Incident Number: nAPP2308137936
Closure Report
Salado Draw 23 CTB
Condensate and Natural Gas Release
Lea County, New Mexico

Latitude: N 32.03675°
Longitude: W -103.64594°

LAI Project No. 23-0102-02

May 7, 2024

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

Prepared by:
Larson & Associates, Inc.
507 North Marienfeld Street, Suite 202
Midland, Texas 79701

Mark J. Larson, P.G.
Certified Professional Geologist #10490

Daniel St. Germain
Staff Geologist

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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 (NMOCD) District I for a condensate and natural gas release at the Salado Draw 23 CTB (Site) located in Unit N, Section 14, Township 26 South, Range 32 East in Lea County, New Mexico. The geodetic position is North 32.03675° and West -103.64594°. Figure 1 presents a topographic map.

1.1 Background

The release was discovered on March 11, 2023, due to power failure and subsequent loss of instrument air causing the control valve to open and send condensate through the gas line to the flare scrubber. Condensate mist and liquid ignited from the flare and burned as it fell to the ground. Chevron reported that 0.0232 barrels (bbls) of condensate and 0.01695 thousand cubic feet (Mcf) of natural gas were released, with no recovery. The affected area measures approximately 2,538 square feet. The initial C-141 was submitted to NMOCD District I on March 22, 2023. The release was assigned incident number nAPP2308137936. Appendix A presents the Chevron spill calculation and spill map.

1.2 Physical Setting

The physical setting is as follows:

- The surface elevation is approximately 3,163 feet above mean sea level (msl).
- The surface topography gradually decreases to the northwest.
- The nearest continuously flowing water course is located 19.7 miles to the southwest.
- The nearest lakebed, sinkhole, or playa lake is located 1.5 miles to the southeast.
- The nearest wetland is located 1.5 miles to the southeast.
- The nearest subsurface mine is located 26 miles to the northwest.
- The Site is not located in a 100-year floodplain.
- There nearest freshwater well for stock watering purposes is 2.3 miles to the southwest.
- USGS karst occurrence potential data designates the area as medium risk.
- The soils are designated as Pyote and Maljamar fine sands, where the Pyote setting consists of 0-30 inches of fine sand, underlain by 30-60 inches of fine sandy loam; and where the Maljamar setting consists of 0-24 inches of fine sand, underlain by 24-50 inches of sandy clay loam, and 50-60 inches of cemented material (caliche).
- The geology is described as Holocene to middle Pleistocene aged eolian and piedmont deposits consisting of interlayered eolian sands and piedmont-slope deposits.
- Groundwater is greater than 115 feet below ground surface based on two dry borings, BH-1 and SB-1, located 0.81 and 1.05 miles from the Site, respectfully. The borings were drilled to 115 feet bgs on October 12, 2023 (BH-1) and April 14, 2020 (SB-1) and gauged 72-hours after completion.

Figure 3 presents an aerial map showing the boring location. Appendix B presents the karst risk potential map. Appendix C presents the boring logs (BH-1 and SB-1).

1.3 Remediation Standards

The following remediation standards are based on closure criteria for soils impacted by a release where groundwater is greater than 100 feet bgs as presented in Table 1 of 19.15.29 NMAC:

Parameter	Limit
Benzene	10 mg/Kg
BTEX	50 mg/Kg
TPH	2,500 mg/Kg
Chloride	20,000 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 May 25, 2023, LAI personnel used a stainless-steel hand auger to collect vertical delineation soil samples from six (6) sample locations inside of the spill area (S-1 through S-6). Additionally, four (4) horizontal delineation samples (S-7 through S-10) were collected in each cardinal direction of the spill. Vertical delineation soil samples were collected to three (3) feet bgs, depending on subsurface conditions. The samples were delivered under chain-of-custody and preservation to Eurofins-Xenco Laboratories (Xenco) in Midland, Texas. The samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) and total petroleum hydrocarbons (TPH), including gasoline range organics (GRO), diesel range organics (DRO) and oil range organics (MRO), by EPA SW-846 Method 8021B, EPA SW-846 Method 8015M, and EPA Method 300, respectfully. Xenco reported benzene, BTEX, and chloride below the NMOCD delineation limits of 10 mg/Kg, 50 mg/Kg, and 600 mg/Kg, respectively. TPH exceeded the delineation limit of 100 mg/Kg in samples S-2 at 2 feet bgs (340 mg/Kg), S-7 at 0-1 feet bgs (900 mg/Kg), and S-8 at 0-1 feet bgs (636 mg/Kg).

On July 11, 2023, LAI personnel used a Geoprobe 7822DT direct push rig to further delineate the sample locations S-2, S-7, and S-8, to a depth of about ten (10) feet bgs. Samples were collected at one (1), three (3), five (5), and ten (10) feet bgs. Two additional horizontal delineation soil samples, S-11 and S-12 were collected to the south and the east of the spill area, respectively, at 0-1 feet bgs. Xenco reported that the lowermost sample collected from each location was below the delineation limit for benzene, BTEX, TPH, and chloride.

Laboratory analysis demonstrates that the release was delineated horizontally and vertically according to the NMOCD remediation and closure requirements for groundwater occurring at a depth greater than 100 feet bgs. Table 1 presents the delineation soil samples analytical data summary. Figure 2 presents an aerial map showing the sample locations and proposed excavation areas.

3.0 REMEDIATION

Between January 9 and February 19, 2024, SDR Enterprises (SDR), under the guidance of LAI, excavated about 262 cubic yards of impacted soil from an area of about 3,707 square feet, including 598 square feet on the pad and 3,109 square feet in the pasture. The impacted soil was stockpiled on a plastic liner adjacent to the excavation prior to being transported and disposed of at the Milestone Environmental Services - Orla facility, in Reeves County, Texas.

LAI personnel collected a total of 31 confirmation soil samples from 30 sample areas, including 30 initial confirmation samples and one (1) final confirmation sample (C-24) from an area were additional excavation occurred due to laboratory analysis showing TPH at 105 mg/Kg, and above NMOCD closure criteria as described in Table 1 of 19.15.29 NMAC. Each initial confirmation sample represents an area of approximately 200 square feet. All samples were transported under chain-of-custody and preservation to Eurofins-Xenco Laboratory (Xenco) in Midland, Texas, and were analyzed for BTEX by EPA SW-846 Method 8021B; TPH, including gasoline range organics (GRO), diesel range organics (DRO), and oil range organics (MRO) by EPA SW-846 Method 8015M; and chloride by EPA Method 300. Sampling notification was submitted to the NMOCD on January 9, 2024.

On February 19, 2024, LAI personnel collected one sample (C-24) from the sidewall where additional excavation was performed due to TPH being reported above closure criteria. Xenco analyzed the sample and reported that it was below closure criteria for benzene, BTEX, TPH, and chloride. Sampling notification was submitted to the NMOCD on February 14, 2024.

Laboratory analysis demonstrates that benzene, BTEX, TPH, and chloride are below NMOCD closure standards outlined in Table 1 of 19.15.29 NMAC in all confirmation soil samples. Table 2 presents the confirmation soil sample analytical summary. Figure 4 presents an aerial map with excavation boundaries and confirmation soil sample locations.

On January 12, 2024, LAI personnel collected two (2) backfill soil samples (BF-1 and BF-2) of non-waste containing backfill material from the Battle Axe Ranch borrow pit in Lea County, New Mexico. Xenco analyzed the samples and reported benzene, BTEX, and TPH below analytical method reporting limits. Chloride was 52.7 mg/Kg (BF-1) and 155 mg/Kg (BF-2).

Between February 20 and 22, 2024, SDR backfilled the excavation area on the pad with about 22.2 cubic yards of caliche. Excavation areas in the pasture were backfilled with about 230.2 cubic yards of topsoil. Table 2 presents the backfill soil sample analytical summary. Appendix D presents NMOCD communications. Appendix E presents the laboratory reports. Appendix F Presents the photographic documentation.

4.0 RECLAMATION

On February 22, 2024, LAI personnel seeded the backfilled area (3,109 square feet) located in the pasture with two (2) pounds of BLM #2 seed mix, consisting of Bristlegrass Plains (46.19%), Dropseed Sand (22.39%), Lovegrass Sand (22.16%), and inert material (9.24%). The seed was distributed with a broadcast spreader and covered with a thin layer of topsoil. Appendix F Presents the photographic documentation.

5.0 CLOSURE REQUEST

Chevron requests closure approval for nAPP2308137936.

Tables

Table 1
Soil Sample Analytical Data Summary
Chevron - Salado Draw 23 CTB
Lea County, New Mexico
32° 02' 12.32332" N, 103° 38' 45.41067" W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				**10**	**50**				**100/2,500**	**600/20,000**
S-1	0 - 1	5/25/2023	In-Situ	<0.00198	<0.00396	<50.0	108	<50.0	**108**	48.8
	2	5/25/2023	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	78.4
	3	5/25/2023	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	64.5
S-2	0 - 1	5/25/2023	In-Situ	<0.00201	<0.00402	<50.0	249	62.3	**311**	45.3
	2	5/25/2023	In-Situ	<0.00200	<0.00401	<50.0	277	63.2	**340**	45.3
	1	7/11/2023	In-Situ	<0.00198	<0.00396	<50.2	52.7	<50.2	52.7	131
	3	7/11/2023	In-Situ	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	77.3
	5	7/11/2023	In-Situ	<0.00202	<0.00403	<49.6	403	<49.6	403	60.1
	8	7/11/2023	In-Situ	<0.00198	<0.00396	<49.6	<49.6	<49.6	<49.6	110
S-3	0 - 1	5/25/2023	In-Situ	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	76.0
	2	5/25/2023	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	64.6
S-4	0 - 1	5/25/2023	In-Situ	<0.00200	<0.00399	<49.9	168	<49.9	**168**	57.1
	2	5/25/2023	In-Situ	<0.00201	<0.00402	<50.0	51.9	<50.0	51.9	65.3
S-5	0 - 1	5/25/2023	In-Situ	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	41.7
	2	5/25/2023	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	93.8
S-6	0 - 1	5/25/2023	In-Situ	<0.00199	<0.00398	<49.8	177	<49.8	**177**	73.9
	2	5/25/2023	In-Situ	<0.00200	<0.00399	<50.0	64.6	<50.0	64.6	67.8
S-7	0 - 1	5/25/2023	In-Situ	<0.00201	<0.00402	<49.9	900.0	<49.9	**900**	45.1
	1	7/11/2023	In-Situ	<0.00199	<0.00398	<50.3	<50.3	<50.3	<50.3	61.5
	3	7/11/2023	In-Situ	<0.00199	<0.00398	72.3	<50.1	<50.1	72.3	33.4
	5	7/11/2023	In-Situ	<0.00200	<0.00400	<50.2	111	<50.2	111	64.9

Table 1
Soil Sample Analytical Data Summary
Chevron - Salado Draw 23 CTB
Lea County, New Mexico
32° 02' 12.32332" N, 103° 38' 45.41067" W

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Delineation Limit:				**10**	**50**				**100/2,500**	**600/20,000**
	10	7/11/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	47.6	47.6
S-8	0 - 1	5/25/2023	In-Situ	<0.00202	<0.00404	<49.9	636	<49.9	**636**	78.1
	1	7/11/2023	In-Situ	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	45.1
	3	7/11/2023	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	100
	4.5	7/11/2023	In-Situ	<0.00198	<0.00396	<50.3	63.8	<50.3	63.8	63.6
S-9	0 - 1	5/25/2023	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	75.3
S-10	0 - 1	5/25/2023	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	77.3
S-11	0 -1	7/11/2023	In-Situ	<0.00200	<0.00399	<50.4	<50.4	<50.4	<50.4	329
S-12	0 - 1	8/11/2023	In-Situ	<0.00200	<0.00399	<50.5	<50.5	<50.5	<50.5	61.5

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

Table 2
Confirmation Soil Sample Analytical Data Summary
Salado Draw 23 CTB
Lea County, New Mexico
32° 02' 12.32332" N, 103° 38' 45.41067" W

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)
Closure Criteria:					***10***	***50***				***100/2,500***	***600/20,000***
C-1	Bottom	2	01/12/2024	In-Situ	<0.00199	<0.00398	<49.5	**53.7**	<49.5	**53.7**	6.5
C-2	Bottom	2	01/12/2024	In-Situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	5.9
C-3	Bottom	2	01/12/2024	In-Situ	<0.00200	<0.00401	<50.2	<50.2	<50.2	<50.2	5.8
C-4	Bottom	2	01/12/2024	In-Situ	<0.00199	<0.00398	<50.4	<50.4	<50.4	<50.4	<5.00
C-5	Bottom	2	01/12/2024	In-Situ	<0.00200	<0.00399	<49.6	<49.6	<49.6	<49.6	11.1
C-6	Bottom	3	01/12/2024	In-Situ	<0.00198	<0.00397	<49.7	<49.7	<49.7	<49.7	5.3
C-7	Bottom	3	01/12/2024	In-Situ	<0.00200	<0.00400	<49.6	<49.6	<49.6	<49.6	<4.97
C-8	Bottom	3	01/12/2024	In-Situ	<0.00198	<0.00396	<50.3	<50.3	<50.3	<50.3	8.2
C-9	Bottom	2	01/12/2024	In-Situ	<0.00201	<0.00402	<50.5	<50.5	<50.5	<50.5	<4.98
C-10	Bottom	2	01/12/2024	In-Situ	<0.00202	<0.00403	<50.1	<50.1	<50.1	<50.1	<5.05
C-11	Bottom	2	01/12/2024	In-Situ	<0.00202	<0.00404	<50.4	<50.4	<50.4	<50.4	12.5
C-12	Bottom	2	01/12/2024	In-Situ	<0.00200	<0.00401	<50.5	<50.5	<50.5	<50.5	26.1
C-13	Bottom	2	01/12/2024	In-Situ	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	<4.95
C-14	Bottom	1	01/12/2024	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	7.3
C-15	Bottom	1	01/12/2024	In-Situ	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	<4.98
C-16	Bottom	1	01/12/2024	In-Situ	<0.00202	<0.00403	<49.5	<49.5	<49.5	<49.5	6.8
C-17	Bottom	1	01/12/2024	In-Situ	<0.00202	<0.00404	<50.3	<50.3	<50.3	<50.3	7.0
C-18	Sidewall	0 - 2	01/12/2024	In-Situ	<0.00200	<0.00399	<50.1	<50.1	<50.1	<50.1	<4.99
C-19	Sidewall	0 - 2	01/12/2024	In-Situ	<0.00198	<0.00397	<50.4	<50.4	<50.4	<50.4	<5.04
C-20	Sidewall	0 - 3	01/12/2024	In-Situ	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5	6.4
C-21	Sidewall	0 - 2	01/12/2024	In-Situ	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	<4.96
C-22	Sidewall	0 - 3	01/12/2024	In-Situ	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	<4.97
C-23	Sidewall	0 - 2	01/12/2024	In-Situ	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<5.05
C-24	Sidewall	0 - 1	01/12/2024	Excavated	<0.00200	<0.00400	<49.7	**105**	<49.7	**105**	<5.02
C-24	Sidewall	1 - 1	02/19/2024	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	62.0
C-25	Sidewall	0 - 1	01/12/2024	In-Situ	<0.00198	<0.00396	<50.3	<50.3	<50.3	<50.3	<5.01
C-26	Sidewall	0 - 1	01/12/2024	In-Situ	<0.00199	<0.00398	<50.2	<50.2	<50.2	<50.2	<4.99
C-27	Sidewall	0 - 1	01/12/2024	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	9.3

Table 2
Confirmation Soil Sample Analytical Data Summary
Salado Draw 23 CTB
Lea County, New Mexico
32° 02' 12.32332" N, 103° 38' 45.41067" W

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)
Closure Criteria:					***10***	***50***				***100/2,500***	***600/20,000***
C-28	Bottom	1	01/12/2024	In-Situ	<0.00198	<0.00397	<50.1	<50.1	<50.1	<50.1	<4.95
C-29	Bottom	1	01/12/2024	In-Situ	<0.00200	<0.00401	<50.4	<50.4	<50.4	<50.4	<4.97
C-30	Bottom	1	01/12/2024	In-Situ	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5	<5.00
Backfill Samples											
BF-1	--	--	01/12/2024	In-situ	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	52.7
BF-2	--	--	01/12/2024	In-situ	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	155

Notes:

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

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

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

Depth reported in feet below ground surface (bgs)

Bold and highlighted indicates parameter concentration is above NMOCD closure criteria

Figures

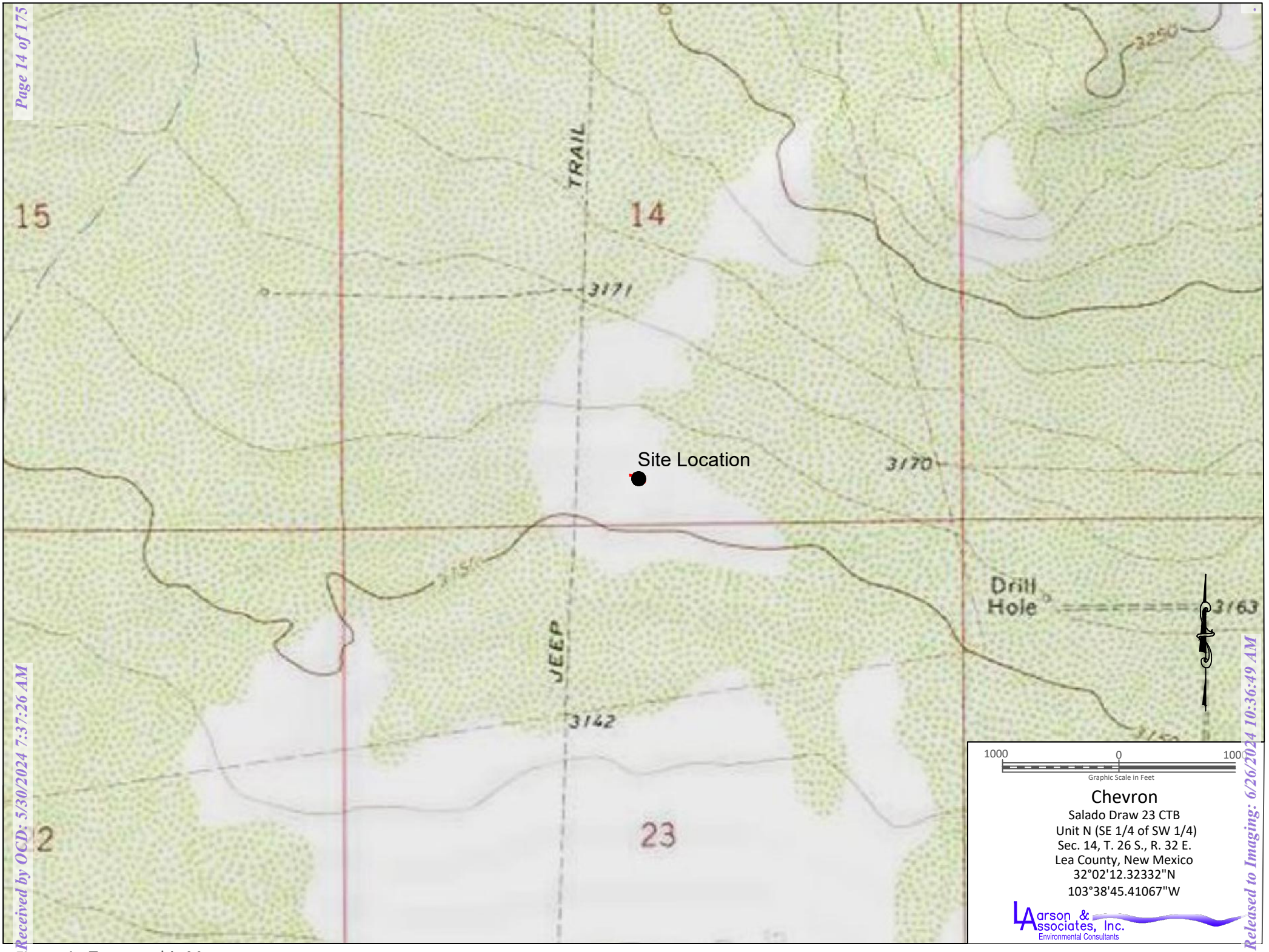

Figure 1 - Topographic Map

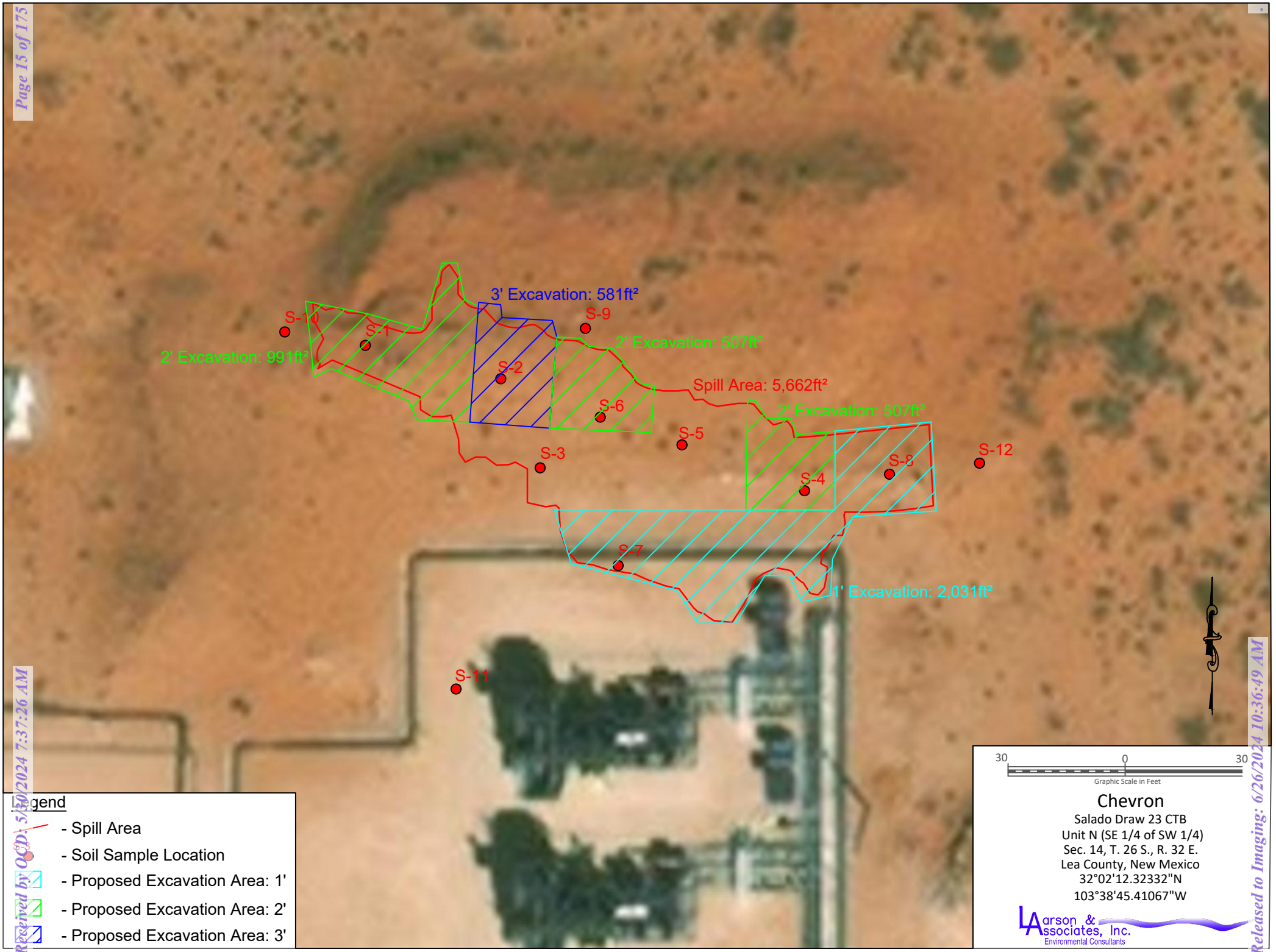

Figure 2 - Aerial Map Showing Proposed Excavation Locations

Figure 3 - Aerial Map Showing Boring Locations

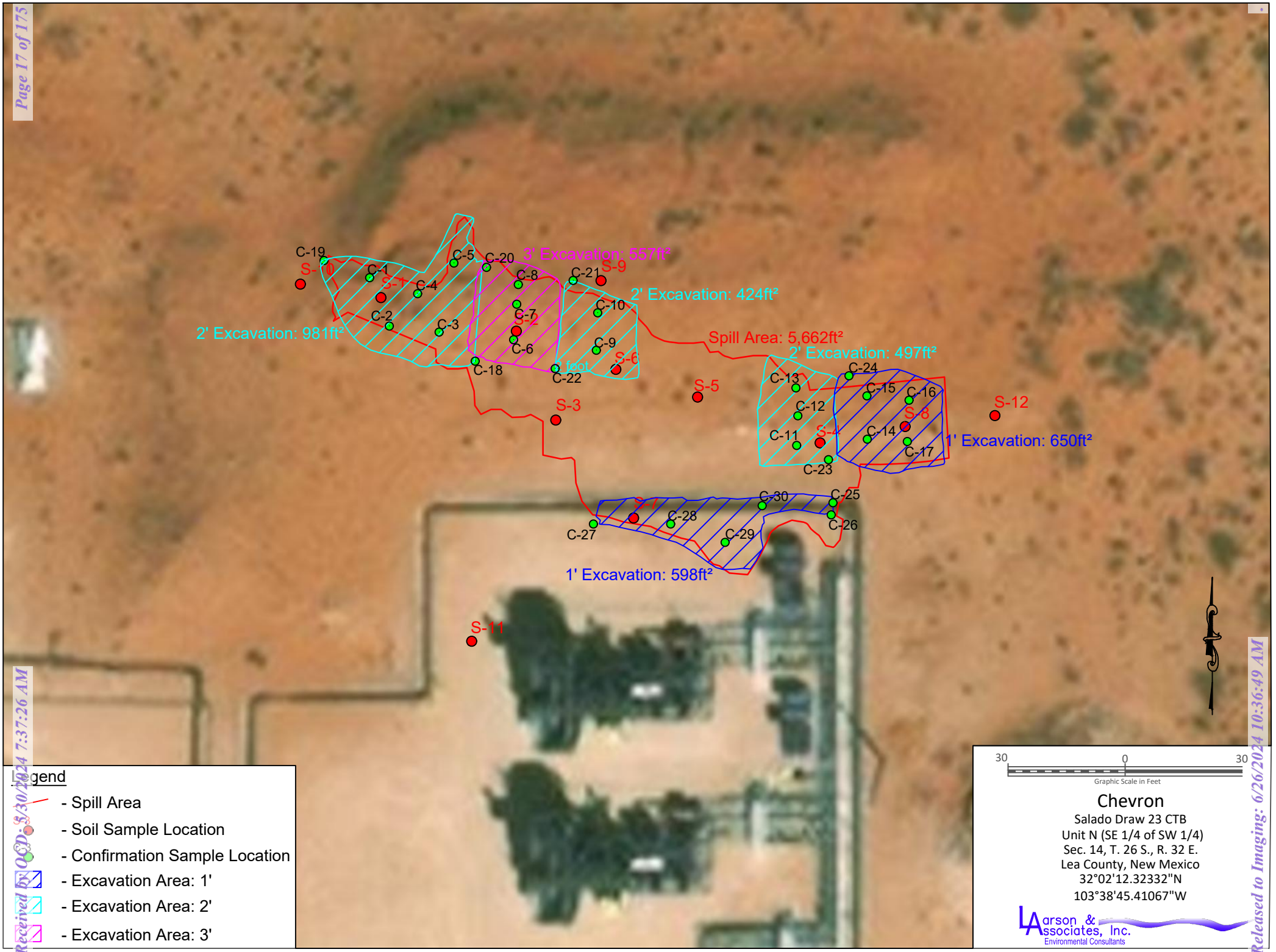

Figure 4 - Aerial Map Showing Excavation Locations and Confirmation Sample Locations

Appendix A

Initial C-141

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	nAPP2308137936
District RP	
Facility ID	fAPP2134340195
Application ID	

Release Notification

Responsible Party

Responsible Party: Chevron U.S.A., Inc.	OGRID: 4323
Contact Name: Catherine Smith	Contact Telephone: 432-967-9487
Contact email: catherinesmith@chevron.com	Incident # nAPP2308137936
Contact mailing address:6301 Deauville Blvd Midland, TX 79706	

Location of Release Source

Latitude: 32.035793 Longitude: -103.646698
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Salado Draw 23 Central Tank Battery	Site Type: Oil
Date Release Discovered: 3/11/2023	API# *(if applicable):*

Unit Letter	Section	Township	Range	County
N	14	26S	32E	Lea

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): 0.0232	Volume Recovered (bbls)
☒ Natural Gas	Volume Released (Mcf): 0.01695	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

Power failure and subsequent loss of instrument air caused the control valve to open and send condensate to the flare scrubber through the gas line. Condensate mist and liquid ignited from the flare and burned as it fell to the ground.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2308137936
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? Fluid release causing a fire.

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

Yes, by Catherine Smith to Mike Bratcher 3/12/2023 by email.

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.

Printed Name: ____Catherine Smith_____ Title: _Lead Environmental Specialist, Field Support _____

Signature: _____ Date: 3/22/2023_____

email: _____catherinesmith@chevron.com _____ Telephone: ____432-967-9487_____

OCD Only

Received by: _____ Date: _____

Form C-141
Page 3

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2308137936
District RP	
Facility ID	
Application ID	

Spill Calculations:

	Horizontal Dimensions			Vertical Dimensions		Calculated Volume		
	Diameter (feet)	Length (feet)	Width (feet)	Abovegrade Depth (feet)	Belowgrade Depth (feet)	Water Cut (%)	Condensate (ft^3)	Condensate (bbl)
Area 1		5	5	0.00520833	0		0.13020825	0.023191131

Volume of Natural Gas/Condensate Flared			
Volume of Condensate	0.0232	bbl	0.9744
Weight of Condensate	6.610	lb/gallon	
Weight of VOC Evaporated	7.139	lb VOC	Volume of condensate evaporated
Vapor Volume	17.400	scf/gal	
Gas Volume Burned	16.95456	scf	Volume of condensate burned

Appendix B

Karst Potential Map


Salado Draw 23 CTB
Medium

Appendix C

Boring Logs

BORING RECORD

Start: 12:39
Finish: 14:32

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
	0	Caliche, 5YR 8/1, White, Fill	Caliche							SOIL : PPM
	5	Silty Sand, 5YR 5/6, Yellowish Red, Very Fine Grained Quartz, Poorly Sorted,Grain Imbedded with Caliche below 5', White, 5YR 8/1, Quartz Sand, Medium to Coarse Grade	SM							SOIL : PPM
	10									
	15									
	20	Sand, 7.5YR 5/6, Strong Brown, Very Fine Grained Quartz Sand, Rounded, Poorly Sorted Reddish Brown, 5YR 5/4, Yellowish Red, 5YR 5/6, below 20', Dry	SW			2			20	12:47
	25									
	30	Thin Caliche Beds Below 25', Indurated, 5YR 7/0, Pink, Moderately Hard								
	35	Sandstone Harder Below 30', Hard at 35'-40', Fine to Very Fine Grained Quartz Sand, Very Well Cemented	Sand Stone							
	40	Shale (Red Bed), 2.5YR 4/6, Red, Very Fine Grained, Poorly Sorted, Weakly Cemented, Dry				3			40	13:19
	45									
	50					4			60	13:39
	55	Below 50' Interbedded with Thin Sandstone Beds, Moderately Hard, Dry	Shale							
	60									
	65									

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 : 10/12/2022

BORING NUMBER : BH-1

JOB NUMBER : Chevron/ 20-0107-23
HOLE DIAMETER : 5"
LOCATION : Malestrom 15-1 SWD, 32°02'06.26"N, -103°39'34.71"W
LAI GEOLOGIST : M. Larson
DRILLING CONTRACTOR : Scarborough Drilling
DRILLING METHOD : Air Rotary

BORING RECORD

Start: 12:39
Finish: 14:32

GEOLOGIC UNIT	DEPTH	DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG	PID READING (PPM X)	SAMPLE NUMBER	SAMPLE PID READING	SAMPLE RECOVERY	SAMPLE DEPTH	REMARKS
	70	Sandstone, 2.5YR 5/9, Reddish Brown, Very Fine Grained Quartz Sand,Poorly Sorted, Soft to Moderate, Well Cemented	Sand Stone							BACKGROUND PID READING SOIL : PPM SOIL : PPM
	75									
	80	Shale (Red Bed), 2.5YR 4/6 to 5/6, Red to Reddish Brown, Silty, Very Fine Grained Quartz Sand, Dry	Shale			5			80	13:56
	85									
	90									
	95									
	100									
	105		Shale							
	110									
	115	TD: 115' Dry after 72 Hours								
	120									
	125									
	130									

PID READING scale: 2 4 6 8 10 12 14 16 18

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

JOB NUMBER : Chevron/ 20-0107-23
HOLE DIAMETER : 5"
LOCATION : Malestrom 15-1 SWD [redacted], 32°02'06.26"N, -103°39'34.71"W
LAI GEOLOGIST : M. Larson
DRILLING CONTRACTOR : Scarborough Drilling
DRILLING METHOD : Air Rotary

Larson & Associates, Inc. Environmental Consultants

DRILL DATE : 10/12/2022

BORING NUMBER : BH-1

BORING RECORD

Start: 10:35 MDT
Finish: 15:15

GEOLOGIC UNIT	DEPTH	DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG	PID READING PPM X (2 4 6 8 10 12 14 16 18)	SAMPLE NUMBER	SAMPLE PID READING	SAMPLE RECOVERY	SAMPLE DEPTH	REMARKS BACKGROUND PID READING SOIL : PPM SOIL : PPM
	0	Silty Sand, 5YR 5/4, Reddish Brown, Very Fine Grained Quartz Sand, Poorly Sorted, Dry	ML			1			5	
	5								7	
	10	Caliche, 2.5YR 8/3, Pink, Very Fine Grained, Poorly Sorted, Dry	Caliche						10	
	15								15	
	20								20	
	25					2			25	
	30	Silty Sand, 5YR 5/4, Reddish Brown, Fine Grained Quartz Sand with Caliche Clasts (~10mm), Poorly Sorted	ML			3			30	
	35	Caliche, 2.5YR 8/3, Pink, Very Fine Grained, Poorly Sorted with Subangular Clasts (~10mm)	Caliche						35	
	40					4			39	
	45	Silty Sand, 5YR 6/4, Light Reddish Brown, Very Fine Grained Quartz Sand, Poorly Sorted with Subangular Caliche Clasts (~10mm)	ML						40	
	50								45	
	55								50	
	60								55	
									60	

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 : 04-14-2020

BORING NUMBER : SB-01

JOB NUMBER : Chevron/ 19-0180-01
HOLE DIAMETER : 2"
LOCATION : Salado Draw 24 CTB 32.0250583°, -103.6342389°
LAI GEOLOGIST : E. Chavez
DRILLING CONTRACTOR : Scarborough
DRILLING METHOD : Air Rotary

BORING RECORD

Start: 10:35 MDT
Finish: 15:15

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
	65	Silty Sand, 5YR 5/6, Yellowish Red, Very Fine Grained, Poorly Sorted with Subangular Caliche and Black Chert Clasts (~0.5mm)	ML			5			66	SOIL : PPM SOIL : PPM
	70								70	
	75								75	
	80								80	
	85								85	
	90	Silty Sand, 5YR 4/6, Yellowish Red, Fine Grained, Poorly Sorted with Subangular Caliche (~2mm)	ML						90	
	95								95	
	100	TD:101.5' *Dry After 72 Hours*				6			100 101.5	
	105								105	

PID READING scale: 2 4 6 8 10 12 14 16 18

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

Larson & Associates, Inc. Environmental Consultants

DRILL DATE : 04-14-2020
BORING NUMBER : SB-01

JOB NUMBER : Chevron/ 19-0180-01
HOLE DIAMETER : 2"
LOCATION : Salado Draw 24 CTB 32.0250583°, -103.6342389°
LAI GEOLOGIST : E. Chavez
DRILLING CONTRACTOR : Scarborough
DRILLING METHOD : Air Rotary

Appendix D

NMOCD Communications

OCD Permitting

Home | Operator Data | Action Status | Action Search Results | Action Status Item Details

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

Submission Information

Submission ID:	301548	**Districts:**	Hobbs
Operator:	[4323] CHEVRON U S A INC	**Counties:**	Lea
Description:	CHEVRON U S A INC [4323] , SALADO DRAW 23 CENTRAL TANK BATTERY , nAPP2308137936		
Status:	APPROVED		
Status Date:	01/09/2024		
References (2):	fAPP2134340195, nAPP2308137936		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	**nAPP2308137936**
Incident Name	**NAPP2308137936 SALADO DRAW 23 CENTRAL TANK BATTERY @ 0**
Incident Type	**Fire**
Incident Status	**Initial C-141 Approved**
Incident Facility	**[fAPP2134340195] Salado Draw 23 Central Tank Battery**

Location of Release Source

Site Name	**SALADO DRAW 23 CENTRAL TANK BATTERY**
Date Release Discovered	**03/11/2023**
Surface Owner	**Federal**

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	4,617
What is the estimated number of samples that will be gathered	24
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/11/2024
Time sampling will commence	09:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	432-687-0901 Daniel St. Germain
Please provide any information necessary for navigation to sampling site	32.036097, -103.645834

Acknowledgments

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

Comments

No comments found for this submission.

Conditions

Summary: *abarnhill (1/9/2024),* Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.2 accepted.

Reasons

No reasons found for this submission.

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

Submission Information

Submission ID:	314335	**Districts:**	Hobbs
Operator:	[4323] CHEVRON U S A INC	**Counties:**	Lea
Description:	CHEVRON U S A INC [4323] , SALADO DRAW 23 CENTRAL TANK BATTERY , nAPP2308137936		
Status:	APPROVED		
Status Date:	02/14/2024		
References (2):	fAPP2134340195, nAPP2308137936		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	**nAPP2308137936**
Incident Name	**NAPP2308137936 SALADO DRAW 23 CENTRAL TANK BATTERY @ 0**
Incident Type	**Fire**
Incident Status	**Initial C-141 Approved**
Incident Facility	**[fAPP2134340195] Salado Draw 23 Central Tank Battery**

Location of Release Source

Site Name	**SALADO DRAW 23 CENTRAL TANK BATTERY**
Date Release Discovered	**03/11/2023**
Surface Owner	**Federal**

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	200
What is the estimated number of samples that will be gathered	1
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/19/2024
Time sampling will commence	10:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Robert Nelson (432)687-0901
Please provide any information necessary for navigation to sampling site	32.036097, -103.645834

Acknowledgments

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

Comments

No comments found for this submission.

Conditions

Summary: *abarnhill (2/14/2024),* Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29 accepted.

Reasons

No reasons found for this submission.

Appendix E

Laboratory Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/31/2024 10:18:33 AM Revision 1

JOB DESCRIPTION

SD 23 CTB
23-0102-02

JOB NUMBER

880-37956-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Generated
1/31/2024 10:18:33 AM
Revision 1

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

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Laboratory Job ID: 880-37956-1
SDG: 23-0102-02

Table of Contents

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-37956-1
Project/Site: SD 23 CTB SDG: 23-0102-02

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Larson & Associates, Inc. Job ID: 880-37956-1
Project: SD 23 CTB

Job ID: 880-37956-1 Eurofins Midland

Job Narrative
880-37956-1

REVISION

The report being provided is a revision of the original report sent on 1/19/2024. The report (revision 1) is being revised due to to include the results for the reanalysis of TPH on sample C-24 per Daniel St Germain (email).

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

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

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

Receipt
The samples were received on 1/15/2024 10:08 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 -13.8°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: C-1 2' (880-37956-1), C-2 2' (880-37956-2), C-3 2' (880-37956-3), C-4 2' (880-37956-4), C-5 2' (880-37956-5), C-6 3' (880-37956-6), C-7 3' (880-37956-7), C-8 3' (880-37956-8), C-9 2' (880-37956-9), C-10 2' (880-37956-10), C-11 2' (880-37956-11), C-12 2' (880-37956-12), C-13 2' (880-37956-13), C-14 1' (880-37956-14), C-15 1' (880-37956-15), C-16 1' (880-37956-16), C-17 1' (880-37956-17), C-18 0-2' (880-37956-18), C-19 0-2' (880-37956-19), C-20 0-3' (880-37956-20), C-21 0-2' (880-37956-21), C-22 0-3' (880-37956-22), C-23 0-2' (880-37956-23), C-24 0-1 (880-37956-24), C-25 0-1 (880-37956-25), C-26 0-1 (880-37956-26), C-27 0-1 (880-37956-27), C-28 1 (880-37956-28), C-29 1 (880-37956-29) and C-30 1 (880-37956-30).

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: C-28 1 (880-37956-28), C-29 1 (880-37956-29), C-30 1 (880-37956-30), (LCSD 880-70859/2-A), (880-37892-A-1-E MS) and (880-37892-A-1-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-71001 and analytical batch 880-71037 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following samples were outside control limits: C-23 0-2' (880-37956-23), C-24 0-1 (880-37956-24) and C-25 0-1 (880-37956-25). 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-2 2' (880-37956-2), C-3 2' (880-37956-3), C-5 2' (880-37956-5), C-9 2' (880-37956-9), C-11 2' (880-37956-11), C-12 2' (880-37956-12), C-13 2' (880-37956-13), C-19 0-2' (880-37956-19) and (880-37956-A-1-F MSD). 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-6 3' (880-37956-6), C-8 3' (880-37956-8), C-10 2' (880-37956-10), C-14 1' (880-37956-14), C-15 1' (880-37956-15), C-16 1' (880-37956-16) and C-17 1' (880-37956-17). 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

Case Narrative

Client: Larson & Associates, Inc. Job ID: 880-37956-1
Project: SD 23 CTB

Job ID: 880-37956-1 (Continued) Eurofins Midland

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-70849/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-37956-A-27-C MS) and (880-37956-A-27-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) recoveries for preparation batch 880-70938 and analytical batch 880-71032 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 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-6 3' (880-37956-6), C-8 3' (880-37956-8) and (880-37956-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-13 2' (880-37956-13), C-18 0-2' (880-37956-18) and C-19 0-2' (880-37956-19). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-71377 and analytical batch 880-71760 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-24 0-1 (880-37956-24), (880-38325-A-1-C), (880-38325-A-1-A MS) and (880-38325-A-1-B MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-71377 and analytical batch 880-71760 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

Client Sample ID: C-1 2'

Date Collected: 01/11/24 09:15
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-1

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		01/16/24 13:25	01/17/24 12:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/16/24 13:25	01/17/24 12:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/16/24 13:25	01/17/24 12:24	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/16/24 13:25	01/17/24 12:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/16/24 13:25	01/17/24 12:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/16/24 13:25	01/17/24 12:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*01/16/24 13:25*	*01/17/24 12:24*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*01/16/24 13:25*	*01/17/24 12:24*	*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			01/17/24 12:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**53.7**		49.5		mg/Kg			01/18/24 10:14	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	49.5		mg/Kg		01/15/24 11:31	01/18/24 10:14	1
Diesel Range Organics (Over C10-C28)	**53.7**		49.5		mg/Kg		01/15/24 11:31	01/18/24 10:14	1
Oil Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		01/15/24 11:31	01/18/24 10:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*76*		*70 - 130*	*01/15/24 11:31*	*01/18/24 10:14*	*1*
o-Terphenyl (Surr)	*74*		*70 - 130*	*01/15/24 11:31*	*01/18/24 10:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.51**		4.97		mg/Kg			01/17/24 00:08	1

Client Sample ID: C-2 2'

Date Collected: 01/11/24 09:20
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-2

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/16/24 13:25	01/17/24 12:50	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/16/24 13:25	01/17/24 12:50	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/16/24 13:25	01/17/24 12:50	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/16/24 13:25	01/17/24 12:50	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/16/24 13:25	01/17/24 12:50	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/16/24 13:25	01/17/24 12:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*145*	*S1+*	*70 - 130*	*01/16/24 13:25*	*01/17/24 12:50*	*1*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*	*01/16/24 13:25*	*01/17/24 12:50*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

Client Sample ID: C-2 2'

Date Collected: 01/11/24 09:20
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/17/24 12:50	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/18/24 11:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/15/24 11:31	01/18/24 11:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/15/24 11:31	01/18/24 11:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/15/24 11:31	01/18/24 11:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*72*		*70 - 130*	*01/15/24 11:31*	*01/18/24 11:15*	*1*
o-Terphenyl (Surr)	*70*		*70 - 130*	*01/15/24 11:31*	*01/18/24 11:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.85**		4.97		mg/Kg			01/17/24 00:13	1

Client Sample ID: C-3 2'

Date Collected: 01/11/24 09:22
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-3
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		01/16/24 13:25	01/17/24 13:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/16/24 13:25	01/17/24 13:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/16/24 13:25	01/17/24 13:16	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		01/16/24 13:25	01/17/24 13:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/16/24 13:25	01/17/24 13:16	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/16/24 13:25	01/17/24 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*140*	*S1+*	*70 - 130*	*01/16/24 13:25*	*01/17/24 13:16*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*01/16/24 13:25*	*01/17/24 13:16*	*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			01/17/24 13:16	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			01/18/24 11:35	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		01/15/24 11:31	01/18/24 11:35	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		01/15/24 11:31	01/18/24 11:35	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

Client Sample ID: C-3 2'
Date Collected: 01/11/24 09:22
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-3
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)	<50.2	U	50.2		mg/Kg		01/15/24 11:31	01/18/24 11:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*72*		*70 - 130*	*01/15/24 11:31*	*01/18/24 11:35*	*1*
o-Terphenyl (Surr)	*70*		*70 - 130*	*01/15/24 11:31*	*01/18/24 11:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.80**		5.05		mg/Kg			01/17/24 00:19	1

Client Sample ID: C-4 2'
Date Collected: 01/11/24 09:24
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-4
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		01/16/24 13:25	01/17/24 13:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/16/24 13:25	01/17/24 13:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/16/24 13:25	01/17/24 13:42	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/16/24 13:25	01/17/24 13:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/16/24 13:25	01/17/24 13:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/16/24 13:25	01/17/24 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*01/16/24 13:25*	*01/17/24 13:42*	*1*
1,4-Difluorobenzene (Surr)	*126*		*70 - 130*	*01/16/24 13:25*	*01/17/24 13:42*	*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			01/17/24 13:42	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			01/18/24 11:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		01/15/24 11:31	01/18/24 11:56	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		01/15/24 11:31	01/18/24 11:56	1
Oll Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		01/15/24 11:31	01/18/24 11:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*84*		*70 - 130*	*01/15/24 11:31*	*01/18/24 11:56*	*1*
o-Terphenyl (Surr)	*83*		*70 - 130*	*01/15/24 11:31*	*01/18/24 11:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/17/24 00:24	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

Client Sample ID: C-5 2'

Date Collected: 01/11/24 09:26
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-5

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		01/16/24 13:25	01/17/24 14:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/16/24 13:25	01/17/24 14:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/16/24 13:25	01/17/24 14:08	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/16/24 13:25	01/17/24 14:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/16/24 13:25	01/17/24 14:08	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/16/24 13:25	01/17/24 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*01/16/24 13:25*	*01/17/24 14:08*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*01/16/24 13:25*	*01/17/24 14:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/17/24 14:08	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			01/18/24 12:17	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	<49.6	U	49.6		mg/Kg		01/15/24 11:31	01/18/24 12:17	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		01/15/24 11:31	01/18/24 12:17	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		01/15/24 11:31	01/18/24 12:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*72*		*70 - 130*	*01/15/24 11:31*	*01/18/24 12:17*	*1*
o-Terphenyl (Surr)	*72*		*70 - 130*	*01/15/24 11:31*	*01/18/24 12:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.1**		4.99		mg/Kg			01/17/24 00:29	1

Client Sample ID: C-6 3'

Date Collected: 01/11/24 09:28
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-6

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		01/16/24 13:25	01/17/24 14:34	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/16/24 13:25	01/17/24 14:34	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/16/24 13:25	01/17/24 14:34	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		01/16/24 13:25	01/17/24 14:34	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/16/24 13:25	01/17/24 14:34	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		01/16/24 13:25	01/17/24 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*01/16/24 13:25*	*01/17/24 14:34*	*1*
1,4-Difluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*01/16/24 13:25*	*01/17/24 14:34*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

Client Sample ID: C-6 3'

Date Collected: 01/11/24 09:28
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-6

Matrix: Solid

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			01/17/24 14:34	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/18/24 12:37	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/15/24 11:31	01/18/24 12:37	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/15/24 11:31	01/18/24 12:37	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/15/24 11:31	01/18/24 12:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*69*	*S1-*	*70 - 130*	*01/15/24 11:31*	*01/18/24 12:37*	*1*
o-Terphenyl (Surr)	*66*	*S1-*	*70 - 130*	*01/15/24 11:31*	*01/18/24 12:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.34**		4.99		mg/Kg			01/17/24 00:44	1

Client Sample ID: C-7 3'

Date Collected: 01/11/24 09:30
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-7

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		01/16/24 13:25	01/17/24 15:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/16/24 13:25	01/17/24 15:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/16/24 13:25	01/17/24 15:00	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/16/24 13:25	01/17/24 15:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/16/24 13:25	01/17/24 15:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/16/24 13:25	01/17/24 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*01/16/24 13:25*	*01/17/24 15:00*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/16/24 13:25*	*01/17/24 15:00*	*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			01/17/24 15:00	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			01/18/24 12:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		01/15/24 11:31	01/18/24 12:58	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		01/15/24 11:31	01/18/24 12:58	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

Client Sample ID: C-7 3'

Date Collected: 01/11/24 09:30
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-7

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)	<49.6	U	49.6		mg/Kg		01/15/24 11:31	01/18/24 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*72*		*70 - 130*	*01/15/24 11:31*	*01/18/24 12:58*	*1*
o-Terphenyl (Surr)	*71*		*70 - 130*	*01/15/24 11:31*	*01/18/24 12:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97		mg/Kg			01/17/24 00:50	1

Client Sample ID: C-8 3'

Date Collected: 01/11/24 09:32
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-8

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		01/16/24 13:25	01/17/24 15:26	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/16/24 13:25	01/17/24 15:26	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/16/24 13:25	01/17/24 15:26	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		01/16/24 13:25	01/17/24 15:26	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/16/24 13:25	01/17/24 15:26	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/16/24 13:25	01/17/24 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*01/16/24 13:25*	*01/17/24 15:26*	*1*
1,4-Difluorobenzene (Surr)	*128*		*70 - 130*	*01/16/24 13:25*	*01/17/24 15:26*	*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			01/17/24 15:26	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			01/18/24 13:19	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		01/15/24 11:31	01/18/24 13:19	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		01/15/24 11:31	01/18/24 13:19	1
Oll Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		01/15/24 11:31	01/18/24 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*70*		*70 - 130*	*01/15/24 11:31*	*01/18/24 13:19*	*1*
o-Terphenyl (Surr)	*69*	*S1-*	*70 - 130*	*01/15/24 11:31*	*01/18/24 13:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.17**		5.00		mg/Kg			01/17/24 01:05	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

Client Sample ID: C-9 2'

Date Collected: 01/11/24 09:40
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-9

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		01/16/24 13:25	01/17/24 15:52	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/16/24 13:25	01/17/24 15:52	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/16/24 13:25	01/17/24 15:52	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/16/24 13:25	01/17/24 15:52	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/16/24 13:25	01/17/24 15:52	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/16/24 13:25	01/17/24 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*184*	*S1+*	*70 - 130*	*01/16/24 13:25*	*01/17/24 15:52*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*01/16/24 13:25*	*01/17/24 15:52*	*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			01/17/24 15:52	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			01/18/24 13:39	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	<50.5	U	50.5		mg/Kg		01/15/24 11:31	01/18/24 13:39	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		01/15/24 11:31	01/18/24 13:39	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		01/15/24 11:31	01/18/24 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*80*		*70 - 130*	*01/15/24 11:31*	*01/18/24 13:39*	*1*
o-Terphenyl (Surr)	*79*		*70 - 130*	*01/15/24 11:31*	*01/18/24 13:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98		mg/Kg			01/17/24 01:10	1

Client Sample ID: C-10 2'

Date Collected: 01/11/24 09:42
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-10

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		01/16/24 13:25	01/17/24 16:18	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/16/24 13:25	01/17/24 16:18	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/16/24 13:25	01/17/24 16:18	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		01/16/24 13:25	01/17/24 16:18	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/16/24 13:25	01/17/24 16:18	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/16/24 13:25	01/17/24 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*01/16/24 13:25*	*01/17/24 16:18*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*01/16/24 13:25*	*01/17/24 16:18*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

Client Sample ID: C-10 2'

Date Collected: 01/11/24 09:42
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-10
Matrix: Solid

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			01/17/24 16:18	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			01/18/24 14:00	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		01/15/24 11:31	01/18/24 14:00	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		01/15/24 11:31	01/18/24 14:00	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		01/15/24 11:31	01/18/24 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*84*		*70 - 130*	*01/15/24 11:31*	*01/18/24 14:00*	*1*
o-Terphenyl (Surr)	*84*		*70 - 130*	*01/15/24 11:31*	*01/18/24 14:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.05	U	5.05		mg/Kg			01/17/24 01:15	1

Client Sample ID: C-11 2'

Date Collected: 01/11/24 11:00
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-11
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		01/16/24 13:25	01/17/24 18:02	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/16/24 13:25	01/17/24 18:02	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/16/24 13:25	01/17/24 18:02	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		01/16/24 13:25	01/17/24 18:02	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/16/24 13:25	01/17/24 18:02	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/16/24 13:25	01/17/24 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*151*	*S1+*	*70 - 130*	*01/16/24 13:25*	*01/17/24 18:02*	*1*
1,4-Difluorobenzene (Surr)	*122*		*70 - 130*	*01/16/24 13:25*	*01/17/24 18:02*	*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			01/17/24 18:02	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			01/18/24 14:43	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		01/15/24 11:31	01/18/24 14:43	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		01/15/24 11:31	01/18/24 14:43	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

Client Sample ID: C-11 2'

Date Collected: 01/11/24 11:00
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-11
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)	<50.4	U	50.4		mg/Kg		01/15/24 11:31	01/18/24 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*85*		*70 - 130*	*01/15/24 11:31*	*01/18/24 14:43*	*1*
o-Terphenyl (Surr)	*84*		*70 - 130*	*01/15/24 11:31*	*01/18/24 14:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.5**		5.02		mg/Kg			01/17/24 01:20	1

Client Sample ID: C-12 2'

Date Collected: 01/11/24 11:02
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-12
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		01/16/24 13:25	01/17/24 18:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/16/24 13:25	01/17/24 18:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/16/24 13:25	01/17/24 18:28	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		01/16/24 13:25	01/17/24 18:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/16/24 13:25	01/17/24 18:28	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/16/24 13:25	01/17/24 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*146*	*S1+*	*70 - 130*	*01/16/24 13:25*	*01/17/24 18:28*	*1*
1,4-Difluorobenzene (Surr)	*128*		*70 - 130*	*01/16/24 13:25*	*01/17/24 18:28*	*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			01/17/24 18:28	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			01/18/24 15:04	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		01/15/24 11:31	01/18/24 15:04	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		01/15/24 11:31	01/18/24 15:04	1
Oll Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		01/15/24 11:31	01/18/24 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*86*		*70 - 130*	*01/15/24 11:31*	*01/18/24 15:04*	*1*
o-Terphenyl (Surr)	*86*		*70 - 130*	*01/15/24 11:31*	*01/18/24 15:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**26.1**		4.99		mg/Kg			01/17/24 01:25	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

Client Sample ID: C-13 2'

Date Collected: 01/11/24 11:04
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-13

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		01/16/24 13:25	01/17/24 18:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/16/24 13:25	01/17/24 18:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/16/24 13:25	01/17/24 18:54	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/16/24 13:25	01/17/24 18:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/16/24 13:25	01/17/24 18:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/16/24 13:25	01/17/24 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*147*	*S1+*	*70 - 130*	*01/16/24 13:25*	*01/17/24 18:54*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*01/16/24 13:25*	*01/17/24 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			01/17/24 18:54	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			01/18/24 15:25	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		01/15/24 11:31	01/18/24 15:25	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		01/15/24 11:31	01/18/24 15:25	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		01/15/24 11:31	01/18/24 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*69*	*S1-*	*70 - 130*	*01/15/24 11:31*	*01/18/24 15:25*	*1*
o-Terphenyl (Surr)	*67*	*S1-*	*70 - 130*	*01/15/24 11:31*	*01/18/24 15:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95		mg/Kg			01/17/24 01:31	1

Client Sample ID: C-14 1'

Date Collected: 01/11/24 12:06
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-14

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		01/16/24 13:25	01/17/24 19:20	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/16/24 13:25	01/17/24 19:20	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/16/24 13:25	01/17/24 19:20	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		01/16/24 13:25	01/17/24 19:20	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/16/24 13:25	01/17/24 19:20	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/16/24 13:25	01/17/24 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*01/16/24 13:25*	*01/17/24 19:20*	*1*
1,4-Difluorobenzene (Surr)	*125*		*70 - 130*	*01/16/24 13:25*	*01/17/24 19:20*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

Client Sample ID: C-14 1'

Date Collected: 01/11/24 12:06
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-14
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/17/24 19:20	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/18/24 15:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/15/24 11:31	01/18/24 15:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/15/24 11:31	01/18/24 15:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/15/24 11:31	01/18/24 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*74*		*70 - 130*	*01/15/24 11:31*	*01/18/24 15:47*	*1*
o-Terphenyl (Surr)	*73*		*70 - 130*	*01/15/24 11:31*	*01/18/24 15:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.27**		5.00		mg/Kg			01/17/24 01:36	1

Client Sample ID: C-15 1'

Date Collected: 01/11/24 12:08
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-15
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		01/16/24 13:25	01/17/24 19:45	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/16/24 13:25	01/17/24 19:45	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/16/24 13:25	01/17/24 19:45	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/16/24 13:25	01/17/24 19:45	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/16/24 13:25	01/17/24 19:45	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/16/24 13:25	01/17/24 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*01/16/24 13:25*	*01/17/24 19:45*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*01/16/24 13:25*	*01/17/24 19:45*	*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			01/17/24 19:45	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			01/18/24 16:08	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/15/24 11:31	01/18/24 16:08	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/15/24 11:31	01/18/24 16:08	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

Client Sample ID: C-15 1'
Date Collected: 01/11/24 12:08
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-15
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)	<49.7	U	49.7		mg/Kg		01/15/24 11:31	01/18/24 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*86*		*70 - 130*	*01/15/24 11:31*	*01/18/24 16:08*	*1*
o-Terphenyl (Surr)	*84*		*70 - 130*	*01/15/24 11:31*	*01/18/24 16:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98		mg/Kg			01/17/24 01:54	1

Client Sample ID: C-16 1'
Date Collected: 01/11/24 12:10
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-16
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		01/16/24 13:25	01/17/24 20:11	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/16/24 13:25	01/17/24 20:11	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/16/24 13:25	01/17/24 20:11	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		01/16/24 13:25	01/17/24 20:11	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/16/24 13:25	01/17/24 20:11	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/16/24 13:25	01/17/24 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*140*	*S1+*	*70 - 130*	*01/16/24 13:25*	*01/17/24 20:11*	*1*
1,4-Difluorobenzene (Surr)	*129*		*70 - 130*	*01/16/24 13:25*	*01/17/24 20:11*	*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			01/17/24 20:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.5	U	49.5		mg/Kg			01/18/24 16:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	49.5		mg/Kg		01/15/24 11:31	01/18/24 16:29	1
Diesel Range Organics (Over C10-C28)	<49.5	U	49.5		mg/Kg		01/15/24 11:31	01/18/24 16:29	1
Oll Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		01/15/24 11:31	01/18/24 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*71*		*70 - 130*	*01/15/24 11:31*	*01/18/24 16:29*	*1*
o-Terphenyl (Surr)	*70*		*70 - 130*	*01/15/24 11:31*	*01/18/24 16:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.77**		5.00		mg/Kg			01/17/24 02:15	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

Client Sample ID: C-17 1'

Date Collected: 01/11/24 12:12
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-17
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		01/16/24 13:25	01/17/24 20:37	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/16/24 13:25	01/17/24 20:37	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/16/24 13:25	01/17/24 20:37	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		01/16/24 13:25	01/17/24 20:37	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/16/24 13:25	01/17/24 20:37	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/16/24 13:25	01/17/24 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*01/16/24 13:25*	*01/17/24 20:37*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*01/16/24 13:25*	*01/17/24 20:37*	*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			01/17/24 20:37	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			01/18/24 16:51	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	<50.3	U	50.3		mg/Kg		01/15/24 11:31	01/18/24 16:51	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		01/15/24 11:31	01/18/24 16:51	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		01/15/24 11:31	01/18/24 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*72*		*70 - 130*	*01/15/24 11:31*	*01/18/24 16:51*	*1*
o-Terphenyl (Surr)	*72*		*70 - 130*	*01/15/24 11:31*	*01/18/24 16:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.96**		4.95		mg/Kg			01/17/24 02:22	1

Client Sample ID: C-18 0-2'

Date Collected: 01/11/24 14:05
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-18
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		01/16/24 13:25	01/17/24 21:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/16/24 13:25	01/17/24 21:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/16/24 13:25	01/17/24 21:03	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/16/24 13:25	01/17/24 21:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/16/24 13:25	01/17/24 21:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/16/24 13:25	01/17/24 21:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*01/16/24 13:25*	*01/17/24 21:03*	*1*
1,4-Difluorobenzene (Surr)	*124*		*70 - 130*	*01/16/24 13:25*	*01/17/24 21:03*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

Client Sample ID: C-18 0-2'

Date Collected: 01/11/24 14:05
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-18
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			01/17/24 21:03	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			01/18/24 17:12	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	<50.1	U	50.1		mg/Kg		01/15/24 11:31	01/18/24 17:12	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		01/15/24 11:31	01/18/24 17:12	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		01/15/24 11:31	01/18/24 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*67*	*S1-*	*70 - 130*	*01/15/24 11:31*	*01/18/24 17:12*	*1*
o-Terphenyl (Surr)	*67*	*S1-*	*70 - 130*	*01/15/24 11:31*	*01/18/24 17:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99		mg/Kg			01/17/24 02:28	1

Client Sample ID: C-19 0-2'

Date Collected: 01/11/24 14:10
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-19
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		01/16/24 13:25	01/17/24 21:29	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/16/24 13:25	01/17/24 21:29	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/16/24 13:25	01/17/24 21:29	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		01/16/24 13:25	01/17/24 21:29	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/16/24 13:25	01/17/24 21:29	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		01/16/24 13:25	01/17/24 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*70 - 130*	*01/16/24 13:25*	*01/17/24 21:29*	*1*
1,4-Difluorobenzene (Surr)	*128*		*70 - 130*	*01/16/24 13:25*	*01/17/24 21:29*	*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			01/17/24 21:29	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			01/18/24 17:34	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	<50.4	U	50.4		mg/Kg		01/15/24 11:31	01/18/24 17:34	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		01/15/24 11:31	01/18/24 17:34	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

Client Sample ID: C-19 0-2'
Date Collected: 01/11/24 14:10
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-19
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)	<50.4	U	50.4		mg/Kg		01/15/24 11:31	01/18/24 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*69*	*S1-*	*70 - 130*	*01/15/24 11:31*	*01/18/24 17:34*	*1*
o-Terphenyl (Surr)	*69*	*S1-*	*70 - 130*	*01/15/24 11:31*	*01/18/24 17:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04		mg/Kg			01/17/24 02:35	1

Client Sample ID: C-20 0-3'
Date Collected: 01/11/24 14:12
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-20
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		01/16/24 13:25	01/17/24 21:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/16/24 13:25	01/17/24 21:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/16/24 13:25	01/17/24 21:55	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/16/24 13:25	01/17/24 21:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/16/24 13:25	01/17/24 21:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/16/24 13:25	01/17/24 21:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*01/16/24 13:25*	*01/17/24 21:55*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*01/16/24 13:25*	*01/17/24 21:55*	*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			01/17/24 21:55	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			01/18/24 17:55	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		01/15/24 11:31	01/18/24 17:55	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		01/15/24 11:31	01/18/24 17:55	1
Oll Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		01/15/24 11:31	01/18/24 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*83*		*70 - 130*	*01/15/24 11:31*	*01/18/24 17:55*	*1*
o-Terphenyl (Surr)	*82*		*70 - 130*	*01/15/24 11:31*	*01/18/24 17:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.37**		4.97		mg/Kg			01/17/24 02:56	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

Client Sample ID: C-21 0-2'

Date Collected: 01/11/24 14:16
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-21

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		01/16/24 13:33	01/17/24 16:25	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/16/24 13:33	01/17/24 16:25	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/16/24 13:33	01/17/24 16:25	1
m,p-Xylenes	<0.00403	U *+	0.00403		mg/Kg		01/16/24 13:33	01/17/24 16:25	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/16/24 13:33	01/17/24 16:25	1
Xylenes, Total	<0.00403	U *+	0.00403		mg/Kg		01/16/24 13:33	01/17/24 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*01/16/24 13:33*	*01/17/24 16:25*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*01/16/24 13:33*	*01/17/24 16:25*	*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			01/17/24 16:25	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/16/24 03:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/15/24 11:27	01/16/24 03:42	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/15/24 11:27	01/16/24 03:42	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/15/24 11:27	01/16/24 03:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*76*		*70 - 130*	*01/15/24 11:27*	*01/16/24 03:42*	*1*
o-Terphenyl (Surr)	*78*		*70 - 130*	*01/15/24 11:27*	*01/16/24 03:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.96	U	4.96		mg/Kg			01/17/24 03:03	1

Client Sample ID: C-22 0-3'

Date Collected: 01/11/24 14:30
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-22

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		01/16/24 13:33	01/17/24 16:46	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/16/24 13:33	01/17/24 16:46	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/16/24 13:33	01/17/24 16:46	1
m,p-Xylenes	<0.00402	U *+	0.00402		mg/Kg		01/16/24 13:33	01/17/24 16:46	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/16/24 13:33	01/17/24 16:46	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		01/16/24 13:33	01/17/24 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*01/16/24 13:33*	*01/17/24 16:46*	*1*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*01/16/24 13:33*	*01/17/24 16:46*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

Client Sample ID: C-22 0-3'

Date Collected: 01/11/24 14:30
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-22

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			01/17/24 16:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/16/24 04:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/15/24 11:27	01/16/24 04:02	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/15/24 11:27	01/16/24 04:02	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/15/24 11:27	01/16/24 04:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*78*		*70 - 130*	*01/15/24 11:27*	*01/16/24 04:02*	*1*
o-Terphenyl (Surr)	*80*		*70 - 130*	*01/15/24 11:27*	*01/16/24 04:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97		mg/Kg			01/17/24 03:10	1

Client Sample ID: C-23 0-2'

Date Collected: 01/11/24 14:35
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-23

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		01/16/24 13:33	01/17/24 17:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/16/24 13:33	01/17/24 17:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/16/24 13:33	01/17/24 17:06	1
m,p-Xylenes	<0.00399	U *+	0.00399		mg/Kg		01/16/24 13:33	01/17/24 17:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/16/24 13:33	01/17/24 17:06	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		01/16/24 13:33	01/17/24 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*01/16/24 13:33*	*01/17/24 17:06*	*1*
1,4-Difluorobenzene (Surr)	*69*	*S1-*	*70 - 130*	*01/16/24 13:33*	*01/17/24 17:06*	*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			01/17/24 17:06	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/16/24 04:22	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/15/24 11:27	01/16/24 04:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/15/24 11:27	01/16/24 04:22	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-37956-1
Project/Site: SD 23 CTB SDG: 23-0102-02

Client Sample ID: C-23 0-2' Lab Sample ID: 880-37956-23
Date Collected: 01/11/24 14:35 **Matrix: Solid**
Date Received: 01/15/24 10:08

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		01/15/24 11:27	01/16/24 04:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*78*		*70 - 130*	*01/15/24 11:27*	*01/16/24 04:22*	*1*
o-Terphenyl (Surr)	*81*		*70 - 130*	*01/15/24 11:27*	*01/16/24 04:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.05	U	5.05		mg/Kg			01/17/24 03:17	1

Client Sample ID: C-24 0-1 Lab Sample ID: 880-37956-24
Date Collected: 01/11/24 14:40 **Matrix: Solid**
Date Received: 01/15/24 10:08

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/16/24 13:33	01/17/24 17:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/16/24 13:33	01/17/24 17:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/16/24 13:33	01/17/24 17:27	1
m,p-Xylenes	<0.00400	U *+	0.00400		mg/Kg		01/16/24 13:33	01/17/24 17:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/16/24 13:33	01/17/24 17:27	1
Xylenes, Total	<0.00400	U *+	0.00400		mg/Kg		01/16/24 13:33	01/17/24 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*01/16/24 13:33*	*01/17/24 17:27*	*1*
1,4-Difluorobenzene (Surr)	*64*	*S1-*	*70 - 130*	*01/16/24 13:33*	*01/17/24 17:27*	*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			01/17/24 17:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**105**		49.7		mg/Kg			01/16/24 04:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/15/24 11:27	01/16/24 04:42	1
Diesel Range Organics (Over C10-C28)	**105**		49.7		mg/Kg		01/15/24 11:27	01/16/24 04:42	1
Oll Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/15/24 11:27	01/16/24 04:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*71*		*70 - 130*	*01/15/24 11:27*	*01/16/24 04:42*	*1*
o-Terphenyl (Surr)	*71*		*70 - 130*	*01/15/24 11:27*	*01/16/24 04:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.02	U	5.02		mg/Kg			01/17/24 03:23	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

Client Sample ID: C-25 0-1

Date Collected: 01/12/24 09:00
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-25

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		01/16/24 13:33	01/17/24 17:47	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/16/24 13:33	01/17/24 17:47	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/16/24 13:33	01/17/24 17:47	1
m,p-Xylenes	<0.00396	U *+	0.00396		mg/Kg		01/16/24 13:33	01/17/24 17:47	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/16/24 13:33	01/17/24 17:47	1
Xylenes, Total	<0.00396	U *+	0.00396		mg/Kg		01/16/24 13:33	01/17/24 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*01/16/24 13:33*	*01/17/24 17:47*	*1*
1,4-Difluorobenzene (Surr)	*70*		*70 - 130*	*01/16/24 13:33*	*01/17/24 17:47*	*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			01/17/24 17:47	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			01/16/24 05:03	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		01/15/24 11:27	01/16/24 05:03	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		01/15/24 11:27	01/16/24 05:03	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		01/15/24 11:27	01/16/24 05:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*73*		*70 - 130*	*01/15/24 11:27*	*01/16/24 05:03*	*1*
o-Terphenyl (Surr)	*79*		*70 - 130*	*01/15/24 11:27*	*01/16/24 05:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.01	U	5.01		mg/Kg			01/17/24 03:30	1

Client Sample ID: C-26 0-1

Date Collected: 01/12/24 09:10
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-26

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		01/17/24 11:38	01/17/24 20:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/17/24 11:38	01/17/24 20:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/17/24 11:38	01/17/24 20:02	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/17/24 11:38	01/17/24 20:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/17/24 11:38	01/17/24 20:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/17/24 11:38	01/17/24 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*01/17/24 11:38*	*01/17/24 20:02*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*01/17/24 11:38*	*01/17/24 20:02*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-37956-1
Project/Site: SD 23 CTB SDG: 23-0102-02

Client Sample ID: C-26 0-1 — Lab Sample ID: 880-37956-26

Date Collected: 01/12/24 09:10 **Matrix: Solid**
Date Received: 01/15/24 10:08

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			01/17/24 20:02	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			01/16/24 05:24	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	<50.2	U	50.2		mg/Kg		01/15/24 11:27	01/16/24 05:24	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		01/15/24 11:27	01/16/24 05:24	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		01/15/24 11:27	01/16/24 05:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*78*		*70 - 130*	*01/15/24 11:27*	*01/16/24 05:24*	*1*
o-Terphenyl (Surr)	*82*		*70 - 130*	*01/15/24 11:27*	*01/16/24 05:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99		mg/Kg			01/17/24 03:51	1

Client Sample ID: C-27 0-1 — Lab Sample ID: 880-37956-27

Date Collected: 01/12/24 09:12 **Matrix: Solid**
Date Received: 01/15/24 10:08

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/17/24 11:38	01/17/24 20:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/17/24 11:38	01/17/24 20:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/17/24 11:38	01/17/24 20:22	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/17/24 11:38	01/17/24 20:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/17/24 11:38	01/17/24 20:22	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/17/24 11:38	01/17/24 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*01/17/24 11:38*	*01/17/24 20:22*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*01/17/24 11:38*	*01/17/24 20:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/17/24 20:22	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/17/24 20:31	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	49.8		mg/Kg		01/15/24 16:38	01/17/24 20:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/15/24 16:38	01/17/24 20:31	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

Client Sample ID: C-27 0-1

Lab Sample ID: 880-37956-27
Matrix: Solid
Date Collected: 01/12/24 09:12
Date Received: 01/15/24 10:08

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)	<49.8	U	49.8		mg/Kg		01/15/24 16:38	01/17/24 20:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*77*		*70 - 130*	*01/15/24 16:38*	*01/17/24 20:31*	*1*
o-Terphenyl (Surr)	*79*		*70 - 130*	*01/15/24 16:38*	*01/17/24 20:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.33**		4.97		mg/Kg			01/17/24 03:58	1

Client Sample ID: C-28 1

Lab Sample ID: 880-37956-28
Matrix: Solid
Date Collected: 01/12/24 09:14
Date Received: 01/15/24 10:08

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		01/15/24 13:09	01/16/24 21:12	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/15/24 13:09	01/16/24 21:12	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/15/24 13:09	01/16/24 21:12	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		01/15/24 13:09	01/16/24 21:12	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/15/24 13:09	01/16/24 21:12	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		01/15/24 13:09	01/16/24 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*141*	*S1+*	*70 - 130*	*01/15/24 13:09*	*01/16/24 21:12*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*01/15/24 13:09*	*01/16/24 21:12*	*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			01/16/24 21:12	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			01/17/24 21:34	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	<50.1	U	50.1		mg/Kg		01/15/24 16:38	01/17/24 21:34	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		01/15/24 16:38	01/17/24 21:34	1
Oll Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		01/15/24 16:38	01/17/24 21:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*74*		*70 - 130*	*01/15/24 16:38*	*01/17/24 21:34*	*1*
o-Terphenyl (Surr)	*75*		*70 - 130*	*01/15/24 16:38*	*01/17/24 21:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95		mg/Kg			01/17/24 04:18	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

Client Sample ID: C-29 1

Date Collected: 01/12/24 09:16
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-29

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		01/15/24 13:09	01/16/24 21:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/15/24 13:09	01/16/24 21:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/15/24 13:09	01/16/24 21:39	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		01/15/24 13:09	01/16/24 21:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/15/24 13:09	01/16/24 21:39	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/15/24 13:09	01/16/24 21:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*01/15/24 13:09*	*01/16/24 21:39*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*01/15/24 13:09*	*01/16/24 21:39*	*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			01/16/24 21:39	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			01/17/24 21:55	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		01/15/24 16:38	01/17/24 21:55	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		01/15/24 16:38	01/17/24 21:55	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		01/15/24 16:38	01/17/24 21:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*71*		*70 - 130*	*01/15/24 16:38*	*01/17/24 21:55*	*1*
o-Terphenyl (Surr)	*71*		*70 - 130*	*01/15/24 16:38*	*01/17/24 21:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97		mg/Kg			01/17/24 04:25	1

Client Sample ID: C-30 1

Date Collected: 01/12/24 09:18
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-30

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		01/15/24 13:09	01/16/24 22:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/15/24 13:09	01/16/24 22:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/15/24 13:09	01/16/24 22:06	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/15/24 13:09	01/16/24 22:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/15/24 13:09	01/16/24 22:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/15/24 13:09	01/16/24 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*143*	*S1+*	*70 - 130*	*01/15/24 13:09*	*01/16/24 22:06*	*1*
1,4-Difluorobenzene (Surr)	*128*		*70 - 130*	*01/15/24 13:09*	*01/16/24 22:06*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

Client Sample ID: C-30 1

Date Collected: 01/12/24 09:18
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-30

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			01/16/24 22:06	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			01/17/24 22:17	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	<50.5	U	50.5		mg/Kg		01/15/24 16:38	01/17/24 22:17	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		01/15/24 16:38	01/17/24 22:17	1
Oll Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		01/15/24 16:38	01/17/24 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*01/15/24 16:38*	*01/17/24 22:17*	*1*
o-Terphenyl (Surr)	*90*		*70 - 130*	*01/15/24 16:38*	*01/17/24 22:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/17/24 04:32	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-37956-1	C-1 2'	99	110
880-37956-1 MS	C-1 2'	129	104
880-37956-1 MSD	C-1 2'	136 S1+	116
880-37956-2	C-2 2'	145 S1+	121
880-37956-3	C-3 2'	140 S1+	93
880-37956-4	C-4 2'	129	126
880-37956-5	C-5 2'	139 S1+	118
880-37956-6	C-6 3'	130	133 S1+
880-37956-7	C-7 3'	124	99
880-37956-8	C-8 3'	131 S1+	128
880-37956-9	C-9 2'	184 S1+	97
880-37956-10	C-10 2'	132 S1+	110
880-37956-11	C-11 2'	151 S1+	122
880-37956-12	C-12 2'	146 S1+	128
880-37956-13	C-13 2'	147 S1+	100
880-37956-14	C-14 1'	132 S1+	125
880-37956-15	C-15 1'	131 S1+	116
880-37956-16	C-16 1'	140 S1+	129
880-37956-17	C-17 1'	131 S1+	88
880-37956-18	C-18 0-2'	130	124
880-37956-19	C-19 0-2'	135 S1+	128
880-37956-20	C-20 0-3'	95	101
880-37956-21	C-21 0-2'	98	78
880-37956-22	C-22 0-3'	85	72
880-37956-23	C-23 0-2'	93	69 S1-
880-37956-24	C-24 0-1	83	64 S1-
880-37956-25	C-25 0-1	87	70
880-37956-26	C-26 0-1	110	106
880-37956-27	C-27 0-1	109	105
880-37956-28	C-28 1	141 S1+	111
880-37956-29	C-29 1	133 S1+	115
880-37956-30	C-30 1	143 S1+	128
LCS 880-70859/1-A	Lab Control Sample	106	94
LCS 880-71000/1-A	Lab Control Sample	103	95
LCS 880-71001/1-A	Lab Control Sample	110	113
LCS 880-71055/1-A	Lab Control Sample	99	102
LCSD 880-70859/2-A	Lab Control Sample Dup	133 S1+	131 S1+
LCSD 880-71000/2-A	Lab Control Sample Dup	111	75
LCSD 880-71001/2-A	Lab Control Sample Dup	115	94
LCSD 880-71055/2-A	Lab Control Sample Dup	115	102
MB 880-70859/5-A	Method Blank	70	111
MB 880-71000/5-A	Method Blank	84	106
MB 880-71001/5-A	Method Blank	71	89
MB 880-71055/5-A	Method Blank	118	122

Surrogate Legend

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

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-37956-1
Project/Site: SD 23 CTB SDG: 23-0102-02

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)										
880-37956-1	C-1 2'	76	74										
880-37956-1 MS	C-1 2'	77	70										
880-37956-1 MSD	C-1 2'	76	69 S1-										
880-37956-2	C-2 2'	72	70										
880-37956-3	C-3 2'	72	70										
880-37956-4	C-4 2'	84	83										
880-37956-5	C-5 2'	72	72										
880-37956-6	C-6 3'	69 S1-	66 S1-										
880-37956-7	C-7 3'	72	71										
880-37956-8	C-8 3'	70	69 S1-										
880-37956-9	C-9 2'	80	79										
880-37956-10	C-10 2'	84	84										
880-37956-11	C-11 2'	85	84										
880-37956-12	C-12 2'	86	86										
880-37956-13	C-13 2'	69 S1-	67 S1-										
880-37956-14	C-14 1'	74	73										
880-37956-15	C-15 1'	86	84										
880-37956-16	C-16 1'	71	70										
880-37956-17	C-17 1'	72	72										
880-37956-18	C-18 0-2'	67 S1-	67 S1-										
880-37956-19	C-19 0-2'	69 S1-	69 S1-										
880-37956-20	C-20 0-3'	83	82										
880-37956-21	C-21 0-2'	76	78										
880-37956-22	C-22 0-3'	78	80										
880-37956-23	C-23 0-2'	78	81										
880-37956-24	C-24 0-1	71	71										
880-37956-25	C-25 0-1	73	79										
880-37956-26	C-26 0-1	78	82										
880-37956-27	C-27 0-1	77	79										
880-37956-27 MS	C-27 0-1	70	67 S1-										
880-37956-27 MSD	C-27 0-1	71	67 S1-										
880-37956-28	C-28 1	74	75										
880-37956-29	C-29 1	71	71										
880-37956-30	C-30 1	89	90										
LCS 880-70849/2-A	Lab Control Sample	123	142 S1+										
LCS 880-70850/2-A	Lab Control Sample	106	126										
LCS 880-70938/2-A	Lab Control Sample	88	102										
LCS 880-71377/2-A	Lab Control Sample	94	81										
LCSD 880-70849/3-A	Lab Control Sample Dup	102	119										
LCSD 880-70850/3-A	Lab Control Sample Dup	99	114										
LCSD 880-70938/3-A	Lab Control Sample Dup	84	99										
LCSD 880-71377/3-A	Lab Control Sample Dup	108	99										
MB 880-70849/1-A	Method Blank	85	93										
MB 880-70850/1-A - RA2	Method Blank	91	100										
MB 880-70938/1-A	Method Blank	89	96										
MB 880-71377/1-A	Method Blank	181 S1+	154 S1+										

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-70859/5-A
Matrix: Solid
Analysis Batch: 70969

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70859

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/15/24 13:09	01/16/24 11:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/15/24 13:09	01/16/24 11:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/15/24 13:09	01/16/24 11:57	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/15/24 13:09	01/16/24 11:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/15/24 13:09	01/16/24 11:57	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/15/24 13:09	01/16/24 11:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*70*		*70 - 130*	*01/15/24 13:09*	*01/16/24 11:57*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*01/15/24 13:09*	*01/16/24 11:57*	*1*

Lab Sample ID: LCS 880-70859/1-A
Matrix: Solid
Analysis Batch: 70969

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70859

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08971		mg/Kg		90	70 - 130		
Toluene			0.100	0.08693		mg/Kg		87	70 - 130		
Ethylbenzene			0.100	0.09261		mg/Kg		93	70 - 130		
m,p-Xylenes			0.200	0.2025		mg/Kg		101	70 - 130		
o-Xylene			0.100	0.09544		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 880-70859/2-A
Matrix: Solid
Analysis Batch: 70969

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 70859

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09973		mg/Kg		100	70 - 130	11	35
Toluene			0.100	0.1004		mg/Kg		100	70 - 130	14	35
Ethylbenzene			0.100	0.1038		mg/Kg		104	70 - 130	11	35
m,p-Xylenes			0.200	0.2351		mg/Kg		118	70 - 130	15	35
o-Xylene			0.100	0.1139		mg/Kg		114	70 - 130	18	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*131*	*S1+*	*70 - 130*

Lab Sample ID: MB 880-71000/5-A
Matrix: Solid
Analysis Batch: 71036

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71000

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/16/24 13:25	01/17/24 11:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/16/24 13:25	01/17/24 11:58	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

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

Lab Sample ID: MB 880-71000/5-A
Matrix: Solid
Analysis Batch: 71036

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71000

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/16/24 13:25	01/17/24 11:58	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/16/24 13:25	01/17/24 11:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/16/24 13:25	01/17/24 11:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/16/24 13:25	01/17/24 11:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*01/16/24 13:25*	*01/17/24 11:58*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*01/16/24 13:25*	*01/17/24 11:58*	*1*

Lab Sample ID: LCS 880-71000/1-A
Matrix: Solid
Analysis Batch: 71036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71000

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09029		mg/Kg		90	70 - 130		
Toluene			0.100	0.08852		mg/Kg		89	70 - 130		
Ethylbenzene			0.100	0.09186		mg/Kg		92	70 - 130		
m,p-Xylenes			0.200	0.2037		mg/Kg		102	70 - 130		
o-Xylene			0.100	0.09113		mg/Kg		91	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 880-71000/2-A
Matrix: Solid
Analysis Batch: 71036

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71000

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09409		mg/Kg		94	70 - 130	4	35
Toluene			0.100	0.09113		mg/Kg		91	70 - 130	3	35
Ethylbenzene			0.100	0.09036		mg/Kg		90	70 - 130	2	35
m,p-Xylenes			0.200	0.2027		mg/Kg		101	70 - 130	0	35
o-Xylene			0.100	0.09446		mg/Kg		94	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*

Lab Sample ID: 880-37956-1 MS
Matrix: Solid
Analysis Batch: 71036

Client Sample ID: C-1 2'
Prep Type: Total/NA
Prep Batch: 71000

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.101	0.1006		mg/Kg		100	70 - 130		
Toluene	<0.00199	U	0.101	0.09937		mg/Kg		99	70 - 130		
Ethylbenzene	<0.00199	U	0.101	0.1052		mg/Kg		104	70 - 130		
m,p-Xylenes	<0.00398	U	0.202	0.2365		mg/Kg		117	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

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

Lab Sample ID: 880-37956-1 MS
Matrix: Solid
Analysis Batch: 71036

Client Sample ID: C-1 2'
Prep Type: Total/NA
Prep Batch: 71000

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	<0.00199	U	0.101	0.1062		mg/Kg		105	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 880-37956-1 MSD
Matrix: Solid
Analysis Batch: 71036

Client Sample ID: C-1 2'
Prep Type: Total/NA
Prep Batch: 71000

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.1043		mg/Kg		104	70 - 130	4	35
Toluene	<0.00199	U	0.100	0.09844		mg/Kg		98	70 - 130	1	35
Ethylbenzene	<0.00199	U	0.100	0.09963		mg/Kg		99	70 - 130	5	35
m,p-Xylenes	<0.00398	U	0.200	0.2203		mg/Kg		110	70 - 130	7	35
o-Xylene	<0.00199	U	0.100	0.1039		mg/Kg		104	70 - 130	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*

Lab Sample ID: MB 880-71001/5-A
Matrix: Solid
Analysis Batch: 71037

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71001

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/16/24 13:33	01/17/24 11:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/16/24 13:33	01/17/24 11:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/16/24 13:33	01/17/24 11:16	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/16/24 13:33	01/17/24 11:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/16/24 13:33	01/17/24 11:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/16/24 13:33	01/17/24 11:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*71*		*70 - 130*	*01/16/24 13:33*	*01/17/24 11:16*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*01/16/24 13:33*	*01/17/24 11:16*	*1*

Lab Sample ID: LCS 880-71001/1-A
Matrix: Solid
Analysis Batch: 71037

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71001

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1294		mg/Kg		129	70 - 130
Toluene	0.100	0.1127		mg/Kg		113	70 - 130
Ethylbenzene	0.100	0.1239		mg/Kg		124	70 - 130
m,p-Xylenes	0.200	0.2698	*+	mg/Kg		135	70 - 130
o-Xylene	0.100	0.1268		mg/Kg		127	70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

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

Lab Sample ID: LCS 880-71001/1-A
Matrix: Solid
Analysis Batch: 71037

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71001

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: LCSD 880-71001/2-A
Matrix: Solid
Analysis Batch: 71037

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71001

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1281		mg/Kg		128	70 - 130	1	35
Toluene			0.100	0.1178		mg/Kg		118	70 - 130	4	35
Ethylbenzene			0.100	0.1260		mg/Kg		126	70 - 130	2	35
m,p-Xylenes			0.200	0.2731	*+	mg/Kg		137	70 - 130	1	35
o-Xylene			0.100	0.1285		mg/Kg		129	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: MB 880-71055/5-A
Matrix: Solid
Analysis Batch: 71058

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71055

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/17/24 11:38	01/17/24 17:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/17/24 11:38	01/17/24 17:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/17/24 11:38	01/17/24 17:31	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/17/24 11:38	01/17/24 17:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/17/24 11:38	01/17/24 17:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/17/24 11:38	01/17/24 17:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	01/17/24 11:38	01/17/24 17:31	1
1,4-Difluorobenzene (Surr)	122		70 - 130	01/17/24 11:38	01/17/24 17:31	1

Lab Sample ID: LCS 880-71055/1-A
Matrix: Solid
Analysis Batch: 71058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71055

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1173		mg/Kg		117	70 - 130		
Toluene			0.100	0.1037		mg/Kg		104	70 - 130		
Ethylbenzene			0.100	0.09908		mg/Kg		99	70 - 130		
m,p-Xylenes			0.200	0.1848		mg/Kg		92	70 - 130		
o-Xylene			0.100	0.09542		mg/Kg		95	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

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

Lab Sample ID: LCS 880-71055/1-A
Matrix: Solid
Analysis Batch: 71058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71055

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

Lab Sample ID: LCSD 880-71055/2-A
Matrix: Solid
Analysis Batch: 71058

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71055

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1156		mg/Kg		116	70 - 130	1	35
Toluene			0.100	0.1075		mg/Kg		108	70 - 130	4	35
Ethylbenzene			0.100	0.1073		mg/Kg		107	70 - 130	8	35
m,p-Xylenes			0.200	0.2106		mg/Kg		105	70 - 130	13	35
o-Xylene			0.100	0.1106		mg/Kg		111	70 - 130	15	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

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

Lab Sample ID: MB 880-70849/1-A
Matrix: Solid
Analysis Batch: 70824

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70849

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		01/15/24 11:27	01/15/24 20:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/15/24 11:27	01/15/24 20:31	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/15/24 11:27	01/15/24 20:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	*85*		*70 - 130*	*01/15/24 11:27*	*01/15/24 20:31*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*01/15/24 11:27*	*01/15/24 20:31*	*1*

Lab Sample ID: LCS 880-70849/2-A
Matrix: Solid
Analysis Batch: 70824

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70849

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	985.8		mg/Kg		99	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1225		mg/Kg		123	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	*123*		*70 - 130*
o-Terphenyl (Surr)	*142*	*S1+*	*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

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

Lab Sample ID: LCSD 880-70849/3-A
Matrix: Solid
Analysis Batch: 70824

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 70849

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1103		mg/Kg		110	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	1027		mg/Kg		103	70 - 130	18	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*102*		*70 - 130*
o-Terphenyl (Surr)	*119*		*70 - 130*

Lab Sample ID: LCS 880-70850/2-A
Matrix: Solid
Analysis Batch: 71082

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70850

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1020		mg/Kg		102	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1038		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*106*		*70 - 130*
o-Terphenyl (Surr)	*126*		*70 - 130*

Lab Sample ID: LCSD 880-70850/3-A
Matrix: Solid
Analysis Batch: 71082

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 70850

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	955.4		mg/Kg		96	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			1000	1027		mg/Kg		103	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*99*		*70 - 130*
o-Terphenyl (Surr)	*114*		*70 - 130*

Lab Sample ID: 880-37956-1 MS
Matrix: Solid
Analysis Batch: 71082

Client Sample ID: C-1 2'
Prep Type: Total/NA
Prep Batch: 70850

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	1010	804.2		mg/Kg		75	70 - 130		
Diesel Range Organics (Over C10-C28)	53.7		1010	809.6		mg/Kg		75	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*77*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

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

Lab Sample ID: 880-37956-1 MS
Matrix: Solid
Analysis Batch: 71082

Client Sample ID: C-1 2'
Prep Type: Total/NA
Prep Batch: 70850

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl (Surr)	70		70 - 130

Lab Sample ID: 880-37956-1 MSD
Matrix: Solid
Analysis Batch: 71082

Client Sample ID: C-1 2'
Prep Type: Total/NA
Prep Batch: 70850

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	<49.5	U	1010	813.7		mg/Kg		76	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	53.7		1010	805.2		mg/Kg		75	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	76		70 - 130
o-Terphenyl (Surr)	69	S1-	70 - 130

Lab Sample ID: MB 880-70938/1-A
Matrix: Solid
Analysis Batch: 71032

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70938

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		01/15/24 16:38	01/17/24 19:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/15/24 16:38	01/17/24 19:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/15/24 16:38	01/17/24 19:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	89		70 - 130	01/15/24 16:38	01/17/24 19:28	1
o-Terphenyl (Surr)	96		70 - 130	01/15/24 16:38	01/17/24 19:28	1

Lab Sample ID: LCS 880-70938/2-A
Matrix: Solid
Analysis Batch: 71032

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70938

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	985.8		mg/Kg		99	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	870.3		mg/Kg		87	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	88		70 - 130
o-Terphenyl (Surr)	102		70 - 130

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

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

Lab Sample ID: LCSD 880-70938/3-A
Matrix: Solid
Analysis Batch: 71032

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 70938

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	928.8		mg/Kg		93	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	872.8		mg/Kg		87	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*84*		*70 - 130*
o-Terphenyl (Surr)	*99*		*70 - 130*

Lab Sample ID: 880-37956-27 MS
Matrix: Solid
Analysis Batch: 71032

Client Sample ID: C-27 0-1
Prep Type: Total/NA
Prep Batch: 70938

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	999	692.1	F1	mg/Kg		65	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	999	721.7		mg/Kg		71	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*70*		*70 - 130*
o-Terphenyl (Surr)	*67*	*S1-*	*70 - 130*

Lab Sample ID: 880-37956-27 MSD
Matrix: Solid
Analysis Batch: 71032

Client Sample ID: C-27 0-1
Prep Type: Total/NA
Prep Batch: 70938

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	<49.8	U F1	999	707.0	F1	mg/Kg		67	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	741.0		mg/Kg		72	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*71*		*70 - 130*
o-Terphenyl (Surr)	*67*	*S1-*	*70 - 130*

Lab Sample ID: MB 880-71377/1-A
Matrix: Solid
Analysis Batch: 71760

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71377

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		01/22/24 17:38	01/28/24 08:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/22/24 17:38	01/28/24 08:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/22/24 17:38	01/28/24 08:03	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

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

Lab Sample ID: MB 880-71377/1-A
Matrix: Solid
Analysis Batch: 71760

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71377

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	181	S1+	70 - 130	01/22/24 17:38	01/28/24 08:03	1
o-Terphenyl (Surr)	154	S1+	70 - 130	01/22/24 17:38	01/28/24 08:03	1

Lab Sample ID: LCS 880-71377/2-A
Matrix: Solid
Analysis Batch: 71760

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71377

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1183		mg/Kg		118	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1011		mg/Kg		101	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	94		70 - 130
o-Terphenyl (Surr)	81		70 - 130

Lab Sample ID: LCSD 880-71377/3-A
Matrix: Solid
Analysis Batch: 71760

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71377

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1219		mg/Kg		122	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1078		mg/Kg		108	70 - 130	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	108		70 - 130
o-Terphenyl (Surr)	99		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC) - RA2

Lab Sample ID: MB 880-70850/1-A
Matrix: Solid
Analysis Batch: 71082

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70850

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 - RA2	<50.0	U	50.0		mg/Kg		01/15/24 11:31	01/18/24 07:29	1
Diesel Range Organics (Over C10-C28) - RA2	<50.0	U	50.0		mg/Kg		01/15/24 11:31	01/18/24 07:29	1
Oll Range Organics (Over C28-C36) - RA2	<50.0	U	50.0		mg/Kg		01/15/24 11:31	01/18/24 07:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr) - RA2	91		70 - 130	01/15/24 11:31	01/18/24 07:29	1
o-Terphenyl (Surr) - RA2	100		70 - 130	01/15/24 11:31	01/18/24 07:29	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-70847/1-A
Matrix: Solid
Analysis Batch: 70993

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			01/16/24 23:01	1

Lab Sample ID: LCS 880-70847/2-A
Matrix: Solid
Analysis Batch: 70993

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	243.5		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-70847/3-A
Matrix: Solid
Analysis Batch: 70993

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	245.1		mg/Kg		98	90 - 110	1	20

Lab Sample ID: 880-37956-5 MS
Matrix: Solid
Analysis Batch: 70993

Client Sample ID: C-5 2'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	11.1		250	260.8		mg/Kg		100	90 - 110		

Lab Sample ID: 880-37956-5 MSD
Matrix: Solid
Analysis Batch: 70993

Client Sample ID: C-5 2'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	11.1		250	278.3		mg/Kg		107	90 - 110	6	20

Lab Sample ID: MB 880-70848/1-A
Matrix: Solid
Analysis Batch: 70994

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			01/17/24 01:33	1

Lab Sample ID: LCS 880-70848/2-A
Matrix: Solid
Analysis Batch: 70994

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	232.1		mg/Kg		93	90 - 110		

Lab Sample ID: LCSD 880-70848/3-A
Matrix: Solid
Analysis Batch: 70994

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	233.1		mg/Kg		93	90 - 110	0	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-37956-15 MS
Matrix: Solid
Analysis Batch: 70994

Client Sample ID: C-15 1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<4.98	U	249	229.9		mg/Kg		91	90 - 110

Lab Sample ID: 880-37956-15 MSD
Matrix: Solid
Analysis Batch: 70994

Client Sample ID: C-15 1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<4.98	U	249	229.8		mg/Kg		91	90 - 110	0	20

Lab Sample ID: 880-37956-25 MS
Matrix: Solid
Analysis Batch: 70994

Client Sample ID: C-25 0-1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<5.01	U	251	233.8		mg/Kg		92	90 - 110

Lab Sample ID: 880-37956-25 MSD
Matrix: Solid
Analysis Batch: 70994

Client Sample ID: C-25 0-1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<5.01	U	251	234.0		mg/Kg		92	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

GC VOA

Prep Batch: 70859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37956-28	C-28 1	Total/NA	Solid	5035	
880-37956-29	C-29 1	Total/NA	Solid	5035	
880-37956-30	C-30 1	Total/NA	Solid	5035	
MB 880-70859/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-70859/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-70859/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 70969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37956-28	C-28 1	Total/NA	Solid	8021B	70859
880-37956-29	C-29 1	Total/NA	Solid	8021B	70859
880-37956-30	C-30 1	Total/NA	Solid	8021B	70859
MB 880-70859/5-A	Method Blank	Total/NA	Solid	8021B	70859
LCS 880-70859/1-A	Lab Control Sample	Total/NA	Solid	8021B	70859
LCSD 880-70859/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	70859

Prep Batch: 71000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37956-1	C-1 2'	Total/NA	Solid	5035	
880-37956-2	C-2 2'	Total/NA	Solid	5035	
880-37956-3	C-3 2'	Total/NA	Solid	5035	
880-37956-4	C-4 2'	Total/NA	Solid	5035	
880-37956-5	C-5 2'	Total/NA	Solid	5035	
880-37956-6	C-6 3'	Total/NA	Solid	5035	
880-37956-7	C-7 3'	Total/NA	Solid	5035	
880-37956-8	C-8 3'	Total/NA	Solid	5035	
880-37956-9	C-9 2'	Total/NA	Solid	5035	
880-37956-10	C-10 2'	Total/NA	Solid	5035	
880-37956-11	C-11 2'	Total/NA	Solid	5035	
880-37956-12	C-12 2'	Total/NA	Solid	5035	
880-37956-13	C-13 2'	Total/NA	Solid	5035	
880-37956-14	C-14 1'	Total/NA	Solid	5035	
880-37956-15	C-15 1'	Total/NA	Solid	5035	
880-37956-16	C-16 1'	Total/NA	Solid	5035	
880-37956-17	C-17 1'	Total/NA	Solid	5035	
880-37956-18	C-18 0-2'	Total/NA	Solid	5035	
880-37956-19	C-19 0-2'	Total/NA	Solid	5035	
880-37956-20	C-20 0-3'	Total/NA	Solid	5035	
MB 880-71000/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-71000/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-71000/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-37956-1 MS	C-1 2'	Total/NA	Solid	5035	
880-37956-1 MSD	C-1 2'	Total/NA	Solid	5035	

Prep Batch: 71001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37956-21	C-21 0-2'	Total/NA	Solid	5035	
880-37956-22	C-22 0-3'	Total/NA	Solid	5035	
880-37956-23	C-23 0-2'	Total/NA	Solid	5035	
880-37956-24	C-24 0-1	Total/NA	Solid	5035	
880-37956-25	C-25 0-1	Total/NA	Solid	5035	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

GC VOA (Continued)

Prep Batch: 71001 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-71001/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-71001/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-71001/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 71036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37956-1	C-1 2'	Total/NA	Solid	8021B	71000
880-37956-2	C-2 2'	Total/NA	Solid	8021B	71000
880-37956-3	C-3 2'	Total/NA	Solid	8021B	71000
880-37956-4	C-4 2'	Total/NA	Solid	8021B	71000
880-37956-5	C-5 2'	Total/NA	Solid	8021B	71000
880-37956-6	C-6 3'	Total/NA	Solid	8021B	71000
880-37956-7	C-7 3'	Total/NA	Solid	8021B	71000
880-37956-8	C-8 3'	Total/NA	Solid	8021B	71000
880-37956-9	C-9 2'	Total/NA	Solid	8021B	71000
880-37956-10	C-10 2'	Total/NA	Solid	8021B	71000
880-37956-11	C-11 2'	Total/NA	Solid	8021B	71000
880-37956-12	C-12 2'	Total/NA	Solid	8021B	71000
880-37956-13	C-13 2'	Total/NA	Solid	8021B	71000
880-37956-14	C-14 1'	Total/NA	Solid	8021B	71000
880-37956-15	C-15 1'	Total/NA	Solid	8021B	71000
880-37956-16	C-16 1'	Total/NA	Solid	8021B	71000
880-37956-17	C-17 1'	Total/NA	Solid	8021B	71000
880-37956-18	C-18 0-2'	Total/NA	Solid	8021B	71000
880-37956-19	C-19 0-2'	Total/NA	Solid	8021B	71000
880-37956-20	C-20 0-3'	Total/NA	Solid	8021B	71000
MB 880-71000/5-A	Method Blank	Total/NA	Solid	8021B	71000
LCS 880-71000/1-A	Lab Control Sample	Total/NA	Solid	8021B	71000
LCSD 880-71000/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71000
880-37956-1 MS	C-1 2'	Total/NA	Solid	8021B	71000
880-37956-1 MSD	C-1 2'	Total/NA	Solid	8021B	71000

Analysis Batch: 71037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37956-21	C-21 0-2'	Total/NA	Solid	8021B	71001
880-37956-22	C-22 0-3'	Total/NA	Solid	8021B	71001
880-37956-23	C-23 0-2'	Total/NA	Solid	8021B	71001
880-37956-24	C-24 0-1	Total/NA	Solid	8021B	71001
880-37956-25	C-25 0-1	Total/NA	Solid	8021B	71001
MB 880-71001/5-A	Method Blank	Total/NA	Solid	8021B	71001
LCS 880-71001/1-A	Lab Control Sample	Total/NA	Solid	8021B	71001
LCSD 880-71001/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71001

Prep Batch: 71055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37956-26	C-26 0-1	Total/NA	Solid	5035	
880-37956-27	C-27 0-1	Total/NA	Solid	5035	
MB 880-71055/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-71055/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-71055/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

GC VOA

Analysis Batch: 71058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37956-26	C-26 0-1	Total/NA	Solid	8021B	71055
880-37956-27	C-27 0-1	Total/NA	Solid	8021B	71055
MB 880-71055/5-A	Method Blank	Total/NA	Solid	8021B	71055
LCS 880-71055/1-A	Lab Control Sample	Total/NA	Solid	8021B	71055
LCSD 880-71055/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71055

Analysis Batch: 71072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37956-1	C-1 2'	Total/NA	Solid	Total BTEX	
880-37956-2	C-2 2'	Total/NA	Solid	Total BTEX	
880-37956-3	C-3 2'	Total/NA	Solid	Total BTEX	
880-37956-4	C-4 2'	Total/NA	Solid	Total BTEX	
880-37956-5	C-5 2'	Total/NA	Solid	Total BTEX	
880-37956-6	C-6 3'	Total/NA	Solid	Total BTEX	
880-37956-7	C-7 3'	Total/NA	Solid	Total BTEX	
880-37956-8	C-8 3'	Total/NA	Solid	Total BTEX	
880-37956-9	C-9 2'	Total/NA	Solid	Total BTEX	
880-37956-10	C-10 2'	Total/NA	Solid	Total BTEX	
880-37956-11	C-11 2'	Total/NA	Solid	Total BTEX	
880-37956-12	C-12 2'	Total/NA	Solid	Total BTEX	
880-37956-13	C-13 2'	Total/NA	Solid	Total BTEX	
880-37956-14	C-14 1'	Total/NA	Solid	Total BTEX	
880-37956-15	C-15 1'	Total/NA	Solid	Total BTEX	
880-37956-16	C-16 1'	Total/NA	Solid	Total BTEX	
880-37956-17	C-17 1'	Total/NA	Solid	Total BTEX	
880-37956-18	C-18 0-2'	Total/NA	Solid	Total BTEX	
880-37956-19	C-19 0-2'	Total/NA	Solid	Total BTEX	
880-37956-20	C-20 0-3'	Total/NA	Solid	Total BTEX	
880-37956-21	C-21 0-2'	Total/NA	Solid	Total BTEX	
880-37956-22	C-22 0-3'	Total/NA	Solid	Total BTEX	
880-37956-23	C-23 0-2'	Total/NA	Solid	Total BTEX	
880-37956-24	C-24 0-1	Total/NA	Solid	Total BTEX	
880-37956-25	C-25 0-1	Total/NA	Solid	Total BTEX	
880-37956-26	C-26 0-1	Total/NA	Solid	Total BTEX	
880-37956-27	C-27 0-1	Total/NA	Solid	Total BTEX	
880-37956-28	C-28 1	Total/NA	Solid	Total BTEX	
880-37956-29	C-29 1	Total/NA	Solid	Total BTEX	
880-37956-30	C-30 1	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 70824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37956-21	C-21 0-2'	Total/NA	Solid	8015B NM	70849
880-37956-22	C-22 0-3'	Total/NA	Solid	8015B NM	70849
880-37956-23	C-23 0-2'	Total/NA	Solid	8015B NM	70849
880-37956-24	C-24 0-1	Total/NA	Solid	8015B NM	70849
880-37956-25	C-25 0-1	Total/NA	Solid	8015B NM	70849
880-37956-26	C-26 0-1	Total/NA	Solid	8015B NM	70849
MB 880-70849/1-A	Method Blank	Total/NA	Solid	8015B NM	70849
LCS 880-70849/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	70849

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

GC Semi VOA (Continued)

Analysis Batch: 70824 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-70849/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	70849

Prep Batch: 70849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37956-21	C-21 0-2'	Total/NA	Solid	8015NM Prep	
880-37956-22	C-22 0-3'	Total/NA	Solid	8015NM Prep	
880-37956-23	C-23 0-2'	Total/NA	Solid	8015NM Prep	
880-37956-24	C-24 0-1	Total/NA	Solid	8015NM Prep	
880-37956-25	C-25 0-1	Total/NA	Solid	8015NM Prep	
880-37956-26	C-26 0-1	Total/NA	Solid	8015NM Prep	
MB 880-70849/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-70849/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-70849/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 70850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37956-1	C-1 2'	Total/NA	Solid	8015NM Prep	
880-37956-2	C-2 2'	Total/NA	Solid	8015NM Prep	
880-37956-3	C-3 2'	Total/NA	Solid	8015NM Prep	
880-37956-4	C-4 2'	Total/NA	Solid	8015NM Prep	
880-37956-5	C-5 2'	Total/NA	Solid	8015NM Prep	
880-37956-6	C-6 3'	Total/NA	Solid	8015NM Prep	
880-37956-7	C-7 3'	Total/NA	Solid	8015NM Prep	
880-37956-8	C-8 3'	Total/NA	Solid	8015NM Prep	
880-37956-9	C-9 2'	Total/NA	Solid	8015NM Prep	
880-37956-10	C-10 2'	Total/NA	Solid	8015NM Prep	
880-37956-11	C-11 2'	Total/NA	Solid	8015NM Prep	
880-37956-12	C-12 2'	Total/NA	Solid	8015NM Prep	
880-37956-13	C-13 2'	Total/NA	Solid	8015NM Prep	
880-37956-14	C-14 1'	Total/NA	Solid	8015NM Prep	
880-37956-15	C-15 1'	Total/NA	Solid	8015NM Prep	
880-37956-16	C-16 1'	Total/NA	Solid	8015NM Prep	
880-37956-17	C-17 1'	Total/NA	Solid	8015NM Prep	
880-37956-18	C-18 0-2'	Total/NA	Solid	8015NM Prep	
880-37956-19	C-19 0-2'	Total/NA	Solid	8015NM Prep	
880-37956-20	C-20 0-3'	Total/NA	Solid	8015NM Prep	
MB 880-70850/1-A - RA2	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-70850/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-70850/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-37956-1 MS	C-1 2'	Total/NA	Solid	8015NM Prep	
880-37956-1 MSD	C-1 2'	Total/NA	Solid	8015NM Prep	

Prep Batch: 70938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37956-27	C-27 0-1	Total/NA	Solid	8015NM Prep	
880-37956-28	C-28 1	Total/NA	Solid	8015NM Prep	
880-37956-29	C-29 1	Total/NA	Solid	8015NM Prep	
880-37956-30	C-30 1	Total/NA	Solid	8015NM Prep	
MB 880-70938/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-70938/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-70938/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

GC Semi VOA (Continued)

Prep Batch: 70938 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37956-27 MS	C-27 0-1	Total/NA	Solid	8015NM Prep	
880-37956-27 MSD	C-27 0-1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 71017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37956-1	C-1 2'	Total/NA	Solid	8015 NM	
880-37956-2	C-2 2'	Total/NA	Solid	8015 NM	
880-37956-3	C-3 2'	Total/NA	Solid	8015 NM	
880-37956-4	C-4 2'	Total/NA	Solid	8015 NM	
880-37956-5	C-5 2'	Total/NA	Solid	8015 NM	
880-37956-6	C-6 3'	Total/NA	Solid	8015 NM	
880-37956-7	C-7 3'	Total/NA	Solid	8015 NM	
880-37956-8	C-8 3'	Total/NA	Solid	8015 NM	
880-37956-9	C-9 2'	Total/NA	Solid	8015 NM	
880-37956-10	C-10 2'	Total/NA	Solid	8015 NM	
880-37956-11	C-11 2'	Total/NA	Solid	8015 NM	
880-37956-12	C-12 2'	Total/NA	Solid	8015 NM	
880-37956-13	C-13 2'	Total/NA	Solid	8015 NM	
880-37956-14	C-14 1'	Total/NA	Solid	8015 NM	
880-37956-15	C-15 1'	Total/NA	Solid	8015 NM	
880-37956-16	C-16 1'	Total/NA	Solid	8015 NM	
880-37956-17	C-17 1'	Total/NA	Solid	8015 NM	
880-37956-18	C-18 0-2'	Total/NA	Solid	8015 NM	
880-37956-19	C-19 0-2'	Total/NA	Solid	8015 NM	
880-37956-20	C-20 0-3'	Total/NA	Solid	8015 NM	
880-37956-21	C-21 0-2'	Total/NA	Solid	8015 NM	
880-37956-22	C-22 0-3'	Total/NA	Solid	8015 NM	
880-37956-23	C-23 0-2'	Total/NA	Solid	8015 NM	
880-37956-24	C-24 0-1	Total/NA	Solid	8015 NM	
880-37956-25	C-25 0-1	Total/NA	Solid	8015 NM	
880-37956-26	C-26 0-1	Total/NA	Solid	8015 NM	
880-37956-27	C-27 0-1	Total/NA	Solid	8015 NM	
880-37956-28	C-28 1	Total/NA	Solid	8015 NM	
880-37956-29	C-29 1	Total/NA	Solid	8015 NM	
880-37956-30	C-30 1	Total/NA	Solid	8015 NM	

Analysis Batch: 71032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37956-27	C-27 0-1	Total/NA	Solid	8015B NM	70938
880-37956-28	C-28 1	Total/NA	Solid	8015B NM	70938
880-37956-29	C-29 1	Total/NA	Solid	8015B NM	70938
880-37956-30	C-30 1	Total/NA	Solid	8015B NM	70938
MB 880-70938/1-A	Method Blank	Total/NA	Solid	8015B NM	70938
LCS 880-70938/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	70938
LCSD 880-70938/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	70938
880-37956-27 MS	C-27 0-1	Total/NA	Solid	8015B NM	70938
880-37956-27 MSD	C-27 0-1	Total/NA	Solid	8015B NM	70938

Analysis Batch: 71082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37956-1	C-1 2'	Total/NA	Solid	8015B NM	70850

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

GC Semi VOA (Continued)

Analysis Batch: 71082 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37956-2	C-2 2'	Total/NA	Solid	8015B NM	70850
880-37956-3	C-3 2'	Total/NA	Solid	8015B NM	70850
880-37956-4	C-4 2'	Total/NA	Solid	8015B NM	70850
880-37956-5	C-5 2'	Total/NA	Solid	8015B NM	70850
880-37956-6	C-6 3'	Total/NA	Solid	8015B NM	70850
880-37956-7	C-7 3'	Total/NA	Solid	8015B NM	70850
880-37956-8	C-8 3'	Total/NA	Solid	8015B NM	70850
880-37956-9	C-9 2'	Total/NA	Solid	8015B NM	70850
880-37956-10	C-10 2'	Total/NA	Solid	8015B NM	70850
880-37956-11	C-11 2'	Total/NA	Solid	8015B NM	70850
880-37956-12	C-12 2'	Total/NA	Solid	8015B NM	70850
880-37956-13	C-13 2'	Total/NA	Solid	8015B NM	70850
880-37956-14	C-14 1'	Total/NA	Solid	8015B NM	70850
880-37956-15	C-15 1'	Total/NA	Solid	8015B NM	70850
880-37956-16	C-16 1'	Total/NA	Solid	8015B NM	70850
880-37956-17	C-17 1'	Total/NA	Solid	8015B NM	70850
880-37956-18	C-18 0-2'	Total/NA	Solid	8015B NM	70850
880-37956-19	C-19 0-2'	Total/NA	Solid	8015B NM	70850
880-37956-20	C-20 0-3'	Total/NA	Solid	8015B NM	70850
MB 880-70850/1-A - RA2	Method Blank	Total/NA	Solid	8015B NM	70850
LCS 880-70850/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	70850
LCSD 880-70850/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	70850
880-37956-1 MS	C-1 2'	Total/NA	Solid	8015B NM	70850
880-37956-1 MSD	C-1 2'	Total/NA	Solid	8015B NM	70850

Prep Batch: 71377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-71377/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71377/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71377/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 71760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-71377/1-A	Method Blank	Total/NA	Solid	8015B NM	71377
LCS 880-71377/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71377
LCSD 880-71377/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71377

HPLC/IC

Leach Batch: 70847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37956-1	C-1 2'	Soluble	Solid	DI Leach	
880-37956-2	C-2 2'	Soluble	Solid	DI Leach	
880-37956-3	C-3 2'	Soluble	Solid	DI Leach	
880-37956-4	C-4 2'	Soluble	Solid	DI Leach	
880-37956-5	C-5 2'	Soluble	Solid	DI Leach	
880-37956-6	C-6 3'	Soluble	Solid	DI Leach	
880-37956-7	C-7 3'	Soluble	Solid	DI Leach	
880-37956-8	C-8 3'	Soluble	Solid	DI Leach	
880-37956-9	C-9 2'	Soluble	Solid	DI Leach	
880-37956-10	C-10 2'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

HPLC/IC (Continued)

Leach Batch: 70847 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37956-11	C-11 2'	Soluble	Solid	DI Leach	
880-37956-12	C-12 2'	Soluble	Solid	DI Leach	
880-37956-13	C-13 2'	Soluble	Solid	DI Leach	
880-37956-14	C-14 1'	Soluble	Solid	DI Leach	
MB 880-70847/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-70847/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-70847/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-37956-5 MS	C-5 2'	Soluble	Solid	DI Leach	
880-37956-5 MSD	C-5 2'	Soluble	Solid	DI Leach	

Leach Batch: 70848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37956-15	C-15 1'	Soluble	Solid	DI Leach	
880-37956-16	C-16 1'	Soluble	Solid	DI Leach	
880-37956-17	C-17 1'	Soluble	Solid	DI Leach	
880-37956-18	C-18 0-2'	Soluble	Solid	DI Leach	
880-37956-19	C-19 0-2'	Soluble	Solid	DI Leach	
880-37956-20	C-20 0-3'	Soluble	Solid	DI Leach	
880-37956-21	C-21 0-2'	Soluble	Solid	DI Leach	
880-37956-22	C-22 0-3'	Soluble	Solid	DI Leach	
880-37956-23	C-23 0-2'	Soluble	Solid	DI Leach	
880-37956-24	C-24 0-1	Soluble	Solid	DI Leach	
880-37956-25	C-25 0-1	Soluble	Solid	DI Leach	
880-37956-26	C-26 0-1	Soluble	Solid	DI Leach	
880-37956-27	C-27 0-1	Soluble	Solid	DI Leach	
880-37956-28	C-28 1	Soluble	Solid	DI Leach	
880-37956-29	C-29 1	Soluble	Solid	DI Leach	
880-37956-30	C-30 1	Soluble	Solid	DI Leach	
MB 880-70848/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-70848/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-70848/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-37956-15 MS	C-15 1'	Soluble	Solid	DI Leach	
880-37956-15 MSD	C-15 1'	Soluble	Solid	DI Leach	
880-37956-25 MS	C-25 0-1	Soluble	Solid	DI Leach	
880-37956-25 MSD	C-25 0-1	Soluble	Solid	DI Leach	

Analysis Batch: 70993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37956-1	C-1 2'	Soluble	Solid	300.0	70847
880-37956-2	C-2 2'	Soluble	Solid	300.0	70847
880-37956-3	C-3 2'	Soluble	Solid	300.0	70847
880-37956-4	C-4 2'	Soluble	Solid	300.0	70847
880-37956-5	C-5 2'	Soluble	Solid	300.0	70847
880-37956-6	C-6 3'	Soluble	Solid	300.0	70847
880-37956-7	C-7 3'	Soluble	Solid	300.0	70847
880-37956-8	C-8 3'	Soluble	Solid	300.0	70847
880-37956-9	C-9 2'	Soluble	Solid	300.0	70847
880-37956-10	C-10 2'	Soluble	Solid	300.0	70847
880-37956-11	C-11 2'	Soluble	Solid	300.0	70847
880-37956-12	C-12 2'	Soluble	Solid	300.0	70847
880-37956-13	C-13 2'	Soluble	Solid	300.0	70847

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

HPLC/IC (Continued)

Analysis Batch: 70993 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37956-14	C-14 1'	Soluble	Solid	300.0	70847
MB 880-70847/1-A	Method Blank	Soluble	Solid	300.0	70847
LCS 880-70847/2-A	Lab Control Sample	Soluble	Solid	300.0	70847
LCSD 880-70847/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	70847
880-37956-5 MS	C-5 2'	Soluble	Solid	300.0	70847
880-37956-5 MSD	C-5 2'	Soluble	Solid	300.0	70847

Analysis Batch: 70994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37956-15	C-15 1'	Soluble	Solid	300.0	70848
880-37956-16	C-16 1'	Soluble	Solid	300.0	70848
880-37956-17	C-17 1'	Soluble	Solid	300.0	70848
880-37956-18	C-18 0-2'	Soluble	Solid	300.0	70848
880-37956-19	C-19 0-2'	Soluble	Solid	300.0	70848
880-37956-20	C-20 0-3'	Soluble	Solid	300.0	70848
880-37956-21	C-21 0-2'	Soluble	Solid	300.0	70848
880-37956-22	C-22 0-3'	Soluble	Solid	300.0	70848
880-37956-23	C-23 0-2'	Soluble	Solid	300.0	70848
880-37956-24	C-24 0-1	Soluble	Solid	300.0	70848
880-37956-25	C-25 0-1	Soluble	Solid	300.0	70848
880-37956-26	C-26 0-1	Soluble	Solid	300.0	70848
880-37956-27	C-27 0-1	Soluble	Solid	300.0	70848
880-37956-28	C-28 1	Soluble	Solid	300.0	70848
880-37956-29	C-29 1	Soluble	Solid	300.0	70848
880-37956-30	C-30 1	Soluble	Solid	300.0	70848
MB 880-70848/1-A	Method Blank	Soluble	Solid	300.0	70848
LCS 880-70848/2-A	Lab Control Sample	Soluble	Solid	300.0	70848
LCSD 880-70848/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	70848
880-37956-15 MS	C-15 1'	Soluble	Solid	300.0	70848
880-37956-15 MSD	C-15 1'	Soluble	Solid	300.0	70848
880-37956-25 MS	C-25 0-1	Soluble	Solid	300.0	70848
880-37956-25 MSD	C-25 0-1	Soluble	Solid	300.0	70848

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

Client Sample ID: C-1 2'
Date Collected: 01/11/24 09:15
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-1
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	71000	01/16/24 13:25	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71036	01/17/24 12:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71072	01/17/24 12:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			71017	01/18/24 10:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	70850	01/15/24 11:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71082	01/18/24 10:14	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70847	01/15/24 11:19	CH	EET MID
Soluble	Analysis	300.0		1			70993	01/17/24 00:08	CH	EET MID

Client Sample ID: C-2 2'
Date Collected: 01/11/24 09:20
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	71000	01/16/24 13:25	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71036	01/17/24 12:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71072	01/17/24 12:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			71017	01/18/24 11:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	70850	01/15/24 11:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71082	01/18/24 11:15	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70847	01/15/24 11:19	CH	EET MID
Soluble	Analysis	300.0		1			70993	01/17/24 00:13	CH	EET MID

Client Sample ID: C-3 2'
Date Collected: 01/11/24 09:22
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-3
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	71000	01/16/24 13:25	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71036	01/17/24 13:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71072	01/17/24 13:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			71017	01/18/24 11:35	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	70850	01/15/24 11:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71082	01/18/24 11:35	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	70847	01/15/24 11:19	CH	EET MID
Soluble	Analysis	300.0		1			70993	01/17/24 00:19	CH	EET MID

Client Sample ID: C-4 2'
Date Collected: 01/11/24 09:24
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-4
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	71000	01/16/24 13:25	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71036	01/17/24 13:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71072	01/17/24 13:42	SM	EET MID

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Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

Client Sample ID: C-4 2'
Date Collected: 01/11/24 09:24
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-4
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			71017	01/18/24 11:56	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	70850	01/15/24 11:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71082	01/18/24 11:56	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	70847	01/15/24 11:19	CH	EET MID
Soluble	Analysis	300.0		1			70993	01/17/24 00:24	CH	EET MID

Client Sample ID: C-5 2'
Date Collected: 01/11/24 09:26
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	71000	01/16/24 13:25	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71036	01/17/24 14:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71072	01/17/24 14:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			71017	01/18/24 12:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	70850	01/15/24 11:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71082	01/18/24 12:17	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	70847	01/15/24 11:19	CH	EET MID
Soluble	Analysis	300.0		1			70993	01/17/24 00:29	CH	EET MID

Client Sample ID: C-6 3'
Date Collected: 01/11/24 09:28
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	71000	01/16/24 13:25	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71036	01/17/24 14:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71072	01/17/24 14:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			71017	01/18/24 12:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	70850	01/15/24 11:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71082	01/18/24 12:37	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	70847	01/15/24 11:19	CH	EET MID
Soluble	Analysis	300.0		1			70993	01/17/24 00:44	CH	EET MID

Client Sample ID: C-7 3'
Date Collected: 01/11/24 09:30
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-7
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			5.00 g	5 mL	71000	01/16/24 13:25	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71036	01/17/24 15:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71072	01/17/24 15:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			71017	01/18/24 12:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	70850	01/15/24 11:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71082	01/18/24 12:58	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

Client Sample ID: C-7 3'
Date Collected: 01/11/24 09:30
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-7
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			5.03 g	50 mL	70847	01/15/24 11:19	CH	EET MID
Soluble	Analysis	300.0		1			70993	01/17/24 00:50	CH	EET MID

Client Sample ID: C-8 3'
Date Collected: 01/11/24 09:32
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-8
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			5.05 g	5 mL	71000	01/16/24 13:25	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71036	01/17/24 15:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71072	01/17/24 15:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			71017	01/18/24 13:19	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	70850	01/15/24 11:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71082	01/18/24 13:19	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	70847	01/15/24 11:19	CH	EET MID
Soluble	Analysis	300.0		1			70993	01/17/24 01:05	CH	EET MID

Client Sample ID: C-9 2'
Date Collected: 01/11/24 09:40
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-9
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			4.98 g	5 mL	71000	01/16/24 13:25	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71036	01/17/24 15:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71072	01/17/24 15:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			71017	01/18/24 13:39	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	70850	01/15/24 11:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71082	01/18/24 13:39	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	70847	01/15/24 11:19	CH	EET MID
Soluble	Analysis	300.0		1			70993	01/17/24 01:10	CH	EET MID

Client Sample ID: C-10 2'
Date Collected: 01/11/24 09:42
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-10
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			4.96 g	5 mL	71000	01/16/24 13:25	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71036	01/17/24 16:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71072	01/17/24 16:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			71017	01/18/24 14:00	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	70850	01/15/24 11:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71082	01/18/24 14:00	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	70847	01/15/24 11:19	CH	EET MID
Soluble	Analysis	300.0		1			70993	01/17/24 01:15	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

Client Sample ID: C-11 2'
Date Collected: 01/11/24 11:00
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-11
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	71000	01/16/24 13:25	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71036	01/17/24 18:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71072	01/17/24 18:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			71017	01/18/24 14:43	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	70850	01/15/24 11:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71082	01/18/24 14:43	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	70847	01/15/24 11:19	CH	EET MID
Soluble	Analysis	300.0		1			70993	01/17/24 01:20	CH	EET MID

Client Sample ID: C-12 2'
Date Collected: 01/11/24 11:02
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-12
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	71000	01/16/24 13:25	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71036	01/17/24 18:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71072	01/17/24 18:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			71017	01/18/24 15:04	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	70850	01/15/24 11:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71082	01/18/24 15:04	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	70847	01/15/24 11:19	CH	EET MID
Soluble	Analysis	300.0		1			70993	01/17/24 01:25	CH	EET MID

Client Sample ID: C-13 2'
Date Collected: 01/11/24 11:04
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-13
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	71000	01/16/24 13:25	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71036	01/17/24 18:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71072	01/17/24 18:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			71017	01/18/24 15:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	70850	01/15/24 11:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71082	01/18/24 15:25	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	70847	01/15/24 11:19	CH	EET MID
Soluble	Analysis	300.0		1			70993	01/17/24 01:31	CH	EET MID

Client Sample ID: C-14 1'
Date Collected: 01/11/24 12:06
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-14
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			5.05 g	5 mL	71000	01/16/24 13:25	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71036	01/17/24 19:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71072	01/17/24 19:20	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

Client Sample ID: C-14 1'
Date Collected: 01/11/24 12:06
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-14
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			71017	01/18/24 15:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	70850	01/15/24 11:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71082	01/18/24 15:47	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	70847	01/15/24 11:19	CH	EET MID
Soluble	Analysis	300.0		1			70993	01/17/24 01:36	CH	EET MID

Client Sample ID: C-15 1'
Date Collected: 01/11/24 12:08
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	71000	01/16/24 13:25	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71036	01/17/24 19:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71072	01/17/24 19:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			71017	01/18/24 16:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	70850	01/15/24 11:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71082	01/18/24 16:08	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	70848	01/15/24 11:21	CH	EET MID
Soluble	Analysis	300.0		1			70994	01/17/24 01:54	CH	EET MID

Client Sample ID: C-16 1'
Date Collected: 01/11/24 12:10
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-16
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			4.96 g	5 mL	71000	01/16/24 13:25	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71036	01/17/24 20:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71072	01/17/24 20:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			71017	01/18/24 16:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	70850	01/15/24 11:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71082	01/18/24 16:29	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	70848	01/15/24 11:21	CH	EET MID
Soluble	Analysis	300.0		1			70994	01/17/24 02:15	CH	EET MID

Client Sample ID: C-17 1'
Date Collected: 01/11/24 12:12
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-17
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			4.95 g	5 mL	71000	01/16/24 13:25	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71036	01/17/24 20:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71072	01/17/24 20:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			71017	01/18/24 16:51	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	70850	01/15/24 11:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71082	01/18/24 16:51	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

Client Sample ID: C-17 1'
Date Collected: 01/11/24 12:12
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-17
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			5.05 g	50 mL	70848	01/15/24 11:21	CH	EET MID
Soluble	Analysis	300.0		1			70994	01/17/24 02:22	CH	EET MID

Client Sample ID: C-18 0-2'
Date Collected: 01/11/24 14:05
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-18
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			5.01 g	5 mL	71000	01/16/24 13:25	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71036	01/17/24 21:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71072	01/17/24 21:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			71017	01/18/24 17:12	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	70850	01/15/24 11:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71082	01/18/24 17:12	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	70848	01/15/24 11:21	CH	EET MID
Soluble	Analysis	300.0		1			70994	01/17/24 02:28	CH	EET MID

Client Sample ID: C-19 0-2'
Date Collected: 01/11/24 14:10
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-19
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			5.04 g	5 mL	71000	01/16/24 13:25	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71036	01/17/24 21:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71072	01/17/24 21:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			71017	01/18/24 17:34	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	70850	01/15/24 11:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71082	01/18/24 17:34	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	70848	01/15/24 11:21	CH	EET MID
Soluble	Analysis	300.0		1			70994	01/17/24 02:35	CH	EET MID

Client Sample ID: C-20 0-3'
Date Collected: 01/11/24 14:12
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-20
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			5.03 g	5 mL	71000	01/16/24 13:25	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71036	01/17/24 21:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71072	01/17/24 21:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			71017	01/18/24 17:55	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	70850	01/15/24 11:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71082	01/18/24 17:55	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70848	01/15/24 11:21	CH	EET MID
Soluble	Analysis	300.0		1			70994	01/17/24 02:56	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

Client Sample ID: C-21 0-2'
Date Collected: 01/11/24 14:16
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-21
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			4.96 g	5 mL	71001	01/16/24 13:33	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71037	01/17/24 16:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71072	01/17/24 16:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			71017	01/16/24 03:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	70849	01/15/24 11:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70824	01/16/24 03:42	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	70848	01/15/24 11:21	CH	EET MID
Soluble	Analysis	300.0		1			70994	01/17/24 03:03	CH	EET MID

Client Sample ID: C-22 0-3'
Date Collected: 01/11/24 14:30
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-22
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			4.97 g	5 mL	71001	01/16/24 13:33	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71037	01/17/24 16:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71072	01/17/24 16:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			71017	01/16/24 04:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	70849	01/15/24 11:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70824	01/16/24 04:02	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70848	01/15/24 11:21	CH	EET MID
Soluble	Analysis	300.0		1			70994	01/17/24 03:10	CH	EET MID

Client Sample ID: C-23 0-2'
Date Collected: 01/11/24 14:35
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-23
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			5.01 g	5 mL	71001	01/16/24 13:33	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71037	01/17/24 17:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71072	01/17/24 17:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			71017	01/16/24 04:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	70849	01/15/24 11:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70824	01/16/24 04:22	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	70848	01/15/24 11:21	CH	EET MID
Soluble	Analysis	300.0		1			70994	01/17/24 03:17	CH	EET MID

Client Sample ID: C-24 0-1
Date Collected: 01/11/24 14:40
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-24
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	71001	01/16/24 13:33	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71037	01/17/24 17:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71072	01/17/24 17:27	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

Client Sample ID: C-24 0-1
Date Collected: 01/11/24 14:40
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-24
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			71017	01/16/24 04:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	70849	01/15/24 11:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70824	01/16/24 04:42	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	70848	01/15/24 11:21	CH	EET MID
Soluble	Analysis	300.0		1			70994	01/17/24 03:23	CH	EET MID

Client Sample ID: C-25 0-1
Date Collected: 01/12/24 09:00
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-25
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			5.05 g	5 mL	71001	01/16/24 13:33	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71037	01/17/24 17:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71072	01/17/24 17:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			71017	01/16/24 05:03	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	70849	01/15/24 11:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70824	01/16/24 05:03	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	70848	01/15/24 11:21	CH	EET MID
Soluble	Analysis	300.0		1			70994	01/17/24 03:30	CH	EET MID

Client Sample ID: C-26 0-1
Date Collected: 01/12/24 09:10
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-26
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			5.03 g	5 mL	71055	01/17/24 11:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71058	01/17/24 20:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71072	01/17/24 20:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			71017	01/16/24 05:24	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	70849	01/15/24 11:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70824	01/16/24 05:24	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	70848	01/15/24 11:21	CH	EET MID
Soluble	Analysis	300.0		1			70994	01/17/24 03:51	CH	EET MID

Client Sample ID: C-27 0-1
Date Collected: 01/12/24 09:12
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-27
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	71055	01/17/24 11:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71058	01/17/24 20:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71072	01/17/24 20:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			71017	01/17/24 20:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	70938	01/15/24 16:38	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71032	01/17/24 20:31	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

Client Sample ID: C-27 0-1
Date Collected: 01/12/24 09:12
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-27
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			5.03 g	50 mL	70848	01/15/24 11:21	CH	EET MID
Soluble	Analysis	300.0		1			70994	01/17/24 03:58	CH	EET MID

Client Sample ID: C-28 1
Date Collected: 01/12/24 09:14
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-28
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			5.04 g	5 mL	70859	01/15/24 13:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70969	01/16/24 21:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71072	01/16/24 21:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			71017	01/17/24 21:34	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	70938	01/15/24 16:38	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71032	01/17/24 21:34	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	70848	01/15/24 11:21	CH	EET MID
Soluble	Analysis	300.0		1			70994	01/17/24 04:18	CH	EET MID

Client Sample ID: C-29 1
Date Collected: 01/12/24 09:16
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-29
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			4.99 g	5 mL	70859	01/15/24 13:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70969	01/16/24 21:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71072	01/16/24 21:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			71017	01/17/24 21:55	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	70938	01/15/24 16:38	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71032	01/17/24 21:55	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70848	01/15/24 11:21	CH	EET MID
Soluble	Analysis	300.0		1			70994	01/17/24 04:25	CH	EET MID

Client Sample ID: C-30 1
Date Collected: 01/12/24 09:18
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37956-30
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	70859	01/15/24 13:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70969	01/16/24 22:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71072	01/16/24 22:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			71017	01/17/24 22:17	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	70938	01/15/24 16:38	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71032	01/17/24 22:17	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	70848	01/15/24 11:21	CH	EET MID
Soluble	Analysis	300.0		1			70994	01/17/24 04:32	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

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: 880-37956-1
Project/Site: SD 23 CTB SDG: 23-0102-02

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	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.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-37956-1
SDG: 23-0102-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-37956-1	C-1 2'	Solid	01/11/24 09:15	01/15/24 10:08
880-37956-2	C-2 2'	Solid	01/11/24 09:20	01/15/24 10:08
880-37956-3	C-3 2'	Solid	01/11/24 09:22	01/15/24 10:08
880-37956-4	C-4 2'	Solid	01/11/24 09:24	01/15/24 10:08
880-37956-5	C-5 2'	Solid	01/11/24 09:26	01/15/24 10:08
880-37956-6	C-6 3'	Solid	01/11/24 09:28	01/15/24 10:08
880-37956-7	C-7 3'	Solid	01/11/24 09:30	01/15/24 10:08
880-37956-8	C-8 3'	Solid	01/11/24 09:32	01/15/24 10:08
880-37956-9	C-9 2'	Solid	01/11/24 09:40	01/15/24 10:08
880-37956-10	C-10 2'	Solid	01/11/24 09:42	01/15/24 10:08
880-37956-11	C-11 2'	Solid	01/11/24 11:00	01/15/24 10:08
880-37956-12	C-12 2'	Solid	01/11/24 11:02	01/15/24 10:08
880-37956-13	C-13 2'	Solid	01/11/24 11:04	01/15/24 10:08
880-37956-14	C-14 1'	Solid	01/11/24 12:06	01/15/24 10:08
880-37956-15	C-15 1'	Solid	01/11/24 12:08	01/15/24 10:08
880-37956-16	C-16 1'	Solid	01/11/24 12:10	01/15/24 10:08
880-37956-17	C-17 1'	Solid	01/11/24 12:12	01/15/24 10:08
880-37956-18	C-18 0-2'	Solid	01/11/24 14:05	01/15/24 10:08
880-37956-19	C-19 0-2'	Solid	01/11/24 14:10	01/15/24 10:08
880-37956-20	C-20 0-3'	Solid	01/11/24 14:12	01/15/24 10:08
880-37956-21	C-21 0-2'	Solid	01/11/24 14:16	01/15/24 10:08
880-37956-22	C-22 0-3'	Solid	01/11/24 14:30	01/15/24 10:08
880-37956-23	C-23 0-2'	Solid	01/11/24 14:35	01/15/24 10:08
880-37956-24	C-24 0-1	Solid	01/11/24 14:40	01/15/24 10:08
880-37956-25	C-25 0-1	Solid	01/12/24 09:00	01/15/24 10:08
880-37956-26	C-26 0-1	Solid	01/12/24 09:10	01/15/24 10:08
880-37956-27	C-27 0-1	Solid	01/12/24 09:12	01/15/24 10:08
880-37956-28	C-28 1	Solid	01/12/24 09:14	01/15/24 10:08
880-37956-29	C-29 1	Solid	01/12/24 09:16	01/15/24 10:08
880-37956-30	C-30 1	Solid	01/12/24 09:18	01/15/24 10:08

37956

No. 3061

CHAIN-OF-CUSTODY

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

Data Reported to

DATE 1/15/2024 PAGE 1 OF 2

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME SD 23 CTB

LAI PROJECT # 23-0102-02 COLLECTOR DSG

TRRP report? ☐ Yes ☒ No

TIME ZONE Time zone/State: MNT/NM

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

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐	HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐	TCLP VOC ☐	TCLP - PEST ☐	HERB ☐	Semi-VOC ☐	TOTAL METALS (RCRA) ☐	OTHER LIST ☐	LEAD - TOTAL ☐	D W 200.8 ☐	TCLP ☐	RCI ☐	TOX ☐	FLASHPOINT ☐	TDS ☐	TSS ☐	% MOISTURE ☐	pH ☐	CYANIDE ☐	HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDES ☒	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
C-1 2'		1/11/24	0915	S	1				X		X			X	X	X																									X			
C-2 2'			0920																																									
C-3 2'			0922																																									
C-4 2'			0924																																									
C-5 2			0926																																									
C-6 3'			0928																																									
C-7 3			0930																																									
C-8 3'			0932																																									
C-9 2			0940																																									
C-10 2'			0942																																									
C-11 2			1100																																									
C-12 2'			1102																																									
C-13 2'			1104																																									
C-14 1'			1206																																									
C-15 1			1204																																									
TOTAL 15																																											

880-37956 Chain of Custody

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
Daniel Johnson	1/15/23 1008	
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 -14 | -13.8 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

1/31/2024 (Rev. 1)

37956 No. 3062

CHAIN-OF-CUSTODY

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

Data Reported to

DATE 1/15/2024 PAGE 2 OF 2

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME SD 23 CTB

LAI PROJECT # 23-0103-02 COLLECTOR _____

TRRP report? ☐ Yes ☒ No

TIME ZONE Time zone/State: MNT / NM

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

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

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

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 NaOH	ICE	UNPRESSERVED	BTEX	TRPH	GASOLINE MOD 8015	DIESEL - MOD 8015	OIL - MOD 8015	FIELD NOTES
C-16 1'		1/11/24	1210	S	1				X		X		X	X	X	
C-17 1'			1212													
C-18 0-2			1405													
C-19 0-2'			1410													
C-20 0-3'			1412													
C-21 0-2'			1416													
C-22 0-3'			1430													
C-23 0-2'			1435													
C-24 0-1			1440													
C-25 0-1		1/12/24	0900													
C-26 0-1			0910													
C-27 0-1			0912													
C-28 1			0914													
C-29 1			0916													
C-30 1			0918													

Loc: 880
37956

TOTAL 15

RELINQUISHED BY (Signature) Daniel Hamm — DATE/TIME 1/15/24 1048 — 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

1/31/2024 (Rev. 1)

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-37956-1
SDG Number: 23-0102-02

Login Number: 37956
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 1/18/2024 10:48:06 AM

JOB DESCRIPTION

SD 23 CTB -Backfill
23-0102-02

JOB NUMBER

880-37955-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

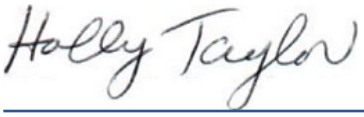
Eurofins Midland

Job Notes

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

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

Authorization



Generated
1/18/2024 10:48:06 AM

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

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB -Backfill

Laboratory Job ID: 880-37955-1
SDG: 23-0102-02

Table of Contents

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-37955-1
Project/Site: SD 23 CTB -Backfill SDG: 23-0102-02

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Larson & Associates, Inc. Job ID: 880-37955-1
Project: SD 23 CTB -Backfill

Job ID: 880-37955-1 Eurofins Midland

Job Narrative
880-37955-1

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

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

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

Receipt
The samples were received on 1/15/2024 10:08 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 -13.8°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BF-1 (880-37955-1) and BF-2 (880-37955-2).

GC VOA
Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-71001 and analytical batch 880-71037 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-70849/2-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.

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: SD 23 CTB -Backfill

Job ID: 880-37955-1
SDG: 23-0102-02

Client Sample ID: BF-1

Lab Sample ID: 880-37955-1
Matrix: Solid
Date Collected: 01/12/24 12:05
Date Received: 01/15/24 10:08

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		01/16/24 13:33	01/17/24 14:22	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/16/24 13:33	01/17/24 14:22	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/16/24 13:33	01/17/24 14:22	1
m,p-Xylenes	<0.00396	U *+	0.00396		mg/Kg		01/16/24 13:33	01/17/24 14:22	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/16/24 13:33	01/17/24 14:22	1
Xylenes, Total	<0.00396	U *+	0.00396		mg/Kg		01/16/24 13:33	01/17/24 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*01/16/24 13:33*	*01/17/24 14:22*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*01/16/24 13:33*	*01/17/24 14:22*	*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			01/17/24 14:22	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/16/24 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)-C6-C10	<50.0	U	50.0		mg/Kg		01/15/24 11:27	01/16/24 02:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/15/24 11:27	01/16/24 02:59	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/15/24 11:27	01/16/24 02:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*71*		*70 - 130*	*01/15/24 11:27*	*01/16/24 02:59*	*1*
o-Terphenyl (Surr)	*71*		*70 - 130*	*01/15/24 11:27*	*01/16/24 02:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**52.7**		4.96		mg/Kg			01/16/24 23:48	1

Client Sample ID: BF-2

Lab Sample ID: 880-37955-2
Matrix: Solid
Date Collected: 01/12/24 12:10
Date Received: 01/15/24 10:08

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/16/24 13:33	01/17/24 16:05	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/16/24 13:33	01/17/24 16:05	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/16/24 13:33	01/17/24 16:05	1
m,p-Xylenes	<0.00402	U *+	0.00402		mg/Kg		01/16/24 13:33	01/17/24 16:05	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/16/24 13:33	01/17/24 16:05	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		01/16/24 13:33	01/17/24 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*01/16/24 13:33*	*01/17/24 16:05*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*01/16/24 13:33*	*01/17/24 16:05*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB -Backfill

Job ID: 880-37955-1
SDG: 23-0102-02

Client Sample ID: BF-2

Date Collected: 01/12/24 12:10
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37955-2

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/17/24 16:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/16/24 03:20	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/15/24 11:27	01/16/24 03:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/15/24 11:27	01/16/24 03:20	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/15/24 11:27	01/16/24 03:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*77*		*70 - 130*	*01/15/24 11:27*	*01/16/24 03:20*	*1*
o-Terphenyl (Surr)	*78*		*70 - 130*	*01/15/24 11:27*	*01/16/24 03:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**155**		4.95		mg/Kg			01/17/24 00:03	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB -Backfill

Job ID: 880-37955-1
SDG: 23-0102-02

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-37955-1	BF-1	87	75
880-37955-2	BF-2	97	73
LCS 880-71001/1-A	Lab Control Sample	110	113
LCSD 880-71001/2-A	Lab Control Sample Dup	115	94
MB 880-71001/5-A	Method Blank	71	89

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-37955-1	BF-1	71	71
880-37955-2	BF-2	77	78
LCS 880-70849/2-A	Lab Control Sample	123	142 S1+
LCSD 880-70849/3-A	Lab Control Sample Dup	102	119
MB 880-70849/1-A	Method Blank	85	93

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB -Backfill

Job ID: 880-37955-1
SDG: 23-0102-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-71001/5-A
Matrix: Solid
Analysis Batch: 71037

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71001

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/16/24 13:33	01/17/24 11:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/16/24 13:33	01/17/24 11:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/16/24 13:33	01/17/24 11:16	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/16/24 13:33	01/17/24 11:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/16/24 13:33	01/17/24 11:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/16/24 13:33	01/17/24 11:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*71*		*70 - 130*	*01/16/24 13:33*	*01/17/24 11:16*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*01/16/24 13:33*	*01/17/24 11:16*	*1*

Lab Sample ID: LCS 880-71001/1-A
Matrix: Solid
Analysis Batch: 71037

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71001

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1294		mg/Kg		129	70 - 130		
Toluene			0.100	0.1127		mg/Kg		113	70 - 130		
Ethylbenzene			0.100	0.1239		mg/Kg		124	70 - 130		
m,p-Xylenes			0.200	0.2698	*+	mg/Kg		135	70 - 130		
o-Xylene			0.100	0.1268		mg/Kg		127	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: LCSD 880-71001/2-A
Matrix: Solid
Analysis Batch: 71037

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71001

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1281		mg/Kg		128	70 - 130	1	35
Toluene			0.100	0.1178		mg/Kg		118	70 - 130	4	35
Ethylbenzene			0.100	0.1260		mg/Kg		126	70 - 130	2	35
m,p-Xylenes			0.200	0.2731	*+	mg/Kg		137	70 - 130	1	35
o-Xylene			0.100	0.1285		mg/Kg		129	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB -Backfill

Job ID: 880-37955-1
SDG: 23-0102-02

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

Lab Sample ID: MB 880-70849/1-A
Matrix: Solid
Analysis Batch: 70824

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70849

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		01/15/24 11:27	01/15/24 20:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/15/24 11:27	01/15/24 20:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/15/24 11:27	01/15/24 20:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*85*		*70 - 130*	*01/15/24 11:27*	*01/15/24 20:31*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*01/15/24 11:27*	*01/15/24 20:31*	*1*

Lab Sample ID: LCS 880-70849/2-A
Matrix: Solid
Analysis Batch: 70824

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70849

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	985.8		mg/Kg		99	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1225		mg/Kg		123	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*123*		*70 - 130*
o-Terphenyl (Surr)	*142*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-70849/3-A
Matrix: Solid
Analysis Batch: 70824

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 70849

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1103		mg/Kg		110	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	1027		mg/Kg		103	70 - 130	18	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*102*		*70 - 130*
o-Terphenyl (Surr)	*119*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-70847/1-A
Matrix: Solid
Analysis Batch: 70993

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			01/16/24 23:01	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB -Backfill

Job ID: 880-37955-1
SDG: 23-0102-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-70847/2-A
Matrix: Solid
Analysis Batch: 70993

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	243.5		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-70847/3-A
Matrix: Solid
Analysis Batch: 70993

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	245.1		mg/Kg		98	90 - 110	1	20

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-37955-1
Project/Site: SD 23 CTB -Backfill SDG: 23-0102-02

GC VOA

Prep Batch: 71001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37955-1	BF-1	Total/NA	Solid	5035	
880-37955-2	BF-2	Total/NA	Solid	5035	
MB 880-71001/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-71001/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-71001/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 71037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37955-1	BF-1	Total/NA	Solid	8021B	71001
880-37955-2	BF-2	Total/NA	Solid	8021B	71001
MB 880-71001/5-A	Method Blank	Total/NA	Solid	8021B	71001
LCS 880-71001/1-A	Lab Control Sample	Total/NA	Solid	8021B	71001
LCSD 880-71001/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71001

Analysis Batch: 71102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37955-1	BF-1	Total/NA	Solid	Total BTEX	
880-37955-2	BF-2	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 70824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37955-1	BF-1	Total/NA	Solid	8015B NM	70849
880-37955-2	BF-2	Total/NA	Solid	8015B NM	70849
MB 880-70849/1-A	Method Blank	Total/NA	Solid	8015B NM	70849
LCS 880-70849/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	70849
LCSD 880-70849/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	70849

Prep Batch: 70849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37955-1	BF-1	Total/NA	Solid	8015NM Prep	
880-37955-2	BF-2	Total/NA	Solid	8015NM Prep	
MB 880-70849/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-70849/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-70849/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 71016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37955-1	BF-1	Total/NA	Solid	8015 NM	
880-37955-2	BF-2	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 70847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37955-1	BF-1	Soluble	Solid	DI Leach	
880-37955-2	BF-2	Soluble	Solid	DI Leach	
MB 880-70847/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-70847/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-70847/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB -Backfill

Job ID: 880-37955-1
SDG: 23-0102-02

HPLC/IC

Analysis Batch: 70993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37955-1	BF-1	Soluble	Solid	300.0	70847
880-37955-2	BF-2	Soluble	Solid	300.0	70847
MB 880-70847/1-A	Method Blank	Soluble	Solid	300.0	70847
LCS 880-70847/2-A	Lab Control Sample	Soluble	Solid	300.0	70847
LCSD 880-70847/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	70847

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB -Backfill

Job ID: 880-37955-1
SDG: 23-0102-02

Client Sample ID: BF-1

Date Collected: 01/12/24 12:05
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37955-1
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			5.05 g	5 mL	71001	01/16/24 13:33	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71037	01/17/24 14:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71102	01/17/24 14:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			71016	01/16/24 02:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	70849	01/15/24 11:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70824	01/16/24 02:59	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	70847	01/15/24 11:19	CH	EET MID
Soluble	Analysis	300.0		1			70993	01/16/24 23:48	CH	EET MID

Client Sample ID: BF-2

Date Collected: 01/12/24 12:10
Date Received: 01/15/24 10:08

Lab Sample ID: 880-37955-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	71001	01/16/24 13:33	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71037	01/17/24 16:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71102	01/17/24 16:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			71016	01/16/24 03:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	70849	01/15/24 11:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70824	01/16/24 03:20	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	70847	01/15/24 11:19	CH	EET MID
Soluble	Analysis	300.0		1			70993	01/17/24 00:03	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB -Backfill

Job ID: 880-37955-1
SDG: 23-0102-02

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	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.
Project/Site: SD 23 CTB -Backfill

Job ID: 880-37955-1
SDG: 23-0102-02

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB -Backfill

Job ID: 880-37955-1
SDG: 23-0102-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-37955-1	BF-1	Solid	01/12/24 12:05	01/15/24 10:08
880-37955-2	BF-2	Solid	01/12/24 12:10	01/15/24 10:08

37955

No. 3064

CHAIN-OF-CUSTODY

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

DATE 1/15/2024 PAGE 1 OF 1

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME SD 33 CTB - Backfill

LAI PROJECT # 23-0102-02 COLLECTOR DSG

Data Reported to

TRRP report? ☐ Yes ☒ No

TIME ZONE Time zone/State: MNT / 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 ☑ 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 ☐	DW 200.8 ☐	TCLP ☐	RCI ☐	TOX ☐	FLASHPOINT ☐	TDS ☐	TSS ☐	% MOISTURE ☐	pH ☐	HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☑	CYANIDE ☐	PECHLORATE ☐	CHLORIDE ☒	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
BF-1		1/12/24	1205	S	1				X		X				X	X	X																										X			
BF-2		1/12/24	1210	S	1				X		X				X	X	X																										X			

880-37955 Chain of Custody

TOTAL 2

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
Daniel Bynum	1/15/24 1008	
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 -14/-13.8 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☑ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-37955-1
SDG Number: 23-0102-02

Login Number: 37955
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 2/21/2024 5:27:56 PM Revision 1

JOB DESCRIPTION

SD 23 CTB
23-0102-02

JOB NUMBER

880-39593-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

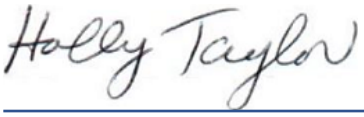
Eurofins Midland

Job Notes

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

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

Authorization



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2/21/2024 5:27:56 PM
Revision 1

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

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Laboratory Job ID: 880-39593-1
SDG: 23-0102-02

Table of Contents

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-39593-1
Project/Site: SD 23 CTB SDG: 23-0102-02

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
S1-	Surrogate recovery exceeds control limits, low 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: 880-39593-1
Project: SD 23 CTB

Job ID: 880-39593-1 Eurofins Midland

Job Narrative
880-39593-1

REVISION
The report being provided is a revision of the original report sent on 2/21/2024. The report (revision 1) is being revised to include the LCS/LCSD for TPH.

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

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

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

Receipt
The sample was received on 2/19/2024 4:06 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C.

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: C-24 0-1' (880-39593-1).

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-73629 and analytical batch 880-73610 was outside the control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: C-24 0-1' (880-39593-1). 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 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-73548/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-73548 and analytical batch 880-73602 contained Gasoline Range Organics (GRO) and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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: SD 23 CTB

Job ID: 880-39593-1
SDG: 23-0102-02

Client Sample ID: C-24 0-1'

Date Collected: 02/19/24 11:30
Date Received: 02/19/24 16:06

Lab Sample ID: 880-39593-1

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		02/20/24 10:04	02/20/24 12:35	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/20/24 10:04	02/20/24 12:35	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/20/24 10:04	02/20/24 12:35	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		02/20/24 10:04	02/20/24 12:35	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/20/24 10:04	02/20/24 12:35	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/20/24 10:04	02/20/24 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*69*	*S1-*	*70 - 130*	*02/20/24 10:04*	*02/20/24 12:35*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*02/20/24 10:04*	*02/20/24 12:35*	*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 12:35	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			02/20/24 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)	<49.9	U	49.9		mg/Kg		02/19/24 17:05	02/20/24 14:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/19/24 17:05	02/20/24 14:06	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/19/24 17:05	02/20/24 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*91*		*70 - 130*	*02/19/24 17:05*	*02/20/24 14:06*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*02/19/24 17:05*	*02/20/24 14:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**62.0**		5.02		mg/Kg			02/20/24 11:51	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-39593-1
SDG: 23-0102-02

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-39593-1	C-24 0-1'	69 S1-	97
LCS 880-73629/1-A	Lab Control Sample	99	124
LCSD 880-73629/2-A	Lab Control Sample Dup	104	114
MB 880-73629/5-A	Method Blank	67 S1-	102

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)
880-39593-1	C-24 0-1'	91	94
LCS 880-73548/2-A	Lab Control Sample	73	82
LCSD 880-73548/3-A	Lab Control Sample Dup	69 S1-	78
MB 880-73548/1-A - RA2	Method Blank	96	104

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-39593-1
SDG: 23-0102-02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-73629/5-A
Matrix: Solid
Analysis Batch: 73610

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 73629

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/20/24 10:04	02/20/24 11:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/24 10:04	02/20/24 11:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/24 10:04	02/20/24 11:52	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		02/20/24 10:04	02/20/24 11:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/24 10:04	02/20/24 11:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/20/24 10:04	02/20/24 11:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*67*	*S1-*	*70 - 130*	*02/20/24 10:04*	*02/20/24 11:52*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*02/20/24 10:04*	*02/20/24 11:52*	*1*

Lab Sample ID: LCS 880-73629/1-A
Matrix: Solid
Analysis Batch: 73610

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 73629

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09553		mg/Kg		96	70 - 130		
Toluene			0.100	0.08594		mg/Kg		86	70 - 130		
Ethylbenzene			0.100	0.09011		mg/Kg		90	70 - 130		
m,p-Xylenes			0.200	0.1851		mg/Kg		93	70 - 130		
o-Xylene			0.100	0.08909		mg/Kg		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*124*		*70 - 130*

Lab Sample ID: LCSD 880-73629/2-A
Matrix: Solid
Analysis Batch: 73610

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 73629

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09530		mg/Kg		95	70 - 130	0	35
Toluene			0.100	0.08625		mg/Kg		86	70 - 130	0	35
Ethylbenzene			0.100	0.09381		mg/Kg		94	70 - 130	4	35
m,p-Xylenes			0.200	0.1905		mg/Kg		95	70 - 130	3	35
o-Xylene			0.100	0.09036		mg/Kg		90	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-39593-1
SDG: 23-0102-02

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

Lab Sample ID: LCS 880-73548/2-A
Matrix: Solid
Analysis Batch: 73602

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 73548

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)			1000	867.7		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	793.2		mg/Kg		79	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*73*		*70 - 130*
o-Terphenyl (Surr)	*82*		*70 - 130*

Lab Sample ID: LCSD 880-73548/3-A
Matrix: Solid
Analysis Batch: 73602

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 73548

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)			1000	823.7		mg/Kg		82	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	753.1		mg/Kg		75	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*69*	*S1-*	*70 - 130*
o-Terphenyl (Surr)	*78*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC) - RA2

Lab Sample ID: MB 880-73548/1-A
Matrix: Solid
Analysis Batch: 73602

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 73548

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) - RA2	<50.0	U	50.0		mg/Kg		02/19/24 15:20	02/20/24 08:05	1
Diesel Range Organics (Over C10-C28) - RA2	<50.0	U	50.0		mg/Kg		02/19/24 15:20	02/20/24 08:05	1
Oll Range Organics (Over C28-C36) - RA2	<50.0	U	50.0		mg/Kg		02/19/24 15:20	02/20/24 08:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr) - RA2	*96*		*70 - 130*	*02/19/24 15:20*	*02/20/24 08:05*	*1*
o-Terphenyl (Surr) - RA2	*104*		*70 - 130*	*02/19/24 15:20*	*02/20/24 08:05*	*1*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-73606/1-A
Matrix: Solid
Analysis Batch: 73655

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			02/20/24 10:56	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-39593-1
SDG: 23-0102-02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-73606/2-A
Matrix: Solid
Analysis Batch: 73655

Client Sample ID: Lab Control Sample
Prep Type: Soluble

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

Lab Sample ID: LCSD 880-73606/3-A
Matrix: Solid
Analysis Batch: 73655

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	240.9		mg/Kg		96	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-39593-1
SDG: 23-0102-02

GC VOA

Analysis Batch: 73610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39593-1	C-24 0-1'	Total/NA	Solid	8021B	73629
MB 880-73629/5-A	Method Blank	Total/NA	Solid	8021B	73629
LCS 880-73629/1-A	Lab Control Sample	Total/NA	Solid	8021B	73629
LCSD 880-73629/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	73629

Prep Batch: 73629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39593-1	C-24 0-1'	Total/NA	Solid	5035	
MB 880-73629/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-73629/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-73629/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 73780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39593-1	C-24 0-1'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 73548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39593-1	C-24 0-1'	Total/NA	Solid	8015NM Prep	
MB 880-73548/1-A - RA2	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-73548/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-73548/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 73602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39593-1	C-24 0-1'	Total/NA	Solid	8015B NM	73548
MB 880-73548/1-A - RA2	Method Blank	Total/NA	Solid	8015B NM	73548
LCS 880-73548/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	73548
LCSD 880-73548/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	73548

Analysis Batch: 73742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39593-1	C-24 0-1'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 73606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39593-1	C-24 0-1'	Soluble	Solid	DI Leach	
MB 880-73606/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-73606/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-73606/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 73655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39593-1	C-24 0-1'	Soluble	Solid	300.0	73606
MB 880-73606/1-A	Method Blank	Soluble	Solid	300.0	73606
LCS 880-73606/2-A	Lab Control Sample	Soluble	Solid	300.0	73606
LCSD 880-73606/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	73606

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-39593-1
SDG: 23-0102-02

Client Sample ID: C-24 0-1'

Date Collected: 02/19/24 11:30
Date Received: 02/19/24 16:06

Lab Sample ID: 880-39593-1

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			5.05 g	5 mL	73629	02/20/24 10:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73610	02/20/24 12:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73780	02/20/24 12:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			73742	02/20/24 14:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	73548	02/19/24 17:05	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73602	02/20/24 14:06	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	73606	02/20/24 07:45	SA	EET MID
Soluble	Analysis	300.0		1			73655	02/20/24 11:51	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-39593-1
Project/Site: SD 23 CTB SDG: 23-0102-02

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	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.
Project/Site: SD 23 CTB

Job ID: 880-39593-1
SDG: 23-0102-02

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: SD 23 CTB

Job ID: 880-39593-1
SDG: 23-0102-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-39593-1	C-24 0-1'	Solid	02/19/24 11:30	02/19/24 16:06

39593 No. 2895

CHAIN-OF-CUSTODY

(Rev. 1) 2/21/2024

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

Data Reported to

DATE 2/19/2024 PAGE 1 OF 1

PO# LAB WORK ORDER#

PROJECT LOCATION OR NAME SD 23 CTB

LAI PROJECT # 23-0102-02 COLLECTOR DSG

TRRP report? ☐ Yes ☒ No

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

TIME ZONE
Time zone/State
MNT/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 ☐	CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-24 0-1'		2/19/24	1130	S	X				X		X		X	X	X												X		202

880-39593 Chain of Custody

TOTAL 1

RELINQUISHED BY (Signature)	DATE/TIME 2/19 4:06	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 ☒ RUSH
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP 2.7/2.6 THERM# DKB -10
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-39593-1
SDG Number: 23-0102-02

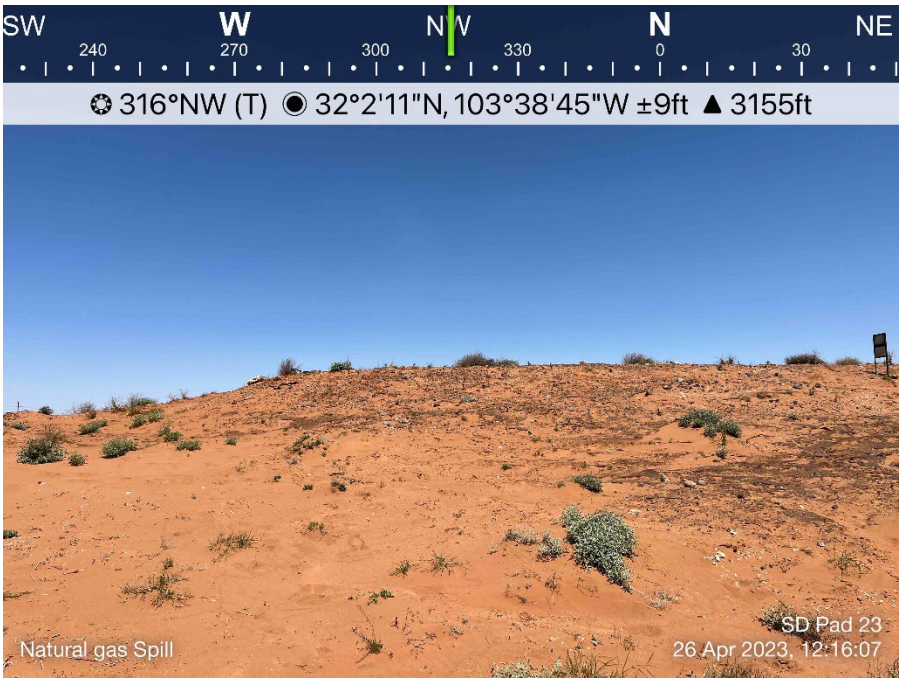
Login Number: 39593
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

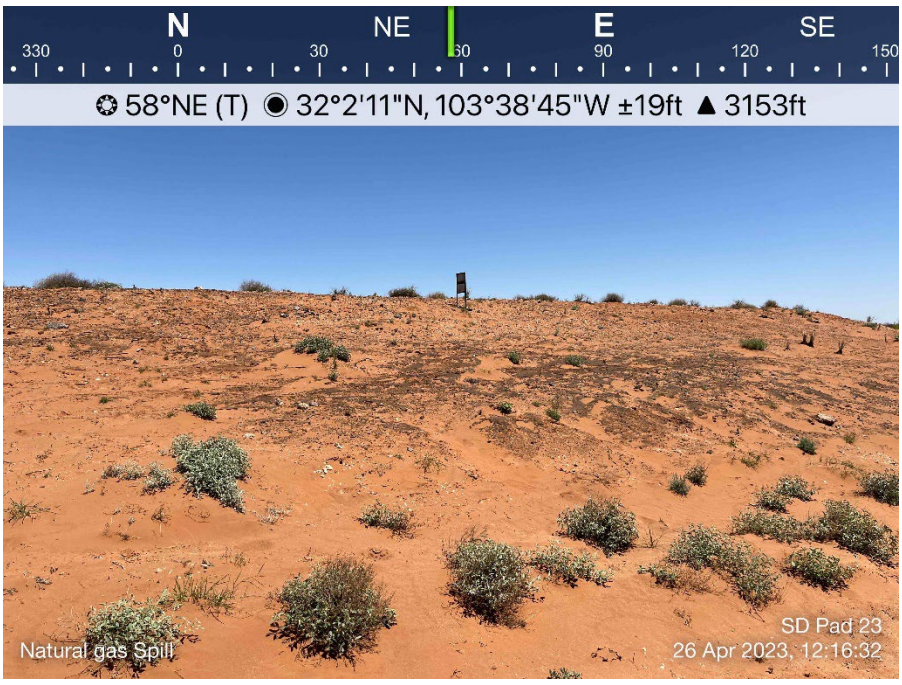
Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature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

Appendix F

Photographic Documentation

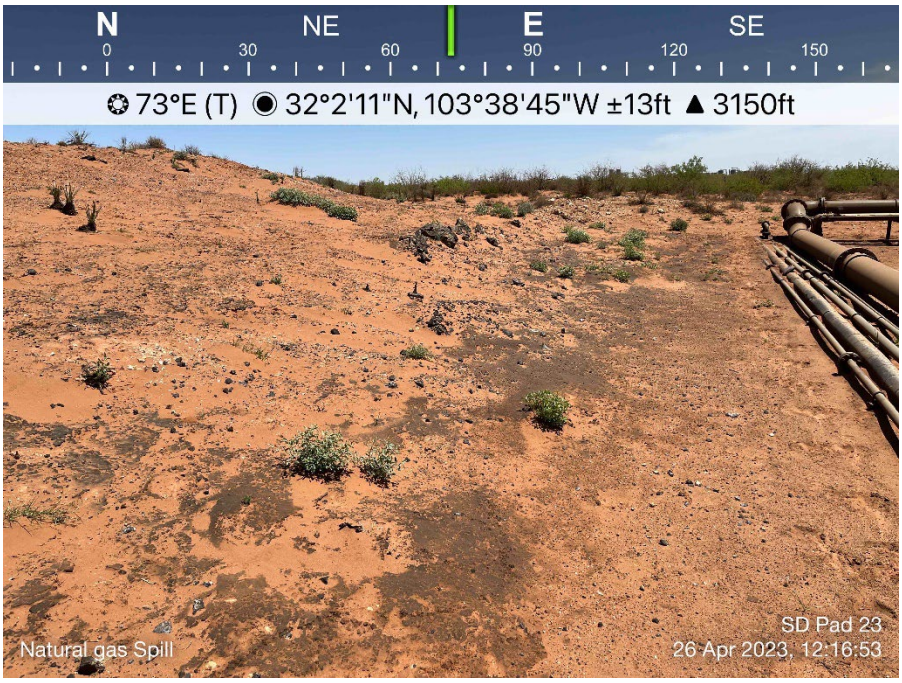


Hydrocarbon staining from flare release, viewing to the northwest.

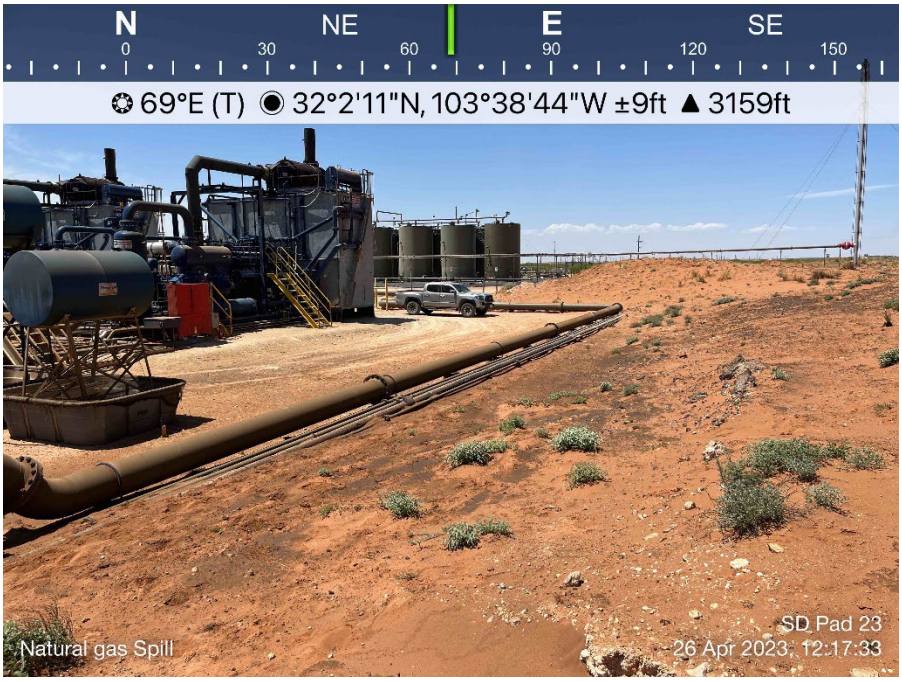


Hydrocarbon staining from flare release, viewing to the northeast.

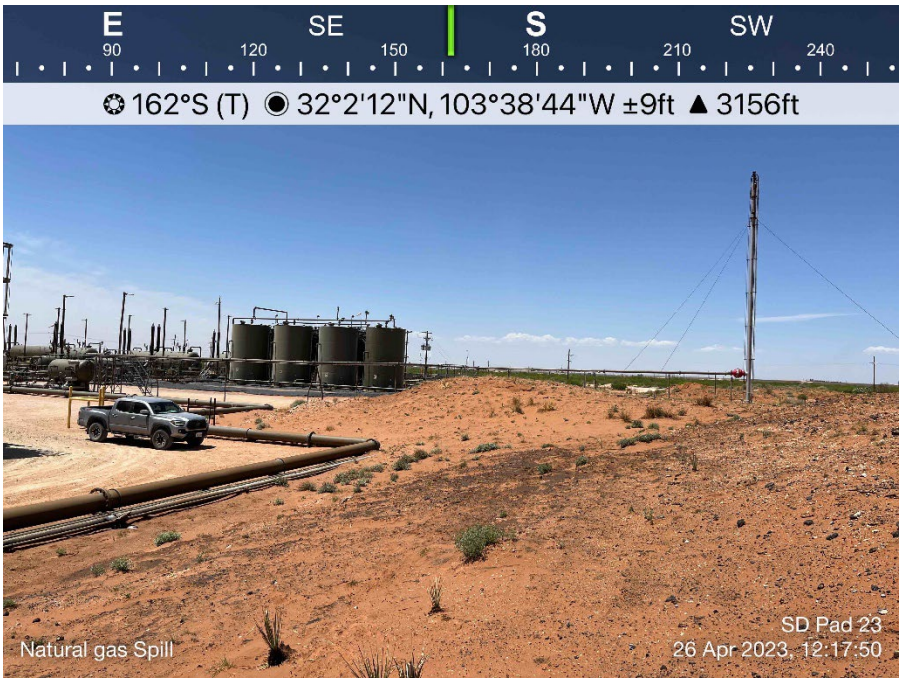
Hydrocarbon staining from flare release, viewing to the east.



Hydrocarbon staining from flare release, viewing to the east.



Hydrocarbon staining from flare release, viewing to the east.



Hydrocarbon staining from flare release, viewing to the south.

Excavated area in the pasture, viewing to the northwest.

Excavated area in the pasture, viewing to the east.

Excavated area in the pasture, viewing to the east.

Excavated area in the pasture, viewing to the south.

Excavated area in the pasture, viewing to the south.

Excavated area in the pasture, viewing to the west.

Excavated area in the pasture, viewing to the south.

Excavated area in the pasture, viewing to the south.

Excavated area in the pasture, viewing to the west.

Excavated area in the pasture, viewing to the east.

Excavated area on the pad, viewing to the west.

Excavated area on the pad, viewing to the northeast.

Excavated area on the pad, viewing to the north.

Excavated area on the pad, viewing to the east.

Excavated area on the pad, viewing to the west.

Excavated area on the pad, viewing to the southwest.

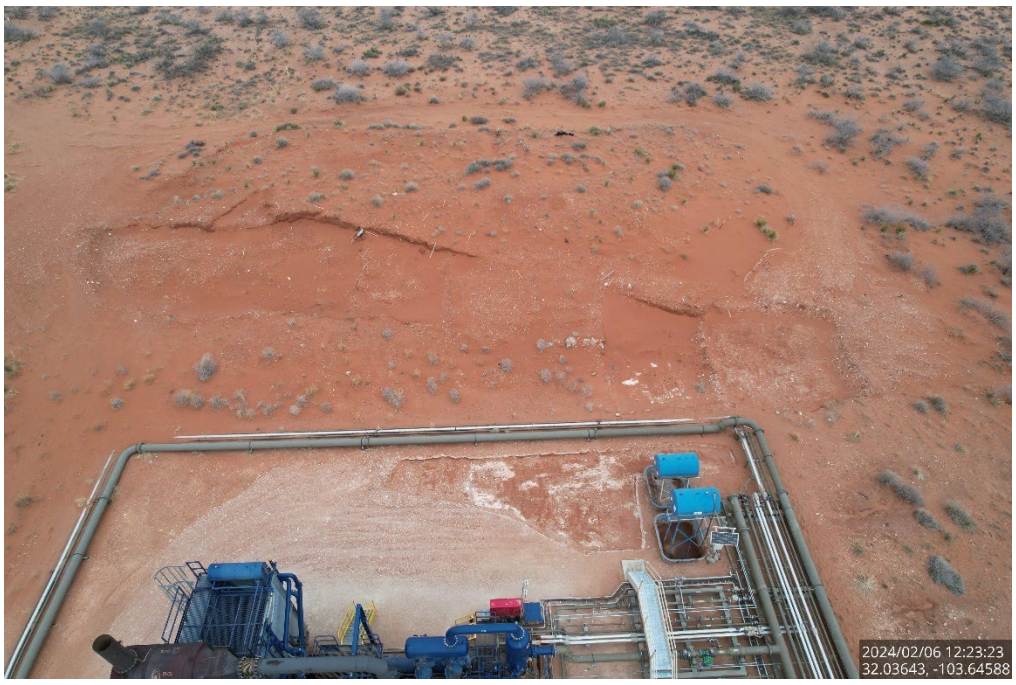
Excavated area on the pad, viewing to the southwest.

Aerial image of the excavation, vertical view.

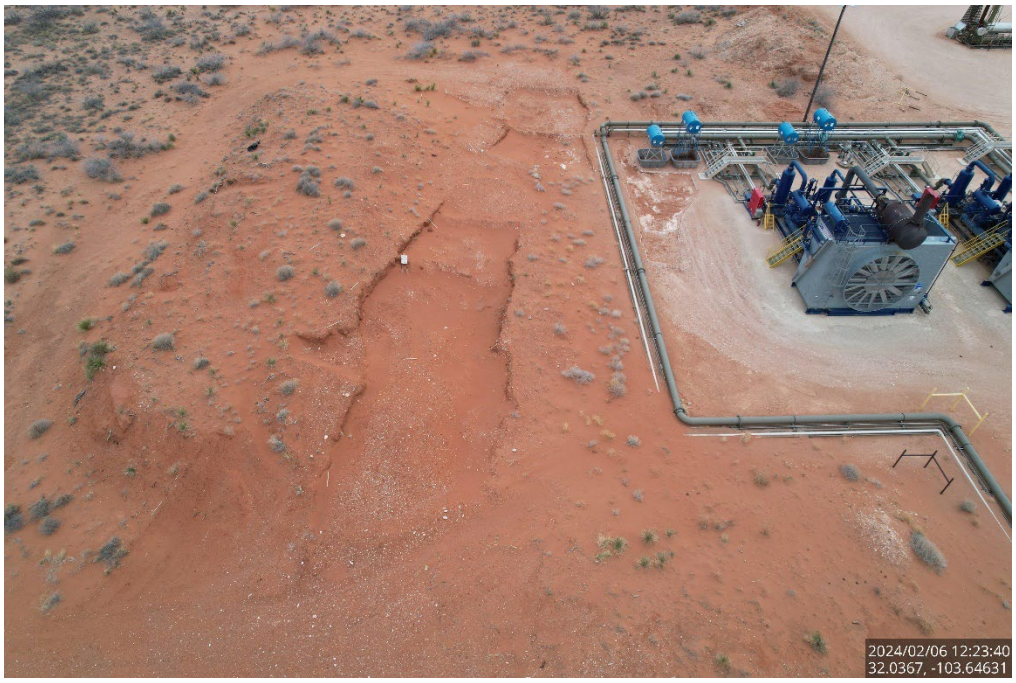
Aerial image of the excavation, vertical view.

Aerial image of the excavation, viewing to the south.

Aerial image of the excavation, viewing to the west.



Aerial image of the excavation, viewing to the north.



Aerial image of the excavation, viewing to the east.

Aerial image of the excavation, vertical view.

Backfilled and seeded excavation in pasture, viewing to the east.

Backfilled and seeded excavation in pasture in pasture, viewing to the east.

Backfilled and seeded excavation in pasture, viewing to the northeast.

Backfilled and seeded excavation in pasture, viewing to the north.

Backfilled and seeded excavation in pasture, viewing to the south.

Backfilled and seeded excavation in pasture, viewing to the southwest.

Backfilled and seeded excavation in pasture, viewing to the east.

Backfilled and seeded excavation in pasture, viewing to the southeast.

Backfilled and seeded excavation in pasture, viewing to the east.

Backfilled and seeded excavation in pasture, viewing to the east.

Backfilled and seeded excavation in pasture, viewing to the southeast.

Backfilled and seeded excavation in pasture, viewing to the southwest.

Backfilled and seeded excavation in pasture, viewing to the south.

Backfilled and seeded excavation in pasture, viewing to the northwest.

Backfilled and seeded excavation in pasture, viewing to the east.

Backfilled and seeded excavation in pasture, viewing to the north.

Backfilled and seeded excavation in pasture, viewing to the north.

Backfilled and seeded excavation in pasture, viewing to the north.

Backfilled and seeded excavation in pasture, viewing to the east.

Backfilled excavation on pad, viewing to the east.

Backfilled excavation on pad, viewing to the east.

Backfilled excavation on pad, viewing to the southeast.

Backfilled excavation on pad, viewing to the southwest.

Backfilled excavation on pad, viewing to the west.

Backfilled excavation on pad, viewing to the west.

Backfilled excavation on pad, viewing to the southeast.

Backfilled excavation on pad, viewing to the south.

Backfilled excavation on pad, viewing to the southwest.

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1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 349175

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 349175
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2308137936**
Incident Name	**NAPP2308137936 SALADO DRAW 23 CENTRAL TANK BATTERY @ 0**
Incident Type	**Fire**
Incident Status	**Reclamation Report Received**
Incident Facility	**[fAPP2134340195] Salado Draw 23 Central Tank Battery**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	SALADO DRAW 23 CENTRAL TANK BATTERY
Date Release Discovered	03/11/2023
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*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	Cause: Equipment Failure | Valve | Condensate | Released: 0 BBL | Recovered: 0 BBL | Lost: 0 BBL.
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 349175
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**More info needed to determine if this will be treated as a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(2) an unauthorized release of a volume that:** **(a) results in a fire or is the result of a fire.**
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

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

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

I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 05/30/2024

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 349175
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	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 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

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)	62
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	105
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	01/09/2024
On what date will (or did) the final sampling or liner inspection occur	02/19/2024
On what date will (or was) the remediation complete(d)	02/22/2024
What is the estimated surface area (in square feet) that will be reclaimed	3109
What is the estimated volume (in cubic yards) that will be reclaimed	230
What is the estimated surface area (in square feet) that will be remediated	3707
What is the estimated volume (in cubic yards) that will be remediated	252
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: 349175
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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	MILESTONE WASTE TREATMENT AND INJECTION FACILITY [fDHR1918357813]
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: 05/30/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 349175
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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: 349175
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**314335**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**02/19/2024**
What was the (estimated) number of samples that were to be gathered	**1**
What was the sampling surface area in square feet	**200**

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	3707
What was the total volume (cubic yards) remediated	252
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	3109
What was the total volume (in cubic yards) reclaimed	230
Summarize any additional remediation activities not included by answers (above)	Between February 20 and 22, 2024, SDR backfilled the excavation area on the pad with about 22.2 cubic yards of caliche. Excavation areas in the pasture were backfilled with about 230.2 cubic yards of topsoil.

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: 05/30/2024

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 349175
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	3109
What was the total volume of replacement material (in cubic yards) for this site	230
Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a 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.	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	02/22/2024
Summarize any additional reclamation activities not included by answers (above)	On February 22, 2024, LAI personnel seeded the backfilled area (3,109 square feet) located in the pasture with two (2) pounds of BLM #2 seed mix, consisting of Bristlegrass Plains (46.19%), Dropseed Sand (22.39%), Lovegrass Sand (22.16%), and inert material (9.24%). The seed was distributed with a broadcast spreader and covered with a thin layer of topsoil.
The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 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: 05/30/2024

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 349175
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.	
Requesting a restoration complete approval with this submission	No
Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.	

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CONDITIONS

Action 349175

CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
nvelez	None	6/26/2024