TRIONYX 6 FEDERAL 001H

OCD incident nAPP2332025304

11/15/2023

Spill Volume(Bbls) Calculator	
Inputs in blue, Outputs in red	
Contaminated Soil measurement	
Area (square feet)	Depth(inches)
5431	0.063
Cubic Feet of Soil Impacted	28.286
Barrels of Soil Impacted	5.04
Soil Type	Clay/Sand
Barrels of Oil Assuming 100% Saturation	0.76
Saturation	Damp no fluid when squeezed
Estimated Barrels of Oil Released	0.08
Free Standing Fluid Only	
Area (square feet)	Depth(inches)
0.901	0.250
Standing fluid	0.003
Total fluids spilled	**0.760**

Incident Number: nAPP2332025304
Closure Report
Crude Oil and Produced Water Release
Trionyx 6 Federal #001H
Lea County, New Mexico

Latitude: N 32.152167°
Longitude: W -103.720750°

LAI Project No. 23-0127-01

March 20, 2024

Prepared for:
Devon Energy
205 E Bender Blvd
Hobbs, New Mexico 88240

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

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

Robert Nelson
Project Manager

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Appendices

1.0 INTRODUCTION

Larson & Associates, Inc. (LAI), has prepared this closure report on behalf of Devon Energy (Devon) for submittal to the New Mexico Oil Conservation Division (NMOCD) District I for a crude oil and produced water release at the Trionyx 6 Federal #001H (Site) located in Unit M (Lot 7), Section 6, Township 25 South, Range 32 East in Lea County New Mexico. The geodetic position is North 32.152167° and West -103.720750°. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

1.1 Background

The release was discovered on November 15, 2023, due to a closed valve on the inlet header going to the tank battery, resulting in the flowline rupturing. Devon reported that approximately 0.04 barrels (bbls) of crude oil and 0.76 bbls of produced water were released, with no recovery. The affected area measures approximately 1,921 square feet. The initial C-141 was submitted to NMOCD District I on November 27, 2023. The release was assigned incident number nAPP2332025304. Appendix A presents the initial C-141 and spill calculation.

1.2 Physical Setting

The physical setting is as follows:

- The surface elevation is approximately 3,442 feet above mean sea level (msl).
- The surface topography gradually decreases to the southwest.
- There are no surface water features within 1,000 feet of the Site.
- Karst data provided by the USGS describes the Site as “Low Risk” potential.
- The soils are designated as Pyote Loamy Fine sands, 0 to 3 percent slopes, consisting of 0 to 25 inches of loamy fine sand and underlain by 25 to 60 inches of fine sandy loam.
- The geology consists of Quaternary-age eolian sand (USGS).
- According to the New Mexico Office of the State Engineer (OSE), groundwater occurs at a depth greater than 55 feet bgs based on depth to groundwater measurements taken at least 72 hours after drilling POD File (C-04635) on June 8, 2022, approximately 0.43 miles west from the Site.

Appendix B presents USGS data depicting karst risk potential map. Appendix C presents the boring log.

1.3 Remediation Standards

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

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

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

2.0 DELINEATION

On November 27, 2023, LAI personnel used a stainless-steel hand auger to collect soil samples from four (4) sample locations (S-1, S-2, S-6, and Source) within the spill area and four (4) sample locations in each cardinal direction outside the spill area (S-3, S-4, S-5, and S-7). Vertical delineation soil samples were collected to a maximum depth between 1 and 2 feet below ground surface (bgs). The horizontal delineation soil samples were collected at a depth of 0 to 0.5 feet bgs. The samples were delivered under chain of custody and preservation to Eurofins-Xenco Laboratories (Xenco) in Midland, Texas, which analyzed the samples for benzene, toluene, ethylbenzene, and xylenes (BTEX) and total petroleum hydrocarbons (TPH), including gasoline range organics (C6 – C12), diesel range organics (>C12 – C28), and oil range organics (>C28 – C35), by EPA SW-846 Methods 8021B and 8015M, respectively, and chloride by EPA Method 300.0E

Benzene and BTEX were reported below the NMOCD remediation standards in Table 1 (19.15.29 NMAC) of 10 milligrams per kilogram (mg/Kg) and 50 mg/Kg, respectively. TPH and chloride exceeded the NMOCD delineation and remediation limit of 100 mg/Kg and 600 mg/Kg, respectively, in the following delineation samples:

Sample ID	Depth (Feet)	TPH Concentration (mg/Kg)	Chloride Concentration (mg/Kg)
Source	0 – 0.5	431	682
	1 – 2	117	--
S-2	0 – 0.5	253	1,380
	0.5 – 1.0	170	--
S-6	0 – 0.5	165	898

On December 7, 2023, LAI personnel used a stainless-steel hand auger to further delineate sample location "*Source*". Soil samples were collected at a depth of three (3) and 3.5 feet bgs. On January 8, 2024, LAI personnel used the Geoprobe 7822DT direct push rig to complete the delineation at sample location "*Source"* to a depth of approximately 5.5 feet bgs. The laboratory results demonstrate the release was delineated according to the NMOCD remediation and closure requirements in Table 1 of 19.15.29.12 NMAC. Figure 2 presents an aerial map showing the spill area and delineation soil sample locations. Appendix E presents the laboratory reports.

3.0 REMEDIATION

On February 14, 2024, SDR Enterprises, LLC (SDR) excavated soil encompassing sample location S-6 to a depth of one (1) foot bgs, S-2 to a depth of 1.5 feet bgs, and "*Source*" to a depth of 4.1 feet bgs. Approximately 100 cubic yards of excavated soil was stockpiled on a liner prior to being hauled to a NMOCD approved disposal facility.

On February 15, 2024, confirmation "Final" soil sampling notification was submitted to the NMOCD via the web portal regarding soil sample collection on February 20, 2024. On February 20, 2024, LAI personnel collected eleven (11) composite bottom and sidewall confirmation soil samples from within the excavated area. Also, one (1) backfill composite sample (BF-1) was collected of clean topsoil stockpiled on location. Confirmation soil samples were delivered under chain of custody and preservation to Xenco, which analyzed the samples for BTEX, TPH, and chloride by EPA SW-846 Methods 8021B, 8015M, and 300.0E, respectively. The laboratory reported benzene, BTEX, and chloride below the NMOCD closure criteria. TPH reported above the NMCOD closure criteria in the following samples:

Sample ID	Location	Depth (Feet)	TPH Concentration (mg/Kg)
C-6	Sidewall	0 – 4.1	110
C-8	Bottom	1.5	371
C-9	Bottom	1.5	320

On March 6, 2024, SDR under supervision from LAI personnel excavated an additional one (1) foot of soil encompassing sidewall sample location C-6, and an additional 2.6 feet encompassing bottom sample locations C-8 and C-9. Subsequent laboratory analysis reported all confirmation soil samples and the backfill sample below the NMOCD closure criteria. On March 12, 2024, SDR backfilled the Site with clean topsoil within the pipeline right-of-way (ROW) and seeded the backfilled area with BLM Mix #2. Table 2 presents the confirmation soil sample analytical data summary. Appendix D presents the NMOCD communications. Appendix E presents the BLM Mix #2 seed mixture. Appendix F presents the laboratory reports. Appendix G presents the photographic documentation.

4.0 CLOSURE REQUEST

Devon requests no further action for nAPP2332025304.

Tables

Table 1
Soil Sample Analytical Data Summary
Trionyx C Federal #01H
Lea County, New Mexico
North 32.152157°, West -103.720748°

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**	**600/10,000**
Source	0 - 0.5	11/27/2023	In-Situ	<0.00200	<0.00401	<50.5	**431**	<50.5	**431**	**682**
	0.5 - 1.0	11/27/2023	In-Situ	<0.00199	<0.00398	<49.9	**79.8**	<49.9	**79.8**	158
	1 - 2	11/27/2023	In-Situ	<0.00199	<0.00398	<49.7	**117**	<49.7	**117**	307
	3	12/7/2023	In-Situ	<0.00200	**0.0146**	<49.8	**356**	<49.8	**356**	**1,150**
	3.5	12/7/2023	In-Situ	<0.00201	<0.00402	<50.5	**163**	<50.5	**163**	372
	5	1/8/2024	In-Situ	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	**680**
	5.5	1/8/2024	In-Situ	<0.00200	<0.00399	<50.5	<50.5	<50.5	<50.5	346
S-1	0 - 0.5	11/27/2023	In-Situ	<0.00199	<0.00398	<50.3	<50.3	<50.3	<50.3	62.8
	0.5 - 1.0	11/27/2023	In-Situ	<0.00200	<0.00399	<50.4	<50.4	<50.4	<50.4	10.5
S-2	0 - 0.5	11/27/2023	In-Situ	<0.00200	<0.00399	<49.9	**253**	<49.8	**253**	**1,380**
	0.5 - 1.0	11/27/2023	In-Situ	<0,00201	<0.00402	<50.5	**170**	<50.5	**170**	259
	1 - 2	11/27/2023	In-Situ	<0.00200	<0.00401	<50.4	**63.2**	<50.4	63.2	66.2
S-3	0 - 0.5	11/27/2023	In-Situ	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	109
S-4	0 - 0.5	11/27/2023	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	32.4
S-5	0 - 0.5	11/27/2023	In-Situ	<0.00200	<0.00401	<50.2	<50.2	<50.2	<50.2	34
S-6	0 - 0.5	11/27/2023	In-Situ	<0.00199	<0.00398	<50.4	**165**	<50.4	**165**	**898**
	0.5 - 1	11/27/2023	In-Situ	<0.00198	<0.00397	<50.5	<50.5	<50.5	<50.5	107
S-7	0 - 0.5	11/27/2023	In-Situ	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	9.05

Notes:

Analysis performed by Eurofins-Xenco Laboratories 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).

Table 1
Soil Sample Analytical Data Summary
Trionyx C Federal #01H
Lea County, New Mexico
North 32.152157°, West -103.720748°

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**	**600/10,000**

<: indicates that parameter concentration is less than the analytical method reporting limit.
Depth reported in feet below ground surface (bgs)
Bold and highlighted indicates that parameter is above NMOCD closure criteria.

Table 2
Confirmation Soil Sample Analytical Data Summary
Trionyx 6 Federal #01H
Lea County, New Mexico
32° 09' 07.76482" N, 103° 43' 14.69127" 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***	***600/10,000***
C-1	Bottom	1	02/20/2024	In-Situ	<0.00199	<0.00398	<50.4	<50.4	<50.4	<50.4	157
C-2	Bottom	1	02/20/2024	In-Situ	<0.00201	<0.00402	<50.5	<50.5	<50.5	<50.5	144
C-3	Sidewall	0 - 1	02/20/2024	In-Situ	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	140
C-4	Bottom	4.1	02/20/2024	In-Situ	<0.00199	<0.00398	<50.0	**138**	<50.0	**138**	469
C-5	Bottom	4.1	02/20/2024	In-Situ	<0.00200	<0.00399	<50.0	**198**	<50.0	**198**	218
C-6	Sidewall	0 - 4.1	02/20/2024	Excavated	<0.00198	<0.00396	<49.6	**110**	<49.6	**110**	252
			03/06/2024	In-Situ	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	48.5
C-7	Sidewall	0 - 4.1	02/20/2024	In-Situ	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	244
C-8	Bottom	1.5	02/20/2024	Excavated	<0.00202	<0.00404	<49.9	**371**	<49.9	**371**	377
		4.1	03/06/2024	In-Situ	<0.00200	<0.00399	<50.2	**105**	<50.2	**105**	685
C-9	Bottom	1.5	02/20/2024	Excavated	<0.00200	<0.00399	<49.8	**320**	<49.8	**320**	390
		4.1	03/06/2024	In-Situ	<0.00198	<0.00396	<50.5	**74.1**	<50.5	**74.1**	1,050
C-10	Bottom	1.5	02/20/2024	In-Situ	<0.00198	<0.00396	<49.9	**96.6**	<49.9	**96.6**	384
C-11	Sidewall	0 - 1.5	02/20/2024	In-Situ	<0.00200	<0.00400	<50.1	<50.1	<50.1	<50.1	429
Backfill Samples											
BF-1	--	--	02/20/2024	In-situ	<0.00199	<0.00398	<50.1	**53.7**	<50.0	**53.7**	25.3

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

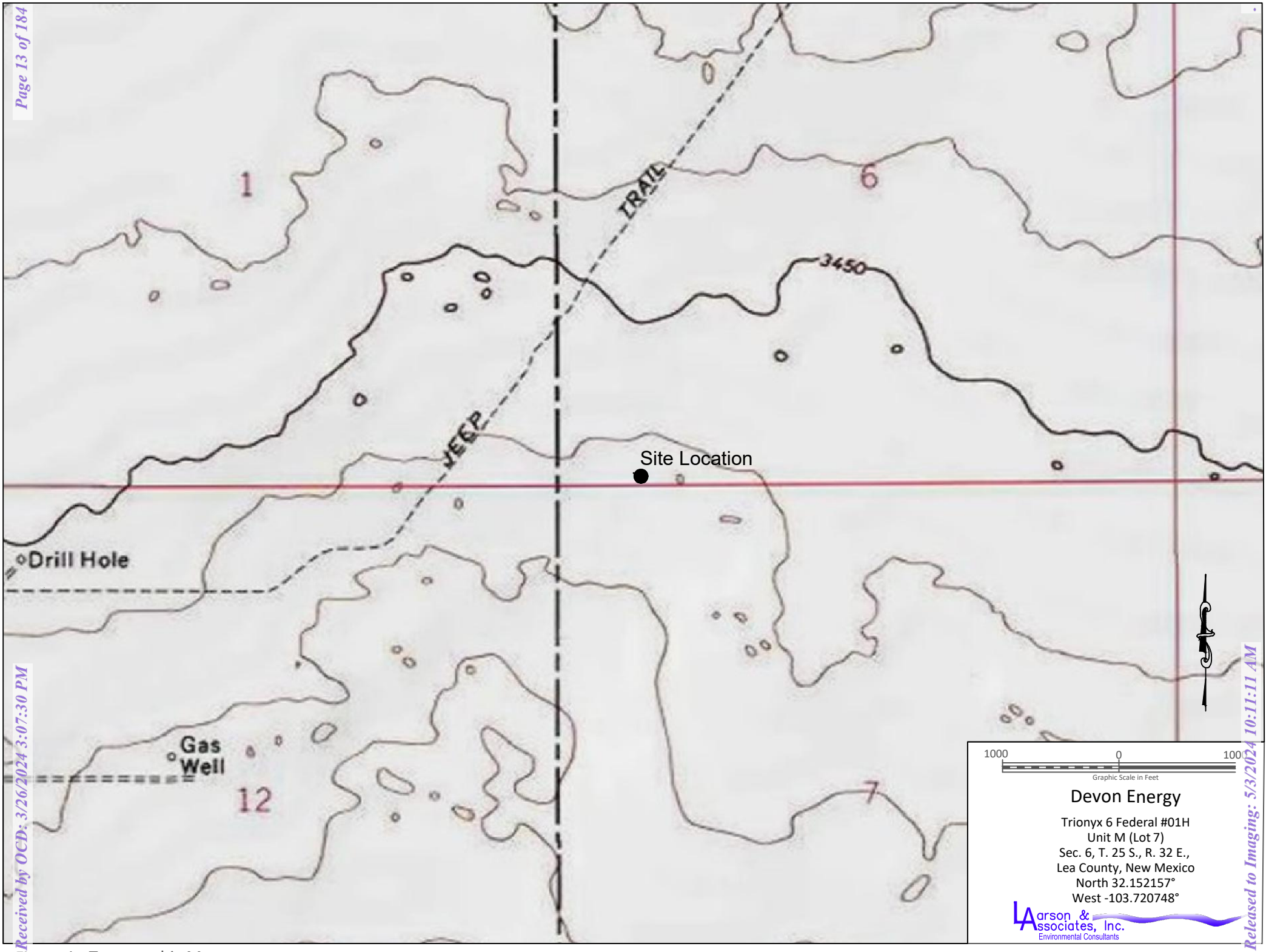

Figure 1 - Topographic Map

Figure 2 - Aerial Map

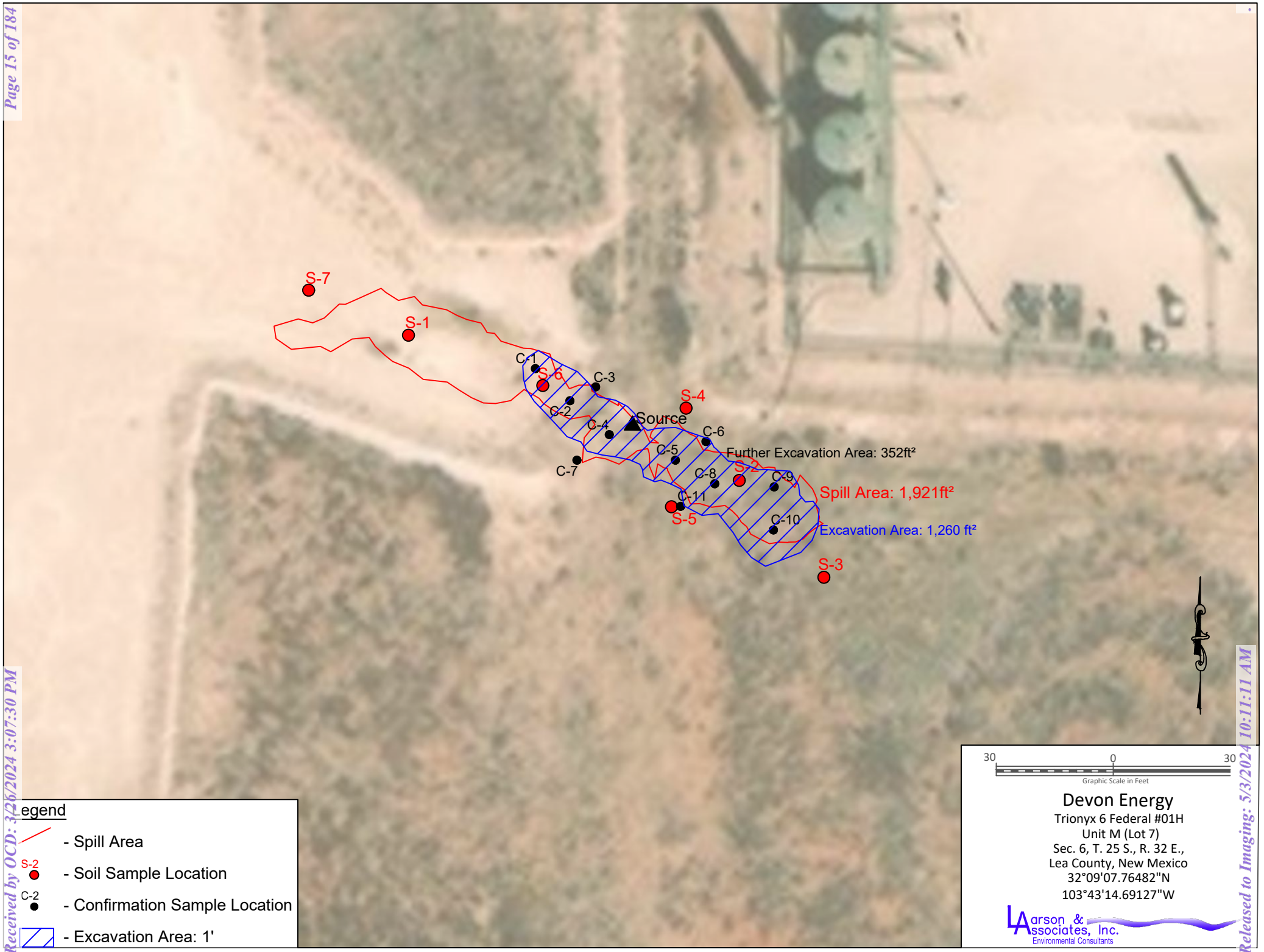

Figure 3 - Aerial Map Showing Excavation Location

Appendix A

Initial C-141 and Spill Calculation

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # *(assigned by OCD)*
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# *(if applicable)*

Unit Letter	Section	Township	Range	County

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 total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

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

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

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

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

Printed Name: Dale Woodall Title: Env. Professional

Signature: Dale Woodall Date: _____

email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: Shelly Wells Date: 11/27/2023

TRIONYX 6 FEDERAL 001H

OCD incident nAPP2332025304

11/15/2023

Spill Volume(Bbls) Calculator	
Inputs in blue, Outputs in red	
Contaminated Soil measurement	
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Soil Type	Clay/Sand
Barrels of Oil Assuming 100% Saturation	0.76
Saturation	Damp no fluid when squeezed
Estimated Barrels of Oil Released	0.08
Free Standing Fluid Only	
Area (square feet)	Depth(inches)
0.901	0.250
Standing fluid	0.003
Total fluids spilled	**0.760**

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

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

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 288229
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	11/27/2023

Appendix B

Karst Risk Potential


Low
Trionyx 6 Federal #01H

Appendix C

Soil Boring Log

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 1 (TW-1)	N/A	C-4635

WELL OWNER NAME(S)	PHONE (OPTIONAL)
Devon Energy	575-748-1838

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
6488 7 Rivers Hwy	Artesia	NM	88210

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	9	9.98	N
	LONGITUDE	103	43	0.69	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

SE SW SE Sec.1 T25S R31S NMPM

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1249	Jackie D. Atkins	Atkins Engineering Associates, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
6/8/2022	6/8/2022	Temporary Well	±55	N/A

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DATE STATIC MEASURED: 6/14/2022

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Hollow Stem Auger

CHECK HERE IF PITLESS ADAPTER IS INSTALLED ☐

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	55	±6.5	Boring-HSA	--	--	--	--

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT

OSE DII JUN 16 2022 PM 3:13

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO.	C-4635	POD NO.	1	TRN NO.	726473
LOCATION	25S.31E.1 434			WELL TAG ID NO.	—

PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	4	4	Sand, Fine-grained, poorly graded, 2.5 YR 3/6, Dark Red	Y ✓ N	
4	32	28	Caliche, with Fine-grained sand, 7.5 YR 7/4, Pink	Y ✓ N	
32	55	23	Sand, Fine-grained, poorly graded, 7.5 YR 6/8, Reddish Yellow	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface.
21
Cotton Draw Unit 172

OSE DII JUN 16 2022 PM3:13

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Shane Eldridge, Cameron Pruitt

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

Jack Atkins — Jackie D. Atkins — 6/16/2022

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO. C-4635	POD NO. 1	TRN NO. 726473	
LOCATION 25S.31E.1 434		WELL TAG ID NO.	PAGE 2 OF 2

Mike A. Hamman, P.E.
State Engineer

Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

Trn Nbr: 726473
File Nbr: C 04635
Well File Nbr: C 04635 POD1

Jun. 24, 2022

DALE WOODALL
DEVON ENERGY
6488 7 RIVERS HWY
ARTESIA, NM 88210

Greetings:

The above numbered permit was issued in your name on 05/26/2022.

The Well Record was received in this office on 06/16/2022, stating that it had been completed on 06/08/2022, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 05/26/2023.

If you have any questions, please feel free to contact us.

Sincerely,

Azucena Ramirez
(575)622-6521

drywell

Appendix D

NMOCD Communications

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

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

QUESTIONS

Action 299045

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 299045
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2332025304**
Incident Name	**NAPP2332025304 TRIONYX 6 FEDERAL #001H @ 30-025-39948**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**
Incident Well	**[30-025-39948] TRIONYX 6 FEDERAL #001H**

Location of Release Source	
Site Name	**TRIONYX 6 FEDERAL #001H**
Date Release Discovered	**11/15/2023**
Surface Owner	**Federal**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	400
What is the estimated number of samples that will be gathered	2
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/08/2024
Time sampling will commence	10:00 AM
Please provide any information necessary for observers to contact samplers	Robert Nelson – 432-664-4804 – rnelson@laenvironmental.com
Please provide any information necessary for navigation to sampling site	Sampling Location – Trionyx 6 Federal #001H – 32.152167, -103.720750 Directions to Site – From Orla Road, turn west onto Monsanto Lane and follow road for 2.9 miles. Turn right (north) onto county road 1-B. Follow county road 1-B for 2.2 miles. Location will be on south side of the road.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
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Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
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Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 299045

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 299045
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

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

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

QUESTIONS

Action 314389

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 314389
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2332025304**
Incident Name	**NAPP2332025304 TRIONYX 6 FEDERAL #001H @ 30-025-39948**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**
Incident Well	**[30-025-39948] TRIONYX 6 FEDERAL #001H**

Location of Release Source	
Site Name	**TRIONYX 6 FEDERAL #001H**
Date Release Discovered	**11/15/2023**
Surface Owner	**Federal**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	1,221
What is the estimated number of samples that will be gathered	11
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/20/2024
Time sampling will commence	03:00 PM
Please provide any information necessary for observers to contact samplers	Robert Nelson Project Manager Office – 432-687-0901 Cell – 432-664-4804 rnelson@laenvironmental.com
Please provide any information necessary for navigation to sampling site	32.152167, -103.720750

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

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 314389
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
wdale	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	2/15/2024

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 319755

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 319755
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2332025304**
Incident Name	**NAPP2332025304 TRIONYX 6 FEDERAL #001H @ 30-025-39948**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**
Incident Well	**[30-025-39948] TRIONYX 6 FEDERAL #001H**

Location of Release Source	
Site Name	**TRIONYX 6 FEDERAL #001H**
Date Release Discovered	**11/15/2023**
Surface Owner	**Federal**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	600
What is the estimated number of samples that will be gathered	3
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/06/2024
Time sampling will commence	05:00 PM
Please provide any information necessary for observers to contact samplers	Robert Nelson/432-664-4804/rnelson@lanenvironmental.com
Please provide any information necessary for navigation to sampling site	M-06-25S-32E 200 FSL 940 FWL (32.1525803, -103.7199936)

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

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

CONDITIONS

Action 319755

CONDITIONS

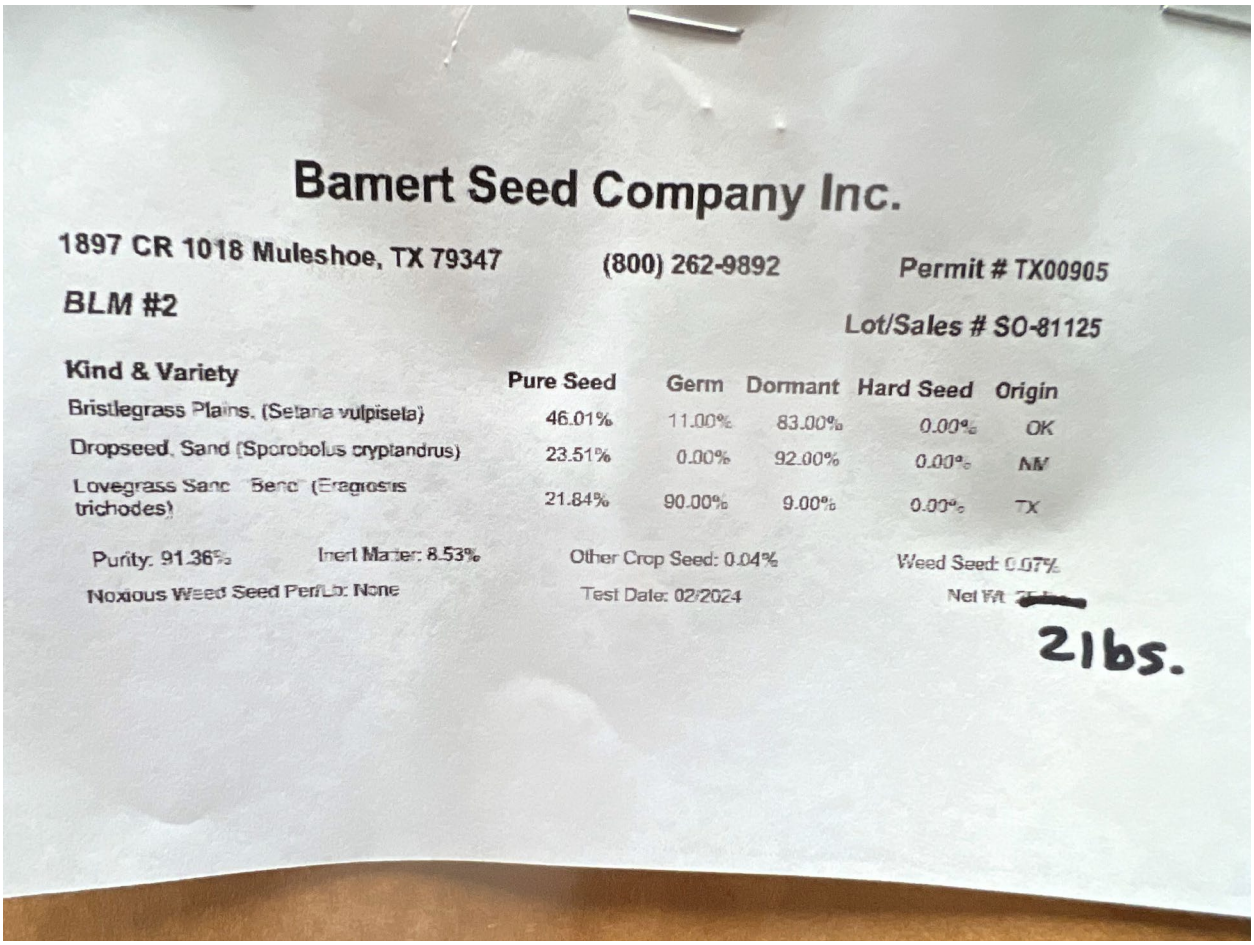
Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 319755
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
wdale	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	3/4/2024

Appendix E

BLM Mix #2 Seed Mix



Bamert Seed Company Inc.

1897 CR 1018 Muleshoe, TX 79347 (800) 262-9892 Permit # TX00905

BLM #2

Lot/Sales # SO-81125

Kind & Variety	Pure Seed	Germ	Dormant	Hard Seed	Origin
Bristlegrass Plains, (Setaria vulpiseta)	46.01%	11.00%	83.00%	0.00%	OK
Dropseed, Sand (Sporobolus cryptandrus)	23.51%	0.00%	92.00%	0.00%	NM
Lovegrass Sand "Bend" (Eragrostis trichodes)	21.84%	90.00%	9.00%	0.00%	TX

Purity: 91.36% Inert Matter: 8.53% Other Crop Seed: 0.04% Weed Seed: 0.07%

Noxious Weed Seed Per Lb: None Test Date: 02/2024 Net Wt [redacted]

21lbs.

Appendix F

Laboratory Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/1/2023 2:28:28 PM

JOB DESCRIPTION

Trionyx C Federal #01H
23-0127-01

JOB NUMBER

880-36143-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Holly Taylor

Generated
12/1/2023 2:28:28 PM

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

Table of Contents

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-36143-1
Project/Site: Trionyx C Federal #01H SDG: 23-0127-01

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, 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: 880-36143-1
Project/Site: Trionyx C Federal #01H SDG: 23-0127-01

Job ID: 880-36143-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-36143-1

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 11/28/2023 8:26 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 -2.0°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: S-1. 0-0.5 (880-36143-1), S-1. 0.5-1 (880-36143-2), Source, 0-0.5 (880-36143-3), Source, 0.5-1 (880-36143-4), Source, 1-2 (880-36143-5), S-2, 0-0.5 (880-36143-6), S-2, 0.5-1 (880-36143-7), S-2, 1-2 (880-36143-8), S-3, 0-0.5 (880-36143-9), S-4, 0-0.5 (880-36143-10), S-5, 0-0.5 (880-36143-11), S-6, 0-0.5 (880-36143-12), S-6, 0.5-1 (880-36143-13) and S-7, 0-0.5 (880-36143-14).

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-67964 and analytical batch 880-68011 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-67964 and analytical batch 880-68011 was outside the control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-6, 0-0.5 (880-36143-12). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-67908/5-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.

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-67813 and analytical batch 880-67889 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-1. 0-0.5 (880-36143-1), S-1. 0.5-1 (880-36143-2), Source, 0-0.5 (880-36143-3), Source, 0.5-1 (880-36143-4), (890-5661-A-41-C), (890-5661-A-41-D MS) and (890-5661-A-41-E MSD). 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.

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: Trionyx C Federal #01H

Job ID: 880-36143-1
SDG: 23-0127-01

Client Sample ID: S-1. 0-0.5

Date Collected: 11/27/23 12:35
Date Received: 11/28/23 08:26

Lab Sample ID: 880-36143-1
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		11/29/23 16:04	12/01/23 04:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/29/23 16:04	12/01/23 04:59	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		11/29/23 16:04	12/01/23 04:59	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/29/23 16:04	12/01/23 04:59	1
o-Xylene	<0.00199	U F1	0.00199		mg/Kg		11/29/23 16:04	12/01/23 04:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/29/23 16:04	12/01/23 04:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*11/29/23 16:04*	*12/01/23 04:59*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*11/29/23 16:04*	*12/01/23 04:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/01/23 04:59	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			11/29/23 13:44	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		11/28/23 10:11	11/29/23 13:44	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		11/28/23 10:11	11/29/23 13:44	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		11/28/23 10:11	11/29/23 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*146*	*S1+*	*70 - 130*	*11/28/23 10:11*	*11/29/23 13:44*	*1*
o-Terphenyl (Surr)	*128*		*70 - 130*	*11/28/23 10:11*	*11/29/23 13:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**62.8**		5.00		mg/Kg			11/30/23 11:52	1

Client Sample ID: S-1. 0.5-1

Date Collected: 11/27/23 12:37
Date Received: 11/28/23 08:26

Lab Sample ID: 880-36143-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/29/23 16:04	12/01/23 05:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/29/23 16:04	12/01/23 05:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/29/23 16:04	12/01/23 05:25	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		11/29/23 16:04	12/01/23 05:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/29/23 16:04	12/01/23 05:25	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/29/23 16:04	12/01/23 05:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*11/29/23 16:04*	*12/01/23 05:25*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*11/29/23 16:04*	*12/01/23 05:25*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Trionyx C Federal #01H

Job ID: 880-36143-1
SDG: 23-0127-01

Client Sample ID: S-1. 0.5-1

Date Collected: 11/27/23 12:37
Date Received: 11/28/23 08:26

Lab Sample ID: 880-36143-2
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			12/01/23 05:25	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			11/29/23 14:07	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		11/28/23 10:11	11/29/23 14:07	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		11/28/23 10:11	11/29/23 14:07	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		11/28/23 10:11	11/29/23 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*173*	*S1+*	*70 - 130*	*11/28/23 10:11*	*11/29/23 14:07*	*1*
o-Terphenyl (Surr)	*154*	*S1+*	*70 - 130*	*11/28/23 10:11*	*11/29/23 14:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.5**		5.02		mg/Kg			11/30/23 11:58	1

Client Sample ID: Source, 0-0.5

Date Collected: 11/27/23 12:43
Date Received: 11/28/23 08:26

Lab Sample ID: 880-36143-3
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		11/29/23 16:04	12/01/23 05:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/29/23 16:04	12/01/23 05:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/29/23 16:04	12/01/23 05:51	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		11/29/23 16:04	12/01/23 05:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/29/23 16:04	12/01/23 05:51	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/29/23 16:04	12/01/23 05:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*11/29/23 16:04*	*12/01/23 05:51*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*11/29/23 16:04*	*12/01/23 05:51*	*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			12/01/23 05:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**431**		50.5		mg/Kg			11/29/23 14:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		11/28/23 10:11	11/29/23 14:29	1
Diesel Range Organics (Over C10-C28)	**431**		50.5		mg/Kg		11/28/23 10:11	11/29/23 14:29	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-36143-1
Project/Site: Trionyx C Federal #01H SDG: 23-0127-01

Client Sample ID: Source, 0-0.5 Lab Sample ID: 880-36143-3

Date Collected: 11/27/23 12:43 **Matrix: Solid**
Date Received: 11/28/23 08:26

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		11/28/23 10:11	11/29/23 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*149*	*S1+*	*70 - 130*	*11/28/23 10:11*	*11/29/23 14:29*	*1*
o-Terphenyl (Surr)	*127*		*70 - 130*	*11/28/23 10:11*	*11/29/23 14:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**682**		4.99		mg/Kg			11/30/23 12:18	1

Client Sample ID: Source, 0.5-1 Lab Sample ID: 880-36143-4

Date Collected: 11/27/23 12:45 **Matrix: Solid**
Date Received: 11/28/23 08:26

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/29/23 16:04	12/01/23 06:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/29/23 16:04	12/01/23 06:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/29/23 16:04	12/01/23 06:17	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/29/23 16:04	12/01/23 06:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/29/23 16:04	12/01/23 06:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/29/23 16:04	12/01/23 06:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*11/29/23 16:04*	*12/01/23 06:17*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*11/29/23 16:04*	*12/01/23 06:17*	*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			12/01/23 06:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**79.8**		49.9		mg/Kg			11/29/23 14:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/28/23 10:11	11/29/23 14:52	1
Diesel Range Organics (Over C10-C28)	**79.8**		49.9		mg/Kg		11/28/23 10:11	11/29/23 14:52	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/28/23 10:11	11/29/23 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*144*	*S1+*	*70 - 130*	*11/28/23 10:11*	*11/29/23 14:52*	*1*
o-Terphenyl (Surr)	*125*		*70 - 130*	*11/28/23 10:11*	*11/29/23 14:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**158**		5.00		mg/Kg			11/30/23 12:24	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Trionyx C Federal #01H

Job ID: 880-36143-1
SDG: 23-0127-01

Client Sample ID: Source, 1-2

Lab Sample ID: 880-36143-5
Matrix: Solid
Date Collected: 11/27/23 12:47
Date Received: 11/28/23 08:26

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/29/23 16:04	12/01/23 06:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/29/23 16:04	12/01/23 06:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/29/23 16:04	12/01/23 06:42	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/29/23 16:04	12/01/23 06:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/29/23 16:04	12/01/23 06:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/29/23 16:04	12/01/23 06:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*11/29/23 16:04*	*12/01/23 06:42*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*11/29/23 16:04*	*12/01/23 06:42*	*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			12/01/23 06:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**117**		49.7		mg/Kg			11/29/23 15:37	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		11/28/23 10:11	11/29/23 15:37	1
Diesel Range Organics (Over C10-C28)	**117**		49.7		mg/Kg		11/28/23 10:11	11/29/23 15:37	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		11/28/23 10:11	11/29/23 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*157*	*S1+*	*70 - 130*	*11/28/23 10:11*	*11/29/23 15:37*	*1*
o-Terphenyl (Surr)	*135*	*S1+*	*70 - 130*	*11/28/23 10:11*	*11/29/23 15:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**307**		5.01		mg/Kg			11/30/23 12:31	1

Client Sample ID: S-2, 0-0.5

Lab Sample ID: 880-36143-6
Matrix: Solid
Date Collected: 11/27/23 12:54
Date Received: 11/28/23 08:26

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/29/23 16:04	12/01/23 07:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/29/23 16:04	12/01/23 07:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/29/23 16:04	12/01/23 07:08	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		11/29/23 16:04	12/01/23 07:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/29/23 16:04	12/01/23 07:08	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/29/23 16:04	12/01/23 07:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*11/29/23 16:04*	*12/01/23 07:08*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*11/29/23 16:04*	*12/01/23 07:08*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-36143-1
Project/Site: Trionyx C Federal #01H SDG: 23-0127-01

Client Sample ID: S-2, 0-0.5

Lab Sample ID: 880-36143-6
Date Collected: 11/27/23 12:54 **Matrix: Solid**
Date Received: 11/28/23 08:26

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			12/01/23 07:08	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**253**		49.8		mg/Kg			11/29/23 15:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/28/23 10:11	11/29/23 15:59	1
Diesel Range Organics (Over C10-C28)	**253**		49.8		mg/Kg		11/28/23 10:11	11/29/23 15:59	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/28/23 10:11	11/29/23 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*162*	*S1+*	*70 - 130*	*11/28/23 10:11*	*11/29/23 15:59*	*1*
o-Terphenyl (Surr)	*144*	*S1+*	*70 - 130*	*11/28/23 10:11*	*11/29/23 15:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1380**		5.04		mg/Kg			11/30/23 12:37	1

Client Sample ID: S-2, 0.5-1

Lab Sample ID: 880-36143-7
Date Collected: 11/27/23 12:55 **Matrix: Solid**
Date Received: 11/28/23 08:26

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/29/23 16:04	12/01/23 07:35	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/29/23 16:04	12/01/23 07:35	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/29/23 16:04	12/01/23 07:35	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		11/29/23 16:04	12/01/23 07:35	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/29/23 16:04	12/01/23 07:35	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/29/23 16:04	12/01/23 07:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*11/29/23 16:04*	*12/01/23 07:35*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*11/29/23 16:04*	*12/01/23 07:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/01/23 07:35	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**170**		50.5		mg/Kg			11/29/23 16:22	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	<50.5	U	50.5		mg/Kg		11/28/23 10:11	11/29/23 16:22	1
Diesel Range Organics (Over C10-C28)	**170**		50.5		mg/Kg		11/28/23 10:11	11/29/23 16:22	1

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Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-36143-1
Project/Site: Trionyx C Federal #01H SDG: 23-0127-01

Client Sample ID: S-2, 0.5-1 Lab Sample ID: 880-36143-7

Date Collected: 11/27/23 12:55 **Matrix: Solid**
Date Received: 11/28/23 08:26

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		11/28/23 10:11	11/29/23 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*150*	*S1+*	*70 - 130*	*11/28/23 10:11*	*11/29/23 16:22*	*1*
o-Terphenyl (Surr)	*129*		*70 - 130*	*11/28/23 10:11*	*11/29/23 16:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**259**		5.02		mg/Kg			11/30/23 12:44	1

Client Sample ID: S-2, 1-2 Lab Sample ID: 880-36143-8

Date Collected: 11/27/23 12:57 **Matrix: Solid**
Date Received: 11/28/23 08:26

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/29/23 16:04	12/01/23 08:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/29/23 16:04	12/01/23 08:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/29/23 16:04	12/01/23 08:01	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		11/29/23 16:04	12/01/23 08:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/29/23 16:04	12/01/23 08:01	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/29/23 16:04	12/01/23 08:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*11/29/23 16:04*	*12/01/23 08:01*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*11/29/23 16:04*	*12/01/23 08:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/01/23 08:01	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**63.2**		50.4		mg/Kg			11/29/23 16:44	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		11/28/23 10:11	11/29/23 16:44	1
Diesel Range Organics (Over C10-C28)	**63.2**		50.4		mg/Kg		11/28/23 10:11	11/29/23 16:44	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		11/28/23 10:11	11/29/23 16:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*142*	*S1+*	*70 - 130*	*11/28/23 10:11*	*11/29/23 16:44*	*1*
o-Terphenyl (Surr)	*127*		*70 - 130*	*11/28/23 10:11*	*11/29/23 16:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**66.2**		4.98		mg/Kg			11/30/23 12:50	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Trionyx C Federal #01H

Job ID: 880-36143-1
SDG: 23-0127-01

Client Sample ID: S-3, 0-0.5

Date Collected: 11/27/23 13:02
Date Received: 11/28/23 08:26

Lab Sample ID: 880-36143-9
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/29/23 16:04	12/01/23 08:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/29/23 16:04	12/01/23 08:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/29/23 16:04	12/01/23 08:27	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/29/23 16:04	12/01/23 08:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/29/23 16:04	12/01/23 08:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/29/23 16:04	12/01/23 08:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*11/29/23 16:04*	*12/01/23 08:27*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*11/29/23 16:04*	*12/01/23 08:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/01/23 08:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			11/29/23 17:07	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		11/28/23 10:11	11/29/23 17:07	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		11/28/23 10:11	11/29/23 17:07	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		11/28/23 10:11	11/29/23 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*145*	*S1+*	*70 - 130*	*11/28/23 10:11*	*11/29/23 17:07*	*1*
o-Terphenyl (Surr)	*126*		*70 - 130*	*11/28/23 10:11*	*11/29/23 17:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**109**		5.04		mg/Kg			11/30/23 12:57	1

Client Sample ID: S-4, 0-0.5

Date Collected: 11/27/23 13:06
Date Received: 11/28/23 08:26

Lab Sample ID: 880-36143-10
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/29/23 16:04	12/01/23 09:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/29/23 16:04	12/01/23 09:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/29/23 16:04	12/01/23 09:13	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		11/29/23 16:04	12/01/23 09:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/29/23 16:04	12/01/23 09:13	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/29/23 16:04	12/01/23 09:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*11/29/23 16:04*	*12/01/23 09:13*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*11/29/23 16:04*	*12/01/23 09:13*	*1*

Eurofins Midland

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Trionyx C Federal #01H

Job ID: 880-36143-1
SDG: 23-0127-01

Client Sample ID: S-4, 0-0.5

Date Collected: 11/27/23 13:06
Date Received: 11/28/23 08:26

Lab Sample ID: 880-36143-10
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			12/01/23 09:13	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/29/23 17:29	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	<50.0	U	50.0		mg/Kg		11/28/23 10:11	11/29/23 17:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/28/23 10:11	11/29/23 17:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/28/23 10:11	11/29/23 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*136*	*S1+*	*70 - 130*	*11/28/23 10:11*	*11/29/23 17:29*	*1*
o-Terphenyl (Surr)	*123*		*70 - 130*	*11/28/23 10:11*	*11/29/23 17:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**32.4**		5.02		mg/Kg			11/30/23 08:15	1

Client Sample ID: S-5, 0-0.5

Date Collected: 11/27/23 13:11
Date Received: 11/28/23 08:26

Lab Sample ID: 880-36143-11
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/29/23 16:04	12/01/23 10:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/29/23 16:04	12/01/23 10:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/29/23 16:04	12/01/23 10:57	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		11/29/23 16:04	12/01/23 10:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/29/23 16:04	12/01/23 10:57	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/29/23 16:04	12/01/23 10:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*11/29/23 16:04*	*12/01/23 10:57*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*11/29/23 16:04*	*12/01/23 10:57*	*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			12/01/23 10:57	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			11/29/23 17:52	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		11/28/23 10:11	11/29/23 17:52	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		11/28/23 10:11	11/29/23 17:52	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-36143-1
Project/Site: Trionyx C Federal #01H SDG: 23-0127-01

Client Sample ID: S-5, 0-0.5 Lab Sample ID: 880-36143-11

Date Collected: 11/27/23 13:11 **Matrix: Solid**
Date Received: 11/28/23 08:26

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		11/28/23 10:11	11/29/23 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*154*	*S1+*	*70 - 130*	*11/28/23 10:11*	*11/29/23 17:52*	*1*
o-Terphenyl (Surr)	*136*	*S1+*	*70 - 130*	*11/28/23 10:11*	*11/29/23 17:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**34.0**		5.05		mg/Kg			11/30/23 08:32	1

Client Sample ID: S-6, 0-0.5 Lab Sample ID: 880-36143-12

Date Collected: 11/27/23 13:14 **Matrix: Solid**
Date Received: 11/28/23 08:26

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/29/23 16:04	12/01/23 11:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/29/23 16:04	12/01/23 11:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/29/23 16:04	12/01/23 11:23	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		11/29/23 16:04	12/01/23 11:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/29/23 16:04	12/01/23 11:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/29/23 16:04	12/01/23 11:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*11/29/23 16:04*	*12/01/23 11:23*	*1*
1,4-Difluorobenzene (Surr)	*122*		*70 - 130*	*11/29/23 16:04*	*12/01/23 11:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/01/23 11:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**165**		50.4		mg/Kg			11/29/23 18:14	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		11/28/23 10:11	11/29/23 18:14	1
Diesel Range Organics (Over C10-C28)	**165**		50.4		mg/Kg		11/28/23 10:11	11/29/23 18:14	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		11/28/23 10:11	11/29/23 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*140*	*S1+*	*70 - 130*	*11/28/23 10:11*	*11/29/23 18:14*	*1*
o-Terphenyl (Surr)	*121*		*70 - 130*	*11/28/23 10:11*	*11/29/23 18:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**898**		5.04		mg/Kg			11/30/23 08:37	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Trionyx C Federal #01H

Job ID: 880-36143-1
SDG: 23-0127-01

Client Sample ID: S-6, 0.5-1

Lab Sample ID: 880-36143-13
Matrix: Solid
Date Collected: 11/27/23 13:16
Date Received: 11/28/23 08:26

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/29/23 16:04	12/01/23 11:49	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/29/23 16:04	12/01/23 11:49	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/29/23 16:04	12/01/23 11:49	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		11/29/23 16:04	12/01/23 11:49	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/29/23 16:04	12/01/23 11:49	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		11/29/23 16:04	12/01/23 11:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*11/29/23 16:04*	*12/01/23 11:49*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*11/29/23 16:04*	*12/01/23 11:49*	*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			12/01/23 11:49	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			11/29/23 18:36	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		11/28/23 10:11	11/29/23 18:36	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		11/28/23 10:11	11/29/23 18:36	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		11/28/23 10:11	11/29/23 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*161*	*S1+*	*70 - 130*	*11/28/23 10:11*	*11/29/23 18:36*	*1*
o-Terphenyl (Surr)	*135*	*S1+*	*70 - 130*	*11/28/23 10:11*	*11/29/23 18:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**107**		5.03		mg/Kg			11/30/23 08:43	1

Client Sample ID: S-7, 0-0.5

Lab Sample ID: 880-36143-14
Matrix: Solid
Date Collected: 11/27/23 13:23
Date Received: 11/28/23 08:26

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/29/23 16:04	12/01/23 12:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/29/23 16:04	12/01/23 12:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/29/23 16:04	12/01/23 12:15	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		11/29/23 16:04	12/01/23 12:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/29/23 16:04	12/01/23 12:15	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/29/23 16:04	12/01/23 12:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*11/29/23 16:04*	*12/01/23 12:15*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*11/29/23 16:04*	*12/01/23 12:15*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Trionyx C Federal #01H

Job ID: 880-36143-1
SDG: 23-0127-01

Client Sample ID: S-7, 0-0.5

Date Collected: 11/27/23 13:23
Date Received: 11/28/23 08:26

Lab Sample ID: 880-36143-14

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/01/23 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/29/23 18:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/28/23 10:11	11/29/23 18:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/28/23 10:11	11/29/23 18:59	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/28/23 10:11	11/29/23 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*155*	*S1+*	*70 - 130*	*11/28/23 10:11*	*11/29/23 18:59*	*1*
o-Terphenyl (Surr)	*136*	*S1+*	*70 - 130*	*11/28/23 10:11*	*11/29/23 18:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.05**		5.03		mg/Kg			11/30/23 08:49	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Trionyx C Federal #01H

Job ID: 880-36143-1
SDG: 23-0127-01

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-36143-1	S-1. 0-0.5	108	78
880-36143-1 MS	S-1. 0-0.5	102	94
880-36143-1 MSD	S-1. 0-0.5	102	102
880-36143-2	S-1. 0.5-1	114	101
880-36143-3	Source, 0-0.5	112	100
880-36143-4	Source, 0.5-1	96	112
880-36143-5	Source, 1-2	86	86
880-36143-6	S-2, 0-0.5	96	73
880-36143-7	S-2, 0.5-1	98	76
880-36143-8	S-2, 1-2	110	94
880-36143-9	S-3, 0-0.5	92	106
880-36143-10	S-4, 0-0.5	111	82
880-36143-11	S-5, 0-0.5	97	94
880-36143-12	S-6, 0-0.5	139 S1+	122
880-36143-13	S-6, 0.5-1	118	97
880-36143-14	S-7, 0-0.5	101	78
LCS 880-67964/1-A	Lab Control Sample	108	92
LCSD 880-67964/2-A	Lab Control Sample Dup	118	111
MB 880-67908/5-A	Method Blank	65 S1-	101
MB 880-67964/5-A	Method Blank	64 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)
880-36143-1	S-1. 0-0.5	146 S1+	128
880-36143-2	S-1. 0.5-1	173 S1+	154 S1+
880-36143-3	Source, 0-0.5	149 S1+	127
880-36143-4	Source, 0.5-1	144 S1+	125
880-36143-5	Source, 1-2	157 S1+	135 S1+
880-36143-6	S-2, 0-0.5	162 S1+	144 S1+
880-36143-7	S-2, 0.5-1	150 S1+	129
880-36143-8	S-2, 1-2	142 S1+	127
880-36143-9	S-3, 0-0.5	145 S1+	126
880-36143-10	S-4, 0-0.5	136 S1+	123
880-36143-11	S-5, 0-0.5	154 S1+	136 S1+
880-36143-12	S-6, 0-0.5	140 S1+	121
880-36143-13	S-6, 0.5-1	161 S1+	135 S1+
880-36143-14	S-7, 0-0.5	155 S1+	136 S1+
LCS 880-67813/2-A	Lab Control Sample	85	92
LCSD 880-67813/3-A	Lab Control Sample Dup	94	95
MB 880-67813/1-A	Method Blank	160 S1+	155 S1+

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Trionyx C Federal #01H

Job ID: 880-36143-1
SDG: 23-0127-01

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Trionyx C Federal #01H

Job ID: 880-36143-1
SDG: 23-0127-01

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-67908/5-A
Matrix: Solid
Analysis Batch: 68011

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 67908

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/29/23 10:26	11/30/23 15:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/29/23 10:26	11/30/23 15:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/29/23 10:26	11/30/23 15:46	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		11/29/23 10:26	11/30/23 15:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/29/23 10:26	11/30/23 15:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/29/23 10:26	11/30/23 15:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*65*	*S1-*	*70 - 130*	*11/29/23 10:26*	*11/30/23 15:46*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*11/29/23 10:26*	*11/30/23 15:46*	*1*

Lab Sample ID: MB 880-67964/5-A
Matrix: Solid
Analysis Batch: 68011

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 67964

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/29/23 16:04	12/01/23 04:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/29/23 16:04	12/01/23 04:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/29/23 16:04	12/01/23 04:33	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		11/29/23 16:04	12/01/23 04:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/29/23 16:04	12/01/23 04:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/29/23 16:04	12/01/23 04:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*64*	*S1-*	*70 - 130*	*11/29/23 16:04*	*12/01/23 04:33*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*11/29/23 16:04*	*12/01/23 04:33*	*1*

Lab Sample ID: LCS 880-67964/1-A
Matrix: Solid
Analysis Batch: 68011

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 67964

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08433		mg/Kg		84	70 - 130		
Toluene			0.100	0.07606		mg/Kg		76	70 - 130		
Ethylbenzene			0.100	0.08315		mg/Kg		83	70 - 130		
m,p-Xylenes			0.200	0.1611		mg/Kg		81	70 - 130		
o-Xylene			0.100	0.08854		mg/Kg		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: LCSD 880-67964/2-A
Matrix: Solid
Analysis Batch: 68011

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 67964

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08198		mg/Kg		82	70 - 130	3	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Trionyx C Federal #01H

Job ID: 880-36143-1
SDG: 23-0127-01

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

Lab Sample ID: LCSD 880-67964/2-A
Matrix: Solid
Analysis Batch: 68011

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 67964

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.07865		mg/Kg		79	70 - 130	3	35
Ethylbenzene			0.100	0.08701		mg/Kg		87	70 - 130	5	35
m,p-Xylenes			0.200	0.1698		mg/Kg		85	70 - 130	5	35
o-Xylene			0.100	0.08544		mg/Kg		85	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: 880-36143-1 MS
Matrix: Solid
Analysis Batch: 68011

Client Sample ID: S-1. 0-0.5
Prep Type: Total/NA
Prep Batch: 67964

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.07313		mg/Kg		73	70 - 130
Toluene	<0.00199	U	0.0996	0.07287		mg/Kg		73	70 - 130
Ethylbenzene	<0.00199	U F1	0.0996	0.06371	F1	mg/Kg		64	70 - 130
m,p-Xylenes	<0.00398	U	0.199	0.1435		mg/Kg		72	70 - 130
o-Xylene	<0.00199	U F1	0.0996	0.06858	F1	mg/Kg		69	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 880-36143-1 MSD
Matrix: Solid
Analysis Batch: 68011

Client Sample ID: S-1. 0-0.5
Prep Type: Total/NA
Prep Batch: 67964

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.08931		mg/Kg		90	70 - 130	20	35
Toluene	<0.00199	U	0.0990	0.08496		mg/Kg		86	70 - 130	15	35
Ethylbenzene	<0.00199	U F1	0.0990	0.08220		mg/Kg		83	70 - 130	25	35
m,p-Xylenes	<0.00398	U	0.198	0.1600		mg/Kg		81	70 - 130	11	35
o-Xylene	<0.00199	U F1	0.0990	0.08501		mg/Kg		86	70 - 130	21	35

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

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

Lab Sample ID: MB 880-67813/1-A
Matrix: Solid
Analysis Batch: 67889

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 67813

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/28/23 08:54	11/29/23 08:03	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Trionyx C Federal #01H

Job ID: 880-36143-1
SDG: 23-0127-01

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

Lab Sample ID: MB 880-67813/1-A
Matrix: Solid
Analysis Batch: 67889

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 67813

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/28/23 08:54	11/29/23 08:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/28/23 08:54	11/29/23 08:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*160*	*S1+*	*70 - 130*	*11/28/23 08:54*	*11/29/23 08:03*	*1*
o-Terphenyl (Surr)	*155*	*S1+*	*70 - 130*	*11/28/23 08:54*	*11/29/23 08:03*	*1*

Lab Sample ID: LCS 880-67813/2-A
Matrix: Solid
Analysis Batch: 67889

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 67813

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1016		mg/Kg		102	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	832.1		mg/Kg		83	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*85*		*70 - 130*
o-Terphenyl (Surr)	*92*		*70 - 130*

Lab Sample ID: LCSD 880-67813/3-A
Matrix: Solid
Analysis Batch: 67889

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 67813

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	974.9		mg/Kg		97	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	823.1		mg/Kg		82	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*94*		*70 - 130*
o-Terphenyl (Surr)	*95*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-67837/1-A
Matrix: Solid
Analysis Batch: 67947

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			11/30/23 09:14	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Trionyx C Federal #01H

Job ID: 880-36143-1
SDG: 23-0127-01

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-67837/2-A
Matrix: Solid
Analysis Batch: 67947

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	266.1		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-67837/3-A
Matrix: Solid
Analysis Batch: 67947

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	259.0		mg/Kg		104	90 - 110	3	20

Lab Sample ID: MB 880-67869/1-A
Matrix: Solid
Analysis Batch: 67966

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			11/30/23 07:58	1

Lab Sample ID: LCS 880-67869/2-A
Matrix: Solid
Analysis Batch: 67966

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	258.8		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-67869/3-A
Matrix: Solid
Analysis Batch: 67966

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	262.4		mg/Kg		105	90 - 110	1	20

Lab Sample ID: 880-36143-10 MS
Matrix: Solid
Analysis Batch: 67966

Client Sample ID: S-4, 0-0.5
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	32.4		251	293.0		mg/Kg		104	90 - 110		

Lab Sample ID: 880-36143-10 MSD
Matrix: Solid
Analysis Batch: 67966

Client Sample ID: S-4, 0-0.5
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	32.4		251	293.5		mg/Kg		104	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Trionyx C Federal #01H

Job ID: 880-36143-1
SDG: 23-0127-01

GC VOA

Prep Batch: 67908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-67908/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 67964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36143-1	S-1. 0-0.5	Total/NA	Solid	5035	
880-36143-2	S-1. 0.5-1	Total/NA	Solid	5035	
880-36143-3	Source, 0-0.5	Total/NA	Solid	5035	
880-36143-4	Source, 0.5-1	Total/NA	Solid	5035	
880-36143-5	Source, 1-2	Total/NA	Solid	5035	
880-36143-6	S-2, 0-0.5	Total/NA	Solid	5035	
880-36143-7	S-2, 0.5-1	Total/NA	Solid	5035	
880-36143-8	S-2, 1-2	Total/NA	Solid	5035	
880-36143-9	S-3, 0-0.5	Total/NA	Solid	5035	
880-36143-10	S-4, 0-0.5	Total/NA	Solid	5035	
880-36143-11	S-5, 0-0.5	Total/NA	Solid	5035	
880-36143-12	S-6, 0-0.5	Total/NA	Solid	5035	
880-36143-13	S-6, 0.5-1	Total/NA	Solid	5035	
880-36143-14	S-7, 0-0.5	Total/NA	Solid	5035	
MB 880-67964/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-67964/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-67964/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-36143-1 MS	S-1. 0-0.5	Total/NA	Solid	5035	
880-36143-1 MSD	S-1. 0-0.5	Total/NA	Solid	5035	

Analysis Batch: 68011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36143-1	S-1. 0-0.5	Total/NA	Solid	8021B	67964
880-36143-2	S-1. 0.5-1	Total/NA	Solid	8021B	67964
880-36143-3	Source, 0-0.5	Total/NA	Solid	8021B	67964
880-36143-4	Source, 0.5-1	Total/NA	Solid	8021B	67964
880-36143-5	Source, 1-2	Total/NA	Solid	8021B	67964
880-36143-6	S-2, 0-0.5	Total/NA	Solid	8021B	67964
880-36143-7	S-2, 0.5-1	Total/NA	Solid	8021B	67964
880-36143-8	S-2, 1-2	Total/NA	Solid	8021B	67964
880-36143-9	S-3, 0-0.5	Total/NA	Solid	8021B	67964
880-36143-10	S-4, 0-0.5	Total/NA	Solid	8021B	67964
880-36143-11	S-5, 0-0.5	Total/NA	Solid	8021B	67964
880-36143-12	S-6, 0-0.5	Total/NA	Solid	8021B	67964
880-36143-13	S-6, 0.5-1	Total/NA	Solid	8021B	67964
880-36143-14	S-7, 0-0.5	Total/NA	Solid	8021B	67964
MB 880-67908/5-A	Method Blank	Total/NA	Solid	8021B	67908
MB 880-67964/5-A	Method Blank	Total/NA	Solid	8021B	67964
LCS 880-67964/1-A	Lab Control Sample	Total/NA	Solid	8021B	67964
LCSD 880-67964/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	67964
880-36143-1 MS	S-1. 0-0.5	Total/NA	Solid	8021B	67964
880-36143-1 MSD	S-1. 0-0.5	Total/NA	Solid	8021B	67964

Analysis Batch: 68160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36143-1	S-1. 0-0.5	Total/NA	Solid	Total BTEX	
880-36143-2	S-1. 0.5-1	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Trionyx C Federal #01H

Job ID: 880-36143-1
SDG: 23-0127-01

GC VOA (Continued)

Analysis Batch: 68160 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36143-3	Source, 0-0.5	Total/NA	Solid	Total BTEX	
880-36143-4	Source, 0.5-1	Total/NA	Solid	Total BTEX	
880-36143-5	Source, 1-2	Total/NA	Solid	Total BTEX	
880-36143-6	S-2, 0-0.5	Total/NA	Solid	Total BTEX	
880-36143-7	S-2, 0.5-1	Total/NA	Solid	Total BTEX	
880-36143-8	S-2, 1-2	Total/NA	Solid	Total BTEX	
880-36143-9	S-3, 0-0.5	Total/NA	Solid	Total BTEX	
880-36143-10	S-4, 0-0.5	Total/NA	Solid	Total BTEX	
880-36143-11	S-5, 0-0.5	Total/NA	Solid	Total BTEX	
880-36143-12	S-6, 0-0.5	Total/NA	Solid	Total BTEX	
880-36143-13	S-6, 0.5-1	Total/NA	Solid	Total BTEX	
880-36143-14	S-7, 0-0.5	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 67813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36143-1	S-1. 0-0.5	Total/NA	Solid	8015NM Prep	
880-36143-2	S-1. 0.5-1	Total/NA	Solid	8015NM Prep	
880-36143-3	Source, 0-0.5	Total/NA	Solid	8015NM Prep	
880-36143-4	Source, 0.5-1	Total/NA	Solid	8015NM Prep	
880-36143-5	Source, 1-2	Total/NA	Solid	8015NM Prep	
880-36143-6	S-2, 0-0.5	Total/NA	Solid	8015NM Prep	
880-36143-7	S-2, 0.5-1	Total/NA	Solid	8015NM Prep	
880-36143-8	S-2, 1-2	Total/NA	Solid	8015NM Prep	
880-36143-9	S-3, 0-0.5	Total/NA	Solid	8015NM Prep	
880-36143-10	S-4, 0-0.5	Total/NA	Solid	8015NM Prep	
880-36143-11	S-5, 0-0.5	Total/NA	Solid	8015NM Prep	
880-36143-12	S-6, 0-0.5	Total/NA	Solid	8015NM Prep	
880-36143-13	S-6, 0.5-1	Total/NA	Solid	8015NM Prep	
880-36143-14	S-7, 0-0.5	Total/NA	Solid	8015NM Prep	
MB 880-67813/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-67813/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-67813/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 67889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36143-1	S-1. 0-0.5	Total/NA	Solid	8015B NM	67813
880-36143-2	S-1. 0.5-1	Total/NA	Solid	8015B NM	67813
880-36143-3	Source, 0-0.5	Total/NA	Solid	8015B NM	67813
880-36143-4	Source, 0.5-1	Total/NA	Solid	8015B NM	67813
880-36143-5	Source, 1-2	Total/NA	Solid	8015B NM	67813
880-36143-6	S-2, 0-0.5	Total/NA	Solid	8015B NM	67813
880-36143-7	S-2, 0.5-1	Total/NA	Solid	8015B NM	67813
880-36143-8	S-2, 1-2	Total/NA	Solid	8015B NM	67813
880-36143-9	S-3, 0-0.5	Total/NA	Solid	8015B NM	67813
880-36143-10	S-4, 0-0.5	Total/NA	Solid	8015B NM	67813
880-36143-11	S-5, 0-0.5	Total/NA	Solid	8015B NM	67813
880-36143-12	S-6, 0-0.5	Total/NA	Solid	8015B NM	67813
880-36143-13	S-6, 0.5-1	Total/NA	Solid	8015B NM	67813
880-36143-14	S-7, 0-0.5	Total/NA	Solid	8015B NM	67813

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Trionyx C Federal #01H

Job ID: 880-36143-1
SDG: 23-0127-01

GC Semi VOA (Continued)

Analysis Batch: 67889 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-67813/1-A	Method Blank	Total/NA	Solid	8015B NM	67813
LCS 880-67813/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	67813
LCSD 880-67813/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	67813

Analysis Batch: 68027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36143-1	S-1. 0-0.5	Total/NA	Solid	8015 NM	
880-36143-2	S-1. 0.5-1	Total/NA	Solid	8015 NM	
880-36143-3	Source, 0-0.5	Total/NA	Solid	8015 NM	
880-36143-4	Source, 0.5-1	Total/NA	Solid	8015 NM	
880-36143-5	Source, 1-2	Total/NA	Solid	8015 NM	
880-36143-6	S-2, 0-0.5	Total/NA	Solid	8015 NM	
880-36143-7	S-2, 0.5-1	Total/NA	Solid	8015 NM	
880-36143-8	S-2, 1-2	Total/NA	Solid	8015 NM	
880-36143-9	S-3, 0-0.5	Total/NA	Solid	8015 NM	
880-36143-10	S-4, 0-0.5	Total/NA	Solid	8015 NM	
880-36143-11	S-5, 0-0.5	Total/NA	Solid	8015 NM	
880-36143-12	S-6, 0-0.5	Total/NA	Solid	8015 NM	
880-36143-13	S-6, 0.5-1	Total/NA	Solid	8015 NM	
880-36143-14	S-7, 0-0.5	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 67837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36143-1	S-1. 0-0.5	Soluble	Solid	DI Leach	
880-36143-2	S-1. 0.5-1	Soluble	Solid	DI Leach	
880-36143-3	Source, 0-0.5	Soluble	Solid	DI Leach	
880-36143-4	Source, 0.5-1	Soluble	Solid	DI Leach	
880-36143-5	Source, 1-2	Soluble	Solid	DI Leach	
880-36143-6	S-2, 0-0.5	Soluble	Solid	DI Leach	
880-36143-7	S-2, 0.5-1	Soluble	Solid	DI Leach	
880-36143-8	S-2, 1-2	Soluble	Solid	DI Leach	
880-36143-9	S-3, 0-0.5	Soluble	Solid	DI Leach	
MB 880-67837/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-67837/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-67837/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 67869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36143-10	S-4, 0-0.5	Soluble	Solid	DI Leach	
880-36143-11	S-5, 0-0.5	Soluble	Solid	DI Leach	
880-36143-12	S-6, 0-0.5	Soluble	Solid	DI Leach	
880-36143-13	S-6, 0.5-1	Soluble	Solid	DI Leach	
880-36143-14	S-7, 0-0.5	Soluble	Solid	DI Leach	
MB 880-67869/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-67869/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-67869/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-36143-10 MS	S-4, 0-0.5	Soluble	Solid	DI Leach	
880-36143-10 MSD	S-4, 0-0.5	Soluble	Solid	DI Leach	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Trionyx C Federal #01H

Job ID: 880-36143-1
SDG: 23-0127-01

HPLC/IC

Analysis Batch: 67947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36143-1	S-1. 0-0.5	Soluble	Solid	300.0	67837
880-36143-2	S-1. 0.5-1	Soluble	Solid	300.0	67837
880-36143-3	Source, 0-0.5	Soluble	Solid	300.0	67837
880-36143-4	Source, 0.5-1	Soluble	Solid	300.0	67837
880-36143-5	Source, 1-2	Soluble	Solid	300.0	67837
880-36143-6	S-2, 0-0.5	Soluble	Solid	300.0	67837
880-36143-7	S-2, 0.5-1	Soluble	Solid	300.0	67837
880-36143-8	S-2, 1-2	Soluble	Solid	300.0	67837
880-36143-9	S-3, 0-0.5	Soluble	Solid	300.0	67837
MB 880-67837/1-A	Method Blank	Soluble	Solid	300.0	67837
LCS 880-67837/2-A	Lab Control Sample	Soluble	Solid	300.0	67837
LCSD 880-67837/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	67837

Analysis Batch: 67966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36143-10	S-4, 0-0.5	Soluble	Solid	300.0	67869
880-36143-11	S-5, 0-0.5	Soluble	Solid	300.0	67869
880-36143-12	S-6, 0-0.5	Soluble	Solid	300.0	67869
880-36143-13	S-6, 0.5-1	Soluble	Solid	300.0	67869
880-36143-14	S-7, 0-0.5	Soluble	Solid	300.0	67869
MB 880-67869/1-A	Method Blank	Soluble	Solid	300.0	67869
LCS 880-67869/2-A	Lab Control Sample	Soluble	Solid	300.0	67869
LCSD 880-67869/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	67869
880-36143-10 MS	S-4, 0-0.5	Soluble	Solid	300.0	67869
880-36143-10 MSD	S-4, 0-0.5	Soluble	Solid	300.0	67869

Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-36143-1
Project/Site: Trionyx C Federal #01H SDG: 23-0127-01

Client Sample ID: S-1. 0-0.5 Lab Sample ID: 880-36143-1

Date Collected: 11/27/23 12:35 **Matrix: Solid**
Date Received: 11/28/23 08:26

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	67964	11/29/23 16:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68011	12/01/23 04:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68160	12/01/23 04:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			68027	11/29/23 13:44	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	67813	11/28/23 10:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67889	11/29/23 13:44	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	67837	11/28/23 10:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67947	11/30/23 11:52	CH	EET MID

Client Sample ID: S-1. 0.5-1 Lab Sample ID: 880-36143-2

Date Collected: 11/27/23 12:37 **Matrix: Solid**
Date Received: 11/28/23 08:26

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	67964	11/29/23 16:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68011	12/01/23 05:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68160	12/01/23 05:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			68027	11/29/23 14:07	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	67813	11/28/23 10:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67889	11/29/23 14:07	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	67837	11/28/23 10:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67947	11/30/23 11:58	CH	EET MID

Client Sample ID: Source, 0-0.5 Lab Sample ID: 880-36143-3

Date Collected: 11/27/23 12:43 **Matrix: Solid**
Date Received: 11/28/23 08:26

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	67964	11/29/23 16:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68011	12/01/23 05:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68160	12/01/23 05:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			68027	11/29/23 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	67813	11/28/23 10:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67889	11/29/23 14:29	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	67837	11/28/23 10:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67947	11/30/23 12:18	CH	EET MID

Client Sample ID: Source, 0.5-1 Lab Sample ID: 880-36143-4

Date Collected: 11/27/23 12:45 **Matrix: Solid**
Date Received: 11/28/23 08:26

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	67964	11/29/23 16:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68011	12/01/23 06:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68160	12/01/23 06:17	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Trionyx C Federal #01H

Job ID: 880-36143-1
SDG: 23-0127-01

Client Sample ID: Source, 0.5-1

Lab Sample ID: 880-36143-4
Matrix: Solid
Date Collected: 11/27/23 12:45
Date Received: 11/28/23 08:26

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			68027	11/29/23 14:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	67813	11/28/23 10:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67889	11/29/23 14:52	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	67837	11/28/23 10:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67947	11/30/23 12:24	CH	EET MID

Client Sample ID: Source, 1-2

Lab Sample ID: 880-36143-5
Matrix: Solid
Date Collected: 11/27/23 12:47
Date Received: 11/28/23 08:26

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	67964	11/29/23 16:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68011	12/01/23 06:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68160	12/01/23 06:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			68027	11/29/23 15:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	67813	11/28/23 10:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67889	11/29/23 15:37	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	67837	11/28/23 10:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67947	11/30/23 12:31	CH	EET MID

Client Sample ID: S-2, 0-0.5

Lab Sample ID: 880-36143-6
Matrix: Solid
Date Collected: 11/27/23 12:54
Date Received: 11/28/23 08:26

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	67964	11/29/23 16:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68011	12/01/23 07:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68160	12/01/23 07:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			68027	11/29/23 15:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	67813	11/28/23 10:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67889	11/29/23 15:59	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	67837	11/28/23 10:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67947	11/30/23 12:37	CH	EET MID

Client Sample ID: S-2, 0.5-1

Lab Sample ID: 880-36143-7
Matrix: Solid
Date Collected: 11/27/23 12:55
Date Received: 11/28/23 08:26

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	67964	11/29/23 16:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68011	12/01/23 07:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68160	12/01/23 07:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			68027	11/29/23 16:22	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	67813	11/28/23 10:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67889	11/29/23 16:22	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Trionyx C Federal #01H

Job ID: 880-36143-1
SDG: 23-0127-01

Client Sample ID: S-2, 0.5-1

Date Collected: 11/27/23 12:55
Date Received: 11/28/23 08:26

Lab Sample ID: 880-36143-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	67837	11/28/23 10:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67947	11/30/23 12:44	CH	EET MID

Client Sample ID: S-2, 1-2

Date Collected: 11/27/23 12:57
Date Received: 11/28/23 08:26

Lab Sample ID: 880-36143-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	67964	11/29/23 16:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68011	12/01/23 08:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68160	12/01/23 08:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			68027	11/29/23 16:44	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	67813	11/28/23 10:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67889	11/29/23 16:44	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	67837	11/28/23 10:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67947	11/30/23 12:50	CH	EET MID

Client Sample ID: S-3, 0-0.5

Date Collected: 11/27/23 13:02
Date Received: 11/28/23 08:26

Lab Sample ID: 880-36143-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	67964	11/29/23 16:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68011	12/01/23 08:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68160	12/01/23 08:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			68027	11/29/23 17:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	67813	11/28/23 10:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67889	11/29/23 17:07	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	67837	11/28/23 10:50	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67947	11/30/23 12:57	CH	EET MID

Client Sample ID: S-4, 0-0.5

Date Collected: 11/27/23 13:06
Date Received: 11/28/23 08:26

Lab Sample ID: 880-36143-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	67964	11/29/23 16:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68011	12/01/23 09:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68160	12/01/23 09:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			68027	11/29/23 17:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	67813	11/28/23 10:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67889	11/29/23 17:29	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	67869	11/28/23 13:20	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67966	11/30/23 08:15	CH	EET MID

Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-36143-1
Project/Site: Trionyx C Federal #01H SDG: 23-0127-01

Client Sample ID: S-5, 0-0.5 — Lab Sample ID: 880-36143-11

Date Collected: 11/27/23 13:11 **Matrix: Solid**
Date Received: 11/28/23 08:26

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	67964	11/29/23 16:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68011	12/01/23 10:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68160	12/01/23 10:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			68027	11/29/23 17:52	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	67813	11/28/23 10:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67889	11/29/23 17:52	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	67869	11/28/23 13:20	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67966	11/30/23 08:32	CH	EET MID

Client Sample ID: S-6, 0-0.5 — Lab Sample ID: 880-36143-12

Date Collected: 11/27/23 13:14 **Matrix: Solid**
Date Received: 11/28/23 08:26

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	67964	11/29/23 16:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68011	12/01/23 11:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68160	12/01/23 11:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			68027	11/29/23 18:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	67813	11/28/23 10:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67889	11/29/23 18:14	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	67869	11/28/23 13:20	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67966	11/30/23 08:37	CH	EET MID

Client Sample ID: S-6, 0.5-1 — Lab Sample ID: 880-36143-13

Date Collected: 11/27/23 13:16 **Matrix: Solid**
Date Received: 11/28/23 08:26

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	67964	11/29/23 16:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68011	12/01/23 11:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68160	12/01/23 11:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			68027	11/29/23 18:36	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	67813	11/28/23 10:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67889	11/29/23 18:36	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	67869	11/28/23 13:20	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67966	11/30/23 08:43	CH	EET MID

Client Sample ID: S-7, 0-0.5 — Lab Sample ID: 880-36143-14

Date Collected: 11/27/23 13:23 **Matrix: Solid**
Date Received: 11/28/23 08:26

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	67964	11/29/23 16:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68011	12/01/23 12:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68160	12/01/23 12:15	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Trionyx C Federal #01H

Job ID: 880-36143-1
SDG: 23-0127-01

Client Sample ID: S-7, 0-0.5

Date Collected: 11/27/23 13:23
Date Received: 11/28/23 08:26

Lab Sample ID: 880-36143-14

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			68027	11/29/23 18:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	67813	11/28/23 10:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67889	11/29/23 18:59	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	67869	11/28/23 13:20	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	67966	11/30/23 08:49	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: 880-36143-1
Project/Site: Trionyx C Federal #01H SDG: 23-0127-01

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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

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

Method Summary

Client: Larson & Associates, Inc. Job ID: 880-36143-1
Project/Site: Trionyx C Federal #01H SDG: 23-0127-01

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Trionyx C Federal #01H

Job ID: 880-36143-1
SDG: 23-0127-01

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-36143-1	S-1. 0-0.5	Solid	11/27/23 12:35	11/28/23 08:26
880-36143-2	S-1. 0.5-1	Solid	11/27/23 12:37	11/28/23 08:26
880-36143-3	Source, 0-0.5	Solid	11/27/23 12:43	11/28/23 08:26
880-36143-4	Source, 0.5-1	Solid	11/27/23 12:45	11/28/23 08:26
880-36143-5	Source, 1-2	Solid	11/27/23 12:47	11/28/23 08:26
880-36143-6	S-2, 0-0.5	Solid	11/27/23 12:54	11/28/23 08:26
880-36143-7	S-2, 0.5-1	Solid	11/27/23 12:55	11/28/23 08:26
880-36143-8	S-2, 1-2	Solid	11/27/23 12:57	11/28/23 08:26
880-36143-9	S-3, 0-0.5	Solid	11/27/23 13:02	11/28/23 08:26
880-36143-10	S-4, 0-0.5	Solid	11/27/23 13:06	11/28/23 08:26
880-36143-11	S-5, 0-0.5	Solid	11/27/23 13:11	11/28/23 08:26
880-36143-12	S-6, 0-0.5	Solid	11/27/23 13:14	11/28/23 08:26
880-36143-13	S-6, 0.5-1	Solid	11/27/23 13:16	11/28/23 08:26
880-36143-14	S-7, 0-0.5	Solid	11/27/23 13:23	11/28/23 08:26

36143 No. 3170

CHAIN-OF-CUSTODY

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

DATE 11/27/2023 PAGE 1 OF 1

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME Trionyx C Federal #011

LAI PROJECT #. 23-0127-01 COLLECTOR RN

Data Reported to Mark Larson & Robert Nelson

TRRP report? ☐ Yes ☑ No

TIME ZONE Time zone/State: MST / NM

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

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐	HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐	TCLP VOC ☐	TCLP - PEST ☐	HERB ☐	Semi-VOC ☐	TOTAL METALS (RCRA) ☐	OTHER LIST ☐	LEAD - TOTAL ☐	D W 200.8 ☐	TCLP ☐	RCI ☐	TOX ☐	FLASHPOINT ☐	TDS ☐	TSS ☐	% MOISTURE ☐	pH ☐	CYANIDE ☐	HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDES ☒	ANIONS ☐	ALKALINITY ☐	FIELD NOTES
S-1, 0-0.5		11/27/23	1235	S	1				X		X		X	X	X																									X			202
S-1, 0.5-1			1237																																							
Source, 0-0.5			1243																																							
Source, 0.5-1			1245																																							
Source 1-2			1247																																							
S-2, 0-0.5			1254																																							
S-2, 0.5-1			1255																																							
S-2, 1-2			1257																																							
S-3, 0-0.5			1302																																							
S-4, 0-0.5			1306																																							
S-5, 0-0.5			1311																																							
S-6, 0-0.5			1314																																							
S-6, 0.5-1			1316																																							
S-7, 0-0.5			1323																																							

TOTAL 14

880-36143 Chain of Custody

RELINQUISHED BY (Signature)	DATE/TIME 11/28	RECEIVED BY (Signature) 820	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP -2.2/-2.0 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☐ HAND DELIVERED

12/1/2023

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-36143-1
SDG Number: 23-0127-01

Login Number: 36143
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 12/15/2023 12:01:27 PM

JOB DESCRIPTION

Lea Co, NM/Trionys-Devon
23-0127-01

JOB NUMBER

880-36670-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Holly Taylor

Generated
12/15/2023 12:01:27 PM

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

Client: Larson & Associates, Inc.
Project/Site: Lea Co, NM/Trionys-Devon

Laboratory Job ID: 880-36670-1
SDG: 23-0127-01

Table of Contents

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-36670-1
Project/Site: Lea Co, NM/Trionys-Devon SDG: 23-0127-01

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
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: Lea Co, NM/Trionys-Devon

Job ID: 880-36670-1
SDG: 23-0127-01

Job ID: 880-36670-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-36670-1

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 12/8/2023 8:53 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 3.4°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: Source 3' (880-36670-1) and Source 3-5' (880-36670-2).

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: (MB 880-68791/5-A) and (MB 880-68842/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-68618/5-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.

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-68662 and analytical batch 880-68639 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-36670-A-1-B MS) and (880-36670-A-1-C 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 880-68662 and analytical batch 880-68639 were outside control limits for one or more analytes due to an incorrect amount of spike added. The associated laboratory control sample (LCS) recovery is within acceptance limits therefore the data has been qualified and reported.

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: Lea Co, NM/Trionys-Devon

Job ID: 880-36670-1
SDG: 23-0127-01

Client Sample ID: Source 3'

Date Collected: 12/07/23 16:15
Date Received: 12/08/23 08:53

Lab Sample ID: 880-36670-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/11/23 13:40	12/12/23 02:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/11/23 13:40	12/12/23 02:55	1
Ethylbenzene	**0.00244**		0.00200		mg/Kg		12/11/23 13:40	12/12/23 02:55	1
m,p-Xylenes	**0.00418**		0.00399		mg/Kg		12/11/23 13:40	12/12/23 02:55	1
o-Xylene	**0.00798**		0.00200		mg/Kg		12/11/23 13:40	12/12/23 02:55	1
Xylenes, Total	**0.0122**		0.00399		mg/Kg		12/11/23 13:40	12/12/23 02:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*12/11/23 13:40*	*12/12/23 02:55*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*12/11/23 13:40*	*12/12/23 02:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0146**		0.00399		mg/Kg			12/12/23 02:55	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**356**		49.8		mg/Kg			12/08/23 10:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1 F2	49.8		mg/Kg		12/08/23 09:51	12/08/23 10:59	1
Diesel Range Organics (Over C10-C28)	**356**	**F1**	49.8		mg/Kg		12/08/23 09:51	12/08/23 10:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/08/23 09:51	12/08/23 10:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*12/08/23 09:51*	*12/08/23 10:59*	*1*
o-Terphenyl (Surr)	*97*		*70 - 130*	*12/08/23 09:51*	*12/08/23 10:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1150**		5.05		mg/Kg			12/11/23 18:08	1

Client Sample ID: Source 3-5'

Date Collected: 12/07/23 16:30
Date Received: 12/08/23 08:53

Lab Sample ID: 880-36670-2

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		12/08/23 09:00	12/08/23 19:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/08/23 09:00	12/08/23 19:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/08/23 09:00	12/08/23 19:13	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		12/08/23 09:00	12/08/23 19:13	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/08/23 09:00	12/08/23 19:13	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/08/23 09:00	12/08/23 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*12/08/23 09:00*	*12/08/23 19:13*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*12/08/23 09:00*	*12/08/23 19:13*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Lea Co, NM/Trionys-Devon

Job ID: 880-36670-1
SDG: 23-0127-01

Client Sample ID: Source 3-5'

Date Collected: 12/07/23 16:30
Date Received: 12/08/23 08:53

Lab Sample ID: 880-36670-2

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			12/08/23 19:13	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**163**		50.5		mg/Kg			12/08/23 12:10	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		12/08/23 09:51	12/08/23 12:10	1
Diesel Range Organics (Over C10-C28)	**163**		50.5		mg/Kg		12/08/23 09:51	12/08/23 12:10	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		12/08/23 09:51	12/08/23 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*85*		*70 - 130*	*12/08/23 09:51*	*12/08/23 12:10*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*12/08/23 09:51*	*12/08/23 12:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**372**		5.03		mg/Kg			12/11/23 18:14	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Lea Co, NM/Trionys-Devon

Job ID: 880-36670-1
SDG: 23-0127-01

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-36670-1	Source 3'	78	84
880-36670-2	Source 3-5'	84	100
LCS 880-68618/1-A	Lab Control Sample	104	108
LCS 880-68842/1-A	Lab Control Sample	101	115
LCSD 880-68618/2-A	Lab Control Sample Dup	104	108
LCSD 880-68842/2-A	Lab Control Sample Dup	104	90
MB 880-68618/5-A	Method Blank	66 S1-	89
MB 880-68791/5-A	Method Blank	65 S1-	95
MB 880-68842/5-A	Method Blank	66 S1-	92

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)
880-36670-1	Source 3'	89	97
880-36670-1 MS	Source 3'	1759 S1+	1833 S1+
880-36670-1 MSD	Source 3'	1540 S1+	1621 S1+
880-36670-2	Source 3-5'	85	93
LCS 880-68662/2-A	Lab Control Sample	90	94
LCSD 880-68662/3-A	Lab Control Sample Dup	91	91
MB 880-68662/1-A	Method Blank	110	136 S1+

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Lea Co, NM/Trionys-Devon

Job ID: 880-36670-1
SDG: 23-0127-01

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-68618/5-A
Matrix: Solid
Analysis Batch: 68653

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 68618

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/07/23 15:05	12/08/23 11:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/07/23 15:05	12/08/23 11:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/07/23 15:05	12/08/23 11:39	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		12/07/23 15:05	12/08/23 11:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/07/23 15:05	12/08/23 11:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/07/23 15:05	12/08/23 11:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*66*	*S1-*	*70 - 130*	*12/07/23 15:05*	*12/08/23 11:39*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*12/07/23 15:05*	*12/08/23 11:39*	*1*

Lab Sample ID: LCS 880-68618/1-A
Matrix: Solid
Analysis Batch: 68653

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 68618

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08654		mg/Kg		87	70 - 130		
Toluene			0.100	0.08512		mg/Kg		85	70 - 130		
Ethylbenzene			0.100	0.09636		mg/Kg		96	70 - 130		
m,p-Xylenes			0.200	0.1990		mg/Kg		99	70 - 130		
o-Xylene			0.100	0.09523		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-68618/2-A
Matrix: Solid
Analysis Batch: 68653

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 68618

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.07984		mg/Kg		80	70 - 130	8	35
Toluene			0.100	0.07920		mg/Kg		79	70 - 130	7	35
Ethylbenzene			0.100	0.08854		mg/Kg		89	70 - 130	8	35
m,p-Xylenes			0.200	0.1827		mg/Kg		91	70 - 130	9	35
o-Xylene			0.100	0.08733		mg/Kg		87	70 - 130	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: MB 880-68791/5-A
Matrix: Solid
Analysis Batch: 68757

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 68791

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/11/23 10:05	12/11/23 11:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/11/23 10:05	12/11/23 11:31	1

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Lea Co, NM/Trionys-Devon

Job ID: 880-36670-1
SDG: 23-0127-01

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

Lab Sample ID: MB 880-68791/5-A
Matrix: Solid
Analysis Batch: 68757

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 68791

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/11/23 10:05	12/11/23 11:31	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		12/11/23 10:05	12/11/23 11:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/11/23 10:05	12/11/23 11:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/11/23 10:05	12/11/23 11:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*65*	*S1-*	*70 - 130*	*12/11/23 10:05*	*12/11/23 11:31*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*12/11/23 10:05*	*12/11/23 11:31*	*1*

Lab Sample ID: MB 880-68842/5-A
Matrix: Solid
Analysis Batch: 68757

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 68842

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/11/23 13:40	12/11/23 22:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/11/23 13:40	12/11/23 22:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/11/23 13:40	12/11/23 22:08	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		12/11/23 13:40	12/11/23 22:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/11/23 13:40	12/11/23 22:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/11/23 13:40	12/11/23 22:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*66*	*S1-*	*70 - 130*	*12/11/23 13:40*	*12/11/23 22:08*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*12/11/23 13:40*	*12/11/23 22:08*	*1*

Lab Sample ID: LCS 880-68842/1-A
Matrix: Solid
Analysis Batch: 68757

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 68842

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09352		mg/Kg		94	70 - 130		
Toluene			0.100	0.08669		mg/Kg		87	70 - 130		
Ethylbenzene			0.100	0.09746		mg/Kg		97	70 - 130		
m,p-Xylenes			0.200	0.2025		mg/Kg		101	70 - 130		
o-Xylene			0.100	0.09583		mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*

Lab Sample ID: LCSD 880-68842/2-A
Matrix: Solid
Analysis Batch: 68757

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 68842

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08221		mg/Kg		82	70 - 130	13	35
Toluene			0.100	0.07892		mg/Kg		79	70 - 130	9	35
Ethylbenzene			0.100	0.08868		mg/Kg		89	70 - 130	9	35

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Lea Co, NM/Trionys-Devon

Job ID: 880-36670-1
SDG: 23-0127-01

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

Lab Sample ID: LCSD 880-68842/2-A
Matrix: Solid
Analysis Batch: 68757

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 68842

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes			0.200	0.1821		mg/Kg		91	70 - 130	11	35
o-Xylene			0.100	0.08619		mg/Kg		86	70 - 130	11	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

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

Lab Sample ID: MB 880-68662/1-A
Matrix: Solid
Analysis Batch: 68639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 68662

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		12/08/23 07:51	12/08/23 08:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/08/23 07:51	12/08/23 08:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/08/23 07:51	12/08/23 08:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*12/08/23 07:51*	*12/08/23 08:18*	*1*
o-Terphenyl (Surr)	*136*	*S1+*	*70 - 130*	*12/08/23 07:51*	*12/08/23 08:18*	*1*

Lab Sample ID: LCS 880-68662/2-A
Matrix: Solid
Analysis Batch: 68639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 68662

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	873.4		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)			1000	891.9		mg/Kg		89	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*90*		*70 - 130*
o-Terphenyl (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 880-68662/3-A
Matrix: Solid
Analysis Batch: 68639

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 68662

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	949.2		mg/Kg		95	70 - 130	8	20
Diesel Range Organics (Over C10-C28)			1000	934.8		mg/Kg		93	70 - 130	5	20

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Lea Co, NM/Trionys-Devon

Job ID: 880-36670-1
SDG: 23-0127-01

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

Lab Sample ID: LCSD 880-68662/3-A
Matrix: Solid
Analysis Batch: 68639

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 68662

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

Lab Sample ID: 880-36670-1 MS
Matrix: Solid
Analysis Batch: 68639

Client Sample ID: Source 3'
Prep Type: Total/NA
Prep Batch: 68662

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 F2	1000	326.6	F1	mg/Kg		29	70 - 130		
Diesel Range Organics (Over C10-C28)	356	F1	1000	195.2	F1	mg/Kg		-16	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*1759*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*1833*	*S1+*	*70 - 130*

Lab Sample ID: 880-36670-1 MSD
Matrix: Solid
Analysis Batch: 68639

Client Sample ID: Source 3'
Prep Type: Total/NA
Prep Batch: 68662

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 F2	1000	250.6	F1 F2	mg/Kg		21	70 - 130	26	20
Diesel Range Organics (Over C10-C28)	356	F1	1000	199.6	F1	mg/Kg		-16	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*1540*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*1621*	*S1+*	*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-68688/1-A
Matrix: Solid
Analysis Batch: 68835

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			12/11/23 17:03	1

Lab Sample ID: LCS 880-68688/2-A
Matrix: Solid
Analysis Batch: 68835

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	261.6		mg/Kg		105	90 - 110		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Lea Co, NM/Trionys-Devon

Job ID: 880-36670-1
SDG: 23-0127-01

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-68688/3-A
Matrix: Solid
Analysis Batch: 68835

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	263.9		mg/Kg		106	90 - 110	1	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Lea Co, NM/Trionys-Devon

Job ID: 880-36670-1
SDG: 23-0127-01

GC VOA

Prep Batch: 68618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36670-2	Source 3-5'	Total/NA	Solid	5035	
MB 880-68618/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-68618/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-68618/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 68653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36670-2	Source 3-5'	Total/NA	Solid	8021B	68618
MB 880-68618/5-A	Method Blank	Total/NA	Solid	8021B	68618
LCS 880-68618/1-A	Lab Control Sample	Total/NA	Solid	8021B	68618
LCSD 880-68618/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	68618

Analysis Batch: 68757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36670-1	Source 3'	Total/NA	Solid	8021B	68842
MB 880-68791/5-A	Method Blank	Total/NA	Solid	8021B	68791
MB 880-68842/5-A	Method Blank	Total/NA	Solid	8021B	68842
LCS 880-68842/1-A	Lab Control Sample	Total/NA	Solid	8021B	68842
LCSD 880-68842/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	68842

Prep Batch: 68791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-68791/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 68842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36670-1	Source 3'	Total/NA	Solid	5035	
MB 880-68842/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-68842/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-68842/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 68935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36670-1	Source 3'	Total/NA	Solid	Total BTEX	
880-36670-2	Source 3-5'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 68639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36670-1	Source 3'	Total/NA	Solid	8015B NM	68662
880-36670-2	Source 3-5'	Total/NA	Solid	8015B NM	68662
MB 880-68662/1-A	Method Blank	Total/NA	Solid	8015B NM	68662
LCS 880-68662/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	68662
LCSD 880-68662/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	68662
880-36670-1 MS	Source 3'	Total/NA	Solid	8015B NM	68662
880-36670-1 MSD	Source 3'	Total/NA	Solid	8015B NM	68662

Prep Batch: 68662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36670-1	Source 3'	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Lea Co, NM/Trionys-Devon

Job ID: 880-36670-1
SDG: 23-0127-01

GC Semi VOA (Continued)

Prep Batch: 68662 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36670-2	Source 3-5'	Total/NA	Solid	8015NM Prep	
MB 880-68662/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-68662/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-68662/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-36670-1 MS	Source 3'	Total/NA	Solid	8015NM Prep	
880-36670-1 MSD	Source 3'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 68796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36670-1	Source 3'	Total/NA	Solid	8015 NM	
880-36670-2	Source 3-5'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 68688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36670-1	Source 3'	Soluble	Solid	DI Leach	
880-36670-2	Source 3-5'	Soluble	Solid	DI Leach	
MB 880-68688/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-68688/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-68688/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 68835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36670-1	Source 3'	Soluble	Solid	300.0	68688
880-36670-2	Source 3-5'	Soluble	Solid	300.0	68688
MB 880-68688/1-A	Method Blank	Soluble	Solid	300.0	68688
LCS 880-68688/2-A	Lab Control Sample	Soluble	Solid	300.0	68688
LCSD 880-68688/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	68688

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Lea Co, NM/Trionys-Devon

Job ID: 880-36670-1
SDG: 23-0127-01

Client Sample ID: Source 3'

Date Collected: 12/07/23 16:15
Date Received: 12/08/23 08:53

Lab Sample ID: 880-36670-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	68842	12/11/23 13:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68757	12/12/23 02:55	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68935	12/12/23 02:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			68796	12/08/23 10:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	68662	12/08/23 09:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68639	12/08/23 10:59	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	68688	12/08/23 14:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	68835	12/11/23 18:08	CH	EET MID

Client Sample ID: Source 3-5'

Date Collected: 12/07/23 16:30
Date Received: 12/08/23 08:53

Lab Sample ID: 880-36670-2

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	68618	12/08/23 09:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68653	12/08/23 19:13	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			68935	12/08/23 19:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			68796	12/08/23 12:10	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	68662	12/08/23 09:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68639	12/08/23 12:10	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	68688	12/08/23 14:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	68835	12/11/23 18:14	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-36670-1
Project/Site: Lea Co, NM/Trionys-Devon SDG: 23-0127-01

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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

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

Method Summary

Client: Larson & Associates, Inc.
Project/Site: Lea Co, NM/Trionys-Devon

Job ID: 880-36670-1
SDG: 23-0127-01

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

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Lea Co, NM/Trionys-Devon

Job ID: 880-36670-1
SDG: 23-0127-01

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-36670-1	Source 3'	Solid	12/07/23 16:15	12/08/23 08:53
880-36670-2	Source 3-5'	Solid	12/07/23 16:30	12/08/23 08:53

36670 No. 2354

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants

507 N Marienfeld Ste 202
Midland TX 79701
432-687-0901

Data Reported to: Mark Larson/ Robert Nelson

DATE: 12-07-2023 PAGE 1 OF 1
PO#:
LAB WORK ORDER#:
PROJECT LOCATION OR NAME: Lea Co, NM/Triony/X-Devon
LAI PROJECT #: 23-0127-01
COLLECTOR: ML

TRRP report? ☐ Yes ☒ No

TIME ZONE
Time zone/State: Mtn/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 ☐ (300)

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	ICE	BTEX	GASOLINE MOD 8015	DIESEL MOD 8015	OIL - MOD 8015	CHLORIDE	FIELD NOTES
Source 3'		12/7/23	16:15	S	1	X	X	X	X	X	X	
Source 3-5'		12/7/23	16:30	S	1	X	X	X	X	X	X	

TOTAL: 2

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
[signature]	12/8/2023 08:30	[signature]
[signature]	12/8 853	[signature]

LABORATORY: Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 3.2/3.4 THERM# IR160
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☒ HAND DELIVERED

880-36670 Chain of Custody

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-36670-1
SDG Number: 23-0127-01

Login Number: 36670
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

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JOB DESCRIPTION

Trionyx 6 Federal #01H
23-0127-01

JOB NUMBER

880-37681-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Holly Taylor

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Client: Larson & Associates, Inc.
Project/Site: Trionyx 6 Federal #01H

Laboratory Job ID: 880-37681-1
SDG: 23-0127-01

Table of Contents

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-37681-1
Project/Site: Trionyx 6 Federal #01H SDG: 23-0127-01

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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: 880-37681-1
Project: Trionyx 6 Federal #01H

Job ID: 880-37681-1 Eurofins Midland

Job Narrative
880-37681-1

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 1/9/2024 9:38 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 -4.6°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: Source, 5' (880-37681-1) and Source, 5.5' (880-37681-2).

GC VOA
Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-70580 and analytical batch 880-70626 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-70593 and analytical batch 880-70523 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-70593/2-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
Method 300_ORGFM_28D: The continuing calibration blank (CCB) for analytical batch 880-70597 contained Chloride above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, 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.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Trionyx 6 Federal #01H

Job ID: 880-37681-1
SDG: 23-0127-01

Client Sample ID: Source, 5'

Lab Sample ID: 880-37681-1
Matrix: Solid
Date Collected: 01/08/24 12:01
Date Received: 01/09/24 09:38

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		01/10/24 14:02	01/11/24 14:27	1
Toluene	<0.00199	U F1	0.00199		mg/Kg		01/10/24 14:02	01/11/24 14:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/10/24 14:02	01/11/24 14:27	1
m,p-Xylenes	<0.00398	U F1	0.00398		mg/Kg		01/10/24 14:02	01/11/24 14:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/10/24 14:02	01/11/24 14:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/10/24 14:02	01/11/24 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*01/10/24 14:02*	*01/11/24 14:27*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*01/10/24 14:02*	*01/11/24 14:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/11/24 14:27	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			01/10/24 20:52	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		01/10/24 15:47	01/10/24 20:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/10/24 15:47	01/10/24 20:52	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/10/24 15:47	01/10/24 20:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*01/10/24 15:47*	*01/10/24 20:52*	*1*
o-Terphenyl (Surr)	*102*		*70 - 130*	*01/10/24 15:47*	*01/10/24 20:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**680**		4.98		mg/Kg			01/11/24 14:58	1

Client Sample ID: Source, 5.5'

Lab Sample ID: 880-37681-2
Matrix: Solid
Date Collected: 01/08/24 12:40
Date Received: 01/09/24 09:38

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		01/10/24 14:02	01/11/24 11:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/24 14:02	01/11/24 11:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/24 14:02	01/11/24 11:43	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/10/24 14:02	01/11/24 11:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/24 14:02	01/11/24 11:43	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/10/24 14:02	01/11/24 11:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*01/10/24 14:02*	*01/11/24 11:43*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*01/10/24 14:02*	*01/11/24 11:43*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Trionyx 6 Federal #01H

Job ID: 880-37681-1
SDG: 23-0127-01

Client Sample ID: Source, 5.5'

Date Collected: 01/08/24 12:40
Date Received: 01/09/24 09:38

Lab Sample ID: 880-37681-2

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			01/11/24 11:43	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			01/10/24 21:57	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		01/10/24 15:47	01/10/24 21:57	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		01/10/24 15:47	01/10/24 21:57	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		01/10/24 15:47	01/10/24 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*103*		*70 - 130*	*01/10/24 15:47*	*01/10/24 21:57*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*01/10/24 15:47*	*01/10/24 21:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**346**		5.00		mg/Kg			01/11/24 06:20	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Trionyx 6 Federal #01H

Job ID: 880-37681-1
SDG: 23-0127-01

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-37681-1	Source, 5'	91	83
880-37681-1 MS	Source, 5'	127	104
880-37681-1 MSD	Source, 5'	124	82
880-37681-2	Source, 5.5'	92	74
LCS 880-70580/1-A	Lab Control Sample	118	90
LCSD 880-70580/2-A	Lab Control Sample Dup	124	103
MB 880-70580/5-A	Method Blank	73	90

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-37681-1	Source, 5'	95	102
880-37681-1 MS	Source, 5'	104	103
880-37681-1 MSD	Source, 5'	102	101
880-37681-2	Source, 5.5'	103	111
LCS 880-70593/2-A	Lab Control Sample	114	137 S1+
LCSD 880-70593/3-A	Lab Control Sample Dup	93	110
MB 880-70593/1-A	Method Blank	124	145 S1+

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Trionyx 6 Federal #01H

Job ID: 880-37681-1
SDG: 23-0127-01

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-70580/5-A
Matrix: Solid
Analysis Batch: 70626

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70580

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/10/24 14:02	01/11/24 11:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/10/24 14:02	01/11/24 11:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/10/24 14:02	01/11/24 11:00	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/10/24 14:02	01/11/24 11:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/10/24 14:02	01/11/24 11:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/10/24 14:02	01/11/24 11:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*73*		*70 - 130*	*01/10/24 14:02*	*01/11/24 11:00*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*01/10/24 14:02*	*01/11/24 11:00*	*1*

Lab Sample ID: LCS 880-70580/1-A
Matrix: Solid
Analysis Batch: 70626

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70580

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09567		mg/Kg		96	70 - 130		
Toluene			0.100	0.09022		mg/Kg		90	70 - 130		
Ethylbenzene			0.100	0.1013		mg/Kg		101	70 - 130		
m,p-Xylenes			0.200	0.2204		mg/Kg		110	70 - 130		
o-Xylene			0.100	0.1050		mg/Kg		105	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: LCSD 880-70580/2-A
Matrix: Solid
Analysis Batch: 70626

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 70580

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1070		mg/Kg		107	70 - 130	11	35
Toluene			0.100	0.09243		mg/Kg		92	70 - 130	2	35
Ethylbenzene			0.100	0.08366		mg/Kg		84	70 - 130	19	35
m,p-Xylenes			0.200	0.2046		mg/Kg		102	70 - 130	7	35
o-Xylene			0.100	0.1192		mg/Kg		119	70 - 130	13	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 880-37681-1 MS
Matrix: Solid
Analysis Batch: 70626

Client Sample ID: Source, 5'
Prep Type: Total/NA
Prep Batch: 70580

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.0990	0.1037		mg/Kg		105	70 - 130		
Toluene	<0.00199	U F1	0.0990	0.1010		mg/Kg		102	70 - 130		

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QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-37681-1
Project/Site: Trionyx 6 Federal #01H SDG: 23-0127-01

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

Lab Sample ID: 880-37681-1 MS **Client Sample ID: Source, 5'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 70626 **Prep Batch: 70580**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0990	0.1211		mg/Kg		122	70 - 130
m,p-Xylenes	<0.00398	U F1	0.198	0.2556		mg/Kg		129	70 - 130
o-Xylene	<0.00199	U	0.0990	0.1199		mg/Kg		121	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 880-37681-1 MSD **Client Sample ID: Source, 5'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 70626 **Prep Batch: 70580**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.1020		mg/Kg		103	70 - 130	2	35
Toluene	<0.00199	U F1	0.0990	0.1059		mg/Kg		107	70 - 130	5	35
Ethylbenzene	<0.00199	U	0.0990	0.1237		mg/Kg		125	70 - 130	2	35
m,p-Xylenes	<0.00398	U F1	0.198	0.2619	F1	mg/Kg		132	70 - 130	2	35
o-Xylene	<0.00199	U	0.0990	0.1231		mg/Kg		124	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*

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

Lab Sample ID: MB 880-70593/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 70523 **Prep Batch: 70593**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/10/24 15:47	01/10/24 19:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/10/24 15:47	01/10/24 19:46	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/10/24 15:47	01/10/24 19:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*124*		*70 - 130*	*01/10/24 15:47*	*01/10/24 19:46*	*1*
o-Terphenyl (Surr)	*145*	*S1+*	*70 - 130*	*01/10/24 15:47*	*01/10/24 19:46*	*1*

Lab Sample ID: LCS 880-70593/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 70523 **Prep Batch: 70593**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	925.0		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	1000	919.6		mg/Kg		92	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Trionyx 6 Federal #01H

Job ID: 880-37681-1
SDG: 23-0127-01

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

Lab Sample ID: LCS 880-70593/2-A
Matrix: Solid
Analysis Batch: 70523

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70593

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	114		70 - 130
o-Terphenyl (Surr)	137	S1+	70 - 130

Lab Sample ID: LCSD 880-70593/3-A
Matrix: Solid
Analysis Batch: 70523

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 70593

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	906.6		mg/Kg		91	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	929.4		mg/Kg		93	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	93		70 - 130
o-Terphenyl (Surr)	110		70 - 130

Lab Sample ID: 880-37681-1 MS
Matrix: Solid
Analysis Batch: 70523

Client Sample ID: Source, 5'
Prep Type: Total/NA
Prep Batch: 70593

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	1000	1255		mg/Kg		121	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	1000	868.2		mg/Kg		83	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	104		70 - 130
o-Terphenyl (Surr)	103		70 - 130

Lab Sample ID: 880-37681-1 MSD
Matrix: Solid
Analysis Batch: 70523

Client Sample ID: Source, 5'
Prep Type: Total/NA
Prep Batch: 70593

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	1000	1250		mg/Kg		121	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.8	U	1000	854.4		mg/Kg		81	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	102		70 - 130
o-Terphenyl (Surr)	101		70 - 130

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-37681-1
Project/Site: Trionyx 6 Federal #01H SDG: 23-0127-01

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-70487/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 70595

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/11/24 04:06	1

Lab Sample ID: LCS 880-70487/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 70595

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	252.4		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-70487/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 70595

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	253.7		mg/Kg		101	90 - 110	1	20

Lab Sample ID: MB 880-70588/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 70597

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/11/24 11:31	1

Lab Sample ID: LCS 880-70588/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 70597

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	244.3		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-70588/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 70597

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	245.2		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Trionyx 6 Federal #01H

Job ID: 880-37681-1
SDG: 23-0127-01

GC VOA

Prep Batch: 70580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37681-1	Source, 5'	Total/NA	Solid	5035	
880-37681-2	Source, 5.5'	Total/NA	Solid	5035	
MB 880-70580/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-70580/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-70580/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-37681-1 MS	Source, 5'	Total/NA	Solid	5035	
880-37681-1 MSD	Source, 5'	Total/NA	Solid	5035	

Analysis Batch: 70626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37681-1	Source, 5'	Total/NA	Solid	8021B	70580
880-37681-2	Source, 5.5'	Total/NA	Solid	8021B	70580
MB 880-70580/5-A	Method Blank	Total/NA	Solid	8021B	70580
LCS 880-70580/1-A	Lab Control Sample	Total/NA	Solid	8021B	70580
LCSD 880-70580/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	70580
880-37681-1 MS	Source, 5'	Total/NA	Solid	8021B	70580
880-37681-1 MSD	Source, 5'	Total/NA	Solid	8021B	70580

Analysis Batch: 70769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37681-1	Source, 5'	Total/NA	Solid	Total BTEX	
880-37681-2	Source, 5.5'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 70523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37681-1	Source, 5'	Total/NA	Solid	8015B NM	70593
880-37681-2	Source, 5.5'	Total/NA	Solid	8015B NM	70593
MB 880-70593/1-A	Method Blank	Total/NA	Solid	8015B NM	70593
LCS 880-70593/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	70593
LCSD 880-70593/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	70593
880-37681-1 MS	Source, 5'	Total/NA	Solid	8015B NM	70593
880-37681-1 MSD	Source, 5'	Total/NA	Solid	8015B NM	70593

Prep Batch: 70593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37681-1	Source, 5'	Total/NA	Solid	8015NM Prep	
880-37681-2	Source, 5.5'	Total/NA	Solid	8015NM Prep	
MB 880-70593/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-70593/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-70593/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-37681-1 MS	Source, 5'	Total/NA	Solid	8015NM Prep	
880-37681-1 MSD	Source, 5'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 70642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37681-1	Source, 5'	Total/NA	Solid	8015 NM	
880-37681-2	Source, 5.5'	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Trionyx 6 Federal #01H

Job ID: 880-37681-1
SDG: 23-0127-01

HPLC/IC

Leach Batch: 70487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37681-2	Source, 5.5'	Soluble	Solid	DI Leach	
MB 880-70487/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-70487/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-70487/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 70588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37681-1	Source, 5'	Soluble	Solid	DI Leach	
MB 880-70588/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-70588/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-70588/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 70595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37681-2	Source, 5.5'	Soluble	Solid	300.0	70487
MB 880-70487/1-A	Method Blank	Soluble	Solid	300.0	70487
LCS 880-70487/2-A	Lab Control Sample	Soluble	Solid	300.0	70487
LCSD 880-70487/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	70487

Analysis Batch: 70597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37681-1	Source, 5'	Soluble	Solid	300.0	70588
MB 880-70588/1-A	Method Blank	Soluble	Solid	300.0	70588
LCS 880-70588/2-A	Lab Control Sample	Soluble	Solid	300.0	70588
LCSD 880-70588/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	70588

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: Trionyx 6 Federal #01H

Job ID: 880-37681-1
SDG: 23-0127-01

Client Sample ID: Source, 5'

Date Collected: 01/08/24 12:01
Date Received: 01/09/24 09:38

Lab Sample ID: 880-37681-1

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			5.03 g	5 mL	70580	01/10/24 14:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70626	01/11/24 14:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70769	01/11/24 14:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			70642	01/10/24 20:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	70593	01/10/24 15:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70523	01/10/24 20:52	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	70588	01/10/24 14:40	SA	EET MID
Soluble	Analysis	300.0		1			70597	01/11/24 14:58	CH	EET MID

Client Sample ID: Source, 5.5'

Date Collected: 01/08/24 12:40
Date Received: 01/09/24 09:38

Lab Sample ID: 880-37681-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	70580	01/10/24 14:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70626	01/11/24 11:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70769	01/11/24 11:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			70642	01/10/24 21:57	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	70593	01/10/24 15:47	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70523	01/10/24 21:57	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	70487	01/09/24 16:42	SA	EET MID
Soluble	Analysis	300.0		1			70595	01/11/24 06:20	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: 880-37681-1
Project/Site: Trionyx 6 Federal #01H SDG: 23-0127-01

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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

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

Method Summary

Client: Larson & Associates, Inc. Job ID: 880-37681-1
Project/Site: Trionyx 6 Federal #01H SDG: 23-0127-01

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: Trionyx 6 Federal #01H

Job ID: 880-37681-1
SDG: 23-0127-01

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-37681-1	Source, 5'	Solid	01/08/24 12:01	01/09/24 09:38
880-37681-2	Source, 5.5'	Solid	01/08/24 12:40	01/09/24 09:38

37681

No. 2889

CHAIN-OF-CUSTODY

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

DATE 1/9/2024 PAGE 1 OF 1

PO# LAB WORK ORDER#:

PROJECT LOCATION OR NAME Trionyx 6 Federal #01H

LAI PROJECT #: 23-0127-01 COLLECTOR: RM/DSL

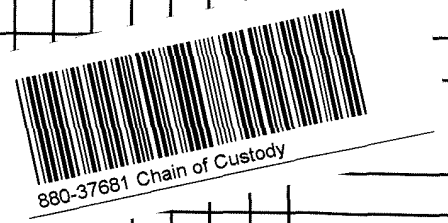
Data Reported to

TRRP report? ☐ Yes ☑ No

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

TIME ZONE
Time zone/State: MST/NM

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☐ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
Source, 5'		1/8/24	1201	S	1				X		X		X	X	X																X	202
Source, 5.5'		1/8/24	1240	L	1				L		X		X	X	X																X	



TOTAL

RELINQUISHED BY (Signature)	DATE/TIME 1/9/24 0938	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP -4.8 | -4.6 THERM# IR8
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-37681-1
SDG Number: 23-0127-01

Login Number: 37681
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 2/26/2024 8:08:06 PM

JOB DESCRIPTION

Trionyx C Federal #01H
3276

JOB NUMBER

880-39820-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

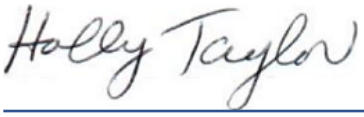
Eurofins Midland

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

Client: Larson & Associates, Inc.
Project/Site: Trionyx C Federal #01H

Laboratory Job ID: 880-39820-1
SDG: 3276

Table of Contents

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-39820-1
Project/Site: Trionyx C Federal #01H SDG: 3276

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
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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.
Project: Trionyx C Federal #01H

Job ID: 880-39820-1

Job ID: 880-39820-1 Eurofins Midland

Job Narrative
880-39820-1

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 2/23/2024 8:20 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -0.5°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: C-1, 1' (880-39820-1), C-2, 1' (880-39820-2), C-3, 0-1' (880-39820-3), C-4, 4.1' (880-39820-4), C-5, 4.1' (880-39820-5), C-6, 0-4.1' (880-39820-6), C-7, 0-4.1' (880-39820-7), C-8, 1.5' (880-39820-8), C-9, 1.5' (880-39820-9), C-10, 1.5' (880-39820-10), C-10, 1.5' (880-39820-11) and BF-1 (880-39820-12).

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: C-10, 1.5' (880-39820-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-73934/5-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.

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-73913 and analytical batch 880-73917 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-2, 1' (880-39820-2) and (890-6240-A-1-E 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 sample was outside control limits: (LCS 880-73913/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-73913 and analytical batch 880-73917 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: C-10, 1.5' (880-39820-10), C-10, 1.5' (880-39820-11), BF-1 (880-39820-12), (LCS 880-73922/2-A), (MB 880-73922/1-A), (880-39820-A-10-D MS) and (880-39820-A-10-E MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-73922 and analytical batch 880-73919 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 duplicate (LCSD) recovery is within acceptance limits.

Method 8015MOD_NM: LCS biased low. Since only an acceptable LCS or LCSD is required per the method, the LCSD shows recovery for the batch and the data has been qualified and reported.

Eurofins Midland

Case Narrative

Client: Larson & Associates, Inc. Job ID: 880-39820-1
Project: Trionyx C Federal #01H

Job ID: 880-39820-1 (Continued) Eurofins Midland

(LCS 880-73922/2-A) and (LCSD 880-73922/3-A)

Method 8015MOD_NM: Samples are being reran for confirmation of hits.

C-10, 1.5' (880-39820-10), C-10, 1.5' (880-39820-11) and BF-1 (880-39820-12)

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

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike (MS) recoveries for preparation batch 880-73914 and analytical batch 880-73923 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Trionyx C Federal #01H

Job ID: 880-39820-1
SDG: 3276

Client Sample ID: C-1, 1'

Date Collected: 02/20/24 14:00
Date Received: 02/23/24 08:20

Lab Sample ID: 880-39820-1
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		02/23/24 14:05	02/24/24 13:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/23/24 14:05	02/24/24 13:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/23/24 14:05	02/24/24 13:57	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		02/23/24 14:05	02/24/24 13:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/23/24 14:05	02/24/24 13:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/23/24 14:05	02/24/24 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*74*		*70 - 130*	*02/23/24 14:05*	*02/24/24 13:57*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*02/23/24 14:05*	*02/24/24 13:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/24/24 13:57	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			02/23/24 20:12	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	<50.4	U *1	50.4		mg/Kg		02/23/24 09:41	02/23/24 20:12	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		02/23/24 09:41	02/23/24 20:12	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		02/23/24 09:41	02/23/24 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*74*		*70 - 130*	*02/23/24 09:41*	*02/23/24 20:12*	*1*
o-Terphenyl (Surr)	*55*	*S1-*	*70 - 130*	*02/23/24 09:41*	*02/23/24 20:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**157**		5.04		mg/Kg			02/23/24 21:21	1

Client Sample ID: C-2, 1'

Date Collected: 02/20/24 14:01
Date Received: 02/23/24 08:20

Lab Sample ID: 880-39820-2
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		02/23/24 14:05	02/24/24 14:18	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/23/24 14:05	02/24/24 14:18	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/23/24 14:05	02/24/24 14:18	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		02/23/24 14:05	02/24/24 14:18	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/23/24 14:05	02/24/24 14:18	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/23/24 14:05	02/24/24 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*02/23/24 14:05*	*02/24/24 14:18*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*02/23/24 14:05*	*02/24/24 14:18*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39820-1
Project/Site: Trionyx C Federal #01H SDG: 3276

Client Sample ID: C-2, 1' Lab Sample ID: 880-39820-2

Date Collected: 02/20/24 14:01 **Matrix: Solid**
Date Received: 02/23/24 08:20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/24/24 14:18	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			02/23/24 20:36	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 *1	50.5		mg/Kg		02/23/24 09:41	02/23/24 20:36	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		02/23/24 09:41	02/23/24 20:36	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		02/23/24 09:41	02/23/24 20:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*79*		*70 - 130*	*02/23/24 09:41*	*02/23/24 20:36*	*1*
o-Terphenyl (Surr)	*59*	*S1-*	*70 - 130*	*02/23/24 09:41*	*02/23/24 20:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**144**		5.02		mg/Kg			02/23/24 21:28	1

Client Sample ID: C-3, 0-1' Lab Sample ID: 880-39820-3

Date Collected: 02/20/24 14:02 **Matrix: Solid**
Date Received: 02/23/24 08:20

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		02/23/24 14:05	02/24/24 14:39	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/23/24 14:05	02/24/24 14:39	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/23/24 14:05	02/24/24 14:39	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		02/23/24 14:05	02/24/24 14:39	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/23/24 14:05	02/24/24 14:39	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		02/23/24 14:05	02/24/24 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*02/23/24 14:05*	*02/24/24 14:39*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*02/23/24 14:05*	*02/24/24 14:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			02/24/24 14:39	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/23/24 20:59	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 *1	50.0		mg/Kg		02/23/24 09:41	02/23/24 20:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/23/24 09:41	02/23/24 20:59	1

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Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39820-1
Project/Site: Trionyx C Federal #01H SDG: 3276

Client Sample ID: C-3, 0-1' Lab Sample ID: 880-39820-3

Date Collected: 02/20/24 14:02 **Matrix: Solid**
Date Received: 02/23/24 08:20

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/23/24 09:41	02/23/24 20:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*02/23/24 09:41*	*02/23/24 20:59*	*1*
o-Terphenyl (Surr)	*74*		*70 - 130*	*02/23/24 09:41*	*02/23/24 20:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**140**		5.02		mg/Kg			02/23/24 21:35	1

Client Sample ID: C-4, 4.1' Lab Sample ID: 880-39820-4

Date Collected: 02/20/24 14:03 **Matrix: Solid**
Date Received: 02/23/24 08:20

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/23/24 14:05	02/24/24 14:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/23/24 14:05	02/24/24 14:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/23/24 14:05	02/24/24 14:59	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		02/23/24 14:05	02/24/24 14:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/23/24 14:05	02/24/24 14:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/23/24 14:05	02/24/24 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*02/23/24 14:05*	*02/24/24 14:59*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*02/23/24 14:05*	*02/24/24 14:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/24/24 14:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**138**		50.0		mg/Kg			02/23/24 21:22	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	<50.0	U *1	50.0		mg/Kg		02/23/24 09:41	02/23/24 21:22	1
Diesel Range Organics (Over C10-C28)	**138**		50.0		mg/Kg		02/23/24 09:41	02/23/24 21:22	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/23/24 09:41	02/23/24 21:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*114*		*70 - 130*	*02/23/24 09:41*	*02/23/24 21:22*	*1*
o-Terphenyl (Surr)	*90*		*70 - 130*	*02/23/24 09:41*	*02/23/24 21:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**469**		4.99		mg/Kg			02/23/24 12:33	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Trionyx C Federal #01H

Job ID: 880-39820-1
SDG: 3276

Client Sample ID: C-5, 4.1'

Lab Sample ID: 880-39820-5
Matrix: Solid
Date Collected: 02/20/24 14:04
Date Received: 02/23/24 08:20

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/23/24 14:05	02/24/24 15:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/23/24 14:05	02/24/24 15:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/23/24 14:05	02/24/24 15:20	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		02/23/24 14:05	02/24/24 15:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/23/24 14:05	02/24/24 15:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/23/24 14:05	02/24/24 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*02/23/24 14:05*	*02/24/24 15:20*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*02/23/24 14:05*	*02/24/24 15:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/24/24 15:20	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**198**		50.0		mg/Kg			02/23/24 21:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		02/23/24 09:41	02/23/24 21:46	1
Diesel Range Organics (Over C10-C28)	**198**		50.0		mg/Kg		02/23/24 09:41	02/23/24 21:46	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/23/24 09:41	02/23/24 21:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*111*		*70 - 130*	*02/23/24 09:41*	*02/23/24 21:46*	*1*
o-Terphenyl (Surr)	*84*		*70 - 130*	*02/23/24 09:41*	*02/23/24 21:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**218**		4.99		mg/Kg			02/23/24 12:40	1

Client Sample ID: C-6, 0-4.1'

Lab Sample ID: 880-39820-6
Matrix: Solid
Date Collected: 02/20/24 14:05
Date Received: 02/23/24 08:20

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/23/24 14:05	02/24/24 15:41	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/23/24 14:05	02/24/24 15:41	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/23/24 14:05	02/24/24 15:41	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		02/23/24 14:05	02/24/24 15:41	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/23/24 14:05	02/24/24 15:41	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/23/24 14:05	02/24/24 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*02/23/24 14:05*	*02/24/24 15:41*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*02/23/24 14:05*	*02/24/24 15:41*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39820-1
Project/Site: Trionyx C Federal #01H SDG: 3276

Client Sample ID: C-6, 0-4.1' Lab Sample ID: 880-39820-6

Date Collected: 02/20/24 14:05 **Matrix: Solid**
Date Received: 02/23/24 08:20

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			02/24/24 15:41	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**110**		49.6		mg/Kg			02/23/24 22:09	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 *1	49.6		mg/Kg		02/23/24 09:41	02/23/24 22:09	1
Diesel Range Organics (Over C10-C28)	**110**		49.6		mg/Kg		02/23/24 09:41	02/23/24 22:09	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		02/23/24 09:41	02/23/24 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*101*		*70 - 130*	*02/23/24 09:41*	*02/23/24 22:09*	*1*
o-Terphenyl (Surr)	*76*		*70 - 130*	*02/23/24 09:41*	*02/23/24 22:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**252**		5.02		mg/Kg			02/23/24 13:01	1

Client Sample ID: C-7, 0-4.1' Lab Sample ID: 880-39820-7

Date Collected: 02/20/24 14:06 **Matrix: Solid**
Date Received: 02/23/24 08:20

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/23/24 14:05	02/24/24 16:02	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/23/24 14:05	02/24/24 16:02	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/23/24 14:05	02/24/24 16:02	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		02/23/24 14:05	02/24/24 16:02	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/23/24 14:05	02/24/24 16:02	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/23/24 14:05	02/24/24 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*	*02/23/24 14:05*	*02/24/24 16:02*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*02/23/24 14:05*	*02/24/24 16:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/24/24 16:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/23/24 22:32	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 *1	49.7		mg/Kg		02/23/24 09:41	02/23/24 22:32	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/23/24 09:41	02/23/24 22:32	1

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Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39820-1
Project/Site: Trionyx C Federal #01H SDG: 3276

Client Sample ID: C-7, 0-4.1' Lab Sample ID: 880-39820-7

Date Collected: 02/20/24 14:06 **Matrix: Solid**
Date Received: 02/23/24 08:20

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/23/24 09:41	02/23/24 22:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*02/23/24 09:41*	*02/23/24 22:32*	*1*
o-Terphenyl (Surr)	*73*		*70 - 130*	*02/23/24 09:41*	*02/23/24 22:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**244**		5.01		mg/Kg			02/23/24 13:08	1

Client Sample ID: C-8, 1.5' Lab Sample ID: 880-39820-8

Date Collected: 02/20/24 14:07 **Matrix: Solid**
Date Received: 02/23/24 08:20

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		02/23/24 14:05	02/24/24 16:22	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/23/24 14:05	02/24/24 16:22	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/23/24 14:05	02/24/24 16:22	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		02/23/24 14:05	02/24/24 16:22	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/23/24 14:05	02/24/24 16:22	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		02/23/24 14:05	02/24/24 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*02/23/24 14:05*	*02/24/24 16:22*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*02/23/24 14:05*	*02/24/24 16:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			02/24/24 16:22	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**371**		49.9		mg/Kg			02/23/24 22:55	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	<49.9	U *1	49.9		mg/Kg		02/23/24 09:41	02/23/24 22:55	1
Diesel Range Organics (Over C10-C28)	**371**		49.9		mg/Kg		02/23/24 09:41	02/23/24 22:55	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/23/24 09:41	02/23/24 22:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*02/23/24 09:41*	*02/23/24 22:55*	*1*
o-Terphenyl (Surr)	*83*		*70 - 130*	*02/23/24 09:41*	*02/23/24 22:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**377**		5.00		mg/Kg			02/23/24 13:15	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39820-1
Project/Site: Trionyx C Federal #01H SDG: 3276

Client Sample ID: C-9, 1.5' Lab Sample ID: 880-39820-9

Date Collected: 02/20/24 14:08 **Matrix: Solid**
Date Received: 02/23/24 08:20

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/23/24 14:05	02/24/24 16:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/23/24 14:05	02/24/24 16:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/23/24 14:05	02/24/24 16:43	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		02/23/24 14:05	02/24/24 16:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/23/24 14:05	02/24/24 16:43	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/23/24 14:05	02/24/24 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*73*		*70 - 130*	*02/23/24 14:05*	*02/24/24 16:43*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*02/23/24 14:05*	*02/24/24 16:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/24/24 16:43	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**320**		49.8		mg/Kg			02/23/24 23:18	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		02/23/24 09:41	02/23/24 23:18	1
Diesel Range Organics (Over C10-C28)	**320**		49.8		mg/Kg		02/23/24 09:41	02/23/24 23:18	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/23/24 09:41	02/23/24 23:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*02/23/24 09:41*	*02/23/24 23:18*	*1*
o-Terphenyl (Surr)	*88*		*70 - 130*	*02/23/24 09:41*	*02/23/24 23:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**390**		4.97		mg/Kg			02/23/24 13:21	1

Client Sample ID: C-10, 1.5' Lab Sample ID: 880-39820-10

Date Collected: 02/20/24 14:09 **Matrix: Solid**
Date Received: 02/23/24 08:20

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/23/24 14:05	02/24/24 17:04	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/23/24 14:05	02/24/24 17:04	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/23/24 14:05	02/24/24 17:04	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		02/23/24 14:05	02/24/24 17:04	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/23/24 14:05	02/24/24 17:04	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/23/24 14:05	02/24/24 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*02/23/24 14:05*	*02/24/24 17:04*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*02/23/24 14:05*	*02/24/24 17:04*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Trionyx C Federal #01H

Job ID: 880-39820-1
SDG: 3276

Client Sample ID: C-10, 1.5'

Date Collected: 02/20/24 14:09
Date Received: 02/23/24 08:20

Lab Sample ID: 880-39820-10
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/24/24 17:04	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**96.6**		49.9		mg/Kg			02/25/24 01:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- *1 F1	49.9		mg/Kg		02/23/24 11:52	02/25/24 01:27	1
Diesel Range Organics (Over C10-C28)	**96.6**	***1 F1**	49.9		mg/Kg		02/23/24 11:52	02/25/24 01:27	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/23/24 11:52	02/25/24 01:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*15*	*S1-*	*70 - 130*	*02/23/24 11:52*	*02/25/24 01:27*	*1*
o-Terphenyl (Surr)	*14*	*S1-*	*70 - 130*	*02/23/24 11:52*	*02/25/24 01:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**384**		4.96		mg/Kg			02/23/24 13:28	1

Client Sample ID: C-10, 1.5'

Date Collected: 02/20/24 14:10
Date Received: 02/23/24 08:20

Lab Sample ID: 880-39820-11
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/23/24 14:05	02/24/24 18:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/23/24 14:05	02/24/24 18:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/23/24 14:05	02/24/24 18:30	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		02/23/24 14:05	02/24/24 18:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/23/24 14:05	02/24/24 18:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/23/24 14:05	02/24/24 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*56*	*S1-*	*70 - 130*	*02/23/24 14:05*	*02/24/24 18:30*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*02/23/24 14:05*	*02/24/24 18:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			02/24/24 18:30	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			02/25/24 02:33	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U *- *1	50.1		mg/Kg		02/23/24 11:52	02/25/24 02:33	1
Diesel Range Organics (Over C10-C28)	<50.1	U *1	50.1		mg/Kg		02/23/24 11:52	02/25/24 02:33	1

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Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: Trionyx C Federal #01H

Job ID: 880-39820-1
SDG: 3276

Client Sample ID: C-10, 1.5'

Date Collected: 02/20/24 14:10
Date Received: 02/23/24 08:20

Lab Sample ID: 880-39820-11
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		02/23/24 11:52	02/25/24 02:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*0.9*	*S1-*	*70 - 130*	*02/23/24 11:52*	*02/25/24 02:33*	*1*
o-Terphenyl (Surr)	*0.3*	*S1-*	*70 - 130*	*02/23/24 11:52*	*02/25/24 02:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**429**		4.99		mg/Kg			02/23/24 13:35	1

Client Sample ID: BF-1

Date Collected: 02/20/24 14:11
Date Received: 02/23/24 08:20

Lab Sample ID: 880-39820-12
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		02/23/24 14:05	02/24/24 18:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/23/24 14:05	02/24/24 18:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/23/24 14:05	02/24/24 18:50	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		02/23/24 14:05	02/24/24 18:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/23/24 14:05	02/24/24 18:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/23/24 14:05	02/24/24 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*02/23/24 14:05*	*02/24/24 18:50*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*02/23/24 14:05*	*02/24/24 18:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/24/24 18:50	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**53.7**		50.1		mg/Kg			02/25/24 02:55	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	<50.1	U *- *1	50.1		mg/Kg		02/23/24 11:52	02/25/24 02:55	1
Diesel Range Organics (Over C10-C28)	**53.7**	***1**	50.1		mg/Kg		02/23/24 11:52	02/25/24 02:55	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		02/23/24 11:52	02/25/24 02:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*29*	*S1-*	*70 - 130*	*02/23/24 11:52*	*02/25/24 02:55*	*1*
o-Terphenyl (Surr)	*24*	*S1-*	*70 - 130*	*02/23/24 11:52*	*02/25/24 02:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**25.3**		5.02		mg/Kg			02/23/24 13:56	1

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-39820-1
Project/Site: Trionyx C Federal #01H SDG: 3276

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)
880-39820-1	C-1, 1'	74	101
880-39820-1 MS	C-1, 1'	98	112
880-39820-1 MSD	C-1, 1'	92	116
880-39820-2	C-2, 1'	83	87
880-39820-3	C-3, 0-1'	86	88
880-39820-4	C-4, 4.1'	78	88
880-39820-5	C-5, 4.1'	80	92
880-39820-6	C-6, 0-4.1'	88	91
880-39820-7	C-7, 0-4.1'	76	100
880-39820-8	C-8, 1.5'	81	86
880-39820-9	C-9, 1.5'	73	91
880-39820-10	C-10, 1.5'	83	92
880-39820-11	C-10, 1.5'	56 S1-	109
880-39820-12	BF-1	90	81
LCS 880-73934/1-A	Lab Control Sample	95	119
LCSD 880-73934/2-A	Lab Control Sample Dup	101	118
MB 880-73934/5-A	Method Blank	67 S1-	106

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)
880-39820-1	C-1, 1'	74	55 S1-
880-39820-2	C-2, 1'	79	59 S1-
880-39820-3	C-3, 0-1'	100	74
880-39820-4	C-4, 4.1'	114	90
880-39820-5	C-5, 4.1'	111	84
880-39820-6	C-6, 0-4.1'	101	76
880-39820-7	C-7, 0-4.1'	95	73
880-39820-8	C-8, 1.5'	109	83
880-39820-9	C-9, 1.5'	109	88
880-39820-10	C-10, 1.5'	15 S1-	14 S1-
880-39820-10 MS	C-10, 1.5'	9 S1-	3 S1-
880-39820-10 MSD	C-10, 1.5'	8 S1-	0.8 S1-
880-39820-11	C-10, 1.5'	0.9 S1-	0.3 S1-
880-39820-12	BF-1	29 S1-	24 S1-
LCS 880-73913/2-A	Lab Control Sample	86	67 S1-
LCS 880-73922/2-A	Lab Control Sample	0.04 S1-	25 S1-
LCSD 880-73913/3-A	Lab Control Sample Dup	98	76
LCSD 880-73922/3-A	Lab Control Sample Dup	97	114
MB 880-73913/1-A	Method Blank	134 S1+	110
MB 880-73922/1-A	Method Blank	127	144 S1+

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: Trionyx C Federal #01H

Job ID: 880-39820-1
SDG: 3276

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Trionyx C Federal #01H

Job ID: 880-39820-1
SDG: 3276

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-73934/5-A
Matrix: Solid
Analysis Batch: 73977

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 73934

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/23/24 14:05	02/24/24 13:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/23/24 14:05	02/24/24 13:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/23/24 14:05	02/24/24 13:35	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		02/23/24 14:05	02/24/24 13:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/23/24 14:05	02/24/24 13:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/23/24 14:05	02/24/24 13:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*67*	*S1-*	*70 - 130*	*02/23/24 14:05*	*02/24/24 13:35*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*02/23/24 14:05*	*02/24/24 13:35*	*1*

Lab Sample ID: LCS 880-73934/1-A
Matrix: Solid
Analysis Batch: 73977

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 73934

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08685		mg/Kg		87	70 - 130		
Toluene			0.100	0.08362		mg/Kg		84	70 - 130		
Ethylbenzene			0.100	0.08494		mg/Kg		85	70 - 130		
m,p-Xylenes			0.200	0.1755		mg/Kg		88	70 - 130		
o-Xylene			0.100	0.08674		mg/Kg		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*

Lab Sample ID: LCSD 880-73934/2-A
Matrix: Solid
Analysis Batch: 73977

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 73934

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09306		mg/Kg		93	70 - 130	7	35
Toluene			0.100	0.07993		mg/Kg		80	70 - 130	5	35
Ethylbenzene			0.100	0.08084		mg/Kg		81	70 - 130	5	35
m,p-Xylenes			0.200	0.1900		mg/Kg		95	70 - 130	8	35
o-Xylene			0.100	0.09294		mg/Kg		93	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*

Lab Sample ID: 880-39820-1 MS
Matrix: Solid
Analysis Batch: 73977

Client Sample ID: C-1, 1'
Prep Type: Total/NA
Prep Batch: 73934

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.101	0.08386		mg/Kg		83	70 - 130		
Toluene	<0.00199	U	0.101	0.07806		mg/Kg		77	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39820-1
Project/Site: Trionyx C Federal #01H SDG: 3276

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

Lab Sample ID: 880-39820-1 MS **Client Sample ID: C-1, 1'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 73977 **Prep Batch: 73934**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.101	0.08103		mg/Kg		80	70 - 130
m,p-Xylenes	<0.00398	U	0.202	0.1659		mg/Kg		82	70 - 130
o-Xylene	<0.00199	U	0.101	0.08099		mg/Kg		80	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: 880-39820-1 MSD **Client Sample ID: C-1, 1'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 73977 **Prep Batch: 73934**

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	0.08203		mg/Kg		82	70 - 130	2	35
Toluene	<0.00199	U	0.100	0.07725		mg/Kg		77	70 - 130	1	35
Ethylbenzene	<0.00199	U	0.100	0.07681		mg/Kg		77	70 - 130	5	35
m,p-Xylenes	<0.00398	U	0.200	0.1561		mg/Kg		78	70 - 130	6	35
o-Xylene	<0.00199	U	0.100	0.07629		mg/Kg		76	70 - 130	6	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*

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

Lab Sample ID: MB 880-73913/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 73917 **Prep Batch: 73913**

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		02/23/24 09:40	02/23/24 11:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/23/24 09:40	02/23/24 11:58	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/23/24 09:40	02/23/24 11:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*134*	*S1+*	*70 - 130*	*02/23/24 09:40*	*02/23/24 11:58*	*1*
o-Terphenyl (Surr)	*110*		*70 - 130*	*02/23/24 09:40*	*02/23/24 11:58*	*1*

Lab Sample ID: LCS 880-73913/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 73917 **Prep Batch: 73913**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1151		mg/Kg		115	70 - 130
Diesel Range Organics (Over C10-C28)			1000	891.1		mg/Kg		89	70 - 130

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39820-1
Project/Site: Trionyx C Federal #01H SDG: 3276

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

Lab Sample ID: LCS 880-73913/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 73917 **Prep Batch: 73913**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	86		70 - 130
o-Terphenyl (Surr)	67	S1-	70 - 130

Lab Sample ID: LCSD 880-73913/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 73917 **Prep Batch: 73913**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	896.6	*1	mg/Kg		90	70 - 130	25	20
Diesel Range Organics (Over C10-C28)			1000	1034		mg/Kg		103	70 - 130	15	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	98		70 - 130
o-Terphenyl (Surr)	76		70 - 130

Lab Sample ID: MB 880-73922/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 73919 **Prep Batch: 73922**

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		02/23/24 11:52	02/24/24 00:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/23/24 11:52	02/24/24 00:04	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/23/24 11:52	02/24/24 00:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	127		70 - 130	02/23/24 11:52	02/24/24 00:04	1
o-Terphenyl (Surr)	144	S1+	70 - 130	02/23/24 11:52	02/24/24 00:04	1

Lab Sample ID: LCS 880-73922/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 73919 **Prep Batch: 73922**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	42.28	J *-	mg/Kg		4	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	805.7		mg/Kg		81	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	0.04	S1-	70 - 130
o-Terphenyl (Surr)	25	S1-	70 - 130

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39820-1
Project/Site: Trionyx C Federal #01H SDG: 3276

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

Lab Sample ID: LCSD 880-73922/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 73919 **Prep Batch: 73922**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1130	*1	mg/Kg		113	70 - 130	186	20
Diesel Range Organics (Over C10-C28)			1000	1260	*1	mg/Kg		126	70 - 130	44	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*97*		*70 - 130*
o-Terphenyl (Surr)	*114*		*70 - 130*

Lab Sample ID: 880-39820-10 MS **Client Sample ID: C-10, 1.5'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 73919 **Prep Batch: 73922**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- *1 F1	991	139.3	F1	mg/Kg		10	70 - 130
Diesel Range Organics (Over C10-C28)	96.6	*1 F1	991	55.57	F1	mg/Kg		-4	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*9*	*S1-*	*70 - 130*
o-Terphenyl (Surr)	*3*	*S1-*	*70 - 130*

Lab Sample ID: 880-39820-10 MSD **Client Sample ID: C-10, 1.5'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 73919 **Prep Batch: 73922**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- *1 F1	991	158.8	F1	mg/Kg		12	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	96.6	*1 F1	991	57.46	F1	mg/Kg		-4	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*8*	*S1-*	*70 - 130*
o-Terphenyl (Surr)	*0.8*	*S1-*	*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-73914/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 73923

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/23/24 11:38	1

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-39820-1
Project/Site: Trionyx C Federal #01H SDG: 3276

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-73914/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 73923

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	255.6		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-73914/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 73923

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	255.6		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-39820-11 MS — **Client Sample ID: C-10, 1.5'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 73923

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	429		250	676.9		mg/Kg		99	90 - 110		

Lab Sample ID: 880-39820-11 MSD — **Client Sample ID: C-10, 1.5'**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 73923

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	429		250	655.8		mg/Kg		91	90 - 110	3	20

Lab Sample ID: MB 880-73915/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 73927

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/23/24 18:10	1

Lab Sample ID: LCS 880-73915/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 73927

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	257.4		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-73915/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 73927

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	257.6		mg/Kg		103	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: Trionyx C Federal #01H

Job ID: 880-39820-1
SDG: 3276

GC VOA

Prep Batch: 73934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39820-1	C-1, 1'	Total/NA	Solid	5035	
880-39820-2	C-2, 1'	Total/NA	Solid	5035	
880-39820-3	C-3, 0-1'	Total/NA	Solid	5035	
880-39820-4	C-4, 4.1'	Total/NA	Solid	5035	
880-39820-5	C-5, 4.1'	Total/NA	Solid	5035	
880-39820-6	C-6, 0-4.1'	Total/NA	Solid	5035	
880-39820-7	C-7, 0-4.1'	Total/NA	Solid	5035	
880-39820-8	C-8, 1.5'	Total/NA	Solid	5035	
880-39820-9	C-9, 1.5'	Total/NA	Solid	5035	
880-39820-10	C-10, 1.5'	Total/NA	Solid	5035	
880-39820-11	C-10, 1.5'	Total/NA	Solid	5035	
880-39820-12	BF-1	Total/NA	Solid	5035	
MB 880-73934/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-73934/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-73934/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-39820-1 MS	C-1, 1'	Total/NA	Solid	5035	
880-39820-1 MSD	C-1, 1'	Total/NA	Solid	5035	

Analysis Batch: 73977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39820-1	C-1, 1'	Total/NA	Solid	8021B	73934
880-39820-2	C-2, 1'	Total/NA	Solid	8021B	73934
880-39820-3	C-3, 0-1'	Total/NA	Solid	8021B	73934
880-39820-4	C-4, 4.1'	Total/NA	Solid	8021B	73934
880-39820-5	C-5, 4.1'	Total/NA	Solid	8021B	73934
880-39820-6	C-6, 0-4.1'	Total/NA	Solid	8021B	73934
880-39820-7	C-7, 0-4.1'	Total/NA	Solid	8021B	73934
880-39820-8	C-8, 1.5'	Total/NA	Solid	8021B	73934
880-39820-9	C-9, 1.5'	Total/NA	Solid	8021B	73934
880-39820-10	C-10, 1.5'	Total/NA	Solid	8021B	73934
880-39820-11	C-10, 1.5'	Total/NA	Solid	8021B	73934
880-39820-12	BF-1	Total/NA	Solid	8021B	73934
MB 880-73934/5-A	Method Blank	Total/NA	Solid	8021B	73934
LCS 880-73934/1-A	Lab Control Sample	Total/NA	Solid	8021B	73934
LCSD 880-73934/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	73934
880-39820-1 MS	C-1, 1'	Total/NA	Solid	8021B	73934
880-39820-1 MSD	C-1, 1'	Total/NA	Solid	8021B	73934

Analysis Batch: 74029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39820-1	C-1, 1'	Total/NA	Solid	Total BTEX	
880-39820-2	C-2, 1'	Total/NA	Solid	Total BTEX	
880-39820-3	C-3, 0-1'	Total/NA	Solid	Total BTEX	
880-39820-4	C-4, 4.1'	Total/NA	Solid	Total BTEX	
880-39820-5	C-5, 4.1'	Total/NA	Solid	Total BTEX	
880-39820-6	C-6, 0-4.1'	Total/NA	Solid	Total BTEX	
880-39820-7	C-7, 0-4.1'	Total/NA	Solid	Total BTEX	
880-39820-8	C-8, 1.5'	Total/NA	Solid	Total BTEX	
880-39820-9	C-9, 1.5'	Total/NA	Solid	Total BTEX	
880-39820-10	C-10, 1.5'	Total/NA	Solid	Total BTEX	
880-39820-11	C-10, 1.5'	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-39820-1
Project/Site: Trionyx C Federal #01H SDG: 3276

GC VOA (Continued)

Analysis Batch: 74029 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39820-12	BF-1	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 73913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39820-1	C-1, 1'	Total/NA	Solid	8015NM Prep	
880-39820-2	C-2, 1'	Total/NA	Solid	8015NM Prep	
880-39820-3	C-3, 0-1'	Total/NA	Solid	8015NM Prep	
880-39820-4	C-4, 4.1'	Total/NA	Solid	8015NM Prep	
880-39820-5	C-5, 4.1'	Total/NA	Solid	8015NM Prep	
880-39820-6	C-6, 0-4.1'	Total/NA	Solid	8015NM Prep	
880-39820-7	C-7, 0-4.1'	Total/NA	Solid	8015NM Prep	
880-39820-8	C-8, 1.5'	Total/NA	Solid	8015NM Prep	
880-39820-9	C-9, 1.5'	Total/NA	Solid	8015NM Prep	
MB 880-73913/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-73913/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-73913/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 73917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39820-1	C-1, 1'	Total/NA	Solid	8015B NM	73913
880-39820-2	C-2, 1'	Total/NA	Solid	8015B NM	73913
880-39820-3	C-3, 0-1'	Total/NA	Solid	8015B NM	73913
880-39820-4	C-4, 4.1'	Total/NA	Solid	8015B NM	73913
880-39820-5	C-5, 4.1'	Total/NA	Solid	8015B NM	73913
880-39820-6	C-6, 0-4.1'	Total/NA	Solid	8015B NM	73913
880-39820-7	C-7, 0-4.1'	Total/NA	Solid	8015B NM	73913
880-39820-8	C-8, 1.5'	Total/NA	Solid	8015B NM	73913
880-39820-9	C-9, 1.5'	Total/NA	Solid	8015B NM	73913
MB 880-73913/1-A	Method Blank	Total/NA	Solid	8015B NM	73913
LCS 880-73913/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	73913
LCSD 880-73913/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	73913

Analysis Batch: 73919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39820-10	C-10, 1.5'	Total/NA	Solid	8015B NM	73922
880-39820-11	C-10, 1.5'	Total/NA	Solid	8015B NM	73922
880-39820-12	BF-1	Total/NA	Solid	8015B NM	73922
MB 880-73922/1-A	Method Blank	Total/NA	Solid	8015B NM	73922
LCS 880-73922/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	73922
LCSD 880-73922/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	73922
880-39820-10 MS	C-10, 1.5'	Total/NA	Solid	8015B NM	73922
880-39820-10 MSD	C-10, 1.5'	Total/NA	Solid	8015B NM	73922

Prep Batch: 73922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39820-10	C-10, 1.5'	Total/NA	Solid	8015NM Prep	
880-39820-11	C-10, 1.5'	Total/NA	Solid	8015NM Prep	
880-39820-12	BF-1	Total/NA	Solid	8015NM Prep	
MB 880-73922/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-39820-1
Project/Site: Trionyx C Federal #01H SDG: 3276

GC Semi VOA (Continued)

Prep Batch: 73922 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-73922/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-73922/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-39820-10 MS	C-10, 1.5'	Total/NA	Solid	8015NM Prep	
880-39820-10 MSD	C-10, 1.5'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 74008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39820-1	C-1, 1'	Total/NA	Solid	8015 NM	
880-39820-2	C-2, 1'	Total/NA	Solid	8015 NM	
880-39820-3	C-3, 0-1'	Total/NA	Solid	8015 NM	
880-39820-4	C-4, 4.1'	Total/NA	Solid	8015 NM	
880-39820-5	C-5, 4.1'	Total/NA	Solid	8015 NM	
880-39820-6	C-6, 0-4.1'	Total/NA	Solid	8015 NM	
880-39820-7	C-7, 0-4.1'	Total/NA	Solid	8015 NM	
880-39820-8	C-8, 1.5'	Total/NA	Solid	8015 NM	
880-39820-9	C-9, 1.5'	Total/NA	Solid	8015 NM	
880-39820-10	C-10, 1.5'	Total/NA	Solid	8015 NM	
880-39820-11	C-10, 1.5'	Total/NA	Solid	8015 NM	
880-39820-12	BF-1	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 73914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39820-4	C-4, 4.1'	Soluble	Solid	DI Leach	
880-39820-5	C-5, 4.1'	Soluble	Solid	DI Leach	
880-39820-6	C-6, 0-4.1'	Soluble	Solid	DI Leach	
880-39820-7	C-7, 0-4.1'	Soluble	Solid	DI Leach	
880-39820-8	C-8, 1.5'	Soluble	Solid	DI Leach	
880-39820-9	C-9, 1.5'	Soluble	Solid	DI Leach	
880-39820-10	C-10, 1.5'	Soluble	Solid	DI Leach	
880-39820-11	C-10, 1.5'	Soluble	Solid	DI Leach	
880-39820-12	BF-1	Soluble	Solid	DI Leach	
MB 880-73914/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-73914/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-73914/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-39820-11 MS	C-10, 1.5'	Soluble	Solid	DI Leach	
880-39820-11 MSD	C-10, 1.5'	Soluble	Solid	DI Leach	

Leach Batch: 73915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39820-1	C-1, 1'	Soluble	Solid	DI Leach	
880-39820-2	C-2, 1'	Soluble	Solid	DI Leach	
880-39820-3	C-3, 0-1'	Soluble	Solid	DI Leach	
MB 880-73915/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-73915/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-73915/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 73923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39820-4	C-4, 4.1'	Soluble	Solid	300.0	73914

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-39820-1
Project/Site: Trionyx C Federal #01H SDG: 3276

HPLC/IC (Continued)

Analysis Batch: 73923 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39820-5	C-5, 4.1'	Soluble	Solid	300.0	73914
880-39820-6	C-6, 0-4.1'	Soluble	Solid	300.0	73914
880-39820-7	C-7, 0-4.1'	Soluble	Solid	300.0	73914
880-39820-8	C-8, 1.5'	Soluble	Solid	300.0	73914
880-39820-9	C-9, 1.5'	Soluble	Solid	300.0	73914
880-39820-10	C-10, 1.5'	Soluble	Solid	300.0	73914
880-39820-11	C-10, 1.5'	Soluble	Solid	300.0	73914
880-39820-12	BF-1	Soluble	Solid	300.0	73914
MB 880-73914/1-A	Method Blank	Soluble	Solid	300.0	73914
LCS 880-73914/2-A	Lab Control Sample	Soluble	Solid	300.0	73914
LCSD 880-73914/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	73914
880-39820-11 MS	C-10, 1.5'	Soluble	Solid	300.0	73914
880-39820-11 MSD	C-10, 1.5'	Soluble	Solid	300.0	73914

Analysis Batch: 73927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39820-1	C-1, 1'	Soluble	Solid	300.0	73915
880-39820-2	C-2, 1'	Soluble	Solid	300.0	73915
880-39820-3	C-3, 0-1'	Soluble	Solid	300.0	73915
MB 880-73915/1-A	Method Blank	Soluble	Solid	300.0	73915
LCS 880-73915/2-A	Lab Control Sample	Soluble	Solid	300.0	73915
LCSD 880-73915/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	73915

Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-39820-1
Project/Site: Trionyx C Federal #01H SDG: 3276

Client Sample ID: C-1, 1' — Lab Sample ID: 880-39820-1

Date Collected: 02/20/24 14:00 **Matrix: Solid**
Date Received: 02/23/24 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	73934	02/23/24 14:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73977	02/24/24 13:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74029	02/24/24 13:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			74008	02/23/24 20:12	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	73913	02/23/24 09:41	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73917	02/23/24 20:12	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	73915	02/23/24 10:13	SMC	EET MID
Soluble	Analysis	300.0		1			73927	02/23/24 21:21	CH	EET MID

Client Sample ID: C-2, 1' — Lab Sample ID: 880-39820-2

Date Collected: 02/20/24 14:01 **Matrix: Solid**
Date Received: 02/23/24 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	73934	02/23/24 14:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73977	02/24/24 14:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74029	02/24/24 14:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			74008	02/23/24 20:36	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	73913	02/23/24 09:41	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73917	02/23/24 20:36	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	73915	02/23/24 10:13	SMC	EET MID
Soluble	Analysis	300.0		1			73927	02/23/24 21:28	CH	EET MID

Client Sample ID: C-3, 0-1' — Lab Sample ID: 880-39820-3

Date Collected: 02/20/24 14:02 **Matrix: Solid**
Date Received: 02/23/24 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	73934	02/23/24 14:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73977	02/24/24 14:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74029	02/24/24 14:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			74008	02/23/24 20:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	73913	02/23/24 09:41	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73917	02/23/24 20:59	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	73915	02/23/24 10:13	SMC	EET MID
Soluble	Analysis	300.0		1			73927	02/23/24 21:35	CH	EET MID

Client Sample ID: C-4, 4.1' — Lab Sample ID: 880-39820-4

Date Collected: 02/20/24 14:03 **Matrix: Solid**
Date Received: 02/23/24 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	73934	02/23/24 14:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73977	02/24/24 14:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74029	02/24/24 14:59	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-39820-1
Project/Site: Trionyx C Federal #01H SDG: 3276

Client Sample ID: C-4, 4.1' Lab Sample ID: 880-39820-4

Date Collected: 02/20/24 14:03 **Matrix: Solid**
Date Received: 02/23/24 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			74008	02/23/24 21:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	73913	02/23/24 09:41	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73917	02/23/24 21:22	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	73914	02/23/24 10:01	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	73923	02/23/24 12:33	SMC	EET MID

Client Sample ID: C-5, 4.1' Lab Sample ID: 880-39820-5

Date Collected: 02/20/24 14:04 **Matrix: Solid**
Date Received: 02/23/24 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	73934	02/23/24 14:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73977	02/24/24 15:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74029	02/24/24 15:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			74008	02/23/24 21:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	73913	02/23/24 09:41	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73917	02/23/24 21:46	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	73914	02/23/24 10:01	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	73923	02/23/24 12:40	SMC	EET MID

Client Sample ID: C-6, 0-4.1' Lab Sample ID: 880-39820-6

Date Collected: 02/20/24 14:05 **Matrix: Solid**
Date Received: 02/23/24 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	73934	02/23/24 14:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73977	02/24/24 15:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74029	02/24/24 15:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			74008	02/23/24 22:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	73913	02/23/24 09:41	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73917	02/23/24 22:09	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	73914	02/23/24 10:01	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	73923	02/23/24 13:01	SMC	EET MID

Client Sample ID: C-7, 0-4.1' Lab Sample ID: 880-39820-7

Date Collected: 02/20/24 14:06 **Matrix: Solid**
Date Received: 02/23/24 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	73934	02/23/24 14:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73977	02/24/24 16:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74029	02/24/24 16:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			74008	02/23/24 22:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	73913	02/23/24 09:41	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73917	02/23/24 22:32	SM	EET MID

Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-39820-1
Project/Site: Trionyx C Federal #01H SDG: 3276

Client Sample ID: C-7, 0-4.1' Lab Sample ID: 880-39820-7

Date Collected: 02/20/24 14:06 **Matrix: Solid**
Date Received: 02/23/24 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	73914	02/23/24 10:01	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	73923	02/23/24 13:08	SMC	EET MID

Client Sample ID: C-8, 1.5' Lab Sample ID: 880-39820-8

Date Collected: 02/20/24 14:07 **Matrix: Solid**
Date Received: 02/23/24 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	73934	02/23/24 14:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73977	02/24/24 16:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74029	02/24/24 16:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			74008	02/23/24 22:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	73913	02/23/24 09:41	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73917	02/23/24 22:55	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	73914	02/23/24 10:01	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	73923	02/23/24 13:15	SMC	EET MID

Client Sample ID: C-9, 1.5' Lab Sample ID: 880-39820-9

Date Collected: 02/20/24 14:08 **Matrix: Solid**
Date Received: 02/23/24 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	73934	02/23/24 14:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73977	02/24/24 16:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74029	02/24/24 16:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			74008	02/23/24 23:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	73913	02/23/24 09:41	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73917	02/23/24 23:18	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	73914	02/23/24 10:01	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	73923	02/23/24 13:21	SMC	EET MID

Client Sample ID: C-10, 1.5' Lab Sample ID: 880-39820-10

Date Collected: 02/20/24 14:09 **Matrix: Solid**
Date Received: 02/23/24 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	73934	02/23/24 14:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73977	02/24/24 17:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74029	02/24/24 17:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			74008	02/25/24 01:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	73922	02/23/24 11:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73919	02/25/24 01:27	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	73914	02/23/24 10:01	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	73923	02/23/24 13:28	SMC	EET MID

Lab Chronicle

Client: Larson & Associates, Inc.
Job ID: 880-39820-1
Project/Site: Trionyx C Federal #01H
SDG: 3276

Client Sample ID: C-10, 1.5'
Lab Sample ID: 880-39820-11
Date Collected: 02/20/24 14:10
Matrix: Solid
Date Received: 02/23/24 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	73934	02/23/24 14:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73977	02/24/24 18:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74029	02/24/24 18:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			74008	02/25/24 02:33	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	73922	02/23/24 11:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73919	02/25/24 02:33	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	73914	02/23/24 10:01	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	73923	02/23/24 13:35	SMC	EET MID

Client Sample ID: BF-1
Lab Sample ID: 880-39820-12
Date Collected: 02/20/24 14:11
Matrix: Solid
Date Received: 02/23/24 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	73934	02/23/24 14:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73977	02/24/24 18:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74029	02/24/24 18:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			74008	02/25/24 02:55	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	73922	02/23/24 11:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73919	02/25/24 02:55	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	73914	02/23/24 10:01	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	73923	02/23/24 13:56	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Larson & Associates, Inc. Job ID: 880-39820-1
Project/Site: Trionyx C Federal #01H SDG: 3276

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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

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

Method Summary

Client: Larson & Associates, Inc. Job ID: 880-39820-1
Project/Site: Trionyx C Federal #01H SDG: 3276

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: Trionyx C Federal #01H

Job ID: 880-39820-1
SDG: 3276

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-39820-1	C-1, 1'	Solid	02/20/24 14:00	02/23/24 08:20
880-39820-2	C-2, 1'	Solid	02/20/24 14:01	02/23/24 08:20
880-39820-3	C-3, 0-1'	Solid	02/20/24 14:02	02/23/24 08:20
880-39820-4	C-4, 4.1'	Solid	02/20/24 14:03	02/23/24 08:20
880-39820-5	C-5, 4.1'	Solid	02/20/24 14:04	02/23/24 08:20
880-39820-6	C-6, 0-4.1'	Solid	02/20/24 14:05	02/23/24 08:20
880-39820-7	C-7, 0-4.1'	Solid	02/20/24 14:06	02/23/24 08:20
880-39820-8	C-8, 1.5'	Solid	02/20/24 14:07	02/23/24 08:20
880-39820-9	C-9, 1.5'	Solid	02/20/24 14:08	02/23/24 08:20
880-39820-10	C-10, 1.5'	Solid	02/20/24 14:09	02/23/24 08:20
880-39820-11	C-10, 1.5'	Solid	02/20/24 14:10	02/23/24 08:20
880-39820-12	BF-1	Solid	02/20/24 14:11	02/23/24 08:20

39820

No. 3276

CHAIN-OF-CUSTODY

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

DATE 2/23/2024 PAGE 1 OF 1

PO# _____ LAB WORK ORDER# _____

PROJECT LOCATION OR NAME: Trionyx 6 Federal #01H

LAI PROJECT # 23-012-01 COLLECTOR: RW

Data Reported to

TRRP report? ☐ Yes ☑ No

TIME ZONE: Time zone/State MST/NM

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

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-1, 1'		2-20-24	1400	S	1				X		X		X	X	X																	Direct Bill to Devon
C-2, 1'			1401																													
C-3, 0-1'			1402																													
C-4, 4.1'			1403																													
C-5, 4.1			1404																													
C-6, 0-4.1'			1405																													
C-7, 0-4.1'			1406																													
C-8, 1.5'			1407																													
C-9 1.5'			1408																													
C-10, 1.5'			1409																													
C-11, 0-1.5'			1410																													
BF-1,			1411																													
TOTAL																																

880-39820 Chain of Custody

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
	2-23-24 0820	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

TURN AROUND TIME

NORMAL ☐
1 DAY ☑ ASAP
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:

RECEIVING TEMP -0.6/0.5 THERM# IR8 -10

CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED

☐ CARRIER BILL # _____

☑ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-39820-1
SDG Number: 3276

Login Number: 39820
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 3/8/2024 4:33:23 PM

JOB DESCRIPTION

Trionyx 6 Federal #1H
3067

JOB NUMBER

880-40441-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Holly Taylor

Generated
3/8/2024 4:33:23 PM

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

Client: Larson & Associates, Inc.
Project/Site: Trionyx 6 Federal #1H

Laboratory Job ID: 880-40441-1
SDG: 3067

Table of Contents

Definitions/Glossary

Client: Larson & Associates, Inc. Job ID: 880-40441-1
Project/Site: Trionyx 6 Federal #1H SDG: 3067

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Larson & Associates, Inc. Job ID: 880-40441-1
Project: Trionyx 6 Federal #1H

Job ID: 880-40441-1 Eurofins Midland

Job Narrative
880-40441-1

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 3/7/2024 8:37 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: C-6 0-4.1 (880-40441-1), C-8 4.1 (880-40441-2) and C-9 4.1 (880-40441-3).

GC VOA
Method 8021B: The method blank for preparation batch 880-74995 and analytical batch 880-74981 contained Benzene 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.

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-75057 and analytical batch 880-75049 was outside the upper control limits.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-75049 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour limit, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-75049/5).

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: Trionyx 6 Federal #1H

Job ID: 880-40441-1
SDG: 3067

Client Sample ID: C-6 0-4.1

Lab Sample ID: 880-40441-1

Date Collected: 03/06/24 17:01
Date Received: 03/07/24 08:37

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/07/24 12:12	03/07/24 20:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/07/24 12:12	03/07/24 20:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/07/24 12:12	03/07/24 20:56	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		03/07/24 12:12	03/07/24 20:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/07/24 12:12	03/07/24 20:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/07/24 12:12	03/07/24 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*03/07/24 12:12*	*03/07/24 20:56*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*03/07/24 12:12*	*03/07/24 20:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/07/24 20:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/08/24 12:34	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/08/24 10:24	03/08/24 12:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/08/24 10:24	03/08/24 12:34	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/08/24 10:24	03/08/24 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*116*		*70 - 130*	*03/08/24 10:24*	*03/08/24 12:34*	*1*
o-Terphenyl (Surr)	*104*		*70 - 130*	*03/08/24 10:24*	*03/08/24 12:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**48.5**		5.02		mg/Kg			03/07/24 19:44	1

Client Sample ID: C-8 4.1

Lab Sample ID: 880-40441-2

Date Collected: 03/06/24 17:01
Date Received: 03/07/24 08:37

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:12	03/07/24 21:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:12	03/07/24 21:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:12	03/07/24 21:17	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		03/07/24 12:12	03/07/24 21:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:12	03/07/24 21:17	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/07/24 12:12	03/07/24 21:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*75*		*70 - 130*	*03/07/24 12:12*	*03/07/24 21:17*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*03/07/24 12:12*	*03/07/24 21:17*	*1*

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-40441-1
Project/Site: Trionyx 6 Federal #1H SDG: 3067

Client Sample ID: C-8 4.1 Lab Sample ID: 880-40441-2

Date Collected: 03/06/24 17:01 **Matrix: Solid**
Date Received: 03/07/24 08:37

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			03/07/24 21:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**105**		50.2		mg/Kg			03/08/24 12:56	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	<50.2	U	50.2		mg/Kg		03/08/24 10:24	03/08/24 12:56	1
Diesel Range Organics (Over C10-C28)	**105**		50.2		mg/Kg		03/08/24 10:24	03/08/24 12:56	1
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		03/08/24 10:24	03/08/24 12:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*03/08/24 10:24*	*03/08/24 12:56*	*1*
o-Terphenyl (Surr)	*79*		*70 - 130*	*03/08/24 10:24*	*03/08/24 12:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**685**		5.02		mg/Kg			03/07/24 19:48	1

Client Sample ID: C-9 4.1 Lab Sample ID: 880-40441-3

Date Collected: 03/06/24 17:02 **Matrix: Solid**
Date Received: 03/07/24 08:37

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/07/24 12:12	03/07/24 21:37	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/07/24 12:12	03/07/24 21:37	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/07/24 12:12	03/07/24 21:37	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		03/07/24 12:12	03/07/24 21:37	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/07/24 12:12	03/07/24 21:37	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/07/24 12:12	03/07/24 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*75*		*70 - 130*	*03/07/24 12:12*	*03/07/24 21:37*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*03/07/24 12:12*	*03/07/24 21:37*	*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			03/07/24 21:37	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**74.1**		50.5		mg/Kg			03/08/24 13:17	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		03/08/24 10:24	03/08/24 13:17	1
Diesel Range Organics (Over C10-C28)	**74.1**		50.5		mg/Kg		03/08/24 10:24	03/08/24 13:17	1

Client Sample Results

Client: Larson & Associates, Inc. Job ID: 880-40441-1
Project/Site: Trionyx 6 Federal #1H SDG: 3067

Client Sample ID: C-9 4.1 **Lab Sample ID: 880-40441-3**
Date Collected: 03/06/24 17:02 **Matrix: Solid**
Date Received: 03/07/24 08:37

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		03/08/24 10:24	03/08/24 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*106*		*70 - 130*	*03/08/24 10:24*	*03/08/24 13:17*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*03/08/24 10:24*	*03/08/24 13:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1050**		5.01		mg/Kg			03/07/24 19:53	1

Surrogate Summary

Client: Larson & Associates, Inc. Job ID: 880-40441-1
Project/Site: Trionyx 6 Federal #1H SDG: 3067

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)
880-40441-1	C-6 0-4.1	78	91
880-40441-2	C-8 4.1	75	90
880-40441-3	C-9 4.1	75	90
LCS 880-74995/1-A	Lab Control Sample	107	118
LCSD 880-74995/2-A	Lab Control Sample Dup	109	117
MB 880-74995/5-A	Method Blank	74	92

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)
880-40441-1	C-6 0-4.1	116	104
880-40441-2	C-8 4.1	89	79
880-40441-3	C-9 4.1	106	94
LCS 880-75057/2-A	Lab Control Sample	107	120
LCSD 880-75057/3-A	Lab Control Sample Dup	104	109
MB 880-75057/1-A	Method Blank	133 S1+	126

Surrogate Legend

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

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: Trionyx 6 Federal #1H

Job ID: 880-40441-1
SDG: 3067

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-74995/5-A
Matrix: Solid
Analysis Batch: 74981

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 74995

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:12	03/07/24 14:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:12	03/07/24 14:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:12	03/07/24 14:02	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		03/07/24 12:12	03/07/24 14:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:12	03/07/24 14:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/07/24 12:12	03/07/24 14:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*74*		*70 - 130*	*03/07/24 12:12*	*03/07/24 14:02*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*03/07/24 12:12*	*03/07/24 14:02*	*1*

Lab Sample ID: LCS 880-74995/1-A
Matrix: Solid
Analysis Batch: 74981

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 74995

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1031		mg/Kg		103	70 - 130		
Toluene			0.100	0.1121		mg/Kg		112	70 - 130		
Ethylbenzene			0.100	0.1199		mg/Kg		120	70 - 130		
m,p-Xylenes			0.200	0.2456		mg/Kg		123	70 - 130		
o-Xylene			0.100	0.1210		mg/Kg		121	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*

Lab Sample ID: LCSD 880-74995/2-A
Matrix: Solid
Analysis Batch: 74981

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 74995

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1018		mg/Kg		102	70 - 130	1	35
Toluene			0.100	0.1117		mg/Kg		112	70 - 130	0	35
Ethylbenzene			0.100	0.1167		mg/Kg		117	70 - 130	3	35
m,p-Xylenes			0.200	0.2406		mg/Kg		120	70 - 130	2	35
o-Xylene			0.100	0.1185		mg/Kg		118	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-40441-1
Project/Site: Trionyx 6 Federal #1H SDG: 3067

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

Lab Sample ID: MB 880-75057/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 75049 **Prep Batch: 75057**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/08/24 07:24	03/08/24 07:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/08/24 07:24	03/08/24 07:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/08/24 07:24	03/08/24 07:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*133*	*S1+*	*70 - 130*	*03/08/24 07:24*	*03/08/24 07:53*	*1*
o-Terphenyl (Surr)	*126*		*70 - 130*	*03/08/24 07:24*	*03/08/24 07:53*	*1*

Lab Sample ID: LCS 880-75057/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 75049 **Prep Batch: 75057**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1079		mg/Kg		108	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	972.3		mg/Kg		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*107*		*70 - 130*
o-Terphenyl (Surr)	*120*		*70 - 130*

Lab Sample ID: LCSD 880-75057/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 75049 **Prep Batch: 75057**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1029		mg/Kg		103	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	926.7		mg/Kg		93	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*104*		*70 - 130*
o-Terphenyl (Surr)	*109*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-74966/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 75023

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/07/24 17:40	1

QC Sample Results

Client: Larson & Associates, Inc. Job ID: 880-40441-1
Project/Site: Trionyx 6 Federal #1H SDG: 3067

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-74966/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 75023

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	246.9		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-74966/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 75023

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	260.2		mg/Kg		104	90 - 110	5	20

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-40441-1
Project/Site: Trionyx 6 Federal #1H SDG: 3067

GC VOA

Analysis Batch: 74981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40441-1	C-6 0-4.1	Total/NA	Solid	8021B	74995
880-40441-2	C-8 4.1	Total/NA	Solid	8021B	74995
880-40441-3	C-9 4.1	Total/NA	Solid	8021B	74995
MB 880-74995/5-A	Method Blank	Total/NA	Solid	8021B	74995
LCS 880-74995/1-A	Lab Control Sample	Total/NA	Solid	8021B	74995
LCSD 880-74995/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	74995

Prep Batch: 74995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40441-1	C-6 0-4.1	Total/NA	Solid	5035	
880-40441-2	C-8 4.1	Total/NA	Solid	5035	
880-40441-3	C-9 4.1	Total/NA	Solid	5035	
MB 880-74995/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-74995/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-74995/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 75080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40441-1	C-6 0-4.1	Total/NA	Solid	Total BTEX	
880-40441-2	C-8 4.1	Total/NA	Solid	Total BTEX	
880-40441-3	C-9 4.1	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 75049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40441-1	C-6 0-4.1	Total/NA	Solid	8015B NM	75057
880-40441-2	C-8 4.1	Total/NA	Solid	8015B NM	75057
880-40441-3	C-9 4.1	Total/NA	Solid	8015B NM	75057
MB 880-75057/1-A	Method Blank	Total/NA	Solid	8015B NM	75057
LCS 880-75057/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	75057
LCSD 880-75057/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	75057

Prep Batch: 75057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40441-1	C-6 0-4.1	Total/NA	Solid	8015NM Prep	
880-40441-2	C-8 4.1	Total/NA	Solid	8015NM Prep	
880-40441-3	C-9 4.1	Total/NA	Solid	8015NM Prep	
MB 880-75057/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-75057/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-75057/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 75115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40441-1	C-6 0-4.1	Total/NA	Solid	8015 NM	
880-40441-2	C-8 4.1	Total/NA	Solid	8015 NM	
880-40441-3	C-9 4.1	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Larson & Associates, Inc. Job ID: 880-40441-1
Project/Site: Trionyx 6 Federal #1H SDG: 3067

HPLC/IC

Leach Batch: 74966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40441-1	C-6 0-4.1	Soluble	Solid	DI Leach	
880-40441-2	C-8 4.1	Soluble	Solid	DI Leach	
880-40441-3	C-9 4.1	Soluble	Solid	DI Leach	
MB 880-74966/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-74966/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-74966/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 75023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40441-1	C-6 0-4.1	Soluble	Solid	300.0	74966
880-40441-2	C-8 4.1	Soluble	Solid	300.0	74966
880-40441-3	C-9 4.1	Soluble	Solid	300.0	74966
MB 880-74966/1-A	Method Blank	Soluble	Solid	300.0	74966
LCS 880-74966/2-A	Lab Control Sample	Soluble	Solid	300.0	74966
LCSD 880-74966/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	74966

Lab Chronicle

Client: Larson & Associates, Inc. Job ID: 880-40441-1
Project/Site: Trionyx 6 Federal #1H SDG: 3067

Client Sample ID: C-6 0-4.1 Lab Sample ID: 880-40441-1

Date Collected: 03/06/24 17:01 **Matrix: Solid**
Date Received: 03/07/24 08:37

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	74995	03/07/24 12:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74981	03/07/24 20:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75080	03/07/24 20:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			75115	03/08/24 12:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	75057	03/08/24 10:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75049	03/08/24 12:34	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	74966	03/07/24 13:21	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	75023	03/07/24 19:44	CH	EET MID

Client Sample ID: C-8 4.1 Lab Sample ID: 880-40441-2

Date Collected: 03/06/24 17:01 **Matrix: Solid**
Date Received: 03/07/24 08:37

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	74995	03/07/24 12:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74981	03/07/24 21:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75080	03/07/24 21:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			75115	03/08/24 12:56	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	75057	03/08/24 10:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75049	03/08/24 12:56	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	74966	03/07/24 13:21	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	75023	03/07/24 19:48	CH	EET MID

Client Sample ID: C-9 4.1 Lab Sample ID: 880-40441-3

Date Collected: 03/06/24 17:02 **Matrix: Solid**
Date Received: 03/07/24 08:37

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	74995	03/07/24 12:12	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74981	03/07/24 21:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75080	03/07/24 21:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			75115	03/08/24 13:17	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	75057	03/08/24 10:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75049	03/08/24 13:17	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	74966	03/07/24 13:21	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	75023	03/07/24 19:53	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: 880-40441-1
Project/Site: Trionyx 6 Federal #1H SDG: 3067

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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

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

Method Summary

Client: Larson & Associates, Inc. Job ID: 880-40441-1
Project/Site: Trionyx 6 Federal #1H SDG: 3067

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: Trionyx 6 Federal #1H

Job ID: 880-40441-1
SDG: 3067

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-40441-1	C-6 0-4.1	Solid	03/06/24 17:01	03/07/24 08:37
880-40441-2	C-8 4.1	Solid	03/06/24 17:01	03/07/24 08:37
880-40441-3	C-9 4.1	Solid	03/06/24 17:02	03/07/24 08:37

40441

No. 3067

CHAIN-OF-CUSTODY

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

Data Reported to

DATE. 3/7/2024 PAGE 1 OF 1
PO#
LAB WORK ORDER#
PROJECT LOCATION OR NAME TRIONYX 6 FEDERAL # 1H
LAI PROJECT #
COLLECTOR RN

TRRP report? ☐ Yes ☒ No

TIME ZONE Time zone/State: MNT/NM

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

ANALYSES: BTEX ☒ MTBE ☐ / TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ / GASOLINE MOD 8015 ☒ / DIESEL - MOD 8015 ☒ / OIL - MOD 8015 ☒ / VOC 8260 ☐ / SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ / 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ / 8082 PCBS ☐ TCLP VOC ☐ / TCLP - METALS (RCRA) ☐ TCLP Semi-VOC ☐ / TCLP - PEST ☐ HERB ☐ OTHER LIST ☐ / TOTAL METALS (RCRA) ☐ D W 200 8 ☐ TCLP ☐ / LEAD - TOTAL ☐ FLASHPOINT ☐ / RCI ☐ TOX ☐ % MOISTURE ☐ / TDS ☐ TSS ☐ 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	GASOLINE MOD 8015	DIESEL - MOD 8015	OIL - MOD 8015	CHLORIDE	FIELD NOTES
C-6 0-4'		3/6/24	1701	S	1				X		X	X	X	X	X	DIRECT BILL
C-8 4'		3/6/24	1701	S	1				X		X	X	X	X	X	TO DEVON
C-9 4'		3/6/24	1702	S	1				X		X	X	X	X	X	

TOTAL 3

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
[signature]	3/7/24 0837	[signature]
	3-7-24 8:37	

LABORATORY Xenco

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

LABORATORY USE ONLY:
RECEIVING TEMP 0.9 THERM# 0.8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

880-40441 Chain of Custody

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-40441-1
SDG Number: 3067

Login Number: 40441
List Number: 1
Creator: Wheeler, Jazmine

List Source: Eurofins Midland

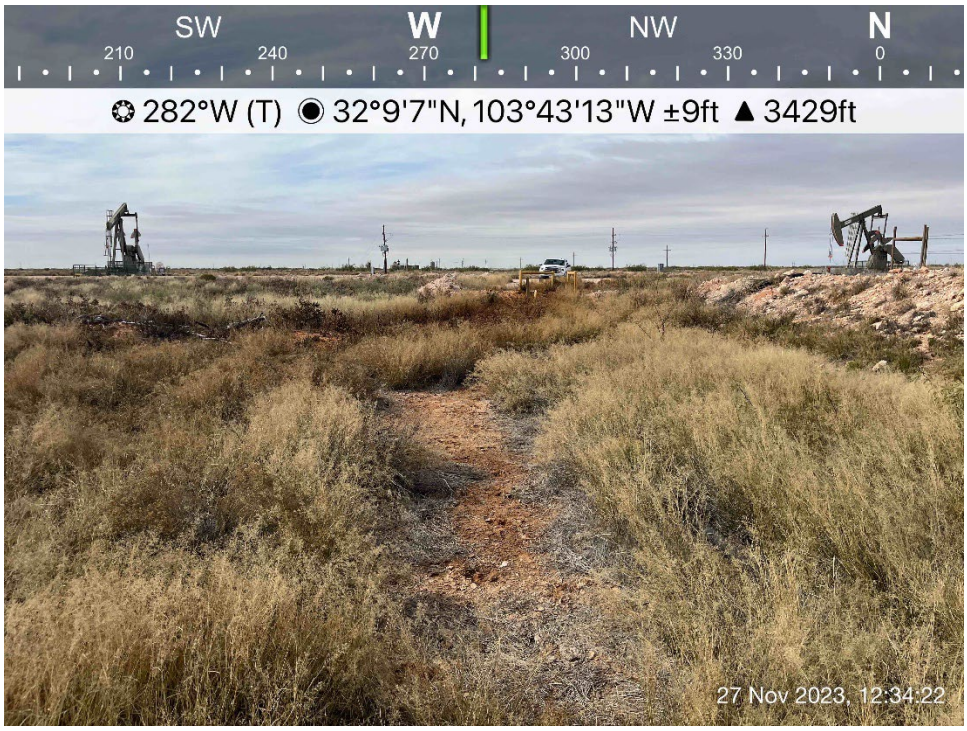
Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature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

Appendix G

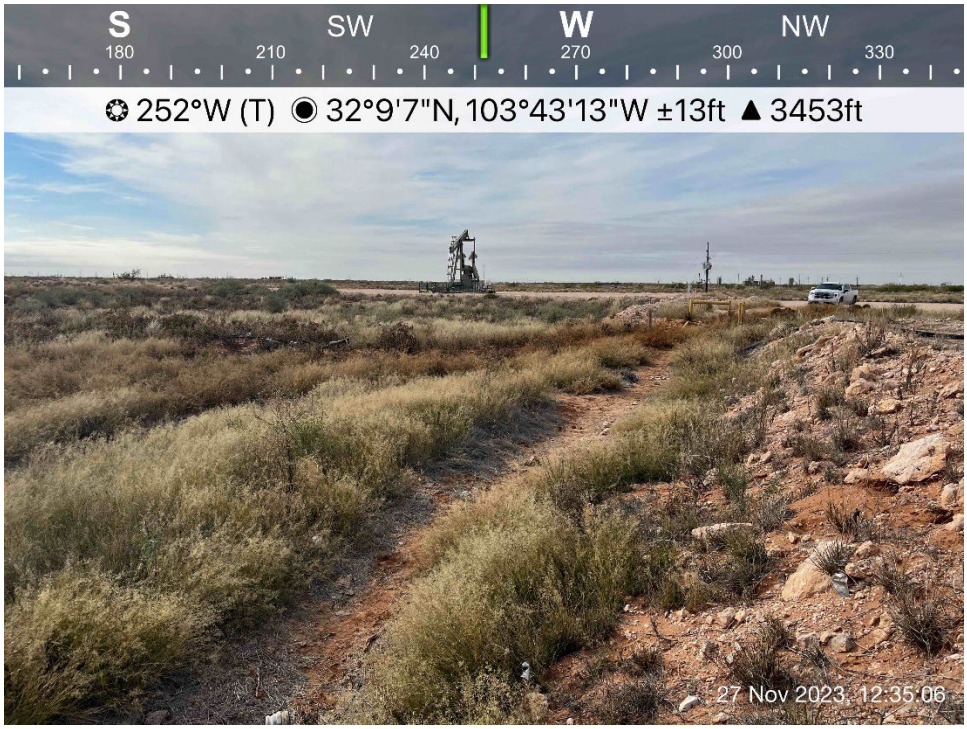
Photographs

Initial spill area viewing southeast, November 27, 2023

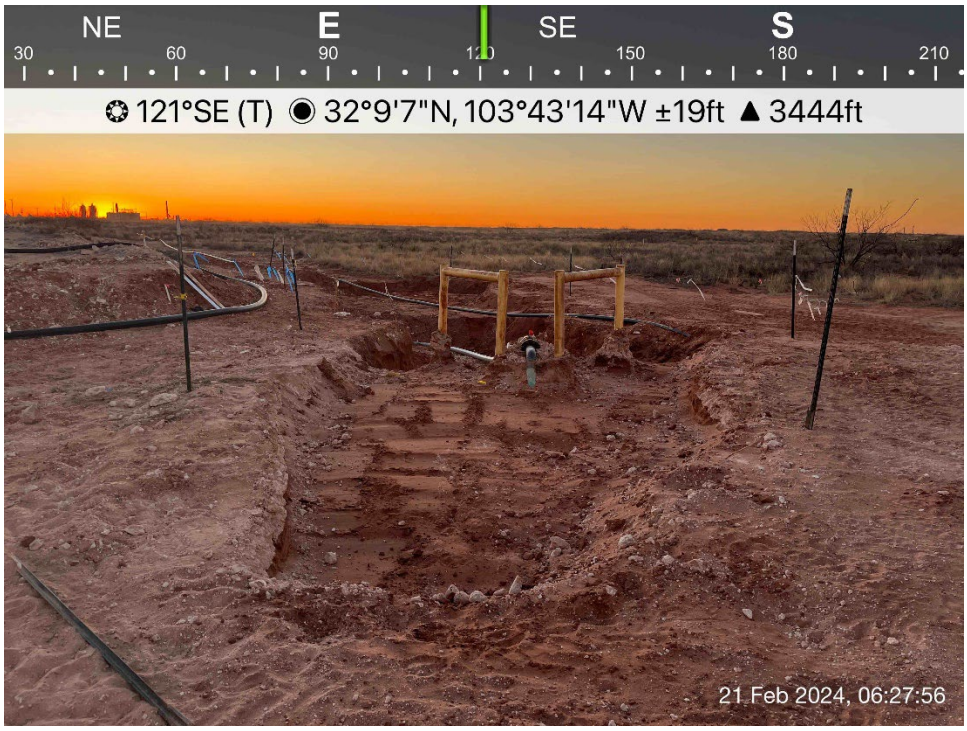
Initial spill area viewing east, November 27, 2023



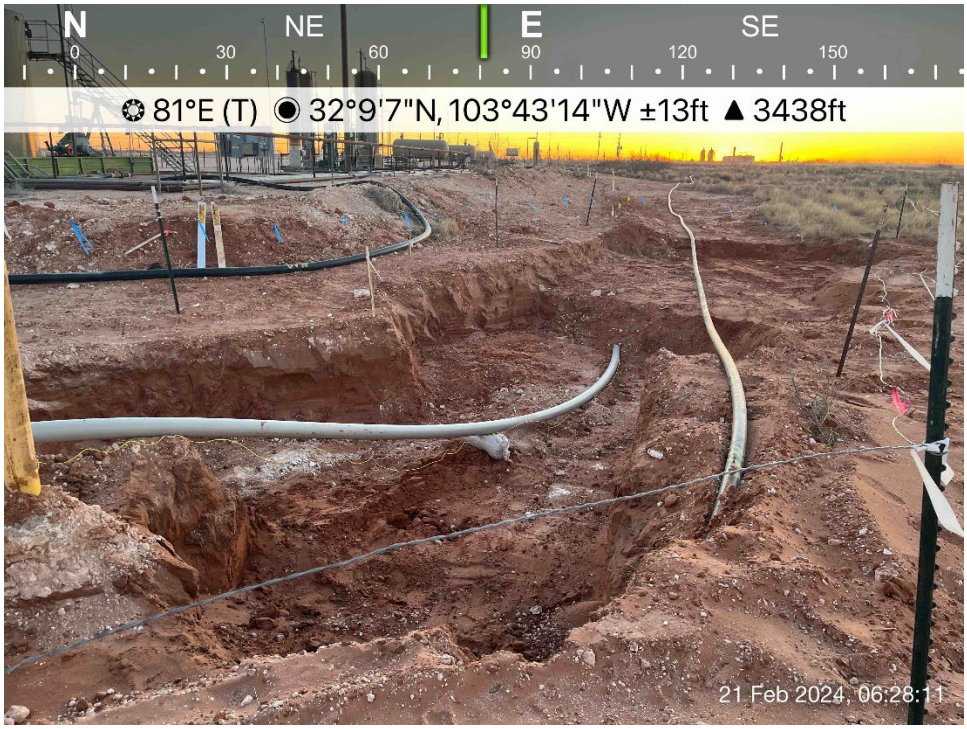
Initial spill area viewing west, November 27, 2023



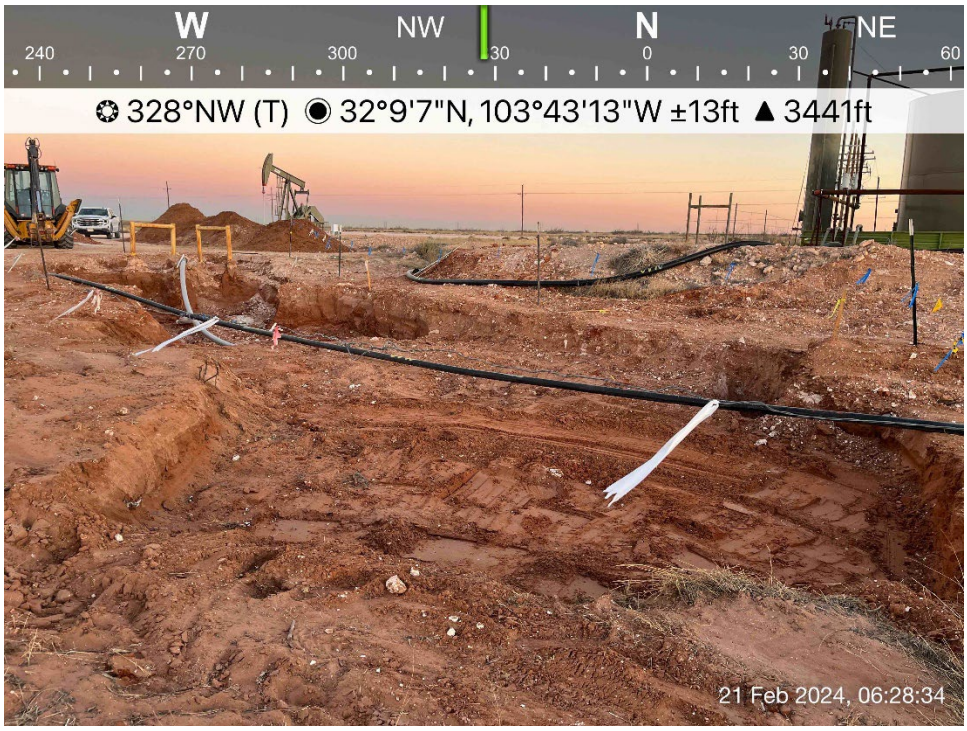
Initial spill area viewing west, November 27, 2023



Excavated soil viewing southeast, February 21, 2024

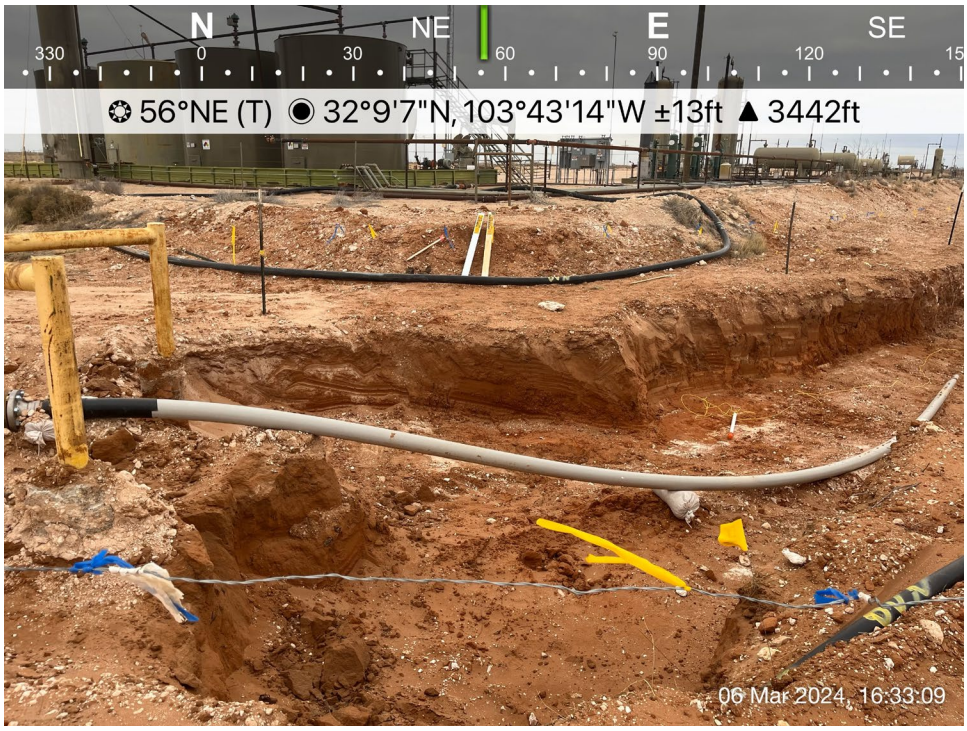


Excavated soil viewing east, February 21, 2024

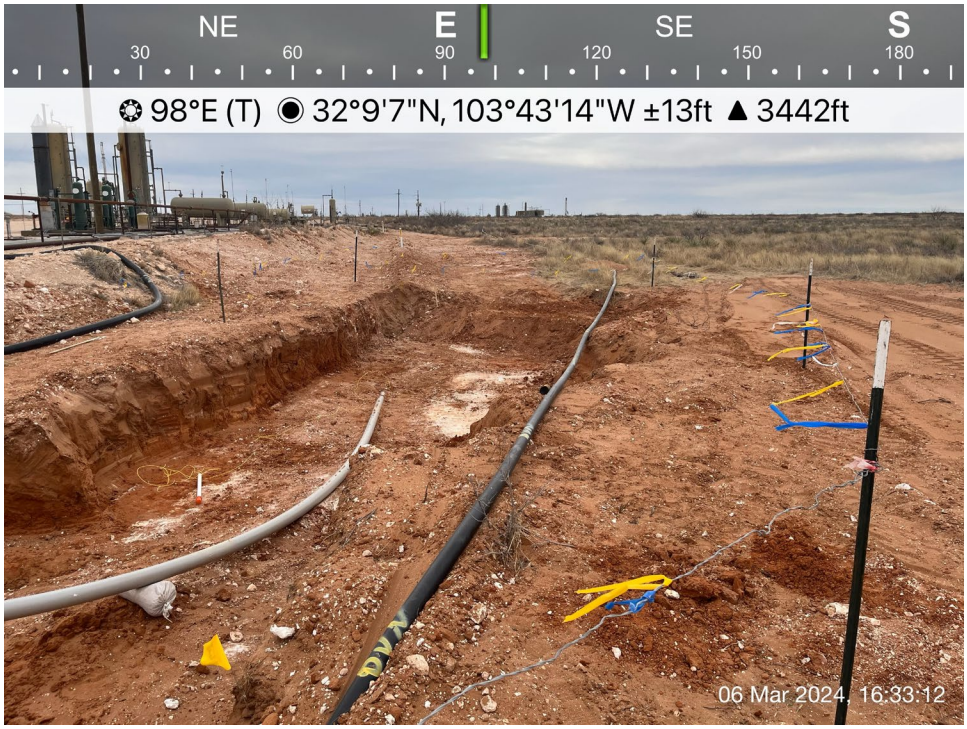


Excavated soil viewing northeast, February 21, 2024

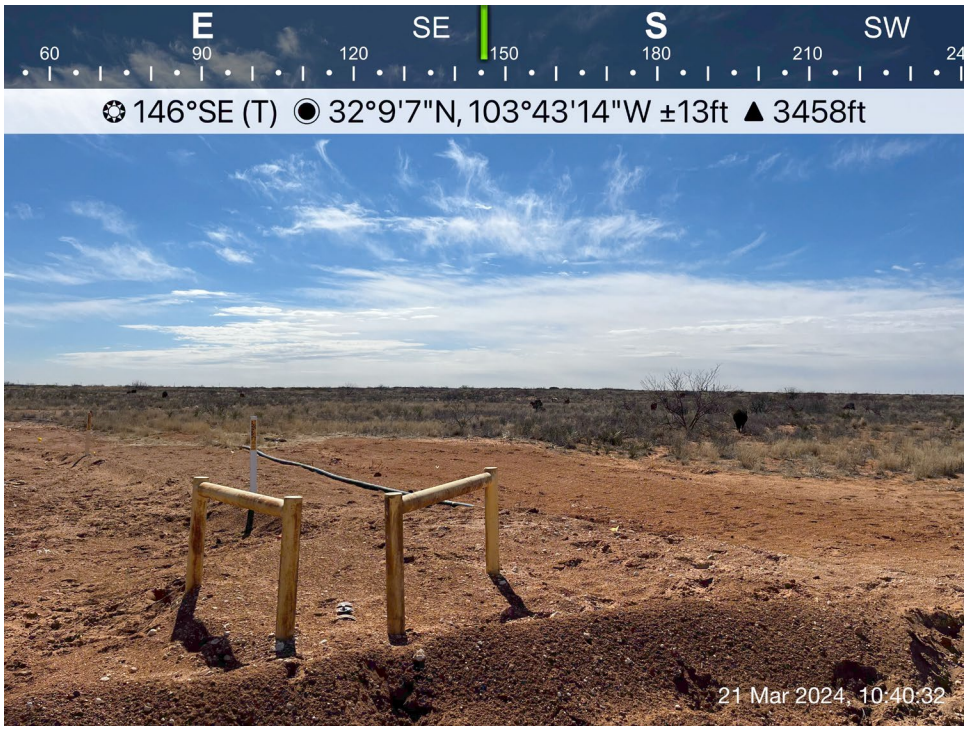
Excavated soil viewing west, February 21,2024



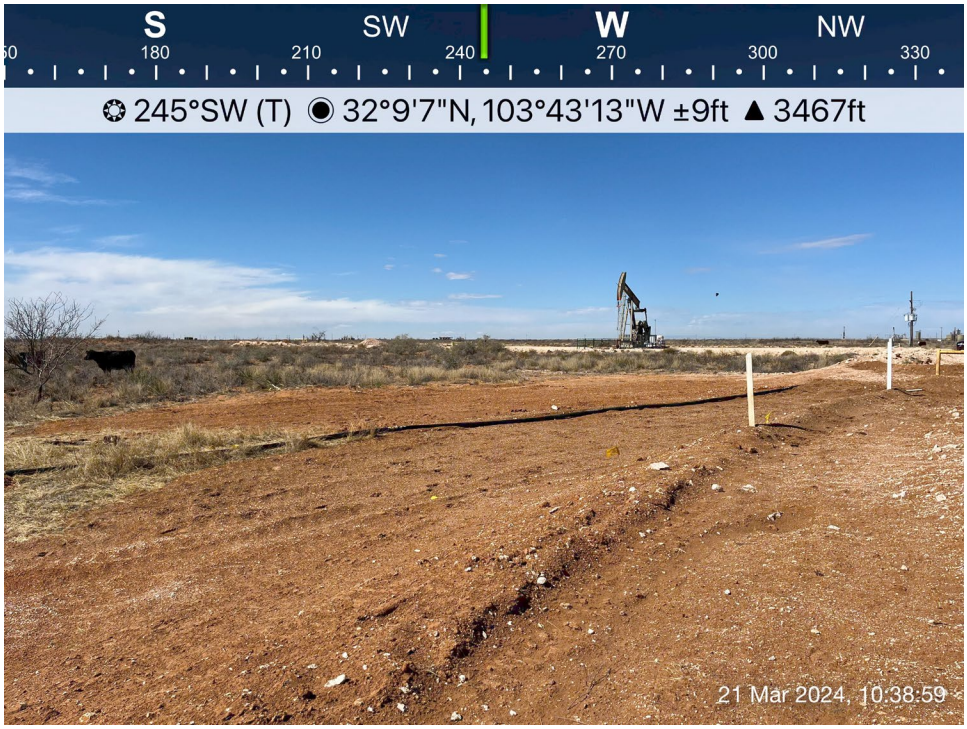
Additional excavated soil encompassing C-6, March 6, 2024



Additional excavated soil encompassing C-8 and C-9, March 6, 2024

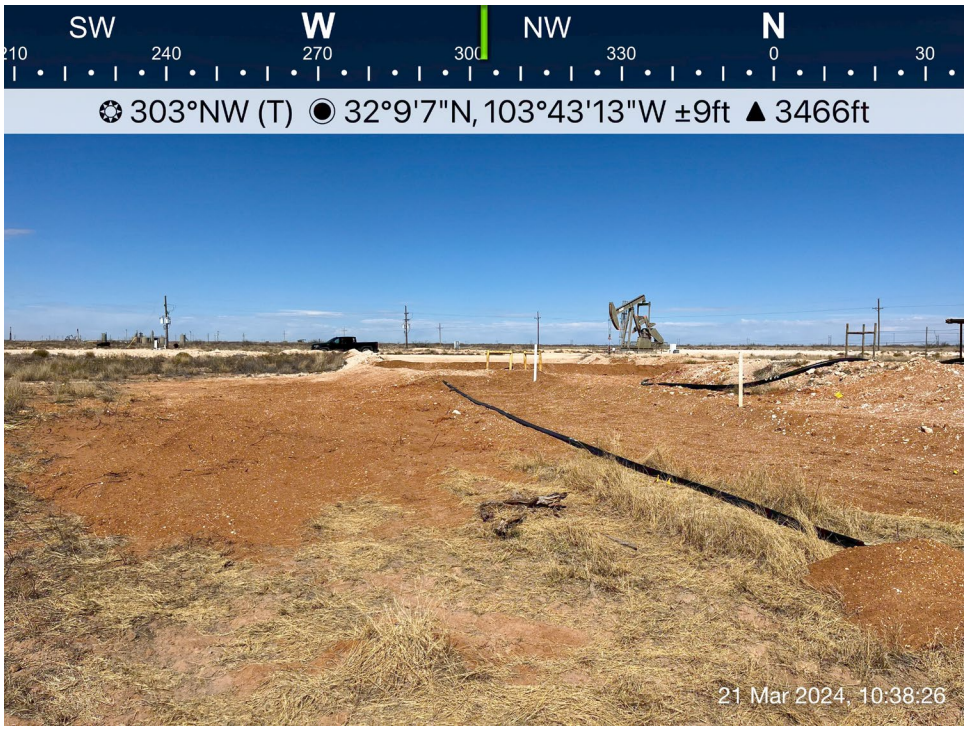


Backfilled and seeded excavation area viewing southeast, March 21, 2024



Backfilled and seeded excavation area viewing southwest, March 21, 2024

Tracking Number: nAPP2332025304
Closure Report – Crude Oil and Produced Water Release
Devon Energy, Trionyx 6 Federal #001H
March 21, 2024



Backfilled and seeded excavation area viewing northwest, March 21, 2024

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

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

QUESTIONS

Action 326924

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 326924
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2332025304**
Incident Name	**NAPP2332025304 TRIONYX 6 FEDERAL #001H @ 30-025-39948**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**
Incident Well	**[30-025-39948] TRIONYX 6 FEDERAL #001H**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	TRIONYX 6 FEDERAL #001H
Date Release Discovered	11/15/2023
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure | Flow Line - Production | Crude Oil | Released: 0 BBL | Recovered: 0 BBL | Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure | Flow Line - Production | Produced Water | Released: 1 BBL | Recovered: 0 BBL | Lost: 1 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Operator was on location working and heard a loud pop. Operator found the flow line from the Trionyx 6-11 had ruptured. The valve was closed on the inlet header going to the facility. Well was shut in. Leak was offsite. Estimated 0.8 bbls of oil/water mix spilled offsite. there was no recovery

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 326924
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**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	*Unavailable.*
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	False
If all the actions described above have not been undertaken, explain why	no fluids recovered. they soaked into the ground
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: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dvn.com Date: 03/26/2024

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QUESTIONS (continued)

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QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 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	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	1050
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	371
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	02/13/2024
On what date will (or did) the final sampling or liner inspection occur	03/06/2024
On what date will (or was) the remediation complete(d)	03/21/2024
What is the estimated surface area (in square feet) that will be reclaimed	1386
What is the estimated volume (in cubic yards) that will be reclaimed	184
What is the estimated surface area (in square feet) that will be remediated	1260
What is the estimated volume (in cubic yards) that will be remediated	120
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

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QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	R360 Artesia LLC LANDFARM [fEEM0112340644]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dvn.com Date: 03/26/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

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QUESTIONS

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

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QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**319755**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**03/06/2024**
What was the (estimated) number of samples that were to be gathered	**3**
What was the sampling surface area in square feet	**600**

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	1260
What was the total volume (cubic yards) remediated	120
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	1386
What was the total volume (in cubic yards) reclaimed	184
Summarize any additional remediation activities not included by answers (above)	Reclaimed area was seeded with BLM Mix #2

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.

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QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 326924

CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	5/3/2024
scott.rodgers	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	5/3/2024