	C-116,4.1	109	93
880-39246-16	C-117,4.1	98	82

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

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

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

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
880-39246-17	C-118,4.1	94	79								
880-39246-18	C-119,4.1	130	108								
880-39246-19	C-120,4.1	127	105								
880-39246-20	C-212,4.1	128	107								
880-39246-21	C-122,4.1	127	107								
880-39246-21 MS	C-122,4.1	125	94								
880-39246-21 MSD	C-122,4.1	94	71								
880-39246-22	C-123,4.1	111	90								
880-39246-23	C-124,4.1	124	103								
880-39246-24	C-125,4.1	110	92								
880-39246-25	C-126,4.1	123	104								
880-39246-26	C-127,4.1	116	102								
880-39246-27	C-128,4.1	139 S1+	117								
880-39246-28	C-129,4.1	101	88								
880-39246-29	C-130,4.1	109	92								
880-39246-30	C-131,4.1	112	93								
880-39246-31	C-132,4.1	92	76								
880-39246-32	C-133,4.1	118	99								
880-39246-33	C-134,4.1	121	101								
880-39246-34	C-135,4.1	119	99								
880-39246-35	C-136,4.1	116	99								
880-39246-36	C-137,4.1	100	87								
880-39246-37	C-138,4.1	111	92								
880-39246-38	C-139,4.1	113	94								
880-39246-39	C-140,4.1	130	111								
880-39246-40	C-141,4.1	103	85								
880-39246-41	C-142,4.1	85	88								
880-39246-41 MS	C-142,4.1	65 S1-	62 S1-								
880-39246-41 MSD	C-142,4.1	74	69 S1-								
880-39246-42	C-143,4.1	68 S1-	70								
880-39246-43	C-144.4.1	85	87								
880-39246-44	C-145,4.1	81	85								
880-39246-45	C-146,4.1	65 S1-	66 S1-								
880-39246-46	C-148,4.1	93	99								
880-39246-47	C-149,4.1	80	84								
880-39246-48	C-150,4.1	77	81								
880-39246-49	C-151,4.1	93	96								
880-39246-50	C-152,4.1	76	78								
880-39246-51	C-153,4.1	93	97								
880-39246-52	C-154,4.1	84	87								
880-39246-53	C-147,4.1	58 S1-	58 S1-								
LCS 880-73050/2-A	Lab Control Sample	129	138 S1+								
LCS 880-73051/2-A	Lab Control Sample	95	101								
LCS 880-73083/2-A	Lab Control Sample	84	86								
LCSD 880-73050/3-A	Lab Control Sample Dup	114	115								
LCSD 880-73051/3-A	Lab Control Sample Dup	111	111								
LCSD 880-73083/3-A	Lab Control Sample Dup	96	98								
MB 880-73050/1-A	Method Blank	224 S1+	196 S1+								
MB 880-73051/1-A	Method Blank	213 S1+	184 S1+								
MB 880-73083/1-A	Method Blank	187 S1+	207 S1+								

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1
SDG: 19-0180-07

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-73189/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 73320 — **Prep Batch: 73189**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/14/24 16:41	02/16/24 21:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/14/24 16:41	02/16/24 21:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/14/24 16:41	02/16/24 21:44	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		02/14/24 16:41	02/16/24 21:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/14/24 16:41	02/16/24 21:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/14/24 16:41	02/16/24 21:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*69*	*S1-*	*70 - 130*	*02/14/24 16:41*	*02/16/24 21:44*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*02/14/24 16:41*	*02/16/24 21:44*	*1*

Lab Sample ID: MB 880-73253/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 73320 — **Prep Batch: 73253**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/15/24 12:26	02/17/24 08:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/15/24 12:26	02/17/24 08:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/15/24 12:26	02/17/24 08:24	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		02/15/24 12:26	02/17/24 08:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/15/24 12:26	02/17/24 08:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/15/24 12:26	02/17/24 08:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*73*		*70 - 130*	*02/15/24 12:26*	*02/17/24 08:24*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*02/15/24 12:26*	*02/17/24 08:24*	*1*

Lab Sample ID: LCS 880-73253/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 73320 — **Prep Batch: 73253**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09136		mg/Kg		91	70 - 130		
Toluene			0.100	0.08290		mg/Kg		83	70 - 130		
Ethylbenzene			0.100	0.09001		mg/Kg		90	70 - 130		
m,p-Xylenes			0.200	0.1872		mg/Kg		94	70 - 130		
o-Xylene			0.100	0.09263		mg/Kg		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*122*		*70 - 130*

Lab Sample ID: LCSD 880-73253/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 73320 — **Prep Batch: 73253**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1037		mg/Kg		104	70 - 130	13	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1
SDG: 19-0180-07

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

Lab Sample ID: LCSD 880-73253/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 73320 — **Prep Batch: 73253**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.08674		mg/Kg		87	70 - 130	5	35
Ethylbenzene			0.100	0.1011		mg/Kg		101	70 - 130	12	35
m,p-Xylenes			0.200	0.2073		mg/Kg		104	70 - 130	10	35
o-Xylene			0.100	0.1022		mg/Kg		102	70 - 130	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*

Lab Sample ID: MB 880-73256/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 73431 — **Prep Batch: 73256**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/15/24 12:35	02/19/24 11:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/15/24 12:35	02/19/24 11:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/15/24 12:35	02/19/24 11:18	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		02/15/24 12:35	02/19/24 11:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/15/24 12:35	02/19/24 11:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/15/24 12:35	02/19/24 11:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*	*02/15/24 12:35*	*02/19/24 11:18*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*02/15/24 12:35*	*02/19/24 11:18*	*1*

Lab Sample ID: MB 880-73271/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 73431 — **Prep Batch: 73271**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/15/24 14:52	02/20/24 00:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/15/24 14:52	02/20/24 00:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/15/24 14:52	02/20/24 00:01	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		02/15/24 14:52	02/20/24 00:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/15/24 14:52	02/20/24 00:01	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/15/24 14:52	02/20/24 00:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*75*		*70 - 130*	*02/15/24 14:52*	*02/20/24 00:01*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*02/15/24 14:52*	*02/20/24 00:01*	*1*

Lab Sample ID: LCS 880-73271/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 73431 — **Prep Batch: 73271**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08443		mg/Kg		84	70 - 130		
Toluene			0.100	0.08528		mg/Kg		85	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1
SDG: 19-0180-07

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

Lab Sample ID: LCS 880-73271/1-A
Matrix: Solid
Analysis Batch: 73431

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 73271

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.100	0.1035		mg/Kg		104	70 - 130
m,p-Xylenes	0.200	0.2285		mg/Kg		114	70 - 130
o-Xylene	0.100	0.1181		mg/Kg		118	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*142*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-73271/2-A
Matrix: Solid
Analysis Batch: 73431

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 73271

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09330		mg/Kg		93	70 - 130	10	35
Toluene	0.100	0.08280		mg/Kg		83	70 - 130	3	35
Ethylbenzene	0.100	0.08836		mg/Kg		88	70 - 130	16	35
m,p-Xylenes	0.200	0.1820		mg/Kg		91	70 - 130	23	35
o-Xylene	0.100	0.09427		mg/Kg		94	70 - 130	22	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: MB 880-73272/5-A
Matrix: Solid
Analysis Batch: 73428

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 73272

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/15/24 14:55	02/19/24 11:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/15/24 14:55	02/19/24 11:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/15/24 14:55	02/19/24 11:50	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		02/15/24 14:55	02/19/24 11:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/15/24 14:55	02/19/24 11:50	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/15/24 14:55	02/19/24 11:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*152*	*S1+*	*70 - 130*	*02/15/24 14:55*	*02/19/24 11:50*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*02/15/24 14:55*	*02/19/24 11:50*	*1*

Lab Sample ID: LCS 880-73272/1-A
Matrix: Solid
Analysis Batch: 73428

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 73272

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1083		mg/Kg		108	70 - 130
Toluene	0.100	0.1232		mg/Kg		123	70 - 130
Ethylbenzene	0.100	0.1298		mg/Kg		130	70 - 130
m,p-Xylenes	0.200	0.2884	*+	mg/Kg		144	70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1
SDG: 19-0180-07

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

Lab Sample ID: LCS 880-73272/1-A
Matrix: Solid
Analysis Batch: 73428

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 73272

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1306	*+	mg/Kg		131	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*169*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*

Lab Sample ID: LCSD 880-73272/2-A
Matrix: Solid
Analysis Batch: 73428

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 73272

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1264		mg/Kg		126	70 - 130	15	35
Toluene			0.100	0.1523	*+	mg/Kg		152	70 - 130	21	35
Ethylbenzene			0.100	0.1572	*+	mg/Kg		157	70 - 130	19	35
m,p-Xylenes			0.200	0.3925	*+	mg/Kg		196	70 - 130	31	35
o-Xylene			0.100	0.1685	*+	mg/Kg		168	70 - 130	25	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*202*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*

Lab Sample ID: 880-39246-21 MS
Matrix: Solid
Analysis Batch: 73428

Client Sample ID: C-122,4.1
Prep Type: Total/NA
Prep Batch: 73272

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.100	0.1250		mg/Kg		125	70 - 130		
Toluene	<0.00199	U *+ F1	0.100	0.1455	F1	mg/Kg		145	70 - 130		
Ethylbenzene	<0.00199	U *+ F1	0.100	0.1526	F1	mg/Kg		151	70 - 130		
m,p-Xylenes	<0.00398	U *+ F1 *-1	0.200	0.3529	F1	mg/Kg		176	70 - 130		
o-Xylene	<0.00199	U *+ F1	0.100	0.1527	F1	mg/Kg		152	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*219*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: 880-39246-21 MSD
Matrix: Solid
Analysis Batch: 73428

Client Sample ID: C-122,4.1
Prep Type: Total/NA
Prep Batch: 73272

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1129		mg/Kg		112	70 - 130	10	35
Toluene	<0.00199	U *+ F1	0.101	0.1387	F1	mg/Kg		138	70 - 130	5	35
Ethylbenzene	<0.00199	U *+ F1	0.101	0.1438	F1	mg/Kg		142	70 - 130	6	35
m,p-Xylenes	<0.00398	U *+ F1 *-1	0.201	0.3294	F1	mg/Kg		164	70 - 130	7	35
o-Xylene	<0.00199	U *+ F1	0.101	0.1538	F1	mg/Kg		153	70 - 130	1	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1
SDG: 19-0180-07

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

Lab Sample ID: 880-39246-21 MSD
Matrix: Solid
Analysis Batch: 73428

Client Sample ID: C-122,4.1
Prep Type: Total/NA
Prep Batch: 73272

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	215	S1+	70 - 130
1,4-Difluorobenzene (Surr)	79		70 - 130

Lab Sample ID: MB 880-73275/5-A
Matrix: Solid
Analysis Batch: 73718

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 73275

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:00	02/21/24 12:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:00	02/21/24 12:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:00	02/21/24 12:09	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		02/15/24 15:00	02/21/24 12:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:00	02/21/24 12:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/15/24 15:00	02/21/24 12:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	02/15/24 15:00	02/21/24 12:09	1
1,4-Difluorobenzene (Surr)	109		70 - 130	02/15/24 15:00	02/21/24 12:09	1

Lab Sample ID: LCS 880-73275/1-A
Matrix: Solid
Analysis Batch: 73718

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 73275

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1238		mg/Kg		124	70 - 130		
Toluene			0.100	0.1021		mg/Kg		102	70 - 130		
Ethylbenzene			0.100	0.1226		mg/Kg		123	70 - 130		
m,p-Xylenes			0.200	0.2299		mg/Kg		115	70 - 130		
o-Xylene			0.100	0.1080		mg/Kg		108	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-73275/2-A
Matrix: Solid
Analysis Batch: 73718

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 73275

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1182		mg/Kg		118	70 - 130	5	35
Toluene			0.100	0.1056		mg/Kg		106	70 - 130	3	35
Ethylbenzene			0.100	0.1263		mg/Kg		126	70 - 130	3	35
m,p-Xylenes			0.200	0.2476		mg/Kg		124	70 - 130	7	35
o-Xylene			0.100	0.1171		mg/Kg		117	70 - 130	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1
SDG: 19-0180-07

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

Lab Sample ID: LCSD 880-73275/2-A
Matrix: Solid
Analysis Batch: 73718

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 73275

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-39246-41 MS
Matrix: Solid
Analysis Batch: 73718

Client Sample ID: C-142,4.1
Prep Type: Total/NA
Prep Batch: 73275

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.100	0.1063		mg/Kg		106	70 - 130
Toluene	<0.00199	U	0.100	0.08741		mg/Kg		87	70 - 130
Ethylbenzene	<0.00199	U	0.100	0.09905		mg/Kg		99	70 - 130
m,p-Xylenes	<0.00398	U	0.200	0.1785		mg/Kg		89	70 - 130
o-Xylene	<0.00199	U	0.100	0.08344		mg/Kg		83	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-39246-41 MSD
Matrix: Solid
Analysis Batch: 73718

Client Sample ID: C-142,4.1
Prep Type: Total/NA
Prep Batch: 73275

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1120		mg/Kg		111	70 - 130	5	35
Toluene	<0.00199	U	0.101	0.09533		mg/Kg		95	70 - 130	9	35
Ethylbenzene	<0.00199	U	0.101	0.1027		mg/Kg		102	70 - 130	4	35
m,p-Xylenes	<0.00398	U	0.201	0.2053		mg/Kg		102	70 - 130	14	35
o-Xylene	<0.00199	U	0.101	0.09952		mg/Kg		99	70 - 130	18	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-73050/1-A
Matrix: Solid
Analysis Batch: 73400

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 73050

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.0	U	50.0	mg/Kg		02/13/24 12:57	02/17/24 07:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/13/24 12:57	02/17/24 07:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/13/24 12:57	02/17/24 07:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	224	S1+	70 - 130	02/13/24 12:57	02/17/24 07:48	1
o-Terphenyl (Surr)	196	S1+	70 - 130	02/13/24 12:57	02/17/24 07:48	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1
SDG: 19-0180-07

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

Lab Sample ID: LCS 880-73050/2-A
Matrix: Solid
Analysis Batch: 73400

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 73050

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)			1000	1088		mg/Kg		109	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1092		mg/Kg		109	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*129*		*70 - 130*
o-Terphenyl (Surr)	*138*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-73050/3-A
Matrix: Solid
Analysis Batch: 73400

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 73050

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)			1000	938.0		mg/Kg		94	70 - 130	15	20
Diesel Range Organics (Over C10-C28)			1000	985.7		mg/Kg		99	70 - 130	10	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*114*		*70 - 130*
o-Terphenyl (Surr)	*115*		*70 - 130*

Lab Sample ID: 880-39246-1 MS
Matrix: Solid
Analysis Batch: 73400

Client Sample ID: C-5,O-4.1
Prep Type: Total/NA
Prep Batch: 73050

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)	<49.7	U	1010	857.4		mg/Kg		81	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.7	U	1010	985.8		mg/Kg		97	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*103*		*70 - 130*
o-Terphenyl (Surr)	*79*		*70 - 130*

Lab Sample ID: 880-39246-1 MSD
Matrix: Solid
Analysis Batch: 73400

Client Sample ID: C-5,O-4.1
Prep Type: Total/NA
Prep Batch: 73050

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)	<49.7	U	1010	892.7		mg/Kg		85	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.7	U	1010	1031		mg/Kg		101	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*108*		*70 - 130*
o-Terphenyl (Surr)	*83*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1
SDG: 19-0180-07

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

Lab Sample ID: MB 880-73051/1-A
Matrix: Solid
Analysis Batch: 73400

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 73051

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.0	U	50.0		mg/Kg		02/13/24 13:00	02/17/24 19:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/13/24 13:00	02/17/24 19:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/13/24 13:00	02/17/24 19:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*213*	*S1+*	*70 - 130*	*02/13/24 13:00*	*02/17/24 19:18*	*1*
o-Terphenyl (Surr)	*184*	*S1+*	*70 - 130*	*02/13/24 13:00*	*02/17/24 19:18*	*1*

Lab Sample ID: LCS 880-73051/2-A
Matrix: Solid
Analysis Batch: 73400

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 73051

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)			1000	859.8		mg/Kg		86	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	778.4		mg/Kg		78	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*95*		*70 - 130*
o-Terphenyl (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-73051/3-A
Matrix: Solid
Analysis Batch: 73400

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 73051

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)			1000	959.8		mg/Kg		96	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	953.5		mg/Kg		95	70 - 130	20	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*111*		*70 - 130*
o-Terphenyl (Surr)	*111*		*70 - 130*

Lab Sample ID: 880-39246-21 MS
Matrix: Solid
Analysis Batch: 73400

Client Sample ID: C-122,4.1
Prep Type: Total/NA
Prep Batch: 73051

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)	<49.9	U	1000	1033		mg/Kg		101	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F2	1000	1279		mg/Kg		126	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*125*		*70 - 130*
o-Terphenyl (Surr)	*94*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1
SDG: 19-0180-07

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

Lab Sample ID: 880-39246-21 MSD
Matrix: Solid
Analysis Batch: 73400

Client Sample ID: C-122,4.1
Prep Type: Total/NA
Prep Batch: 73051

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)	<49.9	U	1000	842.2		mg/Kg		82	70 - 130	20	20
Diesel Range Organics (Over C10-C28)	<49.9	U F2	1000	973.5	F2	mg/Kg		95	70 - 130	27	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*94*		*70 - 130*
o-Terphenyl (Surr)	*71*		*70 - 130*

Lab Sample ID: MB 880-73083/1-A
Matrix: Solid
Analysis Batch: 73402

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 73083

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.0	U	50.0		mg/Kg		02/13/24 16:07	02/17/24 07:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/13/24 16:07	02/17/24 07:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/13/24 16:07	02/17/24 07:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*187*	*S1+*	*70 - 130*	*02/13/24 16:07*	*02/17/24 07:48*	*1*
o-Terphenyl (Surr)	*207*	*S1+*	*70 - 130*	*02/13/24 16:07*	*02/17/24 07:48*	*1*

Lab Sample ID: LCS 880-73083/2-A
Matrix: Solid
Analysis Batch: 73402

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 73083

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)			1000	949.2		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	817.1		mg/Kg		82	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*84*		*70 - 130*
o-Terphenyl (Surr)	*86*		*70 - 130*

Lab Sample ID: LCSD 880-73083/3-A
Matrix: Solid
Analysis Batch: 73402

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 73083

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)			1000	803.6		mg/Kg		80	70 - 130	17	20
Diesel Range Organics (Over C10-C28)			1000	837.6		mg/Kg		84	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*96*		*70 - 130*
o-Terphenyl (Surr)	*98*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1
SDG: 19-0180-07

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

Lab Sample ID: 880-39246-41 MS
Matrix: Solid
Analysis Batch: 73402

Client Sample ID: C-142,4.1
Prep Type: Total/NA
Prep Batch: 73083

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)	<49.6	U	1010	991.8		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	<49.6	U F1	1010	615.0	F1	mg/Kg		58	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*65*	*S1-*	*70 - 130*
o-Terphenyl (Surr)	*62*	*S1-*	*70 - 130*

Lab Sample ID: 880-39246-41 MSD
Matrix: Solid
Analysis Batch: 73402

Client Sample ID: C-142,4.1
Prep Type: Total/NA
Prep Batch: 73083

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)	<49.6	U	1010	1107		mg/Kg		106	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	<49.6	U F1	1010	693.0	F1	mg/Kg		66	70 - 130	12	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*74*		*70 - 130*
o-Terphenyl (Surr)	*69*	*S1-*	*70 - 130*

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1
SDG: 19-0180-07

GC VOA

Prep Batch: 73189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-73189/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 73253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39246-1	C-5,O-4.1	Total/NA	Solid	5035	
880-39246-2	SW-2.0-4.1	Total/NA	Solid	5035	
880-39246-3	SW-3,0-4.1	Total/NA	Solid	5035	
MB 880-73253/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-73253/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-73253/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 73256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-73256/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 73271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39246-4	C-12,0-4.1	Total/NA	Solid	5035	
880-39246-5	SW-4,0-4.1	Total/NA	Solid	5035	
880-39246-6	SW-5,0-4.1	Total/NA	Solid	5035	
880-39246-7	C-4,0-4.1	Total/NA	Solid	5035	
880-39246-8	C-63,0-4.1	Total/NA	Solid	5035	
880-39246-9	C-2,0-4.1	Total/NA	Solid	5035	
880-39246-10	SW-8.0-4.1	Total/NA	Solid	5035	
880-39246-11	C-59,0-4.1	Total/NA	Solid	5035	
880-39246-12	C-19,0-4.1	Total/NA	Solid	5035	
880-39246-13	SW-7,0-4.1	Total/NA	Solid	5035	
880-39246-14	SW-6,0-4.1	Total/NA	Solid	5035	
880-39246-15	C-116,4.1	Total/NA	Solid	5035	
880-39246-16	C-117,4.1	Total/NA	Solid	5035	
880-39246-17	C-118,4.1	Total/NA	Solid	5035	
880-39246-18	C-119,4.1	Total/NA	Solid	5035	
880-39246-19	C-120,4.1	Total/NA	Solid	5035	
880-39246-20	C-212,4.1	Total/NA	Solid	5035	
MB 880-73271/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-73271/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-73271/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 73272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39246-21	C-122,4.1	Total/NA	Solid	5035	
880-39246-22	C-123,4.1	Total/NA	Solid	5035	
880-39246-23	C-124,4.1	Total/NA	Solid	5035	
880-39246-24	C-125,4.1	Total/NA	Solid	5035	
880-39246-25	C-126,4.1	Total/NA	Solid	5035	
880-39246-26	C-127,4.1	Total/NA	Solid	5035	
880-39246-27	C-128,4.1	Total/NA	Solid	5035	
880-39246-28	C-129,4.1	Total/NA	Solid	5035	
880-39246-29	C-130,4.1	Total/NA	Solid	5035	
880-39246-30	C-131,4.1	Total/NA	Solid	5035	
880-39246-31	C-132,4.1	Total/NA	Solid	5035	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1
SDG: 19-0180-07

GC VOA (Continued)

Prep Batch: 73272 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39246-32	C-133,4.1	Total/NA	Solid	5035	
880-39246-33	C-134,4.1	Total/NA	Solid	5035	
880-39246-34	C-135,4.1	Total/NA	Solid	5035	
880-39246-35	C-136,4.1	Total/NA	Solid	5035	
880-39246-36	C-137,4.1	Total/NA	Solid	5035	
880-39246-37	C-138,4.1	Total/NA	Solid	5035	
880-39246-38	C-139,4.1	Total/NA	Solid	5035	
880-39246-39	C-140,4.1	Total/NA	Solid	5035	
880-39246-40	C-141,4.1	Total/NA	Solid	5035	
MB 880-73272/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-73272/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-73272/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-39246-21 MS	C-122,4.1	Total/NA	Solid	5035	
880-39246-21 MSD	C-122,4.1	Total/NA	Solid	5035	

Prep Batch: 73275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39246-41	C-142,4.1	Total/NA	Solid	5035	
880-39246-42	C-143,4.1	Total/NA	Solid	5035	
880-39246-43	C-144.4.1	Total/NA	Solid	5035	
880-39246-44	C-145,4.1	Total/NA	Solid	5035	
880-39246-45	C-146,4.1	Total/NA	Solid	5035	
880-39246-46	C-148,4.1	Total/NA	Solid	5035	
880-39246-47	C-149,4.1	Total/NA	Solid	5035	
880-39246-48	C-150,4.1	Total/NA	Solid	5035	
880-39246-49	C-151,4.1	Total/NA	Solid	5035	
880-39246-50	C-152,4.1	Total/NA	Solid	5035	
880-39246-51	C-153,4.1	Total/NA	Solid	5035	
880-39246-52	C-154,4.1	Total/NA	Solid	5035	
880-39246-53	C-147,4.1	Total/NA	Solid	5035	
MB 880-73275/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-73275/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-73275/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-39246-41 MS	C-142,4.1	Total/NA	Solid	5035	
880-39246-41 MSD	C-142,4.1	Total/NA	Solid	5035	

Analysis Batch: 73320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39246-1	C-5,O-4.1	Total/NA	Solid	8021B	73253
880-39246-2	SW-2.0-4.1	Total/NA	Solid	8021B	73253
880-39246-3	SW-3,0-4.1	Total/NA	Solid	8021B	73253
MB 880-73189/5-A	Method Blank	Total/NA	Solid	8021B	73189
MB 880-73253/5-A	Method Blank	Total/NA	Solid	8021B	73253
LCS 880-73253/1-A	Lab Control Sample	Total/NA	Solid	8021B	73253
LCSD 880-73253/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	73253

Analysis Batch: 73428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39246-21	C-122,4.1	Total/NA	Solid	8021B	73272
880-39246-22	C-123,4.1	Total/NA	Solid	8021B	73272
880-39246-23	C-124,4.1	Total/NA	Solid	8021B	73272

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1
SDG: 19-0180-07

GC VOA (Continued)

Analysis Batch: 73428 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39246-24	C-125,4.1	Total/NA	Solid	8021B	73272
880-39246-25	C-126,4.1	Total/NA	Solid	8021B	73272
880-39246-26	C-127,4.1	Total/NA	Solid	8021B	73272
880-39246-27	C-128,4.1	Total/NA	Solid	8021B	73272
880-39246-28	C-129,4.1	Total/NA	Solid	8021B	73272
880-39246-29	C-130,4.1	Total/NA	Solid	8021B	73272
880-39246-30	C-131,4.1	Total/NA	Solid	8021B	73272
880-39246-31	C-132,4.1	Total/NA	Solid	8021B	73272
880-39246-32	C-133,4.1	Total/NA	Solid	8021B	73272
880-39246-33	C-134,4.1	Total/NA	Solid	8021B	73272
880-39246-34	C-135,4.1	Total/NA	Solid	8021B	73272
880-39246-35	C-136,4.1	Total/NA	Solid	8021B	73272
880-39246-36	C-137,4.1	Total/NA	Solid	8021B	73272
880-39246-37	C-138,4.1	Total/NA	Solid	8021B	73272
880-39246-38	C-139,4.1	Total/NA	Solid	8021B	73272
880-39246-39	C-140,4.1	Total/NA	Solid	8021B	73272
880-39246-40	C-141,4.1	Total/NA	Solid	8021B	73272
MB 880-73272/5-A	Method Blank	Total/NA	Solid	8021B	73272
LCS 880-73272/1-A	Lab Control Sample	Total/NA	Solid	8021B	73272
LCSD 880-73272/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	73272
880-39246-21 MS	C-122,4.1	Total/NA	Solid	8021B	73272
880-39246-21 MSD	C-122,4.1	Total/NA	Solid	8021B	73272

Analysis Batch: 73431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39246-4	C-12,0-4.1	Total/NA	Solid	8021B	73271
880-39246-5	SW-4,0-4.1	Total/NA	Solid	8021B	73271
880-39246-6	SW-5,0-4.1	Total/NA	Solid	8021B	73271
880-39246-7	C-4,0-4.1	Total/NA	Solid	8021B	73271
880-39246-8	C-63,0-4.1	Total/NA	Solid	8021B	73271
880-39246-9	C-2,0-4.1	Total/NA	Solid	8021B	73271
880-39246-10	SW-8.0-4.1	Total/NA	Solid	8021B	73271
880-39246-11	C-59,0-4.1	Total/NA	Solid	8021B	73271
880-39246-12	C-19,0-4.1	Total/NA	Solid	8021B	73271
880-39246-13	SW-7,0-4.1	Total/NA	Solid	8021B	73271
880-39246-14	SW-6,0-4.1	Total/NA	Solid	8021B	73271
880-39246-15	C-116,4.1	Total/NA	Solid	8021B	73271
880-39246-16	C-117,4.1	Total/NA	Solid	8021B	73271
880-39246-17	C-118,4.1	Total/NA	Solid	8021B	73271
880-39246-18	C-119,4.1	Total/NA	Solid	8021B	73271
880-39246-19	C-120,4.1	Total/NA	Solid	8021B	73271
880-39246-20	C-212,4.1	Total/NA	Solid	8021B	73271
MB 880-73256/5-A	Method Blank	Total/NA	Solid	8021B	73256
MB 880-73271/5-A	Method Blank	Total/NA	Solid	8021B	73271
LCS 880-73271/1-A	Lab Control Sample	Total/NA	Solid	8021B	73271
LCSD 880-73271/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	73271

Analysis Batch: 73591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39246-1	C-5,O-4.1	Total/NA	Solid	Total BTEX	
880-39246-2	SW-2.0-4.1	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1
SDG: 19-0180-07

GC VOA (Continued)

Analysis Batch: 73591 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39246-3	SW-3,0-4.1	Total/NA	Solid	Total BTEX	
880-39246-4	C-12,0-4.1	Total/NA	Solid	Total BTEX	
880-39246-5	SW-4,0-4.1	Total/NA	Solid	Total BTEX	
880-39246-6	SW-5,0-4.1	Total/NA	Solid	Total BTEX	
880-39246-7	C-4,0-4.1	Total/NA	Solid	Total BTEX	
880-39246-8	C-63,0-4.1	Total/NA	Solid	Total BTEX	
880-39246-9	C-2,0-4.1	Total/NA	Solid	Total BTEX	
880-39246-10	SW-8.0-4.1	Total/NA	Solid	Total BTEX	
880-39246-11	C-59,0-4.1	Total/NA	Solid	Total BTEX	
880-39246-12	C-19,0-4.1	Total/NA	Solid	Total BTEX	
880-39246-13	SW-7,0-4.1	Total/NA	Solid	Total BTEX	
880-39246-14	SW-6,0-4.1	Total/NA	Solid	Total BTEX	
880-39246-15	C-116,4.1	Total/NA	Solid	Total BTEX	
880-39246-16	C-117,4.1	Total/NA	Solid	Total BTEX	
880-39246-17	C-118,4.1	Total/NA	Solid	Total BTEX	
880-39246-18	C-119,4.1	Total/NA	Solid	Total BTEX	
880-39246-19	C-120,4.1	Total/NA	Solid	Total BTEX	
880-39246-20	C-212,4.1	Total/NA	Solid	Total BTEX	
880-39246-21	C-122,4.1	Total/NA	Solid	Total BTEX	
880-39246-22	C-123,4.1	Total/NA	Solid	Total BTEX	
880-39246-23	C-124,4.1	Total/NA	Solid	Total BTEX	
880-39246-24	C-125,4.1	Total/NA	Solid	Total BTEX	
880-39246-25	C-126,4.1	Total/NA	Solid	Total BTEX	
880-39246-26	C-127,4.1	Total/NA	Solid	Total BTEX	
880-39246-27	C-128,4.1	Total/NA	Solid	Total BTEX	
880-39246-28	C-129,4.1	Total/NA	Solid	Total BTEX	
880-39246-29	C-130,4.1	Total/NA	Solid	Total BTEX	
880-39246-30	C-131,4.1	Total/NA	Solid	Total BTEX	
880-39246-31	C-132,4.1	Total/NA	Solid	Total BTEX	
880-39246-32	C-133,4.1	Total/NA	Solid	Total BTEX	
880-39246-33	C-134,4.1	Total/NA	Solid	Total BTEX	
880-39246-34	C-135,4.1	Total/NA	Solid	Total BTEX	
880-39246-35	C-136,4.1	Total/NA	Solid	Total BTEX	
880-39246-36	C-137,4.1	Total/NA	Solid	Total BTEX	
880-39246-37	C-138,4.1	Total/NA	Solid	Total BTEX	
880-39246-38	C-139,4.1	Total/NA	Solid	Total BTEX	
880-39246-39	C-140,4.1	Total/NA	Solid	Total BTEX	
880-39246-40	C-141,4.1	Total/NA	Solid	Total BTEX	
880-39246-41	C-142,4.1	Total/NA	Solid	Total BTEX	
880-39246-42	C-143,4.1	Total/NA	Solid	Total BTEX	
880-39246-43	C-144.4.1	Total/NA	Solid	Total BTEX	
880-39246-44	C-145,4.1	Total/NA	Solid	Total BTEX	
880-39246-45	C-146,4.1	Total/NA	Solid	Total BTEX	
880-39246-46	C-148,4.1	Total/NA	Solid	Total BTEX	
880-39246-47	C-149,4.1	Total/NA	Solid	Total BTEX	
880-39246-48	C-150,4.1	Total/NA	Solid	Total BTEX	
880-39246-49	C-151,4.1	Total/NA	Solid	Total BTEX	
880-39246-50	C-152,4.1	Total/NA	Solid	Total BTEX	
880-39246-51	C-153,4.1	Total/NA	Solid	Total BTEX	
880-39246-52	C-154,4.1	Total/NA	Solid	Total BTEX	
880-39246-53	C-147,4.1	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1
SDG: 19-0180-07

GC VOA

Analysis Batch: 73718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39246-41	C-142,4.1	Total/NA	Solid	8021B	73275
880-39246-42	C-143,4.1	Total/NA	Solid	8021B	73275
880-39246-43	C-144.4.1	Total/NA	Solid	8021B	73275
880-39246-44	C-145,4.1	Total/NA	Solid	8021B	73275
880-39246-45	C-146,4.1	Total/NA	Solid	8021B	73275
880-39246-46	C-148,4.1	Total/NA	Solid	8021B	73275
880-39246-47	C-149,4.1	Total/NA	Solid	8021B	73275
880-39246-48	C-150,4.1	Total/NA	Solid	8021B	73275
880-39246-49	C-151,4.1	Total/NA	Solid	8021B	73275
880-39246-50	C-152,4.1	Total/NA	Solid	8021B	73275
880-39246-51	C-153,4.1	Total/NA	Solid	8021B	73275
880-39246-52	C-154,4.1	Total/NA	Solid	8021B	73275
880-39246-53	C-147,4.1	Total/NA	Solid	8021B	73275
MB 880-73275/5-A	Method Blank	Total/NA	Solid	8021B	73275
LCS 880-73275/1-A	Lab Control Sample	Total/NA	Solid	8021B	73275
LCSD 880-73275/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	73275
880-39246-41 MS	C-142,4.1	Total/NA	Solid	8021B	73275
880-39246-41 MSD	C-142,4.1	Total/NA	Solid	8021B	73275

GC Semi VOA

Prep Batch: 73050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39246-1	C-5,O-4.1	Total/NA	Solid	8015NM Prep	
880-39246-2	SW-2.0-4.1	Total/NA	Solid	8015NM Prep	
880-39246-3	SW-3,0-4.1	Total/NA	Solid	8015NM Prep	
880-39246-4	C-12,0-4.1	Total/NA	Solid	8015NM Prep	
880-39246-5	SW-4,0-4.1	Total/NA	Solid	8015NM Prep	
880-39246-6	SW-5,0-4.1	Total/NA	Solid	8015NM Prep	
880-39246-7	C-4,0-4.1	Total/NA	Solid	8015NM Prep	
880-39246-8	C-63,0-4.1	Total/NA	Solid	8015NM Prep	
880-39246-9	C-2,0-4.1	Total/NA	Solid	8015NM Prep	
880-39246-10	SW-8.0-4.1	Total/NA	Solid	8015NM Prep	
880-39246-11	C-59,0-4.1	Total/NA	Solid	8015NM Prep	
880-39246-12	C-19,0-4.1	Total/NA	Solid	8015NM Prep	
880-39246-13	SW-7,0-4.1	Total/NA	Solid	8015NM Prep	
880-39246-14	SW-6,0-4.1	Total/NA	Solid	8015NM Prep	
880-39246-15	C-116,4.1	Total/NA	Solid	8015NM Prep	
880-39246-16	C-117,4.1	Total/NA	Solid	8015NM Prep	
880-39246-17	C-118,4.1	Total/NA	Solid	8015NM Prep	
880-39246-18	C-119,4.1	Total/NA	Solid	8015NM Prep	
880-39246-19	C-120,4.1	Total/NA	Solid	8015NM Prep	
880-39246-20	C-212,4.1	Total/NA	Solid	8015NM Prep	
MB 880-73050/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-73050/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-73050/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-39246-1 MS	C-5,O-4.1	Total/NA	Solid	8015NM Prep	
880-39246-1 MSD	C-5,O-4.1	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1
SDG: 19-0180-07

GC Semi VOA

Prep Batch: 73051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39246-21	C-122,4.1	Total/NA	Solid	8015NM Prep	
880-39246-22	C-123,4.1	Total/NA	Solid	8015NM Prep	
880-39246-23	C-124,4.1	Total/NA	Solid	8015NM Prep	
880-39246-24	C-125,4.1	Total/NA	Solid	8015NM Prep	
880-39246-25	C-126,4.1	Total/NA	Solid	8015NM Prep	
880-39246-26	C-127,4.1	Total/NA	Solid	8015NM Prep	
880-39246-27	C-128,4.1	Total/NA	Solid	8015NM Prep	
880-39246-28	C-129,4.1	Total/NA	Solid	8015NM Prep	
880-39246-29	C-130,4.1	Total/NA	Solid	8015NM Prep	
880-39246-30	C-131,4.1	Total/NA	Solid	8015NM Prep	
880-39246-31	C-132,4.1	Total/NA	Solid	8015NM Prep	
880-39246-32	C-133,4.1	Total/NA	Solid	8015NM Prep	
880-39246-33	C-134,4.1	Total/NA	Solid	8015NM Prep	
880-39246-34	C-135,4.1	Total/NA	Solid	8015NM Prep	
880-39246-35	C-136,4.1	Total/NA	Solid	8015NM Prep	
880-39246-36	C-137,4.1	Total/NA	Solid	8015NM Prep	
880-39246-37	C-138,4.1	Total/NA	Solid	8015NM Prep	
880-39246-38	C-139,4.1	Total/NA	Solid	8015NM Prep	
880-39246-39	C-140,4.1	Total/NA	Solid	8015NM Prep	
880-39246-40	C-141,4.1	Total/NA	Solid	8015NM Prep	
MB 880-73051/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-73051/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-73051/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-39246-21 MS	C-122,4.1	Total/NA	Solid	8015NM Prep	
880-39246-21 MSD	C-122,4.1	Total/NA	Solid	8015NM Prep	

Prep Batch: 73083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39246-41	C-142,4.1	Total/NA	Solid	8015NM Prep	
880-39246-42	C-143,4.1	Total/NA	Solid	8015NM Prep	
880-39246-43	C-144.4.1	Total/NA	Solid	8015NM Prep	
880-39246-44	C-145,4.1	Total/NA	Solid	8015NM Prep	
880-39246-45	C-146,4.1	Total/NA	Solid	8015NM Prep	
880-39246-46	C-148,4.1	Total/NA	Solid	8015NM Prep	
880-39246-47	C-149,4.1	Total/NA	Solid	8015NM Prep	
880-39246-48	C-150,4.1	Total/NA	Solid	8015NM Prep	
880-39246-49	C-151,4.1	Total/NA	Solid	8015NM Prep	
880-39246-50	C-152,4.1	Total/NA	Solid	8015NM Prep	
880-39246-51	C-153,4.1	Total/NA	Solid	8015NM Prep	
880-39246-52	C-154,4.1	Total/NA	Solid	8015NM Prep	
880-39246-53	C-147,4.1	Total/NA	Solid	8015NM Prep	
MB 880-73083/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-73083/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-73083/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-39246-41 MS	C-142,4.1	Total/NA	Solid	8015NM Prep	
880-39246-41 MSD	C-142,4.1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 73400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39246-1	C-5,O-4.1	Total/NA	Solid	8015B NM	73050
880-39246-2	SW-2.0-4.1	Total/NA	Solid	8015B NM	73050

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1
SDG: 19-0180-07

GC Semi VOA (Continued)

Analysis Batch: 73400 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39246-3	SW-3,0-4.1	Total/NA	Solid	8015B NM	73050
880-39246-4	C-12,0-4.1	Total/NA	Solid	8015B NM	73050
880-39246-5	SW-4,0-4.1	Total/NA	Solid	8015B NM	73050
880-39246-6	SW-5,0-4.1	Total/NA	Solid	8015B NM	73050
880-39246-7	C-4,0-4.1	Total/NA	Solid	8015B NM	73050
880-39246-8	C-63,0-4.1	Total/NA	Solid	8015B NM	73050
880-39246-9	C-2,0-4.1	Total/NA	Solid	8015B NM	73050
880-39246-10	SW-8.0-4.1	Total/NA	Solid	8015B NM	73050
880-39246-11	C-59,0-4.1	Total/NA	Solid	8015B NM	73050
880-39246-12	C-19,0-4.1	Total/NA	Solid	8015B NM	73050
880-39246-13	SW-7,0-4.1	Total/NA	Solid	8015B NM	73050
880-39246-14	SW-6,0-4.1	Total/NA	Solid	8015B NM	73050
880-39246-15	C-116,4.1	Total/NA	Solid	8015B NM	73050
880-39246-16	C-117,4.1	Total/NA	Solid	8015B NM	73050
880-39246-17	C-118,4.1	Total/NA	Solid	8015B NM	73050
880-39246-18	C-119,4.1	Total/NA	Solid	8015B NM	73050
880-39246-19	C-120,4.1	Total/NA	Solid	8015B NM	73050
880-39246-20	C-212,4.1	Total/NA	Solid	8015B NM	73050
880-39246-21	C-122,4.1	Total/NA	Solid	8015B NM	73051
880-39246-22	C-123,4.1	Total/NA	Solid	8015B NM	73051
880-39246-23	C-124,4.1	Total/NA	Solid	8015B NM	73051
880-39246-24	C-125,4.1	Total/NA	Solid	8015B NM	73051
880-39246-25	C-126,4.1	Total/NA	Solid	8015B NM	73051
880-39246-26	C-127,4.1	Total/NA	Solid	8015B NM	73051
880-39246-27	C-128,4.1	Total/NA	Solid	8015B NM	73051
880-39246-28	C-129,4.1	Total/NA	Solid	8015B NM	73051
880-39246-29	C-130,4.1	Total/NA	Solid	8015B NM	73051
880-39246-30	C-131,4.1	Total/NA	Solid	8015B NM	73051
880-39246-31	C-132,4.1	Total/NA	Solid	8015B NM	73051
880-39246-32	C-133,4.1	Total/NA	Solid	8015B NM	73051
880-39246-33	C-134,4.1	Total/NA	Solid	8015B NM	73051
880-39246-34	C-135,4.1	Total/NA	Solid	8015B NM	73051
880-39246-35	C-136,4.1	Total/NA	Solid	8015B NM	73051
880-39246-36	C-137,4.1	Total/NA	Solid	8015B NM	73051
880-39246-37	C-138,4.1	Total/NA	Solid	8015B NM	73051
880-39246-38	C-139,4.1	Total/NA	Solid	8015B NM	73051
880-39246-39	C-140,4.1	Total/NA	Solid	8015B NM	73051
880-39246-40	C-141,4.1	Total/NA	Solid	8015B NM	73051
MB 880-73050/1-A	Method Blank	Total/NA	Solid	8015B NM	73050
MB 880-73051/1-A	Method Blank	Total/NA	Solid	8015B NM	73051
LCS 880-73050/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	73050
LCS 880-73051/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	73051
LCSD 880-73050/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	73050
LCSD 880-73051/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	73051
880-39246-1 MS	C-5,O-4.1	Total/NA	Solid	8015B NM	73050
880-39246-1 MSD	C-5,O-4.1	Total/NA	Solid	8015B NM	73050
880-39246-21 MS	C-122,4.1	Total/NA	Solid	8015B NM	73051
880-39246-21 MSD	C-122,4.1	Total/NA	Solid	8015B NM	73051

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1
SDG: 19-0180-07

GC Semi VOA

Analysis Batch: 73402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39246-41	C-142,4.1	Total/NA	Solid	8015B NM	73083
880-39246-42	C-143,4.1	Total/NA	Solid	8015B NM	73083
880-39246-43	C-144.4.1	Total/NA	Solid	8015B NM	73083
880-39246-44	C-145,4.1	Total/NA	Solid	8015B NM	73083
880-39246-45	C-146,4.1	Total/NA	Solid	8015B NM	73083
880-39246-46	C-148,4.1	Total/NA	Solid	8015B NM	73083
880-39246-47	C-149,4.1	Total/NA	Solid	8015B NM	73083
880-39246-48	C-150,4.1	Total/NA	Solid	8015B NM	73083
880-39246-49	C-151,4.1	Total/NA	Solid	8015B NM	73083
880-39246-50	C-152,4.1	Total/NA	Solid	8015B NM	73083
880-39246-51	C-153,4.1	Total/NA	Solid	8015B NM	73083
880-39246-52	C-154,4.1	Total/NA	Solid	8015B NM	73083
880-39246-53	C-147,4.1	Total/NA	Solid	8015B NM	73083
MB 880-73083/1-A	Method Blank	Total/NA	Solid	8015B NM	73083
LCS 880-73083/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	73083
LCSD 880-73083/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	73083
880-39246-41 MS	C-142,4.1	Total/NA	Solid	8015B NM	73083
880-39246-41 MSD	C-142,4.1	Total/NA	Solid	8015B NM	73083

Analysis Batch: 73535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39246-1	C-5,O-4.1	Total/NA	Solid	8015 NM	
880-39246-2	SW-2.0-4.1	Total/NA	Solid	8015 NM	
880-39246-3	SW-3,0-4.1	Total/NA	Solid	8015 NM	
880-39246-4	C-12,0-4.1	Total/NA	Solid	8015 NM	
880-39246-5	SW-4,0-4.1	Total/NA	Solid	8015 NM	
880-39246-6	SW-5,0-4.1	Total/NA	Solid	8015 NM	
880-39246-7	C-4,0-4.1	Total/NA	Solid	8015 NM	
880-39246-8	C-63,0-4.1	Total/NA	Solid	8015 NM	
880-39246-9	C-2,0-4.1	Total/NA	Solid	8015 NM	
880-39246-10	SW-8.0-4.1	Total/NA	Solid	8015 NM	
880-39246-11	C-59,0-4.1	Total/NA	Solid	8015 NM	
880-39246-12	C-19,0-4.1	Total/NA	Solid	8015 NM	
880-39246-13	SW-7,0-4.1	Total/NA	Solid	8015 NM	
880-39246-14	SW-6,0-4.1	Total/NA	Solid	8015 NM	
880-39246-15	C-116,4.1	Total/NA	Solid	8015 NM	
880-39246-16	C-117,4.1	Total/NA	Solid	8015 NM	
880-39246-17	C-118,4.1	Total/NA	Solid	8015 NM	
880-39246-18	C-119,4.1	Total/NA	Solid	8015 NM	
880-39246-19	C-120,4.1	Total/NA	Solid	8015 NM	
880-39246-20	C-212,4.1	Total/NA	Solid	8015 NM	
880-39246-21	C-122,4.1	Total/NA	Solid	8015 NM	
880-39246-22	C-123,4.1	Total/NA	Solid	8015 NM	
880-39246-23	C-124,4.1	Total/NA	Solid	8015 NM	
880-39246-24	C-125,4.1	Total/NA	Solid	8015 NM	
880-39246-25	C-126,4.1	Total/NA	Solid	8015 NM	
880-39246-26	C-127,4.1	Total/NA	Solid	8015 NM	
880-39246-27	C-128,4.1	Total/NA	Solid	8015 NM	
880-39246-28	C-129,4.1	Total/NA	Solid	8015 NM	
880-39246-29	C-130,4.1	Total/NA	Solid	8015 NM	
880-39246-30	C-131,4.1	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1
SDG: 19-0180-07

GC Semi VOA (Continued)

Analysis Batch: 73535 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39246-31	C-132,4.1	Total/NA	Solid	8015 NM	
880-39246-32	C-133,4.1	Total/NA	Solid	8015 NM	
880-39246-33	C-134,4.1	Total/NA	Solid	8015 NM	
880-39246-34	C-135,4.1	Total/NA	Solid	8015 NM	
880-39246-35	C-136,4.1	Total/NA	Solid	8015 NM	
880-39246-36	C-137,4.1	Total/NA	Solid	8015 NM	
880-39246-37	C-138,4.1	Total/NA	Solid	8015 NM	
880-39246-38	C-139,4.1	Total/NA	Solid	8015 NM	
880-39246-39	C-140,4.1	Total/NA	Solid	8015 NM	
880-39246-40	C-141,4.1	Total/NA	Solid	8015 NM	
880-39246-41	C-142,4.1	Total/NA	Solid	8015 NM	
880-39246-42	C-143,4.1	Total/NA	Solid	8015 NM	
880-39246-43	C-144.4.1	Total/NA	Solid	8015 NM	
880-39246-44	C-145,4.1	Total/NA	Solid	8015 NM	
880-39246-45	C-146,4.1	Total/NA	Solid	8015 NM	
880-39246-46	C-148,4.1	Total/NA	Solid	8015 NM	
880-39246-47	C-149,4.1	Total/NA	Solid	8015 NM	
880-39246-48	C-150,4.1	Total/NA	Solid	8015 NM	
880-39246-49	C-151,4.1	Total/NA	Solid	8015 NM	
880-39246-50	C-152,4.1	Total/NA	Solid	8015 NM	
880-39246-51	C-153,4.1	Total/NA	Solid	8015 NM	
880-39246-52	C-154,4.1	Total/NA	Solid	8015 NM	
880-39246-53	C-147,4.1	Total/NA	Solid	8015 NM	

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1
SDG: 19-0180-07

Client Sample ID: C-5,O-4.1

Lab Sample ID: 880-39246-1
Matrix: Solid
Date Collected: 02/06/24 11:08
Date Received: 02/12/24 12:30

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	73253	02/15/24 12:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73320	02/17/24 10:49	SM	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/17/24 10:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 10:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	73050	02/13/24 12:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/17/24 10:24	SM	EET MID

Client Sample ID: SW-2.0-4.1

Lab Sample ID: 880-39246-2
Matrix: Solid
Date Collected: 02/06/24 11:29
Date Received: 02/12/24 12:30

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	73253	02/15/24 12:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73320	02/17/24 11:10	SM	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/17/24 11:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 11:31	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	73050	02/13/24 12:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/17/24 11:31	SM	EET MID

Client Sample ID: SW-3,0-4.1

Lab Sample ID: 880-39246-3
Matrix: Solid
Date Collected: 02/06/24 14:59
Date Received: 02/12/24 12:30

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	73253	02/15/24 12:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73320	02/17/24 11:31	SM	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/17/24 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 11:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	73050	02/13/24 12:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/17/24 11:53	SM	EET MID

Client Sample ID: C-12,0-4.1

Lab Sample ID: 880-39246-4
Matrix: Solid
Date Collected: 02/07/24 09:47
Date Received: 02/12/24 12:30

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	73271	02/15/24 14:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73431	02/20/24 01:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/20/24 01:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	73050	02/13/24 12:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/17/24 12:15	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1
SDG: 19-0180-07

Client Sample ID: SW-4,0-4.1

Lab Sample ID: 880-39246-5
Matrix: Solid
Date Collected: 02/07/24 09:48
Date Received: 02/12/24 12:30

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	73271	02/15/24 14:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73431	02/20/24 01:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/20/24 01:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 12:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	73050	02/13/24 12:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/17/24 12:38	SM	EET MID

Client Sample ID: SW-5,0-4.1

Lab Sample ID: 880-39246-6
Matrix: Solid
Date Collected: 02/07/24 11:29
Date Received: 02/12/24 12:30

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	73271	02/15/24 14:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73431	02/20/24 02:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/20/24 02:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 13:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	73050	02/13/24 12:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/17/24 13:00	SM	EET MID

Client Sample ID: C-4,0-4.1

Lab Sample ID: 880-39246-7
Matrix: Solid
Date Collected: 02/08/24 09:49
Date Received: 02/12/24 12:30

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	73271	02/15/24 14:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73431	02/20/24 02:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/20/24 02:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 13:22	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	73050	02/13/24 12:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/17/24 13:22	SM	EET MID

Client Sample ID: C-63,0-4.1

Lab Sample ID: 880-39246-8
Matrix: Solid
Date Collected: 02/08/24 10:08
Date Received: 02/12/24 12:30

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	73271	02/15/24 14:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73431	02/20/24 02:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/20/24 02:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 13:44	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	73050	02/13/24 12:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/17/24 13:44	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1
SDG: 19-0180-07

Client Sample ID: C-2,0-4.1

Lab Sample ID: 880-39246-9
Date Collected: 02/08/24 10:36
Matrix: Solid
Date Received: 02/12/24 12:30

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	73271	02/15/24 14:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73431	02/20/24 03:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/20/24 03:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 14:06	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	73050	02/13/24 12:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/17/24 14:06	SM	EET MID

Client Sample ID: SW-8.0-4.1

Lab Sample ID: 880-39246-10
Date Collected: 02/08/24 11:32
Matrix: Solid
Date Received: 02/12/24 12:30

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	73271	02/15/24 14:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73431	02/20/24 03:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/20/24 03:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	73050	02/13/24 12:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/17/24 14:29	SM	EET MID

Client Sample ID: C-59,0-4.1

Lab Sample ID: 880-39246-11
Date Collected: 02/08/24 13:33
Matrix: Solid
Date Received: 02/12/24 12:30

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	73271	02/15/24 14:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73431	02/20/24 04:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/20/24 04:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 15:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	73050	02/13/24 12:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/17/24 15:13	SM	EET MID

Client Sample ID: C-19,0-4.1

Lab Sample ID: 880-39246-12
Date Collected: 02/08/24 14:16
Matrix: Solid
Date Received: 02/12/24 12:30

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	73271	02/15/24 14:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73431	02/20/24 05:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/20/24 05:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	73050	02/13/24 12:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/17/24 15:35	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1
SDG: 19-0180-07

Client Sample ID: SW-7,0-4.1

Date Collected: 02/08/24 14:17
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	73271	02/15/24 14:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73431	02/20/24 05:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/20/24 05:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 15:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	73050	02/13/24 12:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/17/24 15:58	SM	EET MID

Client Sample ID: SW-6,0-4.1

Date Collected: 02/09/24 08:32
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	73271	02/15/24 14:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73431	02/20/24 05:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/20/24 05:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 16:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	73050	02/13/24 12:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/17/24 16:20	SM	EET MID

Client Sample ID: C-116,4.1

Date Collected: 02/09/24 08:00
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-15
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			5.00 g	5 mL	73271	02/15/24 14:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73431	02/20/24 06:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/20/24 06:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 16:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	73050	02/13/24 12:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/17/24 16:43	SM	EET MID

Client Sample ID: C-117,4.1

Date Collected: 02/09/24 09:02
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-16
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			4.95 g	5 mL	73271	02/15/24 14:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73431	02/20/24 06:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/20/24 06:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 17:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	73050	02/13/24 12:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/17/24 17:05	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1
SDG: 19-0180-07

Client Sample ID: C-118,4.1

Date Collected: 02/09/24 09:09
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-17
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			4.98 g	5 mL	73271	02/15/24 14:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73431	02/20/24 06:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/20/24 06:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 17:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	73050	02/13/24 12:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/17/24 17:27	SM	EET MID

Client Sample ID: C-119,4.1

Date Collected: 02/09/24 09:06
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	73271	02/15/24 14:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73431	02/20/24 07:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/20/24 07:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 17:50	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	73050	02/13/24 12:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/17/24 17:50	SM	EET MID

Client Sample ID: C-120,4.1

Date Collected: 02/09/24 09:08
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-19
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	73271	02/15/24 14:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73431	02/20/24 07:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/20/24 07:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 18:12	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	73050	02/13/24 12:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/17/24 18:12	SM	EET MID

Client Sample ID: C-212,4.1

Date Collected: 02/09/24 09:10
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-20
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	73271	02/15/24 14:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73431	02/20/24 07:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/20/24 07:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 18:34	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	73050	02/13/24 12:58	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/17/24 18:34	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1
SDG: 19-0180-07

Client Sample ID: C-122,4.1

Date Collected: 02/09/24 09:12
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	73272	02/15/24 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73428	02/19/24 12:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/19/24 12:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 20:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	73051	02/13/24 13:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/17/24 20:25	SM	EET MID

Client Sample ID: C-123,4.1

Date Collected: 02/09/24 09:14
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-22

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	73272	02/15/24 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73428	02/19/24 12:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/19/24 12:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 21:31	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	73051	02/13/24 13:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/17/24 21:31	SM	EET MID

Client Sample ID: C-124,4.1

Date Collected: 02/09/24 09:16
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	73272	02/15/24 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73428	02/19/24 13:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/19/24 13:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 21:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	73051	02/13/24 13:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/17/24 21:53	SM	EET MID

Client Sample ID: C-125,4.1

Date Collected: 02/09/24 09:18
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-24

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	73272	02/15/24 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73428	02/19/24 13:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/19/24 13:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 22:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	73051	02/13/24 13:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/17/24 22:15	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1
SDG: 19-0180-07

Client Sample ID: C-126,4.1

Date Collected: 02/09/24 09:20
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-25

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	73272	02/15/24 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73428	02/19/24 14:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/19/24 14:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 22:37	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	73051	02/13/24 13:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/17/24 22:37	SM	EET MID

Client Sample ID: C-127,4.1

Date Collected: 02/09/24 09:22
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-26

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	73272	02/15/24 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73428	02/19/24 14:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/19/24 14:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 22:59	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	73051	02/13/24 13:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/17/24 22:59	SM	EET MID

Client Sample ID: C-128,4.1

Date Collected: 02/09/24 09:24
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-27

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	73272	02/15/24 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73428	02/19/24 14:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/19/24 14:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 23:21	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	73051	02/13/24 13:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/17/24 23:21	SM	EET MID

Client Sample ID: C-129,4.1

Date Collected: 02/09/24 09:26
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-28

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	73272	02/15/24 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73428	02/19/24 15:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/19/24 15:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 23:43	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	73051	02/13/24 13:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/17/24 23:43	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1
SDG: 19-0180-07

Client Sample ID: C-130,4.1

Date Collected: 02/09/24 09:28
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	73272	02/15/24 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73428	02/19/24 15:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/19/24 15:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/18/24 00:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	73051	02/13/24 13:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/18/24 00:04	SM	EET MID

Client Sample ID: C-131,4.1

Date Collected: 02/09/24 09:30
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	73272	02/15/24 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73428	02/19/24 16:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/19/24 16:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/18/24 00:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	73051	02/13/24 13:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/18/24 00:26	SM	EET MID

Client Sample ID: C-132,4.1

Date Collected: 02/09/24 09:32
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	73272	02/15/24 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73428	02/19/24 18:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/19/24 18:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/18/24 01:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	73051	02/13/24 13:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/18/24 01:10	SM	EET MID

Client Sample ID: C-133,4.1

Date Collected: 02/09/24 09:34
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	73272	02/15/24 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73428	02/19/24 18:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/19/24 18:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/18/24 01:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	73051	02/13/24 13:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/18/24 01:31	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1
SDG: 19-0180-07

Client Sample ID: C-134,4.1

Date Collected: 02/09/24 09:36
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-33

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	73272	02/15/24 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73428	02/19/24 18:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/19/24 18:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/18/24 01:53	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	73051	02/13/24 13:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/18/24 01:53	SM	EET MID

Client Sample ID: C-135,4.1

Date Collected: 02/09/24 09:38
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-34

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	73272	02/15/24 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73428	02/19/24 19:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/19/24 19:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/18/24 02:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	73051	02/13/24 13:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/18/24 02:15	SM	EET MID

Client Sample ID: C-136,4.1

Date Collected: 02/09/24 09:40
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-35

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	73272	02/15/24 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73428	02/19/24 19:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/19/24 19:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/18/24 02:37	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	73051	02/13/24 13:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/18/24 02:37	SM	EET MID

Client Sample ID: C-137,4.1

Date Collected: 02/09/24 09:42
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-36

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	73272	02/15/24 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73428	02/19/24 20:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/19/24 20:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/18/24 02:59	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	73051	02/13/24 13:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/18/24 02:59	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1
SDG: 19-0180-07

Client Sample ID: C-138,4.1

Date Collected: 02/09/24 09:49
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-37

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	73272	02/15/24 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73428	02/19/24 20:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/19/24 20:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/18/24 03:21	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	73051	02/13/24 13:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/18/24 03:21	SM	EET MID

Client Sample ID: C-139,4.1

Date Collected: 02/09/24 09:46
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-38

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	73272	02/15/24 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73428	02/19/24 21:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/19/24 21:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/18/24 03:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	73051	02/13/24 13:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/18/24 03:43	SM	EET MID

Client Sample ID: C-140,4.1

Date Collected: 02/09/24 09:48
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-39

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	73272	02/15/24 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73428	02/19/24 21:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/19/24 21:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/18/24 04:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	73051	02/13/24 13:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/18/24 04:05	SM	EET MID

Client Sample ID: C-141,4.1

Date Collected: 02/09/24 09:50
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-40

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	73272	02/15/24 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73428	02/19/24 21:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/19/24 21:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/18/24 04:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	73051	02/13/24 13:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73400	02/18/24 04:27	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1
SDG: 19-0180-07

Client Sample ID: C-142,4.1

Date Collected: 02/09/24 09:52
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-41

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	73275	02/15/24 15:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73718	02/21/24 12:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/21/24 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 10:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	73083	02/13/24 16:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73402	02/17/24 10:24	SM	EET MID

Client Sample ID: C-143,4.1

Date Collected: 02/09/24 09:54
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-42

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	73275	02/15/24 15:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73718	02/21/24 15:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/21/24 15:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 11:31	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	73083	02/13/24 16:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73402	02/17/24 11:31	SM	EET MID

Client Sample ID: C-144.4.1

Date Collected: 02/09/24 09:56
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-43

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	73275	02/15/24 15:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73718	02/21/24 15:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/21/24 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 11:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	73083	02/13/24 16:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73402	02/17/24 11:53	SM	EET MID

Client Sample ID: C-145,4.1

Date Collected: 02/09/24 09:58
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-44

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	73275	02/15/24 15:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73718	02/21/24 17:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/21/24 17:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	73083	02/13/24 16:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73402	02/17/24 12:15	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1
SDG: 19-0180-07

Client Sample ID: C-146,4.1

Date Collected: 02/09/24 10:00
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-45

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	73275	02/15/24 15:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73718	02/21/24 17:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/21/24 17:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 12:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	73083	02/13/24 16:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73402	02/17/24 12:38	SM	EET MID

Client Sample ID: C-148,4.1

Date Collected: 02/09/24 10:04
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-46

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	73275	02/15/24 15:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73718	02/21/24 18:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/21/24 18:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 13:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	73083	02/13/24 16:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73402	02/17/24 13:00	SM	EET MID

Client Sample ID: C-149,4.1

Date Collected: 02/09/24 10:06
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-47

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	73275	02/15/24 15:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73718	02/21/24 18:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/21/24 18:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 13:22	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	73083	02/13/24 16:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73402	02/17/24 13:22	SM	EET MID

Client Sample ID: C-150,4.1

Date Collected: 02/09/24 10:08
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-48

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	73275	02/15/24 15:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73718	02/21/24 18:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/21/24 18:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 13:44	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	73083	02/13/24 16:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73402	02/17/24 13:44	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1
SDG: 19-0180-07

Client Sample ID: C-151,4.1

Date Collected: 02/09/24 10:10
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-49

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	73275	02/15/24 15:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73718	02/21/24 19:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/21/24 19:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 14:06	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	73083	02/13/24 16:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73402	02/17/24 14:06	SM	EET MID

Client Sample ID: C-152,4.1

Date Collected: 02/09/24 10:12
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-50

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	73275	02/15/24 15:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73718	02/21/24 19:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/21/24 19:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	73083	02/13/24 16:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73402	02/17/24 14:29	SM	EET MID

Client Sample ID: C-153,4.1

Date Collected: 02/09/24 10:14
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-51

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	73275	02/15/24 15:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73718	02/21/24 20:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/21/24 20:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 15:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	73083	02/13/24 16:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73402	02/17/24 15:13	SM	EET MID

Client Sample ID: C-154,4.1

Date Collected: 02/09/24 10:16
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-52

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	73275	02/15/24 15:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73718	02/21/24 20:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/21/24 20:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	73083	02/13/24 16:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73402	02/17/24 15:35	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1
SDG: 19-0180-07

Client Sample ID: C-147,4.1

Date Collected: 02/09/24 10:02
Date Received: 02/12/24 12:30

Lab Sample ID: 880-39246-53

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	73275	02/15/24 15:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73718	02/21/24 20:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73591	02/21/24 20:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			73535	02/17/24 15:58	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	73083	02/13/24 16:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73402	02/17/24 15:58	SM	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: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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

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

Method Summary

Client: Larson & Associates, Inc. Job ID: 880-39246-1
Project/Site: Culebra Bluff SE 5 32 Fed Com 3 SDG: 19-0180-07

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
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID

Protocol References:

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: Culebra Bluff SE 5 32 Fed Com 3

Job ID: 880-39246-1
SDG: 19-0180-07

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-39246-1	C-5,O-4.1	Solid	02/06/24 11:08	02/12/24 12:30
880-39246-2	SW-2.0-4.1	Solid	02/06/24 11:29	02/12/24 12:30
880-39246-3	SW-3,0-4.1	Solid	02/06/24 14:59	02/12/24 12:30
880-39246-4	C-12,0-4.1	Solid	02/07/24 09:47	02/12/24 12:30
880-39246-5	SW-4,0-4.1	Solid	02/07/24 09:48	02/12/24 12:30
880-39246-6	SW-5,0-4.1	Solid	02/07/24 11:29	02/12/24 12:30
880-39246-7	C-4,0-4.1	Solid	02/08/24 09:49	02/12/24 12:30
880-39246-8	C-63,0-4.1	Solid	02/08/24 10:08	02/12/24 12:30
880-39246-9	C-2,0-4.1	Solid	02/08/24 10:36	02/12/24 12:30
880-39246-10	SW-8.0-4.1	Solid	02/08/24 11:32	02/12/24 12:30
880-39246-11	C-59,0-4.1	Solid	02/08/24 13:33	02/12/24 12:30
880-39246-12	C-19,0-4.1	Solid	02/08/24 14:16	02/12/24 12:30
880-39246-13	SW-7,0-4.1	Solid	02/08/24 14:17	02/12/24 12:30
880-39246-14	SW-6,0-4.1	Solid	02/09/24 08:32	02/12/24 12:30
880-39246-15	C-116,4.1	Solid	02/09/24 08:00	02/12/24 12:30
880-39246-16	C-117,4.1	Solid	02/09/24 09:02	02/12/24 12:30
880-39246-17	C-118,4.1	Solid	02/09/24 09:09	02/12/24 12:30
880-39246-18	C-119,4.1	Solid	02/09/24 09:06	02/12/24 12:30
880-39246-19	C-120,4.1	Solid	02/09/24 09:08	02/12/24 12:30
880-39246-20	C-212,4.1	Solid	02/09/24 09:10	02/12/24 12:30
880-39246-21	C-122,4.1	Solid	02/09/24 09:12	02/12/24 12:30
880-39246-22	C-123,4.1	Solid	02/09/24 09:14	02/12/24 12:30
880-39246-23	C-124,4.1	Solid	02/09/24 09:16	02/12/24 12:30
880-39246-24	C-125,4.1	Solid	02/09/24 09:18	02/12/24 12:30
880-39246-25	C-126,4.1	Solid	02/09/24 09:20	02/12/24 12:30
880-39246-26	C-127,4.1	Solid	02/09/24 09:22	02/12/24 12:30
880-39246-27	C-128,4.1	Solid	02/09/24 09:24	02/12/24 12:30
880-39246-28	C-129,4.1	Solid	02/09/24 09:26	02/12/24 12:30
880-39246-29	C-130,4.1	Solid	02/09/24 09:28	02/12/24 12:30
880-39246-30	C-131,4.1	Solid	02/09/24 09:30	02/12/24 12:30
880-39246-31	C-132,4.1	Solid	02/09/24 09:32	02/12/24 12:30
880-39246-32	C-133,4.1	Solid	02/09/24 09:34	02/12/24 12:30
880-39246-33	C-134,4.1	Solid	02/09/24 09:36	02/12/24 12:30
880-39246-34	C-135,4.1	Solid	02/09/24 09:38	02/12/24 12:30
880-39246-35	C-136,4.1	Solid	02/09/24 09:40	02/12/24 12:30
880-39246-36	C-137,4.1	Solid	02/09/24 09:42	02/12/24 12:30
880-39246-37	C-138,4.1	Solid	02/09/24 09:49	02/12/24 12:30
880-39246-38	C-139,4.1	Solid	02/09/24 09:46	02/12/24 12:30
880-39246-39	C-140,4.1	Solid	02/09/24 09:48	02/12/24 12:30
880-39246-40	C-141,4.1	Solid	02/09/24 09:50	02/12/24 12:30
880-39246-41	C-142,4.1	Solid	02/09/24 09:52	02/12/24 12:30
880-39246-42	C-143,4.1	Solid	02/09/24 09:54	02/12/24 12:30
880-39246-43	C-144.4.1	Solid	02/09/24 09:56	02/12/24 12:30
880-39246-44	C-145,4.1	Solid	02/09/24 09:58	02/12/24 12:30
880-39246-45	C-146,4.1	Solid	02/09/24 10:00	02/12/24 12:30
880-39246-46	C-148,4.1	Solid	02/09/24 10:04	02/12/24 12:30
880-39246-47	C-149,4.1	Solid	02/09/24 10:06	02/12/24 12:30
880-39246-48	C-150,4.1	Solid	02/09/24 10:08	02/12/24 12:30
880-39246-49	C-151,4.1	Solid	02/09/24 10:10	02/12/24 12:30
880-39246-50	C-152,4.1	Solid	02/09/24 10:12	02/12/24 12:30
880-39246-51	C-153,4.1	Solid	02/09/24 10:14	02/12/24 12:30
880-39246-52	C-154,4.1	Solid	02/09/24 10:16	02/12/24 12:30
880-39246-53	C-147,4.1	Solid	02/09/24 10:02	02/12/24 12:30

39246

No. 2890

CHAIN-OF-CUSTODY

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

Data Reported to

DATE 2/12/2024 PAGE 1 OF 4

PO# LAB WORK ORDER#

PROJECT LOCATION OR NAME Culebra Bluff

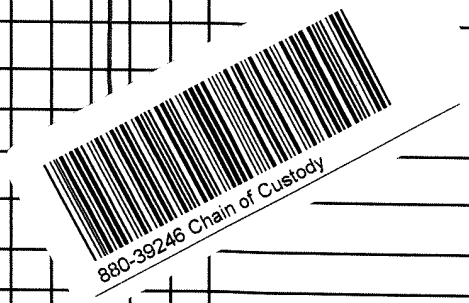
LAI PROJECT # 19-0180-07 COLLECTOR. AV

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State
MST/MDT

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES BTEX ☒ MTBE ☐	TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-5, 0-4.1		2-6-24	1108	S	1				X		X		X	X	X													X	
SW-2, 0-4.1		1	1129																										
SW-3, 0-4.1		1	1459																										
C-12, 0-4.1		2-7-24	0947																										
SW-4, 0-4.1		1	0948																										
SW-5, 0-4.1		1	1129																										
C-4, 0-4.1		2-8-24	0949																										
C-63, 0-4.1			1008																										
C-2, 0-4.1			1036																										
SW-8, 0-4.1			1132																										
C-59, 0-4.1			1333																										
C-19, 0-4.1			1416																										
SW-7, 0-4.1			1417																										
SW-6, 0-4.1		2-9-24	0832																										
C-116, 4.1		1	0800																										
TOTAL																													



RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
	2-12-24 1230	James Wm
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 2.6 THERM# 2.5
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Page 907 of 1002
Received by OCD: 5/8/2024 10:38:54 AM
2/29/2024 (Rev. 2)
Page 84 of 88
Released to Imaging: 6/25/2024 3:25:17 PM

Page 908 of 1002

39246

No. 2891

CHAIN-OF-CUSTODY

2/29/2024 (Rev. 2)

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

DATE. 2-12-2024 PAGE 2 OF 4

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME Culebra Bluff

LAI PROJECT #: 19-0180-07 COLLECTOR RV

Data Reported to

TRRP report? ☐ Yes ☑ No

TIME ZONE Time zone/State: MST MM

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

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

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

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 NaOH	ICE	UNPRESSERVED	BTEX	TRPH	GASOLINE	DIESEL	OIL	VOC	SVOC	8081	8082	TCLP-METALS	TCLP-PEST	TOTAL METALS	LEAD-TOTAL	RCI	TDS	pH	EXPLOSIVES	CHLORIDE	FIELD NOTES
C-117, 4.1		2-9-24	0902	S	1				X		X		X	X	X												X		
C-118, 4.1			0904																										
C-119, 4.1			0906																										
C-120, 4.1			0908																										
C-121, 4.1			0910																										
C-122, 4.1			0912																										
C-123, 4.1			0914																										
C-124, 4.1			0916																										
C-125, 4.1			0918																										
C-126, 4.1			0920																										
C-127, 4.1			0922																										
C-128, 4.1			0924																										
C-129, 4.1			0926																										
C-130, 4.1			0928																										
C-131, 4.1			0930																										
TOTAL																													

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
~~RELINQUISHED BY~~ (Signature)	2-12-24 1230	Tamara Wilson
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 2.6 THERM# 2.5
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☑ HAND DELIVERED

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Received by OCD: 5/8/2024 10:38:54 AM

Released to Imaging: 6/25/2024 3:25:17 PM

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392946

No. 2892

CHAIN-OF-CUSTODY

2/29/2024 (Rev. 2)

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

Data Reported to

DATE 2-12-2024 PAGE 3 OF 4

PO# LAB WORK ORDER#

PROJECT LOCATION OR NAME Culebra Bluff

LAI PROJECT # 19-080-07 COLLECTOR. [illegible]

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State
MST / NM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	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 ☐	TDS ☐	TSS ☐	FLASHPOINT ☐	pH ☐	% MOISTURE ☐	HEXAVALENT CHROMIUM ☐	CYANIDE ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDES ☒	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
C-132, 4.1		2-9-24	0932	S	1				X		X		X		X	X	X																								X				
C-133, 4.1		"	0934	"	"				"		"		"		"	"	"																								"				
C-134, 4.1		"	0936	"	"				"		"		"		"	"	"																								"				
C-135, 4.1		"	0938	"	"				"		"		"		"	"	"																								"				
C-136, 4.1		"	0940	"	"				"		"		"		"	"	"																								"				
C-137, 4.1		"	0942	"	"				"		"		"		"	"	"																								"				
C-138, 4.1		"	0944	"	"				"		"		"		"	"	"																								"				
C-139, 4.1		"	0946	"	"				"		"		"		"	"	"																								"				
C-140, 4.1		"	0948	"	"				"		"		"		"	"	"																								"				
C-141, 4.1		"	0950	"	"				"		"		"		"	"	"																								"				
C-142, 4.1		"	0952	"	"				"		"		"		"	"	"																								"				
C-143, 4.1		"	0954	"	"				"		"		"		"	"	"																								"				
C-144, 4.1		"	0956	"	"				"		"		"		"	"	"																								"				
C-145, 4.1		"	0958	"	"				"		"		"		"	"	"																								"				
C-146, 4.1		"	1000	"	"				"		"		"		"	"	"																								"				
TOTAL																																															

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
[illegible]	2-12-24 1230	[illegible]
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 26 THERM# 25
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☒ HAND DELIVERED

Page 86 of 88

Received by OCD: 5/8/2024 10:38:54 AM

Released to Imaging: 6/25/2024 3:25:17 PM

39246

No. 2893

CHAIN-OF-CUSTODY

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

DATE 2-12-2024 PAGE 4 OF 4
PO# LAB WORK ORDER#
PROJECT LOCATION OR NAME Culebra Bluff
LAI PROJECT # 19-010-07 COLLECTOR RN

Data Reported to

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State
MST / NM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX/MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015	DIESEL - MOD 8015	OIL - MOD 8015	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-146, 4.1		2-9-24	1004	S	1				X		X		X	X	X														X	
C-149, 4.1			1006																											
C-150, 4.1			1008																											
C-151, 4.1			1010																											
C-152, 4.1			1012																											
C-153, 4.1			1014																											
C-154, 4.1			1016																											
C-147, 4.1		2-9-24	1002																											
TOTAL																														

Loc: 880
39246

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
	2-12-24/1230	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 2.6 THERM# 25
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☑ HAND DELIVERED

Page 910 of 1002
Received by OCD: 5/8/2024 10:38:54 AM
Page 87 of 88
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2/29/2024 (Rev. 2)

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-39246-1
SDG Number: 19-0180-07

Login Number: 39246
List Number: 1
Creator: Wheeler, Jazmine

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	

DHL ANALYTICAL

February 29, 2024

Mark Larson
Larson & Associates
507 N. Marienfeld #202
Midland, TX 79701
TEL: (432) 687-0901
FAX:

Order No.: 2402322

RE: Culebra Bluff SE 532 Fed Coms

Dear Mark Larson:

DHL Analytical, Inc. received 53 sample(s) on 2/26/2024 for the analyses presented in the following report.

Revision Number 1 for Work Order 2402322: This revision consists of updating the test method for the analysis, per the client's request. Please replace the original Data Report with this revision.

There were no problems with the analyses and all data met requirements of NELAP except where noted in the Case Narrative. All non-NELAP methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-23-29

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WorkOrderSampleSummary 2402322 10

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Released to Imaging: 6/25/2024 3:25:17 PM
Received by OCD: 5/8/2024 10:38:54 AM

No. 3279

CHAIN-OF-CUSTODY

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

Data Reported to:

DATE: 2-23-2024 PAGE 1 OF 4
PO#: LAB WORK ORDER#: 2402322
PROJECT LOCATION OR NAME: Culebra Bluff SE S 32 Fed Com
LAI PROJECT #: 19-0180-07 COLLECTOR: RW

TRRP report? ☐ Yes ☑ No

TIME ZONE: Time zone/State: MST/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 ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ☑ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-5, 0-4.1	01	2-6-24	1108	S	1					X																		X		
SW-2, 0-4.1	02	"	1129	"	"					"																		"		
SW-3, 0-4.1	03	"	1459	"	"					"																		"		
C-12, 0-4.1	04	2-7-24	0947	"	"					"																		"		
SW-4, 0-4.1	05	"	0948	"	"					"																		"		
SW-5, 0-4.1	06	"	1129	"	"					"																		"		
C-4, 0-4.1	07	2-8-24	0949	"	"					"																		"		
C-63, 0-4.1	08	"	1008	"	"					"																		"		
C-2, 0-4.1	09	"	1036	"	"					"																		"		
SW-8, 0-4.1	10	"	1132	"	"					"																		"		
C-59, 0-4.1	11	"	1333	"	"					"																		"		
C-14, 0-4.1	12	"	1416	"	"					"																		"		
SW-7, 0-4.1	13	"	1417	"	"					"																		"		
SW-6, 0-4.1	14	2-9-24	0832	"	"					"																		"		
C-116, 4.1	15	"	0800	"	"					"																		"		
TOTAL																														

RELINQUISHED BY:(Signature) DATE/TIME 2-23-24 1522 RECEIVED BY: (Signature) UPS

RELINQUISHED BY:(Signature) UPS DATE/TIME 2/26/24 0645 RECEIVED BY: (Signature)

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

LABORATORY: DHL

TURN AROUND TIME
NORMAL ☐
1 DAY ☑ Rush.
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP: 19.8°C THERM#: 78
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Page 914 of 1002

Released to Imaging: 6/25/2024 3:25:17 PM
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No. 3280

CHAIN-OF-CUSTODY

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

Data Reported to:

DATE: 2-23-2024 PAGE 2 OF 4
PO#: LAB WORK ORDER#: 2402322
PROJECT LOCATION OR NAME: Cubbria Blatt SE 5 32 Fed Com 3
LAI PROJECT #: 19-080-07 COLLECTOR: RN

TRRP report? ☐ Yes ☑ No

TIME ZONE: Time zone/State: CST/TX

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

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

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

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES	FIELD NOTES
C-117, 4.1	16	2-9-24	0904	S	1					X	CHLORIDE ☑	
C-118, 4.1	17	"	0906	"	"					"	"	
C-119, 4.1	18	"	0908	"	"					"	"	
C-120, 4.1	19	"	0908	"	"					"	"	
C-121, 4.1	20	"	0910	"	"					"	"	
C-122, 4.1	21	"	0912	"	"					"	"	
C-123, 4.1	22	"	0914	"	"					"	"	
C-124, 4.1	23	"	0916	"	"					"	"	
C-125, 4.1	24	"	0918	"	"					"	"	
C-126, 4.1	25	"	0920	"	"					"	"	
C-127, 4.1	26	"	0922	"	"					"	"	
C-128, 4.1	27	"	0924	"	"					"	"	
C-129, 4.1	28	"	0926	"	"					"	"	
C-130, 4.1	29	"	0928	"	"					"	"	
C-131, 4.1	30	"	0930	"	"					"	"	
TOTAL												

RELINQUISHED BY:(Signature) DATE/TIME 2-23-24 1527 RECEIVED BY: (Signature) UPS
RELINQUISHED BY:(Signature) UPS DATE/TIME 2/26/24 0645 RECEIVED BY: (Signature) Hank O'Neil
RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)

LABORATORY: DHL

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

LABORATORY USE ONLY:
RECEIVING TEMP: 19.8°C THERM#: 78
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Released to Imaging: 6/25/2024 3:25:17 PM
Received by OCD: 5/8/2024 10:38:54 AM

No. 3281

CHAIN-OF-CUSTODY

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

Data Reported to:

DATE: 2-23-2024 PAGE 3 OF 4
PO#: LAB WORK ORDER#: 24 02322
PROJECT LOCATION OR NAME: Culebra Bluff SE S 32 Fed Com 3
LAI PROJECT #: 19-0180-07 COLLECTOR: RN

TRRP report? ☐ Yes ☑ No
TIME ZONE: Time zone/State: CST/TX

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

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

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

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES	FIELD NOTES
C-132, 4.1	31	2-9-24	0932	S	1					X	X	
C-133, 4.1	32	"	0934	"	"					"	"	
C-134, 4.1	33	"	0936	"	"					"	"	
C-135, 4.1	34	"	0938	"	"					"	"	
C-136, 4.1	35	"	0940	"	"					"	"	
C-137, 4.1	36	"	0942	"	"					"	"	
C-138, 4.1	37	"	0944	"	"					"	"	
C-139, 4.1	38	"	0946	"	"					"	"	
C-140, 4.1	39	"	0948	"	"					"	"	
C-141, 4.1	40	"	0950	"	"					"	"	
C-142, 4.1	41	"	0952	"	"					"	"	
C-143, 4.1	42	"	0954	"	"					"	"	
C-144, 4.1	43	"	0956	"	"					"	"	
C-145, 4.1	44	"	0958	"	"					"	"	
C-146, 4.1	45	"	1000	"	"					"	"	
TOTAL												

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
	2-23-24 1527	UPS
UPS	2/26/24 0045	Kaunt.ONK

LABORATORY: DHL

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

LABORATORY USE ONLY:
RECEIVING TEMP: 19.8°C THERM#: 78
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Released to Imaging: 6/25/2024 3:25:17 PM

No. 3282

CHAIN-OF-CUSTODY

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

Data Reported to:

DATE: 2-23-2024 PAGE 4 OF 4
PO#: LAB WORK ORDER#: 2402322
PROJECT LOCATION OR NAME: Culebra Bluff
LAI PROJECT #: 19-0180-07 COLLECTOR: DN

TRRP report? ☐ Yes ☑ No

TIME ZONE: Time zone/State: CST/TX

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 ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-147, 4.1	46	2-9-24	1004	S	1					X																	X			
C-148, 4.1	47	"	1004	"	1					"																	"			
C-149, 4.1	48	"	1006	"	1					"																	"			
C-150, 4.1	49	"	1008	"	1					"																	"			
C-151, 4.1	50	"	1010	"	1					"																	"			
C-152, 4.1	51	"	1012	"	1					"																	"			
C-153, 4.1	52	"	1014	"	1					"																	"			
C-154, 4.1	53	"	1016	"	1					"																	"			
TOTAL																														

RELINQUISHED BY:(Signature) DATE/TIME 2-23-24 1527 RECEIVED BY: (Signature) UPS

RELINQUISHED BY:(Signature) UPS DATE/TIME 2/24/24 0645 RECEIVED BY: (Signature)

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

LABORATORY DHL

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

LABORATORY USE ONLY:
RECEIVING TEMP: 19.8°C THERM#: 78
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Received by OCD: 5/8/2024 10:38:54 AM

ROBERT NELSON
432-687-0901
LARSON & ASSOCIATES
507 N. MARIENFELD ST.
MIDLAND TX 79701

40 LBS 1 OF 1
DWT: 16,14,14

SHIP TO:
JOHN DUPONT
512-388-8222
DHL ANALYTICAL
2300 DOUBLE CREEK DRIVE.
ROUND ROCK TX 78664

TX 786 4-76

UPS NEXT DAY AIR EARLY 1+
TRACKING #: 1Z Y64 915 15 9466 9657

BILLING: P/P

XOL 24.01.23 NV45 8.0A 02/2024*

TM

CUSTODY SEAL

DATE 2-23-2024

SIGNATURE Robert Nelson

DHL ANALYTICAL

DHL Analytical, Inc.

Sample Receipt Checklist

Client Name: **Larson & Associates** Date Received: **2/26/2024**

Work Order Number: **2402322** Received by: **KAO**

Checklist completed by: _____ 2/26/2024 Reviewed by: SH 2/26/2024

Signature | Date | Initials | Date

Carrier name: UPS Std

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑ NA ☐
Water - pH<2 acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted?		Checked by
Water - ph>9 (S) or ph>10 (CN) acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted?		Checked by
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Cooler # 1

Temp °C 19.8

Seal Intact Y

Any No response must be detailed in the comments section below.

Client contacted: Larson Date contacted: 2/26/24 Person contacted: Robert N.

Contacted by: Eric L. Regarding: Sample ID

Comments: Sample "C-121, 4.1" on COC labeled as "C-212, 4.1" on container.

Corrective Action: Per Robert, sample ID "C-121, 4.1" is correct. Proceed with analysis.

DHL Analytical, Inc. **Date:** *29-Feb-24*

CLIENT: Larson & Associates
Project: Culebra Bluff SE 532 Fed Coms
Lab Order: 2402322

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

EPA 300.0 and ASTM Methods.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For Anions Analysis, for soil Batch 114178, the recovery and RPD of Chloride for the Matrix Spike and Matrix Spike Duplicate (2402322-02 MS/MSD) were outside of the method control limits. Additionally, the RPD of Chloride for the Sample Duplicate (2402322-11 Dup) was above the method control limit. These are flagged accordingly in the QC Summary Report. This anion was within method control limits in the associated LCS. No further corrective action was taken.

For Anions Analysis, for soil Batches 114181 and 114182, the recovery of Chloride for the Matrix Spike and Matrix Spike Duplicate(s) (2402322-22, -44 MS/MSD) was above the method control limits. These are flagged accordingly in the QC Summary Report. This anion was within method control limits in the associated LCS(s). No further corrective action was taken.

DHL Analytical, Inc.

Date: *28-Feb-24*

CLIENT: Larson & Associates
Project: Culebra Bluff SE 532 Fed Coms
Lab Order: 2402322

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
2402322-01	C-5, 0-4.1		02/06/24 11:08 AM	02/26/2024
2402322-02	SW-2, 0-4.1		02/06/24 11:29 AM	02/26/2024
2402322-03	SW-3, 0-4.1		02/06/24 02:59 PM	02/26/2024
2402322-04	C-12, 0-4.1		02/07/24 09:47 AM	02/26/2024
2402322-05	SW-4, 0-4.1		02/07/24 09:48 AM	02/26/2024
2402322-06	SW-5, 0-4.1		02/07/24 11:29 AM	02/26/2024
2402322-07	C-4, 0-4.1		02/08/24 09:49 AM	02/26/2024
2402322-08	C-63, 0-4.1		02/08/24 10:08 AM	02/26/2024
2402322-09	C-2, 0-4.1		02/08/24 10:36 AM	02/26/2024
2402322-10	SW-8, 0-4.1		02/08/24 11:32 AM	02/26/2024
2402322-11	C-59, 0-4.1		02/08/24 01:33 PM	02/26/2024
2402322-12	C-19, 0-4.1		02/08/24 02:16 PM	02/26/2024
2402322-13	SW-7, 0-4.1		02/08/24 02:17 PM	02/26/2024
2402322-14	SW-6, 0-4.1		02/09/24 08:32 AM	02/26/2024
2402322-15	C-116, 4.1		02/09/24 08:00 AM	02/26/2024
2402322-16	C-117, 4.1		02/09/24 09:01 AM	02/26/2024
2402322-17	C-118, 4.1		02/09/24 09:09 AM	02/26/2024
2402322-18	C-119, 4.1		02/09/24 09:06 AM	02/26/2024
2402322-19	C-120, 4.1		02/09/24 09:08 AM	02/26/2024
2402322-20	C-121, 4.1		02/09/24 09:10 AM	02/26/2024
2402322-21	C-122, 4.1		02/09/24 09:12 AM	02/26/2024
2402322-22	C-123, 4.1		02/09/24 09:14 AM	02/26/2024
2402322-23	C-124, 4.1		02/09/24 09:16 AM	02/26/2024
2402322-24	C-125, 4.1		02/09/24 09:18 AM	02/26/2024
2402322-25	C-126, 4.1		02/09/24 09:20 AM	02/26/2024
2402322-26	C-127, 4.1		02/09/24 09:22 AM	02/26/2024
2402322-27	C-128, 4.1		02/09/24 09:24 AM	02/26/2024
2402322-28	C-129, 4.1		02/09/24 09:26 AM	02/26/2024
2402322-29	C-130, 4.1		02/09/24 09:28 AM	02/26/2024
2402322-30	C-131, 4.1		02/09/24 09:30 AM	02/26/2024
2402322-31	C-132, 4.1		02/09/24 09:32 AM	02/26/2024
2402322-32	C-133, 4.1		02/09/24 09:34 AM	02/26/2024
2402322-33	C-134, 4.1		02/09/24 09:36 AM	02/26/2024
2402322-34	C-135, 4.1		02/09/24 09:38 AM	02/26/2024
2402322-35	C-136, 4.1		02/09/24 09:40 AM	02/26/2024
2402322-36	C-137, 4.1		02/09/24 09:42 AM	02/26/2024
2402322-37	C-138, 4.1		02/09/24 09:44 AM	02/26/2024
2402322-38	C-139, 4.1		02/09/24 09:46 AM	02/26/2024

CLIENT: Larson & Associates
Project: Culebra Bluff SE 532 Fed Coms
Lab Order: 2402322

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
2402322-39	C-140, 4.1		02/09/24 09:48 AM	02/26/2024
2402322-40	C-141, 4.1		02/09/24 09:50 AM	02/26/2024
2402322-41	C-142, 4.1		02/09/24 09:52 AM	02/26/2024
2402322-42	C-143, 4.1		02/09/24 09:54 AM	02/26/2024
2402322-43	C-144, 4.1		02/09/24 09:56 AM	02/26/2024
2402322-44	C-145, 4.1		02/09/24 09:59 AM	02/26/2024
2402322-45	C-146, 4.1		02/09/24 10:00 AM	02/26/2024
2402322-46	C-147, 4.1		02/09/24 10:02 AM	02/26/2024
2402322-47	C-148, 4.1		02/09/24 10:04 AM	02/26/2024
2402322-48	C-149, 4.1		02/09/24 10:06 AM	02/26/2024
2402322-49	C-150, 4.1		02/09/24 10:08 AM	02/26/2024
2402322-50	C-151, 4.1		02/09/24 10:10 AM	02/26/2024
2402322-51	C-152, 4.1		02/09/24 10:12 AM	02/26/2024
2402322-52	C-153, 4.1		02/09/24 10:14 AM	02/26/2024
2402322-53	C-154, 4.1		02/09/24 10:16 AM	02/26/2024

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-5, 0-4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-01
Project No:	19-0180-07	**Collection Date:**	02/06/24 11:08 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	276	244	610	J	mg/Kg-dry	100	02/26/24 06:31 PM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	18.2	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	SW-2, 0-4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-02
Project No:	19-0180-07	**Collection Date:**	02/06/24 11:29 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	300	242	606	J	mg/Kg-dry	100	02/26/24 07:09 PM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	18.4	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	SW-3, 0-4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-03
Project No:	19-0180-07	**Collection Date:**	02/06/24 02:59 PM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	296	211	527	J	mg/Kg-dry	100	02/26/24 08:06 PM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	6.57	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-12, 0-4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-04
Project No:	19-0180-07	**Collection Date:**	02/07/24 09:47 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	578	222	555		mg/Kg-dry	100	02/26/24 08:25 PM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	11.8	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	SW-4, 0-4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-05
Project No:	19-0180-07	**Collection Date:**	02/07/24 09:48 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	533	218	544	J	mg/Kg-dry	100	02/26/24 08:44 PM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	12.0	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	SW-5, 0-4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-06
Project No:	19-0180-07	**Collection Date:**	02/07/24 11:29 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	338	212	530	J	mg/Kg-dry	100	02/26/24 09:03 PM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	6.90	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-4, 0-4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-07
Project No:	19-0180-07	**Collection Date:**	02/08/24 09:49 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	136	25.3	63.2		mg/Kg-dry	10	02/28/24 01:14 AM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	21.8	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-63, 0-4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-08
Project No:	19-0180-07	**Collection Date:**	02/08/24 10:08 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	541	217	543	J	mg/Kg-dry	100	02/26/24 10:57 PM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	8.84	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-2, 0-4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-09
Project No:	19-0180-07	**Collection Date:**	02/08/24 10:36 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	145	24.5	61.1		mg/Kg-dry	10	02/28/24 01:33 AM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	21.5	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	SW-8, 0-4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-10
Project No:	19-0180-07	**Collection Date:**	02/08/24 11:32 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	279	237	592	J	mg/Kg-dry	100	02/26/24 11:35 PM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	16.9	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-59, 0-4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-11
Project No:	19-0180-07	**Collection Date:**	02/08/24 01:33 PM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	234	24.4	61.0		mg/Kg-dry	10	02/28/24 01:52 AM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	18.2	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-19, 0-4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-12
Project No:	19-0180-07	**Collection Date:**	02/08/24 02:16 PM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	212	23.9	59.9		mg/Kg-dry	10	02/28/24 02:30 AM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	18.3	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	SW-7, 0-4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-13
Project No:	19-0180-07	**Collection Date:**	02/08/24 02:17 PM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	206	24.3	60.7		mg/Kg-dry	10	02/28/24 02:49 AM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	18.1	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	SW-6, 0-4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-14
Project No:	19-0180-07	**Collection Date:**	02/09/24 08:32 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	275	238	595	J	mg/Kg-dry	100	02/27/24 01:10 AM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	18.1	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-116, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-15
Project No:	19-0180-07	**Collection Date:**	02/09/24 08:00 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	798	224	561		mg/Kg-dry	100	02/27/24 01:29 AM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	11.7	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-117, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-16
Project No:	19-0180-07	**Collection Date:**	02/09/24 09:01 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	1020	211	528		mg/Kg-dry	100	02/27/24 01:48 AM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	7.72	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-118, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-17
Project No:	19-0180-07	**Collection Date:**	02/09/24 09:09 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	1500	218	545		mg/Kg-dry	100	02/27/24 02:07 AM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	10.0	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-119, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-18
Project No:	19-0180-07	**Collection Date:**	02/09/24 09:06 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	1830	213	533		mg/Kg-dry	100	02/27/24 03:42 AM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	8.92	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-120, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-19
Project No:	19-0180-07	**Collection Date:**	02/09/24 09:08 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	1080	215	538		mg/Kg-dry	100	02/27/24 04:01 AM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	7.96	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-121, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-20
Project No:	19-0180-07	**Collection Date:**	02/09/24 09:10 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	552	210	525		mg/Kg-dry	100	02/26/24 06:18 PM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	5.64	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-122, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-21
Project No:	19-0180-07	**Collection Date:**	02/09/24 09:12 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	1360	210	524		mg/Kg-dry	100	02/26/24 06:36 PM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	5.20	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-123, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-22
Project No:	19-0180-07	**Collection Date:**	02/09/24 09:14 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	621	205	513		mg/Kg-dry	100	02/26/24 07:12 PM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	3.91	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-124, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-23
Project No:	19-0180-07	**Collection Date:**	02/09/24 09:16 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	920	208	519		mg/Kg-dry	100	02/26/24 08:06 PM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	5.20	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-125, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-24
Project No:	19-0180-07	**Collection Date:**	02/09/24 09:18 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	1130	209	523		mg/Kg-dry	100	02/26/24 08:24 PM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	6.44	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-126, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-25
Project No:	19-0180-07	**Collection Date:**	02/09/24 09:20 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	1280	205	512		mg/Kg-dry	100	02/26/24 08:42 PM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	5.57	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-127, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-26
Project No:	19-0180-07	**Collection Date:**	02/09/24 09:22 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	237	208	520	J	mg/Kg-dry	100	02/26/24 09:00 PM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	5.91	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-128, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-27
Project No:	19-0180-07	**Collection Date:**	02/09/24 09:24 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	343	204	511	J	mg/Kg-dry	100	02/26/24 09:18 PM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	5.16	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-129, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-28
Project No:	19-0180-07	**Collection Date:**	02/09/24 09:26 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	1440	213	533		mg/Kg-dry	100	02/26/24 09:36 PM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	8.36	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-130, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-29
Project No:	19-0180-07	**Collection Date:**	02/09/24 09:28 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	977	203	507		mg/Kg-dry	100	02/26/24 09:54 PM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	5.14	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-131, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-30
Project No:	19-0180-07	**Collection Date:**	02/09/24 09:30 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	3110	221	554		mg/Kg-dry	100	02/26/24 11:24 PM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	10.9	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-132, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-31
Project No:	19-0180-07	**Collection Date:**	02/09/24 09:32 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	1370	208	519		mg/Kg-dry	100	02/26/24 11:42 PM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	4.01	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-133, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-32
Project No:	19-0180-07	**Collection Date:**	02/09/24 09:34 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	1530	212	529		mg/Kg-dry	100	02/27/24 12:18 AM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	6.65	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-134, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-33
Project No:	19-0180-07	**Collection Date:**	02/09/24 09:36 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	1420	206	515		mg/Kg-dry	100	02/27/24 12:36 AM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	5.02	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-135, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-34
Project No:	19-0180-07	**Collection Date:**	02/09/24 09:38 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	1450	211	527		mg/Kg-dry	100	02/27/24 12:54 AM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	6.29	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-136, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-35
Project No:	19-0180-07	**Collection Date:**	02/09/24 09:40 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	1480	219	548		mg/Kg-dry	100	02/27/24 01:12 AM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	10.8	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-137, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-36
Project No:	19-0180-07	**Collection Date:**	02/09/24 09:42 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	2230	225	562		mg/Kg-dry	100	02/27/24 01:30 AM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	11.9	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-138, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-37
Project No:	19-0180-07	**Collection Date:**	02/09/24 09:44 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	1240	206	514		mg/Kg-dry	100	02/27/24 01:48 AM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	6.47	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-139, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-38
Project No:	19-0180-07	**Collection Date:**	02/09/24 09:46 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	867	209	522		mg/Kg-dry	100	02/27/24 02:06 AM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	4.44	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-140, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-39
Project No:	19-0180-07	**Collection Date:**	02/09/24 09:48 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	1120	207	518		mg/Kg-dry	100	02/27/24 02:24 AM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	7.04	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-141, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-40
Project No:	19-0180-07	**Collection Date:**	02/09/24 09:50 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	717	207	516		mg/Kg-dry	100	02/27/24 06:33 AM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	5.61	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-142, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-41
Project No:	19-0180-07	**Collection Date:**	02/09/24 09:52 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	784	204	511		mg/Kg-dry	100	02/27/24 06:52 AM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	5.66	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-143, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-42
Project No:	19-0180-07	**Collection Date:**	02/09/24 09:54 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	543	209	523		mg/Kg-dry	100	02/27/24 07:30 AM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	5.07	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-144, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-43
Project No:	19-0180-07	**Collection Date:**	02/09/24 09:56 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	760	208	521		mg/Kg-dry	100	02/27/24 08:27 AM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	5.31	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-145, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-44
Project No:	19-0180-07	**Collection Date:**	02/09/24 09:59 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	851	211	527		mg/Kg-dry	100	02/27/24 08:46 AM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	5.47	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-146, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-45
Project No:	19-0180-07	**Collection Date:**	02/09/24 10:00 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	1220	206	516		mg/Kg-dry	100	02/27/24 09:05 AM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	3.68	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-147, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-46
Project No:	19-0180-07	**Collection Date:**	02/09/24 10:02 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	1180	212	530		mg/Kg-dry	100	02/27/24 09:24 AM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	7.74	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:					
	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-148, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-47
Project No:	19-0180-07	**Collection Date:**	02/09/24 10:04 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	1050	211	528		mg/Kg-dry	100	02/27/24 09:43 AM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	6.63	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-149, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-48
Project No:	19-0180-07	**Collection Date:**	02/09/24 10:06 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	1710	208	521		mg/Kg-dry	100	02/27/24 10:02 AM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	5.69	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-150, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-49
Project No:	19-0180-07	**Collection Date:**	02/09/24 10:08 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	783	215	536		mg/Kg-dry	100	02/27/24 10:21 AM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	7.71	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-151, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-50
Project No:	19-0180-07	**Collection Date:**	02/09/24 10:10 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	159	20.9	52.3		mg/Kg-dry	10	02/28/24 03:08 AM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	4.94	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-152, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-51
Project No:	19-0180-07	**Collection Date:**	02/09/24 10:12 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	861	204	509		mg/Kg-dry	100	02/27/24 12:15 PM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	2.92	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-153, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-52
Project No:	19-0180-07	**Collection Date:**	02/09/24 10:14 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	1290	210	526		mg/Kg-dry	100	02/27/24 12:53 PM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	5.34	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-Feb-24*

CLIENT:	Larson & Associates	**Client Sample ID:**	C-154, 4.1
Project:	Culebra Bluff SE 532 Fed Coms	**Lab ID:**	2402322-53
Project No:	19-0180-07	**Collection Date:**	02/09/24 10:16 AM
Lab Order:	2402322	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - SOIL		**E300.0**					Analyst: **RA**
Chloride	995	203	507		mg/Kg-dry	100	02/27/24 01:12 PM
PERCENT MOISTURE		**D2216**					Analyst: **KES**
Percent Moisture	3.18	0	0		WT%	1	02/27/24 08:30 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc. **Date:** *29-Feb-24*

CLIENT: Larson & Associates
Work Order: 2402322
Project: Culebra Bluff SE 532 Fed Coms

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_240226A

The QC data in batch 114181 applies to the following samples: 2402322-20A, 2402322-21A, 2402322-22A, 2402322-23A, 2402322-24A, 2402322-25A, 2402322-26A, 2402322-27A, 2402322-28A, 2402322-29A, 2402322-30A, 2402322-31A, 2402322-32A, 2402322-33A, 2402322-34A, 2402322-35A, 2402322-36A, 2402322-37A, 2402322-38A, 2402322-39A

Sample ID: **MB-114181** Batch ID: **114181** TestNo: **E300.0** Units: **mg/Kg**
SampType: **MBLK** Run ID: **IC2_240226A** Analysis Date: **2/26/2024 10:31:35 AM** Prep Date: **2/26/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	<2.00	5.00	0							

Sample ID: **LCS-114181** Batch ID: **114181** TestNo: **E300.0** Units: **mg/Kg**
SampType: **LCS** Run ID: **IC2_240226A** Analysis Date: **2/26/2024 10:49:35 AM** Prep Date: **2/26/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	43.5	5.00	50.00	0	87.1	80	120			

Sample ID: **LCSD-114181** Batch ID: **114181** TestNo: **E300.0** Units: **mg/Kg**
SampType: **LCSD** Run ID: **IC2_240226A** Analysis Date: **2/26/2024 11:07:35 AM** Prep Date: **2/26/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	43.8	5.00	50.00	0	87.5	80	120	0.546	15	

Sample ID: **2402322-21A-DUP** Batch ID: **114181** TestNo: **E300.0** Units: **mg/Kg-dry**
SampType: **DUP** Run ID: **IC2_240226A** Analysis Date: **2/26/2024 6:54:36 PM** Prep Date: **2/26/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	1320	518	0	1363				2.85	10	

Sample ID: **2402322-22AMS** Batch ID: **114181** TestNo: **E300.0** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **IC2_240226A** Analysis Date: **2/26/2024 7:30:36 PM** Prep Date: **2/26/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	659	513	102.6	621.3	36.3	80	120			S

Sample ID: **2402322-22AMSD** Batch ID: **114181** TestNo: **E300.0** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **IC2_240226A** Analysis Date: **2/26/2024 7:48:36 PM** Prep Date: **2/26/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	656	513	102.6	621.3	33.4	80	120	0.455	15	S

Sample ID: **2402322-31A-DUP** Batch ID: **114181** TestNo: **E300.0** Units: **mg/Kg-dry**
SampType: **DUP** Run ID: **IC2_240226A** Analysis Date: **2/27/2024 12:00:36 AM** Prep Date: **2/26/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	1360	513	0	1374				1.09	10	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: Larson & Associates
Work Order: 2402322
Project: Culebra Bluff SE 532 Fed Coms

ANALYTICAL QC SUMMARY REPORT

RunID: IC4_240226A

The QC data in batch 114178 applies to the following samples: 2402322-01A, 2402322-02A, 2402322-03A, 2402322-04A, 2402322-05A, 2402322-06A, 2402322-07A, 2402322-08A, 2402322-09A, 2402322-10A, 2402322-11A, 2402322-12A, 2402322-13A, 2402322-14A, 2402322-15A, 2402322-16A, 2402322-17A, 2402322-18A, 2402322-19A

Sample ID: **MB-114178** Batch ID: **114178** TestNo: **E300.0** Units: **mg/Kg**
SampType: **MBLK** Run ID: **IC4_240226A** Analysis Date: **2/26/2024 10:35:21 AM** Prep Date: **2/26/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	<2.00	5.00								

Sample ID: **LCS-114178** Batch ID: **114178** TestNo: **E300.0** Units: **mg/Kg**
SampType: **LCS** Run ID: **IC4_240226A** Analysis Date: **2/26/2024 10:54:21 AM** Prep Date: **2/26/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	48.5	5.00	50.00	0	96.9	80	120			

Sample ID: **LCSD-114178** Batch ID: **114178** TestNo: **E300.0** Units: **mg/Kg**
SampType: **LCSD** Run ID: **IC4_240226A** Analysis Date: **2/26/2024 11:13:21 AM** Prep Date: **2/26/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	48.6	5.00	50.00	0	97.2	80	120	0.276	15	

Sample ID: **2402322-01A-DUP** Batch ID: **114178** TestNo: **E300.0** Units: **mg/Kg-dry**
SampType: **DUP** Run ID: **IC4_240226A** Analysis Date: **2/26/2024 6:50:52 PM** Prep Date: **2/26/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	<238	595	0	275.6				0	10	

Sample ID: **2402322-02AMS** Batch ID: **114178** TestNo: **E300.0** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **IC4_240226A** Analysis Date: **2/26/2024 7:28:52 PM** Prep Date: **2/26/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	297	598	119.5	300.4	-3.24	80	120			S

Sample ID: **2402322-02AMSD** Batch ID: **114178** TestNo: **E300.0** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **IC4_240226A** Analysis Date: **2/26/2024 7:47:52 PM** Prep Date: **2/26/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	356	598	119.5	300.4	46.2	80	120	18.1	15	SR

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: Larson & Associates
Work Order: 2402322
Project: Culebra Bluff SE 532 Fed Coms

ANALYTICAL QC SUMMARY REPORT

RunID: IC4_240226B

The QC data in batch 114182 applies to the following samples: 2402322-40A, 2402322-41A, 2402322-42A, 2402322-43A, 2402322-44A, 2402322-45A, 2402322-46A, 2402322-47A, 2402322-48A, 2402322-49A, 2402322-50A, 2402322-51A, 2402322-52A, 2402322-53A

Sample ID: **MB-114182** Batch ID: **114182** TestNo: **E300.0** Units: **mg/Kg**
SampType: **MBLK** Run ID: **IC4_240226B** Analysis Date: **2/27/2024 5:36:51 AM** Prep Date: **2/26/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	<2.00	5.00								

Sample ID: **LCS-114182** Batch ID: **114182** TestNo: **E300.0** Units: **mg/Kg**
SampType: **LCS** Run ID: **IC4_240226B** Analysis Date: **2/27/2024 5:55:51 AM** Prep Date: **2/26/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	49.1	5.00	50.00	0	98.1	80	120			

Sample ID: **2402322-51A-DUP** Batch ID: **114182** TestNo: **E300.0** Units: **mg/Kg-dry**
SampType: **DUP** Run ID: **IC4_240226B** Analysis Date: **2/27/2024 12:34:51 PM** Prep Date: **2/26/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	865	508	0	861.0				0.488	10	

Sample ID: **LCSD-114182** Batch ID: **114182** TestNo: **E300.0** Units: **mg/Kg**
SampType: **LCSD** Run ID: **IC4_240226B** Analysis Date: **2/27/2024 6:14:51 AM** Prep Date: **2/26/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	50.5	5.00	50.00	0	101	80	120	2.78	15	

Sample ID: **2402322-41A-DUP** Batch ID: **114182** TestNo: **E300.0** Units: **mg/Kg-dry**
SampType: **DUP** Run ID: **IC4_240226B** Analysis Date: **2/27/2024 7:11:51 AM** Prep Date: **2/26/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	820	512	0	783.8				4.50	10	

Sample ID: **2402322-42AMS** Batch ID: **114182** TestNo: **E300.0** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **IC4_240226B** Analysis Date: **2/27/2024 7:49:51 AM** Prep Date: **2/26/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	702	508	101.7	543.3	156	80	120			S

Sample ID: **2402322-42AMSD** Batch ID: **114182** TestNo: **E300.0** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **IC4_240226B** Analysis Date: **2/27/2024 8:08:51 AM** Prep Date: **2/26/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	694	508	101.7	543.3	149	80	120	1.15	15	S

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: Larson & Associates
Work Order: 2402322
Project: Culebra Bluff SE 532 Fed Coms

ANALYTICAL QC SUMMARY REPORT

RunID: IC4_240227A

The QC data in batch 114178 applies to the following samples: 2402322-01A, 2402322-02A, 2402322-03A, 2402322-04A, 2402322-05A, 2402322-06A, 2402322-07A, 2402322-08A, 2402322-09A, 2402322-10A, 2402322-11A, 2402322-12A, 2402322-13A, 2402322-14A, 2402322-15A, 2402322-16A, 2402322-17A, 2402322-18A, 2402322-19A

Sample ID: **2402322-11A-DUP** Batch ID: **114178** TestNo: **E300.0** Units: **mg/Kg-dry**
SampType: **DUP** Run ID: **IC4_240227A** Analysis Date: **2/28/2024 2:11:40 AM** Prep Date: **2/26/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	318	60.0	0	233.9				30.6	10	R

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: Larson & Associates
Work Order: 2402322
Project: Culebra Bluff SE 532 Fed Coms

ANALYTICAL QC SUMMARY REPORT

RunID: **PMOIST_240226A**

The QC data in batch 114184 applies to the following samples: 2402322-01A, 2402322-02A, 2402322-03A, 2402322-04A, 2402322-05A, 2402322-06A, 2402322-07A, 2402322-08A, 2402322-09A, 2402322-10A, 2402322-11A, 2402322-12A, 2402322-13A, 2402322-14A, 2402322-15A, 2402322-16A, 2402322-17A, 2402322-18A, 2402322-19A, 2402322-20A

Sample ID: **2402322-20A-DUP** Batch ID: **114184** TestNo: **D2216** Units: **WT%**
SampType: **DUP** Run ID: **PMOIST_240226A** Analysis Date: **2/27/2024 8:30:00 AM** Prep Date: **2/26/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	5.65	0	0	5.644				0.051	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: Larson & Associates
Work Order: 2402322
Project: Culebra Bluff SE 532 Fed Coms

ANALYTICAL QC SUMMARY REPORT

RunID: **PMOIST_240226B**

The QC data in batch 114185 applies to the following samples: 2402322-21A, 2402322-22A, 2402322-23A, 2402322-24A, 2402322-25A, 2402322-26A, 2402322-27A, 2402322-28A, 2402322-29A, 2402322-30A, 2402322-31A, 2402322-32A, 2402322-33A, 2402322-34A, 2402322-35A, 2402322-36A, 2402322-37A, 2402322-38A, 2402322-39A, 2402322-40A

Sample ID: **2402322-40A-DUP** Batch ID: **114185** TestNo: **D2216** Units: **WT%**
SampType: **DUP** Run ID: **PMOIST_240226B** Analysis Date: **2/27/2024 8:30:00 AM** Prep Date: **2/26/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	5.54	0	0	5.610				1.26	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: Larson & Associates
Work Order: 2402322
Project: Culebra Bluff SE 532 Fed Coms

ANALYTICAL QC SUMMARY REPORT

RunID: **PMOIST_240226C**

The QC data in batch 114186 applies to the following samples: 2402322-41A, 2402322-42A, 2402322-43A, 2402322-44A, 2402322-45A, 2402322-46A, 2402322-47A, 2402322-48A, 2402322-49A, 2402322-50A, 2402322-51A, 2402322-52A, 2402322-53A

Sample ID: **2402322-41A-DUP** Batch ID: **114186** TestNo: **D2216** Units: **WT%**
SampType: **DUP** Run ID: **PMOIST_240226C** Analysis Date: **2/27/2024 8:30:00 AM** Prep Date: **2/26/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	5.23	0	0	5.660				7.87	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

Appendix F

Photographs

nAB1909160291 spill area viewing west, February 20, 2019

nAB1909160291 spill area viewing southwest, February 20, 2019

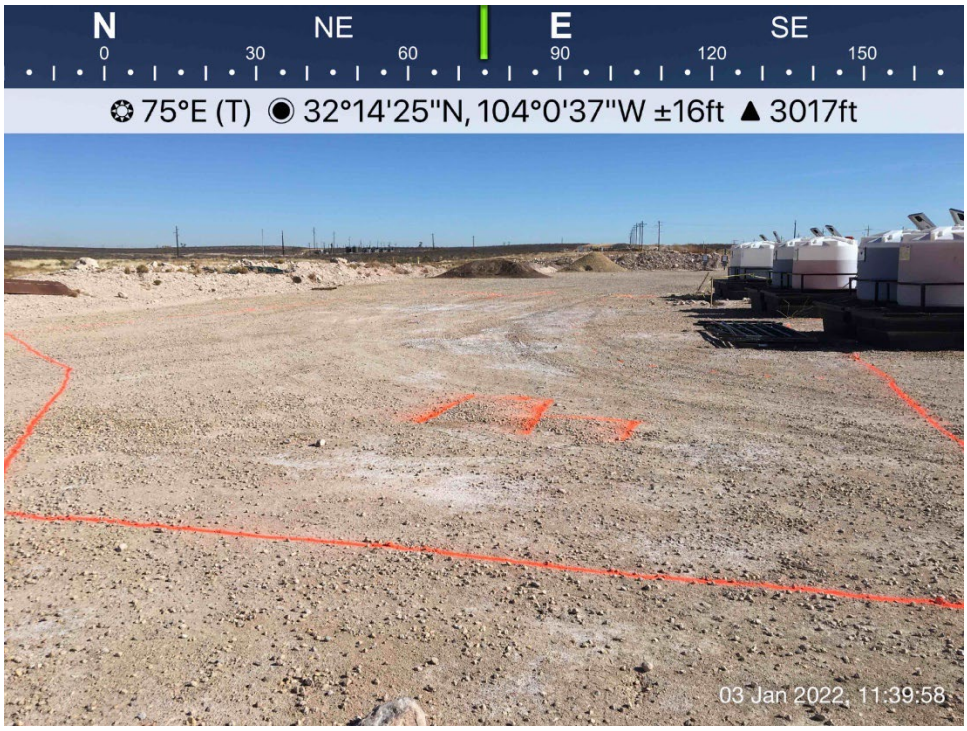
Tracking Number: nAB1902541117/nAB1906052173/nAB1909160291
Closure Report - Brine Water, Oil and Diesel Based Drilling Mud Releases
Chevron USA, Inc. - Culebra Bluff SE 5 32 Fed Com 3
April 26, 2024

nAB1909160291 spill area viewing west, February 20, 2019

Spill area viewing west, January 3, 2022

Spill area viewing southwest, January 3, 2022

Western excavation area viewing southwest, January 3, 2022



Eastern excavation area viewing east, January 3, 2022

Eastern excavation area viewing east, January 11, 2022

Western excavation areas viewing northeast, January 11, 2022

Western excavation area viewing southwest, January 11, 2022

Excavation areas viewing west, July 6, 2023

Excavation areas viewing east, July 6, 2023

Excavation areas viewing southeast, July 6, 2023

Excavation areas viewing north, July 6, 2023

Backfilled excavation and additional sidewall excavated soil viewing west, February 29, 2024

Backfilled excavation and additional sidewall excavated soil viewing southeast, February 29, 2024

Backfilled excavation and additional sidewall excavated soil viewing northeast, July 6, 2024

Backfilled excavation and additional sidewall excavated soil viewing northwest, July 6, 2024

Tracking Number: nAB1902541117/nAB1906052173/nAB1909160291
Closure Report - Brine Water, Oil and Diesel Based Drilling Mud Releases
Chevron USA, Inc. - Culebra Bluff SE 5 32 Fed Com 3
April 26, 2024

Backfilled excavation viewing west, March 8, 2024

Backfilled excavation viewing northeast, March 8, 2024

Tracking Number: nAB1902541117/nAB1906052173/nAB1909160291
Closure Report - Brine Water, Oil and Diesel Based Drilling Mud Releases
Chevron USA, Inc. - Culebra Bluff SE 5 32 Fed Com 3
April 26, 2024

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

QUESTIONS

Action 342030

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 342030
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAB1902541117**
Incident Name	**NAB1902541117 CB SE 5 32 FEDERAL COM 3 #003H @ 30-015-44976**
Incident Type	**Release Other**
Incident Status	**Remediation Closure Report Received**
Incident Well	**[30-015-44976] CB SE 5 32 FEDERAL COM 3 #003H**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	CB SE 5 32 FEDERAL COM 3 #003H
Date Release Discovered	01/10/2019
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	*Not answered.*
Is the concentration of chloride in the produced water >10,000 mg/l	*Not answered.*
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	Cause: Equipment Failure | Fitting | Other (Specify) | Released: 16 BBL | Recovered: 16 BBL | Lost: 0 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 342030
	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: 05/08/2024

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 342030
	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 51 and 75 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 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 ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Between ½ and 1 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	10700
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	27500
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	01/01/2022
On what date will (or did) the final sampling or liner inspection occur	02/09/2024
On what date will (or was) the remediation complete(d)	02/09/2024
What is the estimated surface area (in square feet) that will be reclaimed	24831
What is the estimated volume (in cubic yards) that will be reclaimed	3770
What is the estimated surface area (in square feet) that will be remediated	24831
What is the estimated volume (in cubic yards) that will be remediated	3770
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 342030
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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	R360 Artesia LLC LANDFARM [fEEM0112340644]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
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: 05/08/2024
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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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 (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 342030
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 342030
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**310387**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**02/06/2024**
What was the (estimated) number of samples that were to be gathered	**25**
What was the sampling surface area in square feet	**5000**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	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	24831
What was the total volume (cubic yards) remediated	3770
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	24831
What was the total volume (in cubic yards) reclaimed	3770
Summarize any additional remediation activities not included by answers (above)	n/a

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: 05/08/2024

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 342030
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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

Action 342030

CONDITIONS

Operator:	OGRID:
CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	4323
	Action Number: 342030
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	6/25/2024
scott.rodgers	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	6/25/2024