

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2220866101
District RP	
Facility ID	
Application ID	

Closure

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 (electronic submittals in .pdf format are preferred) 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.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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.

Printed Name: Matthew Krakow

Title: HES Professional

Signature: Matthew Krakow
Digitally signed by HC16
 DN: cn=HC16, ou=FDY
 Date: 2022.10.26 14:34:00 -06'00'

Date: _____

email: MJKrakow@Marathonpetroleum.com

Telephone: 505-632-4169

OCD Only

Received by: Jocelyn Harimon

Date: 10/26/2022

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Jennifer Nobai

Date: 11/22/22

Printed Name: Jennifer Nobai

Title: Environmental Specialist A



October 14, 2022

New Mexico Oil Conservation Division
1220 South St, Francis Drive
Santa Fe, NM 87505

Re: Closure Report
CTB 130 Wild Weasels
Western Refining Pipeline LLC
Incident #: nAPP2220866101
Site Location: Unit G, S22, T25S, R34E
(Lat 32.119246°, Long -103.457176°)
Lea County, New Mexico

To whom it may concern:

On behalf of Western Refining Pipeline, LLC, Earth Systems Response & Restoration (ESRR) has prepared this letter to document the CTB 130 Wild Weasels (site) release assessment and remediation activities. The site is located at 32.119246°, -103.457176° within Unit G, S22, T25S, R34E, in Lea County, New Mexico.

Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on July 27, 2022, due to a plunger failing on a pump. It resulted in approximately twenty-nine (29) barrels of crude oil spilling on to the unlined caliche pad with fifteen (15) barrels of crude oil recovered. The impacted area measured approximately 132 feet (ft) long by 33 to 77 ft wide with a total square footage of approximately 7,268 square (sq.) ft.

Site Characterization

Based on a review of the New Mexico Office of State Engineers and United States Geological Survey (USGS) databases, the site is located in a low karst potential area and there are no known water features within a 0.50-mile radius of the location. The nearest identified well is located approximately 0.99 miles northeast of the site in S15, T25S, R34E. The monitoring well has a reported depth to groundwater of 165 feet (ft) below ground surface (bgs) and was drilled in 1991.

Regulatory Criteria

The following criteria were utilized in assessing and remediating the site per client request and in accordance with the NMOCD regulatory criteria established in 19.15.29.12 NMAC,

Surface – 4 ft. bgs

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (Total BTEX): 50 mg/kg
- TPH: 100 mg/kg (GRO + DRO + ORO)
- Chloride: 600 mg/kg

CTB 130 Wild Weasels
Western Refining Pipeline, LLC
Incident #: nAPP2220866101



Site Assessment

On July 28, 2022, ESRR conducted site assessment activities to assess soil impacts resulting from the release. A total of fifteen (15) soil borings were advanced to depths ranging from surface to 3.0 ft bgs within and surrounding the release area to assess potential impacts vertically and horizontally. Additionally, a five-point composite soil sample was collected for waste characterization analysis. The collected soils samples were placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The soil samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015 Modified and chloride by EPA method 300.0. The laboratory reports containing analytical methods, results, and chain-of custody documents are attached. The initial assessment soil sample analytical results are provided in Table 1.

Soils represented by soil boring HA-5 exhibited TPH concentrations exceeding NMOCD regulatory criteria at depths of 0.5 - 1 ft bgs at a concentration of 516 milligrams per kilogram (mg/kg).

Remediation Activities and Confirmation Sampling

ESRR was onsite July 28 – 29, 2022 and August 9 – September 15, 2022 performing soil remediation activities. Prior to commencing excavation activities utilizing a backhoe and hydrovac trucks, nine (9) buried utility lines were hand spotted within the perimeter of the unlined caliche pad. The impacted soils were excavated to depths of 0.5 or 2 feet (ft.) below grade surface (bgs). Upon excavation, the excavated soils were stockpiled onsite on top of plastic liner to await transport to the Northern Delaware Basin Landfill (NDBL), a state regulated disposal facility. Approximately 350 cubic yards of impacted material was excavated and transported offsite via dump truck for proper disposal. On August 11, 2022, subsequent to excavation activities, confirmation samples were collected from within the excavation. A total of thirty-six (36) confirmation samples were collected (SC-1 through SC-36) and eight (8) sidewall samples (SW-1 through SW-8) were collected every 200 square feet to ensure removal of the impacted soils. All collected samples were analyzed for TPH analysis by EPA method 8015 Modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Laboratory analytical data suggests soils exceeding NMOCD regulatory criteria have not been removed and additional excavation is required.

ESRR resumed soil remediation activities by utilizing a backhoe and hydrovac trucks to advance the excavation to total depth of 2 ft. bgs. The excavated soils were stockpiled on top of plastic liner to await treatment with Evergreen Oil Eliminator and subsequent sampling activities. The additional excavation activities were completed on August 30, 2022. Subsequent to excavation activities, confirmation samples were collected from the floor of the excavation. A total of thirty-six (36) confirmation soil samples were collected (CS-1 through CS-36), four (4) sidewall samples (SW-9 through SW-12), and one stockpile soil sample (SP-1) were collected every 200 square feet to ensure removal of the impacted soils. All collected samples were analyzed for TPH analysis by EPA method 8015 Modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Laboratory analytical data suggests that soils associated with confirmation soil samples CS-17 (2-2.5), CS-32 (2-2.5), and SW-10 exceed NMOCD regulatory criteria and additional excavation is required. Additionally, it was determined the stockpiled soil would not be utilized as backfill and would be transported to NDBL for final disposal.

CTB 130 Wild Weasels
Western Refining Pipeline, LLC
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ESRR resumed soil remediation activities by utilizing a backhoe to advance the excavation in the select areas to a depth of 2.5 ft. bgs. Upon excavation, the approximately 47 cubic yards excavated soils were added to the present stockpile onsite on top of plastic liner to await transport to final disposal. Approximately 397 cubic yards of impacted material was then transported via dump truck to the NDBL for final disposal. The additional excavation activities were completed on September 13, 2022. Subsequent to excavation activities, confirmation samples were collected from within the areas of additional excavation. A total of two (2) confirmation samples were collected (CS-17 (2.5-3) and CS-32 (2.5-3)) and one (1) sidewall sample (SW-13) were collected to ensure removal of the impacted soils. All collected samples were analyzed for TPH analysis by EPA method 8015 Modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Laboratory analytical data suggests that all impacted soils exceeding NMOCD regulatory criteria have been removed.

Subsequent to laboratory analytical data review, the excavated area was backfilled with clean locally sourced caliche material from a depth of 2.5 ft bgs to surface and leveled.

The confirmation soil sample analytical results are provided in Table 2. Additionally, copies of laboratory analysis and chain-of-custody documentation are attached. See Figures 3, 4, and 5 for excavation depths and confirmation soil sample locations.

Conclusions

Based on the assessment findings, onsite remediation activities, and laboratory analytical results, no further actions are required at the site. The final C-141 is attached, and Western Pipeline Refining, LLC formally requests closure of the spill. If you have any questions regarding this report or need additional information, please contact us at 432-894-6385.

Sincerely,

Tom Carlson
Tom Carlson, GIT
Project Manager

K. Williams
Kris Williams, CHMM, REM
Operations Manager

Attached: Table 1 - Summary of Delineation Soil Analytical Data
 Table 2 - Summary of Confirmation Soil Analytical Data
 Figure 1 – Site Location Map
 Figure 2 – Delineation Soil Sample Locations and Site Map – 7/28/2022
 Figure 3 – Confirmation Soil Sample Locations and Site Map – 8/11/2022
 Figure 4 – Confirmation Soil Sample Locations and Site Map – 8/29/2022
 Figure 5 – Confirmation Soil Sample Locations and Site Map – 9/13/2022
 Photographic Log
 Groundwater Research
 Laboratory Analytical Reports
 NMOCD Form C-141

Table 1 - Summary of Delineation Soil Analytical Results Marathon Petroleum - CTB 130 32.1197, -103.4578 Lea County, New Mexico							
			Chlorides (mg/kg)	Gasoline Range Organics (GRO)-C6-C10 (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)	Total TPH (mg/kg)
19.15.29 NMAC Remediation Guidelines			600				100
Sample ID	Sample Date	Sample Depth (ft.)					
HA-1	7/28/2022	0.5 - 1	26.9	<49.9	<49.9	<49.9	<49.9
		1.5 - 2	25.5	<50.0	<50.0	<50.0	<50.0
		2.5 - 3R	9.79	<50.0	<50.0	<50.0	<50.0
HA-2	7/28/2022	0.5 - 1	16.9	<49.9	50.4	<49.9	50.4
		1.5 - 2	10.0	<50.0	<50.0	<50.0	<50.0
		2.5 - 3R	14.3	<49.9	<49.9	<49.9	<49.9
HA-3	7/28/2022	0.5 - 1	17.3	<50.0	<50.0	<50.0	<50.0
		1.5 - 2R	11.8	<49.9	<49.9	<49.9	<49.9
HA-4	7/28/2022	0.5 - 1	13.0	<50.0	98.8	<50.0	98.8
		1.5 - 2	29.7	<49.9	<49.9	<49.9	<49.9
		2.5 - 3R	12.6	<50.0	<50.0	<50.0	<50.0
HA-5	7/28/2022	0.5 - 1	10.3	124	392	<49.9	516
		1.5 - 2	16.2	<50.0	<50.0	<50.0	<50.0
		2 - 2.5R	20.9	<49.9	<49.9	<49.9	<49.9
HA-6	7/28/2022	0.5 - 1	42.3	<50.0	<50.0	<50.0	<50.0
		1 - 1.5R	48.9	<49.8	<49.8	<49.8	<49.8
HA-7	7/28/2022	0.5 - 1	14.8	<50.0	<50.0	<50.0	<50.0
		1.5 - 2	13.5	<49.9	<49.9	<49.9	<49.9
		2.5 - 3R	31.4	<50.0	<50.0	<50.0	<50.0
HA-8	7/28/2022	0.5 - 1R	25.5	<49.9	<49.9	<49.9	<49.9
P-1	7/28/2022	0 - 0.5	61.8	<49.9	<49.9	<49.9	<49.9
P-2	7/28/2022	0 - 0.5	32.8	<49.9	<49.9	<49.9	<49.9
P-3	7/28/2022	0 - 0.5	29.6	<50.0	<50.0	<50.0	<50.0
P-4	7/28/2022	0 - 0.5	96.6	<49.8	<49.8	<49.8	<49.8
P-5	7/28/2022	0 - 0.5	9.27	<50.0	<50.0	<50.0	<50.0
P-6	7/28/2022	0 - 0.5	188	<49.8	<49.8	<49.8	<49.8
P-7	7/28/2022	0 - 0.5	145	<49.9	<49.9	<49.9	<49.9

Bold and highlighted denotes concentrations that exceed 19.15.29 NMAC.

R = Refusal of soil boring advancement due to onsite soil lithology

Table 2 - Summary of Confirmation Soil Analytical Data Marathon Petroleum - CTB 130 32.1197, -103.4578 Lea County, New Mexico												
			Chlorides (mg/kg)	Gasoline Range Organics (GRO)-C6-C10 (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)	Total TPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)
19.15.29 NMAC Remediation Guidelines			600				100	10				50
Sample ID	Sample Date	Sample Depth (ft.)										
SC-1	8/11/2022	0.5 - 1	6.64	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398
SC-2	8/11/2022	0.5 - 1	5.15	<49.9	76.2	<49.9	76.2	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
SC-3	8/11/2022	0.5 - 1	<5.05	<50.0	1920	255	2,180	<0.00200	<0.00200	<0.00200	0.00632	0.00632
SC-4	8/11/2022	0.5 - 1	<5.01	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
SC-5	8/11/2022	0.5 - 1	5.02	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
SC-6	8/11/2022	0.5 - 1	<5.00	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
SC-7	8/11/2022	0.5 - 1	<5.04	<50.0	623	75.9	699	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404
SC-8	8/11/2022	0.5 - 1	<5.02	<50.0	<50.0	<50.0	<50.0	<0.00200	0.00379	<0.00200	<0.00400	<0.00400
SC-9	8/11/2022	0.5 - 1	0.0700	<49.9	649	88.6	738	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398
SC-10	8/11/2022	0.5 - 1	6.66	<50.0	339	<50.0	339	<0.00200	<0.00200	0.00311	<0.00400	<0.00400
SC-11	8/11/2022	0.5 - 1	<4.99	222	862	110	1,190	<0.00201	0.0406	0.00949	0.0798	0.130
SC-12	8/11/2022	0.5 - 1	9.03	<50.0	1560	220	1,780	<0.00200	<0.00200	<0.00200	0.0102	0.0102
SC-13	8/11/2022	0.5 - 1	5.74	394	1250	152	1,800	<0.00200	0.116	0.104	0.479	0.699
SC-14	8/11/2022	0.5 - 1	10.8	142	2950	369	3,460	<0.00200	0.0921	0.106	0.378	0.576
SC-15	8/11/2022	0.5 - 1	7.98	<49.9	165	<49.9	165	<0.00200	0.0264	0.0750	0.306	0.408
SC-16	8/11/2022	0.5 - 1	9.28	1730	12900	1970	16,600	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
SC-17	8/11/2022	0.5 - 1	10.1	<49.9	287	78.9	366	0.00584	0.0418	0.0269	0.114	0.189
SC-18	8/11/2022	0.5 - 1	9.55	54.9	1770	236	2,060	0.0843	<0.0501	0.130	0.495	0.709
SC-19	8/11/2022	0.5 - 1	5.40	<50.0	62.2	64.4	127	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
SC-20	8/11/2022	0.5 - 1	24.8	<49.8	<49.8	54.1	54.1	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
SC-21	8/11/2022	0.5 - 1	15.6	<49.9	602	83.3	685	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
SC-22	8/11/2022	0.5 - 1	57.0	<49.9	103	<49.9	103	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
SC-23	8/11/2022	2 - 2.5	31.9	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
SC-24	8/11/2022	2 - 2.5	5.60	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399
SC-25	8/11/2022	2 - 2.5	16.9	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
SC-26	8/11/2022	0.5 - 1	5.28	486	1520	221	2,230	<0.00201	0.0881	0.105	0.397	0.590
SC-27	8/11/2022	0.5 - 1	<4.98	490	1440	191	2,120	0.00330	0.0911	0.0728	0.251	0.418
SC-28	8/11/2022	0.5 - 1	9.64	1530	3610	522	5,660	<0.400	20.4	12.4	54.5	87.3
SC-29	8/11/2022	0.5 - 1	<5.01	1650	4900	607	7,160	0.119	5.97	6.16	27.4	39.7
SC-30	8/11/2022	0.5 - 1	15.9	<50.0	314	143	457	<0.00200	<0.00200	0.00300	<0.00400	<0.00400
SC-31	8/11/2022	0.5 - 1	11.5	<49.8	1310	176	1,490	<0.00200	<0.00200	0.00284	0.0149	0.0178
SC-32	8/11/2022	0.5 - 1	22.5	<49.9	999	139	1,140	<0.00200	0.00215	<0.00200	0.00429	0.00644
SC-33	8/11/2022	0.5 - 1	33.1	53.6	1330	162	1,550	<0.00200	<0.00200	0.00607	0.0288	0.0349
SC-34	8/11/2022	0.5 - 1	233	<50.0	385	60.3	445	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
SC-35	8/11/2022	0.5 - 1	248	<49.9	89.3	60.6	150	<0.00200	0.00226	<0.00200	0.0147	0.0169
SC-36	8/11/2022	0.5 - 1	5.92	643	4220	632	5,500	0.00293	0.129	0.151	0.588	0.871
SW-1	8/11/2022	0.5	35.2	<49.9	66.0	106	172	<0.00200	0.00206	<0.00200	<0.00400	<0.00400
SW-2	8/11/2022	0.5	5.32	<49.9	586	62.8	649	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
SW-3	8/11/2022	0.5	640	<50.0	58.9	65.5	124	<0.00200	0.00235	<0.00200	<0.00400	<0.00400
SW-4	8/11/2022	0.5	17.6	<49.8	277	<49.8	277	<0.00200	<0.00200	<0.00200	0.0101	0.0101
SW-5	8/11/2022	1	27.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
SW-6	8/11/2022	1	17.2	<49.9	86.5	<49.9	86.5	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
SW-7	8/11/2022	1	<4.98	3160	4390	<50.0	7,550	0.0112	0.122	0.0571	0.264	0.455
SW-8	8/11/2022	1	22.8	<49.9	195	<49.9	195	<0.00200	<0.00200	<0.00200	0.00405	0.00405
Bold and highlighted denotes concentrations that exceed 19.15.29 NMAC.												

Bold and highlighted denotes concentrations that exceed 19.15.29 NMAC.

Table 2 (cont.) - Summary of Confirmation Soil Analytical Data

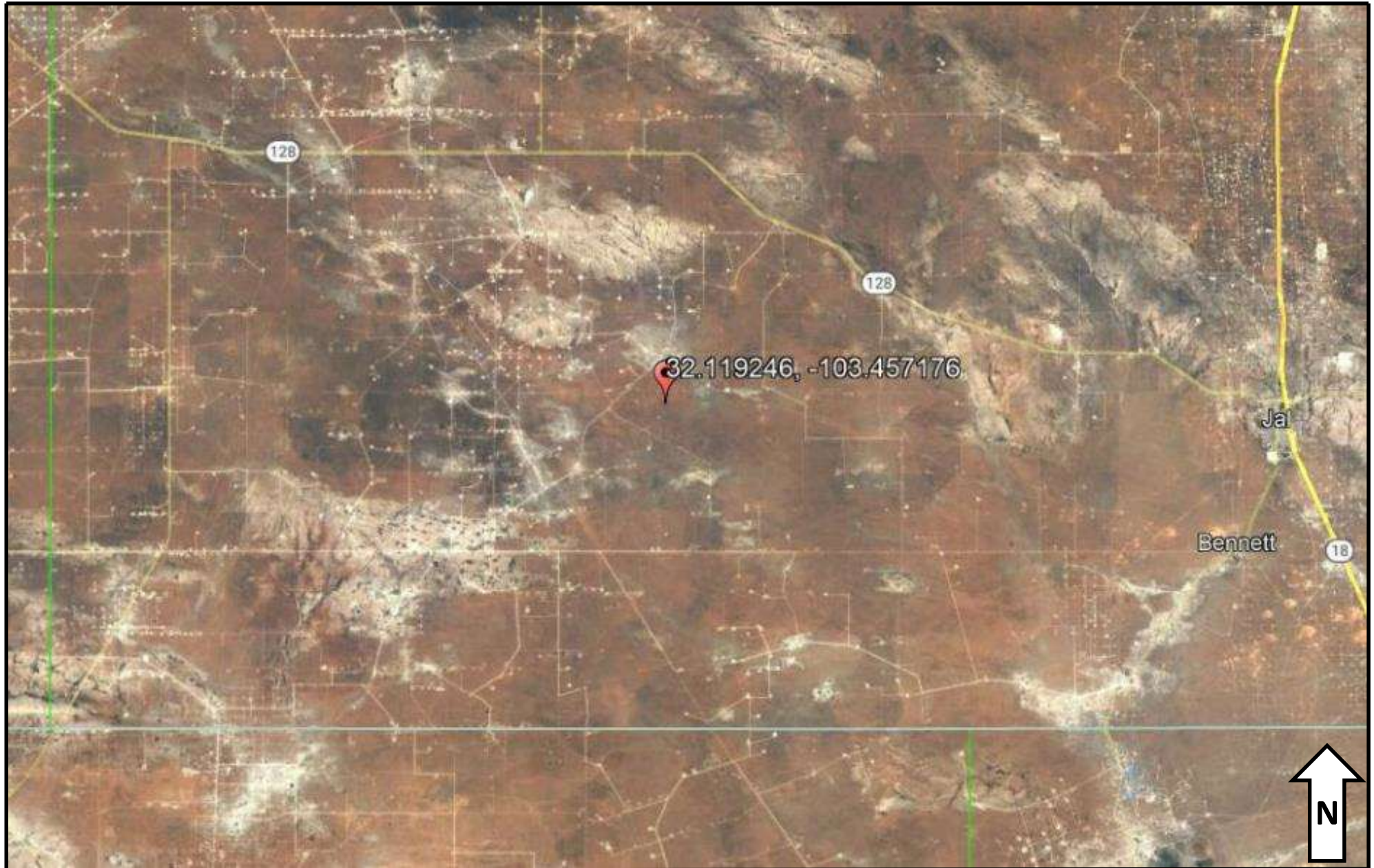
Marathon Petroleum - CTB 130

32.1197, -103.4578

Lea County, New Mexico

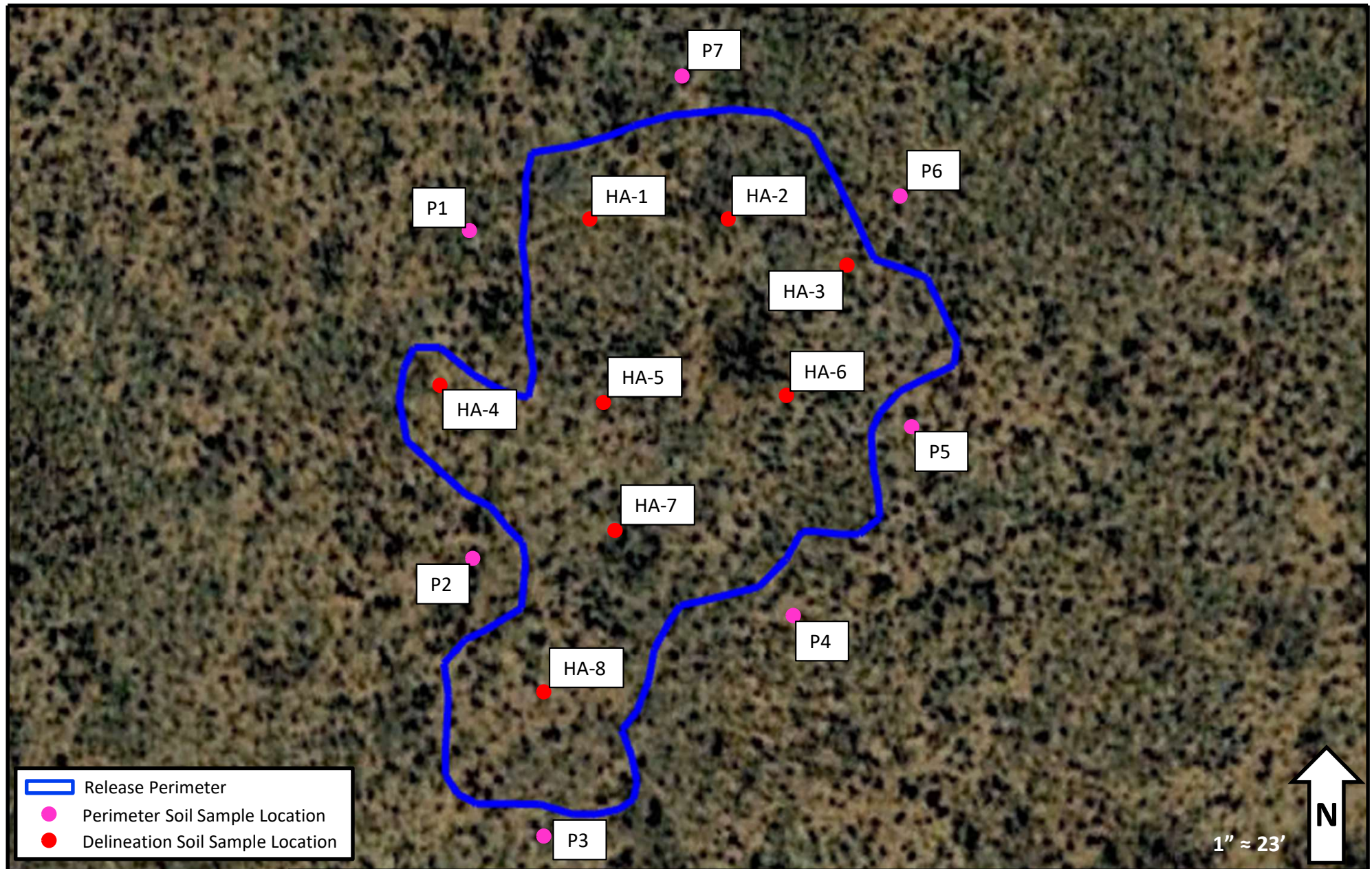
Lea County, New Mexico												
			Chlorides (mg/kg)	Gasoline Range Organics (GRO)-C6-C10 (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)	Total TPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)
19.15.29 NMAC Remediation Guidelines			600				100	10				50
Sample ID	Sample Date	Sample Depth (ft.)										
CS-1	8/29/2022	2 - 2.5	19.4	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402
CS-2	8/29/2022	2 - 2.5	27.7	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399
CS-3	8/29/2022	2 - 2.5	23.8	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398
CS-4	8/29/2022	2 - 2.5	32.9	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399
CS-5	8/29/2022	2 - 2.5	22.8	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401
CS-6	8/29/2022	2 - 2.5	14.9	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399
CS-7	8/29/2022	2 - 2.5	15.1	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398
CS-8	8/29/2022	2 - 2.5	9.82	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399
CS-9	8/29/2022	2 - 2.5	20.7	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402
CS-10	8/29/2022	2 - 2.5	21.6	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399
CS-11	8/29/2022	2 - 2.5	22.1	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398
CS-12	8/29/2022	2 - 2.5	22.9	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403
CS-13	8/29/2022	2 - 2.5	12.5	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402
CS-14	8/29/2022	2 - 2.5	17.1	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403
CS-15	8/29/2022	2 - 2.5	60.8	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399
CS-16	8/29/2022	2 - 2.5	35.4	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396
CS-17	8/29/2022	2 - 2.5	39.2	<50.0	234	<50.0	234	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402
CS-18	8/29/2022	2 - 2.5	21.5	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403
CS-19	8/29/2022	2 - 2.5	26.9	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403
CS-20	8/29/2022	2 - 2.5	40.4	<49.9	64.5	<49.9	64.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399
CS-21	8/29/2022	2 - 2.5	27.2	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402
CS-22	8/29/2022	2 - 2.5	48.1	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398
CS-23	8/29/2022	2 - 2.5	49.6	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399
CS-24	8/29/2022	2 - 2.5	36.8	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398
CS-25	8/29/2022	2 - 2.5	20.3	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402
CS-26	8/29/2022	2 - 2.5	17.9	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398
CS-27	8/29/2022	2 - 2.5	77.2	<50.0	99.0	<50.0	99.0	<0.00199	0.00275	<0.00199	<0.00398	<0.00398
CS-28	8/29/2022	2 - 2.5	24.2	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401
CS-29	8/29/2022	2 - 2.5	21.6	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399
CS-30	8/29/2022	2 - 2.5	19.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398
CS-31	8/29/2022	2 - 2.5	15.1	<50.0	<50.0	<50.0	<50.0	<0.00201	0.00500	0.00488	0.00940	0.0193
CS-32	8/29/2022	2 - 2.5	14.2	<50.0	177	<50.0	177	<0.00200	0.00248	<0.00200	0.00412	0.00660
CS-33	8/29/2022	2 - 2.5	28.4	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399
CS-34	8/29/2022	2 - 2.5	18.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398
CS-35	8/29/2022	2 - 2.5	17.2	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402
CS-36	8/29/2022	2 - 2.5	13.8	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398
SW-9	8/29/2022	0.5 - 1	19.7	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398
SW-10	8/29/2022	0.5 - 1	10.2	<49.9	869	<49.9	869	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402
SW-11	8/29/2022	0.5 - 1	25.4	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401
SW-12	8/29/2022	0.5 - 1	38.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398
SP-1	8/29/2022	N/A	20.0	<49.9	119	<49.9	119	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397
CS-32	9/13/2022	2.5 - 3	22	<49.9	<49.9	<49.9	<49.9	<0.0497	<0.0497	<0.0497	<0.0994	<0.0994
CS-17	9/13/2022	2.5 - 3	14.3	<50	<50	<50	<50	<0.0498	<0.0498	<0.0498	<0.0996	<0.0996
SW-13	9/13/2022	1	10.9	<50	<50	<50	<50	<0.0505	<0.0505	<0.0505	<0.101	<0.101

Bold and highlighted denotes concentrations that exceed 19.15.29 NMAC.



Site Location Map

CTB 130 Wild Weasels
GPS:32.119246, -103.457176
Lea County, New Mexico

**Figure 2 - Delineation Soil Sample Locations and Site Map**

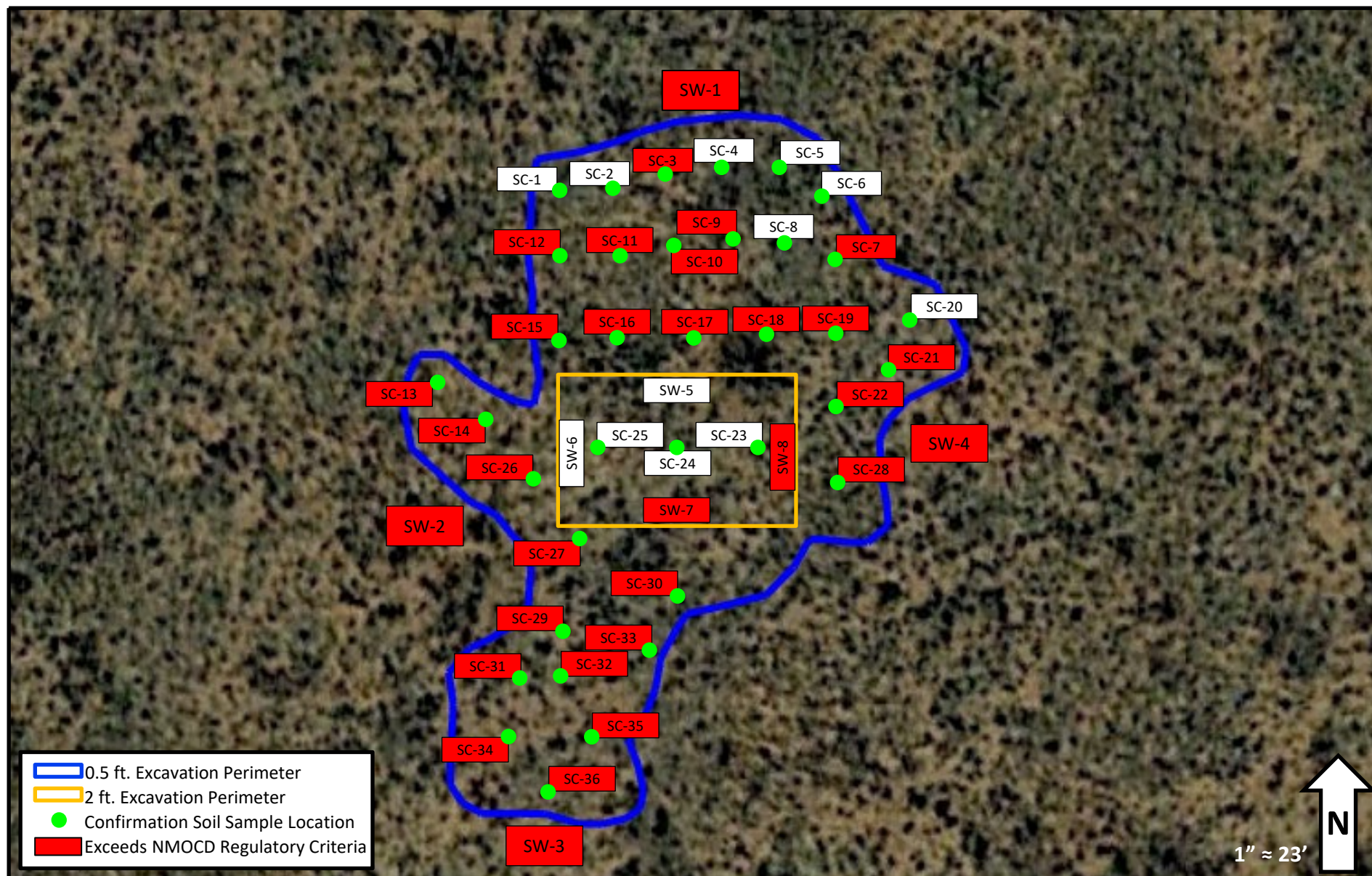


Figure 3 - Confirmation Soil Sample Locations and Site Map – 8/11/2022

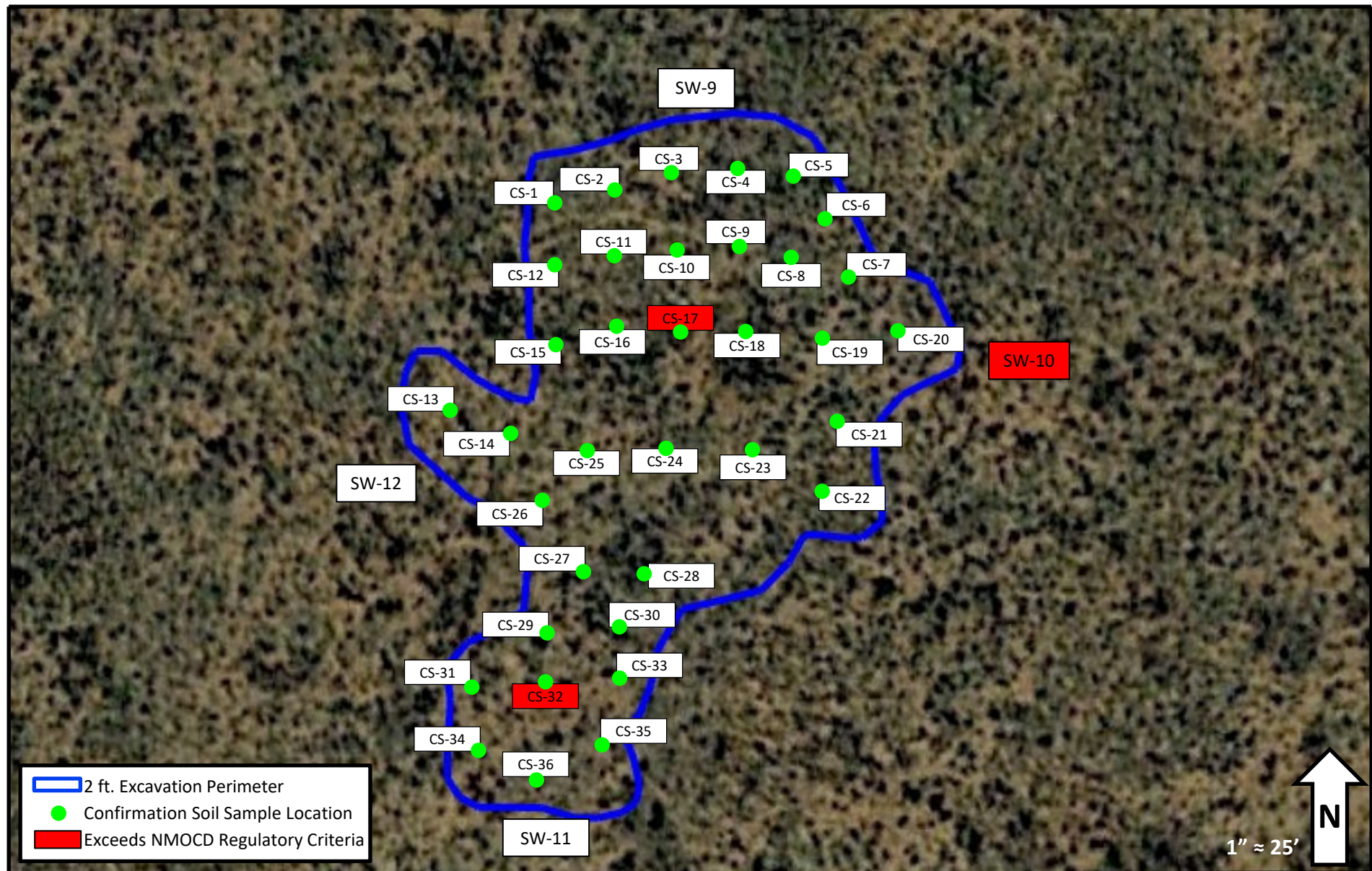


Figure 4 - Confirmation Soil Sample Locations and Site Map – 8/29/2022

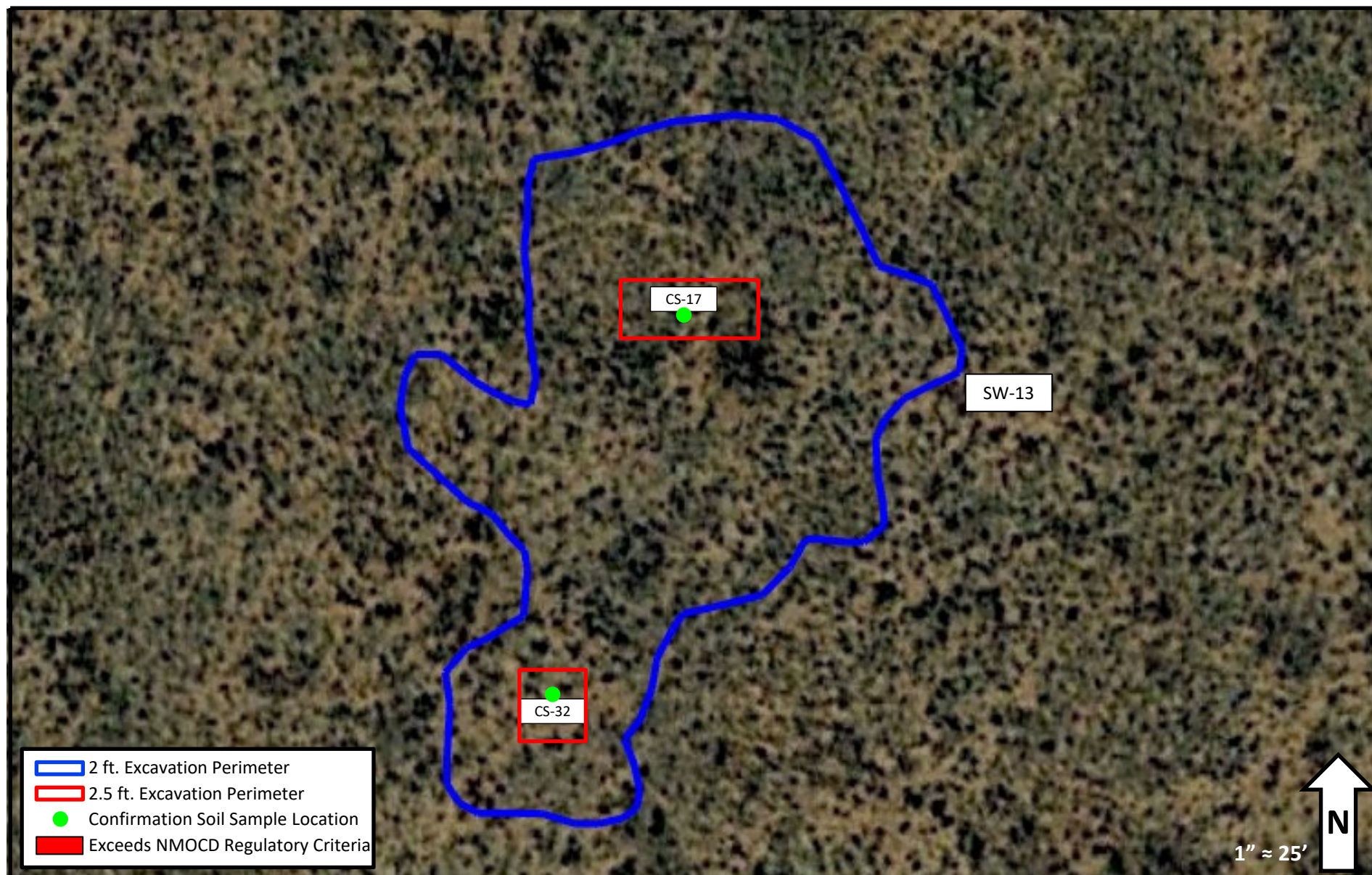


Figure 5 - Confirmation Soil Sample Locations and Site Map – 9/13/2022

CTB 130 Wild Weasels
32.119246, -103.457176
Lea County, New Mexico



PHOTO 1: View of the impacted area facing south. 7/28/22



PHOTO 2: View of the impacted area facing east. 7/28/22

CTB 130 Wild Weasels
32.119246, -103.457176
Lea County, New Mexico



PHOTO 3: View of the impacted area facing west. 7/28/22



PHOTO 4: View of the impacted area facing northwest. 7/28/22

CTB 130 Wild Weasels
32.119246, -103.457176
Lea County, New Mexico



PHOTO 5: View of the excavated area facing west. 8/11/22



PHOTO 6: View of the excavated area facing east. 8/19/22

CTB 130 Wild Weasels
32.119246, -103.457176
Lea County, New Mexico



PHOTO 7: View of the excavated area facing southeast. 8/11/22



PHOTO 8: View of the excavated area facing southeast. 8/29/22

CTB 130 Wild Weasels
32.119246, -103.457176
Lea County, New Mexico



PHOTO 9: View of the excavated area facing southwest. 8/29/22



PHOTO 10: View of the excavated area facing south. 8/29/22

CTB 130 Wild Weasels
32.119246, -103.457176
Lea County, New Mexico



PHOTO 11: View of the remediated area facing east. 9/20/22



PHOTO 12: View of the remediated area facing south. 9/20/22

CTB 130 Wild Weasels
32.119246, -103.457176
Lea County, New Mexico



PHOTO 11: View of the remediated area facing southwest. 9/15/22



PHOTO 12: View of the remediated area facing north. 9/15/22

Groundwater Research

Depth to Groundwater Radius Map

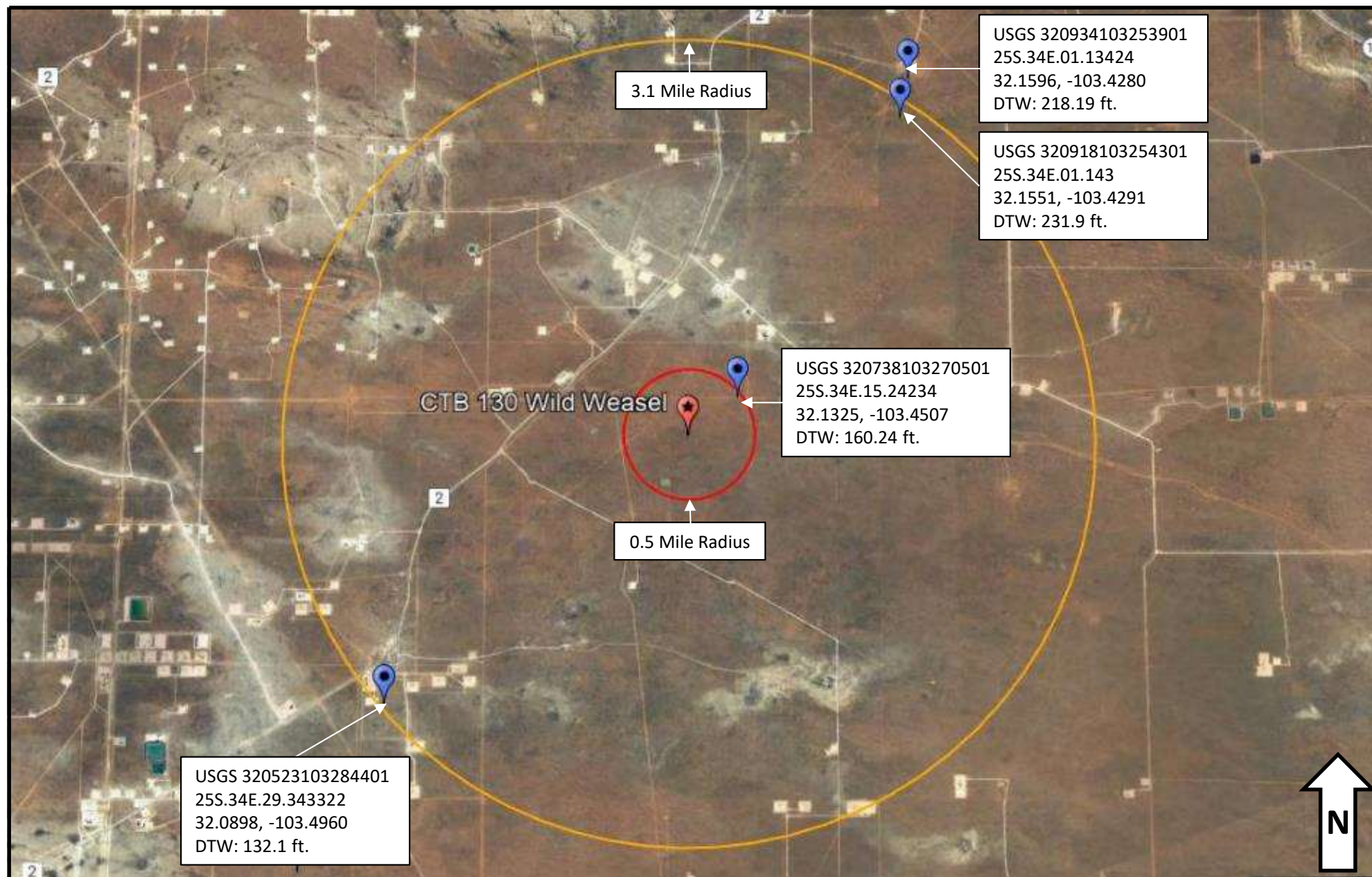
Depth to Groundwater and Water Bodies Map

Karst Potential Map

NMOSE Average Depth to Water

USGS Nation Water Information System

New Mexico NFHL Data

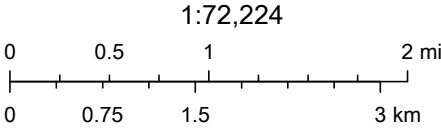


Depth to Groundwater and Water Bodies Map



8/2/2022, 2:07:51 PM

-  CTB 130 Wild Weasels (SITE)
-  USGS Historical GW Wells
-  OSW Water Bodys
-  OSE Streams



Esri, NASA, NGA, USGS, FEMA, Texas Parks & Wildlife, CONANP, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USGS, NM OSE

Karst Potential

Marathon Petroleum

Legend

CTB 130

Low

CTB 130



4000 ft



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02314	CUB	LE		2	4	2	15	25S	34E	646116	3556179	1566	175	135	40
C 02315	CUB	LE		2	4	2	15	25S	34E	646095	3556194	1571	175	135	40

Average Depth to Water: **135 feet**

Minimum Depth: **135 feet**

Maximum Depth: **135 feet**

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 645487.16

Northing (Y): 3554744.86

Radius: 1600

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

7/28/22 6:31 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



[USGS Home](#)
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National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:
Groundwater

Geographic Area:
New Mexico

GO

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- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
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Groundwater levels for New Mexico

Click to hide state-specific text

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320738103270501

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 320738103270501 25S.34E.15.24234

Lea County, New Mexico
Latitude 32°07'57.1", Longitude 103°27'02.4" NAD83
Land-surface elevation 3,345.00 feet above NGVD29
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Received by OCD: 10/26/2022 2:43:29 PM

Page 26 of 339

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
1954-07-23		D	62610		3180.06	NGVD29	P	Z			A
1954-07-23		D	62611		3181.62	NAVD88	P	Z			A
1954-07-23		D	72019	164.94			P	Z			A
1970-12-08		D	62610		3181.78	NGVD29	P	Z			A
1970-12-08		D	62611		3183.34	NAVD88	P	Z			A
1970-12-08		D	72019	163.22			P	Z			A
1976-01-15		D	62610		3179.20	NGVD29	1	Z			A
1976-01-15		D	62611		3180.76	NAVD88	1	Z			A
1976-01-15		D	72019	165.80			1	Z			A
1981-03-25		D	62610		3182.20	NGVD29	1	Z			A
1981-03-25		D	62611		3183.76	NAVD88	1	Z			A
1981-03-25		D	72019	162.80			1	Z			A
1986-03-12		D	62610		3184.76	NGVD29	1	Z			A
1986-03-12		D	62611		3186.32	NAVD88	1	Z			A
1986-03-12		D	72019	160.24			1	Z			A
1991-06-05		D	62610		3179.90	NGVD29	1	Z			A
1991-06-05		D	62611		3181.46	NAVD88	1	Z			A
1991-06-05		D	72019	165.10			1	Z			A
2013-01-16	21:30 UTC	m	62610		3170.94	NGVD29	P	S	USGS	S	A
2013-01-16	21:30 UTC	m	62611		3172.50	NAVD88	P	S	USGS	S	A
2013-01-16	21:30 UTC	m	72019	174.06			P	S	USGS	S	A

Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface

Released to Imaging: 11/22/2022 11:43:31 AM

Section	Code	Description
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for New Mexico: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>



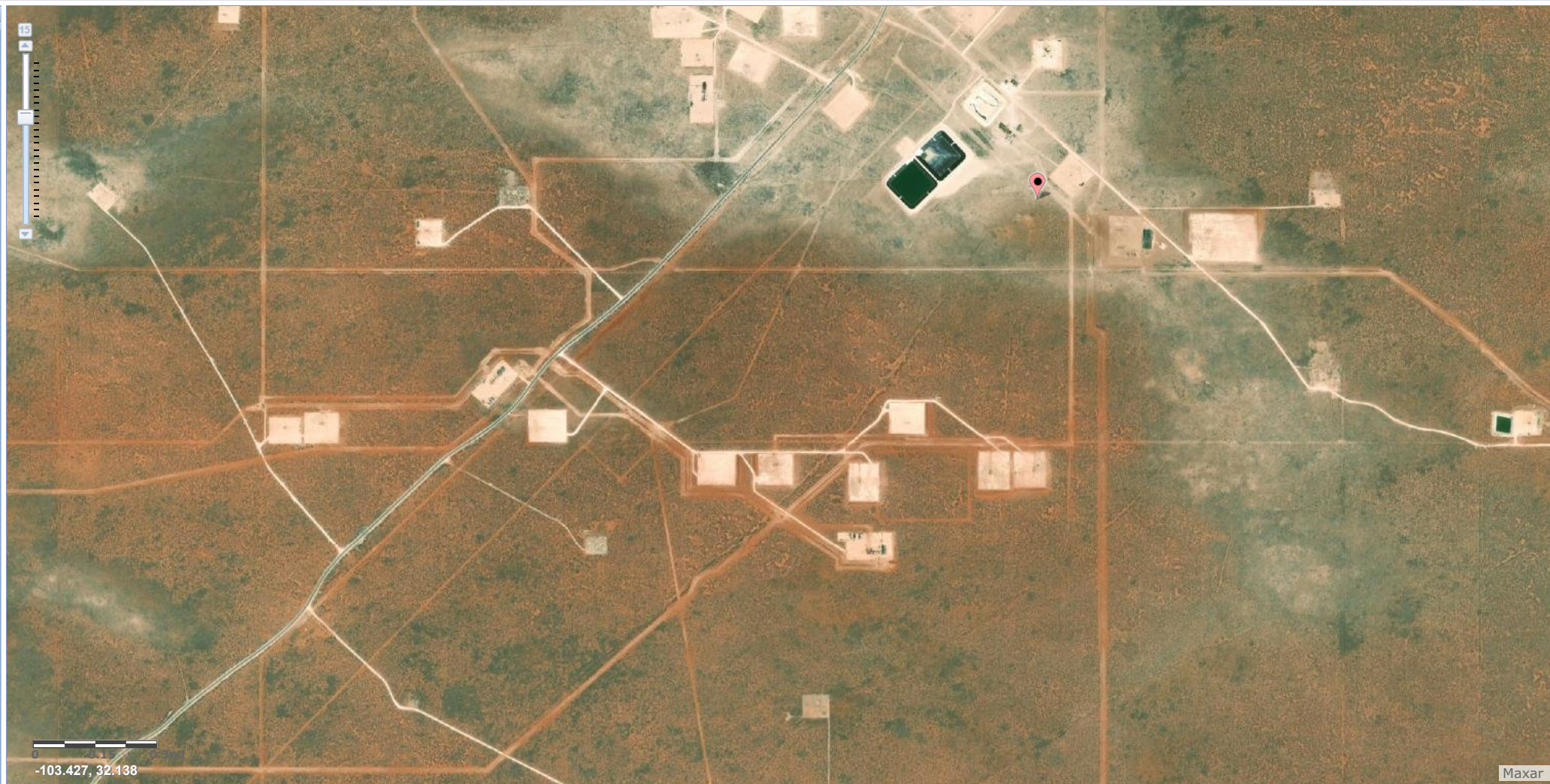
Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2022-08-02 16:23:17 EDT

0.29 0.25 nadww01

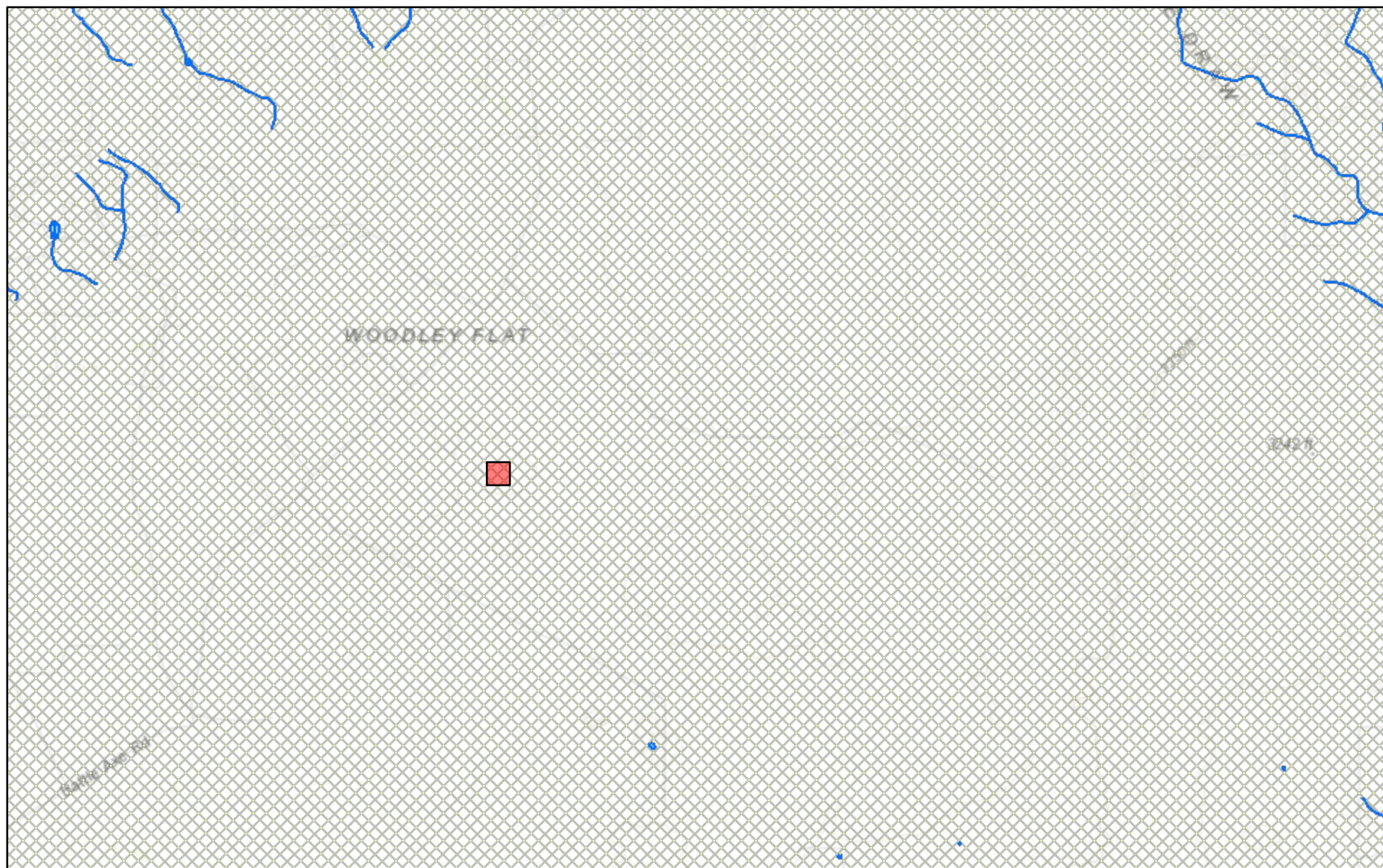


National Water Information System: Mapper

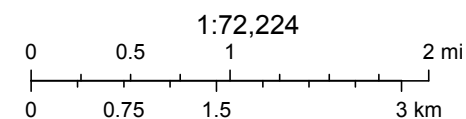


Site Information

New Mexico NFHL Data



August 2, 2022



FEMA, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

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Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-17520-1
Laboratory Sample Delivery Group: 1245
Client Project/Site: Marathon CTB130

For:
Earth Systems Response and Restoration
4115 South County Road 1297
Odessa, Texas 79765

Attn: Kris Williams

A rectangular box containing a handwritten signature in blue ink that reads "Brianna Teel".

Authorized for release by:
8/3/2022 6:13:11 PM

Brianna Teel, Project Manager
(432)704-5440
Brianna.Teel@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Laboratory Job ID: 880-17520-1
SDG: 1245

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	18
QC Sample Results	19
QC Association Summary	26
Lab Chronicle	31
Certification Summary	38
Method Summary	39
Sample Summary	40
Chain of Custody	41
Receipt Checklists	46

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

Qualifiers

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

Job ID: 880-17520-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-17520-1**

Receipt

The samples were received on 7/29/2022 2:28 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.9°C

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-31259 and analytical batch 880-31245 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: P-3 (880-17520-3), HA-4 (880-17520-16), HA-4 (880-17520-17) and HA-5 (880-17520-20). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-31214 and analytical batch 880-31338 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-31214 and 880-31214 and analytical batch 880-31338 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

Client Sample ID: P-1

Lab Sample ID: 880-17520-1

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 0 - 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/01/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/02/22 08:33	08/02/22 11:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9		mg/Kg		08/02/22 08:33	08/02/22 11:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/02/22 08:33	08/02/22 11:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	58	S1-	70 - 130				08/02/22 08:33	08/02/22 11:32	1
o-Terphenyl	60	S1-	70 - 130				08/02/22 08:33	08/02/22 11:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.8		5.04		mg/Kg			08/03/22 10:52	1

Client Sample ID: P-2

Lab Sample ID: 880-17520-2

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 0 - 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/01/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/02/22 08:33	08/02/22 12:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/02/22 08:33	08/02/22 12:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/02/22 08:33	08/02/22 12:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130				08/02/22 08:33	08/02/22 12:37	1
o-Terphenyl	75		70 - 130				08/02/22 08:33	08/02/22 12:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.8		4.97		mg/Kg			08/03/22 17:56	1

Client Sample ID: P-3

Lab Sample ID: 880-17520-3

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 0 - 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/01/22 09:24	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

Client Sample ID: P-3

Lab Sample ID: 880-17520-3

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 0 - 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/02/22 08:33	08/02/22 12:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/02/22 08:33	08/02/22 12:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/02/22 08:33	08/02/22 12:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130				08/02/22 08:33	08/02/22 12:59	1
o-Terphenyl	68	S1-	70 - 130				08/02/22 08:33	08/02/22 12:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.6		4.98		mg/Kg			08/03/22 18:06	1

Client Sample ID: P-4

Lab Sample ID: 880-17520-4

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 0 - 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/01/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/02/22 08:33	08/02/22 13:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/02/22 08:33	08/02/22 13:20	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/02/22 08:33	08/02/22 13:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130				08/02/22 08:33	08/02/22 13:20	1
o-Terphenyl	77		70 - 130				08/02/22 08:33	08/02/22 13:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.6		4.98		mg/Kg			08/03/22 18:15	1

Client Sample ID: P-5

Lab Sample ID: 880-17520-5

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 0 - 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/01/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/02/22 08:33	08/02/22 13:42	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

Client Sample ID: P-5

Lab Sample ID: 880-17520-5

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 0 - 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/02/22 08:33	08/02/22 13:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/02/22 08:33	08/02/22 13:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				08/02/22 08:33	08/02/22 13:42	1
o-Terphenyl	82		70 - 130				08/02/22 08:33	08/02/22 13:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.27		5.03		mg/Kg			08/03/22 11:47	1

Client Sample ID: P-6

Lab Sample ID: 880-17520-6

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 0 - 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/01/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/02/22 08:33	08/02/22 14:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/02/22 08:33	08/02/22 14:03	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/02/22 08:33	08/02/22 14:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				08/02/22 08:33	08/02/22 14:03	1
o-Terphenyl	92		70 - 130				08/02/22 08:33	08/02/22 14:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	188		5.05		mg/Kg			08/03/22 15:01	1

Client Sample ID: P-7

Lab Sample ID: 880-17520-7

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 0 - 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/01/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/02/22 08:33	08/02/22 14:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/02/22 08:33	08/02/22 14:25	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

Client Sample ID: P-7

Lab Sample ID: 880-17520-7

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 0 - 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/02/22 08:33	08/02/22 14:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				08/02/22 08:33	08/02/22 14:25	1
o-Terphenyl	93		70 - 130				08/02/22 08:33	08/02/22 14:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	145		5.02		mg/Kg			08/03/22 15:11	1

Client Sample ID: HA-1

Lab Sample ID: 880-17520-8

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 0.5 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/01/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/02/22 08:33	08/02/22 14:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/02/22 08:33	08/02/22 14:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/02/22 08:33	08/02/22 14:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				08/02/22 08:33	08/02/22 14:47	1
o-Terphenyl	90		70 - 130				08/02/22 08:33	08/02/22 14:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.9		5.00		mg/Kg			08/03/22 15:20	1

Client Sample ID: HA-1

Lab Sample ID: 880-17520-9

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 1.5 - 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/01/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/02/22 08:33	08/02/22 15:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/02/22 08:33	08/02/22 15:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/02/22 08:33	08/02/22 15:08	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

Client Sample ID: HA-1

Lab Sample ID: 880-17520-9

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 1.5 - 2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130	08/02/22 08:33	08/02/22 15:08	1
o-Terphenyl	84		70 - 130	08/02/22 08:33	08/02/22 15:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.5		5.00		mg/Kg			08/03/22 15:29	1

Client Sample ID: HA-1

Lab Sample ID: 880-17520-10

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 2.5 - 3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/01/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/02/22 08:33	08/02/22 15:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/02/22 08:33	08/02/22 15:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/02/22 08:33	08/02/22 15:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130	08/02/22 08:33	08/02/22 15:30	1
o-Terphenyl	89		70 - 130	08/02/22 08:33	08/02/22 15:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.79		5.03		mg/Kg			08/03/22 15:38	1

Client Sample ID: HA-2

Lab Sample ID: 880-17520-11

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 0.5 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	50.4		49.9		mg/Kg			08/01/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/02/22 08:33	08/02/22 16:13	1
Diesel Range Organics (Over C10-C28)	50.4		49.9		mg/Kg		08/02/22 08:33	08/02/22 16:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/02/22 08:33	08/02/22 16:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	08/02/22 08:33	08/02/22 16:13	1
o-Terphenyl	97		70 - 130	08/02/22 08:33	08/02/22 16:13	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

Client Sample ID: HA-2

Lab Sample ID: 880-17520-11

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 0.5 - 1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.9		5.05		mg/Kg			08/03/22 15:47	1

Client Sample ID: HA-2

Lab Sample ID: 880-17520-12

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 1.5 - 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/01/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/02/22 08:33	08/02/22 16:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/02/22 08:33	08/02/22 16:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/02/22 08:33	08/02/22 16:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				08/02/22 08:33	08/02/22 16:35	1
o-Terphenyl	100		70 - 130				08/02/22 08:33	08/02/22 16:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.0		4.99		mg/Kg			08/03/22 16:15	1

Client Sample ID: HA-2

Lab Sample ID: 880-17520-13

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 2.5 - 3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/01/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/02/22 08:33	08/02/22 16:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/02/22 08:33	08/02/22 16:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/02/22 08:33	08/02/22 16:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130				08/02/22 08:33	08/02/22 16:57	1
o-Terphenyl	82		70 - 130				08/02/22 08:33	08/02/22 16:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.3		5.00		mg/Kg			08/03/22 16:24	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

Client Sample ID: HA-3

Lab Sample ID: 880-17520-14

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 0.5 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/01/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/02/22 08:33	08/02/22 17:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/02/22 08:33	08/02/22 17:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/02/22 08:33	08/02/22 17:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				08/02/22 08:33	08/02/22 17:18	1
o-Terphenyl	95		70 - 130				08/02/22 08:33	08/02/22 17:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.3		5.00		mg/Kg			08/03/22 16:52	1

Client Sample ID: HA-3

Lab Sample ID: 880-17520-15

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 1.5 - 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/01/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/02/22 08:33	08/02/22 17:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/02/22 08:33	08/02/22 17:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/02/22 08:33	08/02/22 17:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				08/02/22 08:33	08/02/22 17:40	1
o-Terphenyl	95		70 - 130				08/02/22 08:33	08/02/22 17:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.8		4.97		mg/Kg			08/03/22 17:01	1

Client Sample ID: HA-4

Lab Sample ID: 880-17520-16

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 0.5 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	98.8		50.0		mg/Kg			08/01/22 09:24	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

Client Sample ID: HA-4

Lab Sample ID: 880-17520-16

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 0.5 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/02/22 08:33	08/02/22 18:02	1
Diesel Range Organics (Over C10-C28)	98.8		50.0		mg/Kg		08/02/22 08:33	08/02/22 18:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/02/22 08:33	08/02/22 18:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	65	S1-	70 - 130				08/02/22 08:33	08/02/22 18:02	1
o-Terphenyl	75		70 - 130				08/02/22 08:33	08/02/22 18:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.0		5.03		mg/Kg			08/03/22 17:10	1

Client Sample ID: HA-4

Lab Sample ID: 880-17520-17

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 1.5 - 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/01/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/02/22 08:33	08/02/22 18:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/02/22 08:33	08/02/22 18:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/02/22 08:33	08/02/22 18:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	57	S1-	70 - 130				08/02/22 08:33	08/02/22 18:24	1
o-Terphenyl	64	S1-	70 - 130				08/02/22 08:33	08/02/22 18:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.7		5.04		mg/Kg			08/03/22 17:20	1

Client Sample ID: HA-4

Lab Sample ID: 880-17520-18

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 2.5 - 3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/01/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/02/22 08:33	08/02/22 18:47	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

Client Sample ID: HA-4

Lab Sample ID: 880-17520-18

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 2.5 - 3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/02/22 08:33	08/02/22 18:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/02/22 08:33	08/02/22 18:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				08/02/22 08:33	08/02/22 18:47	1
o-Terphenyl	92		70 - 130				08/02/22 08:33	08/02/22 18:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.6		5.05		mg/Kg			08/03/22 17:29	1

Client Sample ID: HA-5

Lab Sample ID: 880-17520-19

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 0.5 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	516		49.9		mg/Kg			08/01/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	124		49.9		mg/Kg		08/02/22 08:33	08/02/22 19:08	1
Diesel Range Organics (Over C10-C28)	392		49.9		mg/Kg		08/02/22 08:33	08/02/22 19:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/02/22 08:33	08/02/22 19:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				08/02/22 08:33	08/02/22 19:08	1
o-Terphenyl	84		70 - 130				08/02/22 08:33	08/02/22 19:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.3		4.95		mg/Kg			08/03/22 17:38	1

Client Sample ID: HA-5

Lab Sample ID: 880-17520-20

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 1.5 - 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/01/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/02/22 08:33	08/02/22 19:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/02/22 08:33	08/02/22 19:30	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

Client Sample ID: HA-5

Lab Sample ID: 880-17520-20

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 1.5 - 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/02/22 08:33	08/02/22 19:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130				08/02/22 08:33	08/02/22 19:30	1
o-Terphenyl	77		70 - 130				08/02/22 08:33	08/02/22 19:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.2		5.03		mg/Kg			08/03/22 17:47	1

Client Sample ID: HA-5

Lab Sample ID: 880-17520-21

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 2-2 - 2.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/01/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/29/22 15:32	07/31/22 21:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/29/22 15:32	07/31/22 21:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/29/22 15:32	07/31/22 21:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				07/29/22 15:32	07/31/22 21:15	1
o-Terphenyl	95		70 - 130				07/29/22 15:32	07/31/22 21:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.9	F1 F2	4.99		mg/Kg			08/03/22 10:43	1

Client Sample ID: HA-6

Lab Sample ID: 880-17520-22

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 0.5 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/01/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/29/22 15:32	07/31/22 22:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/29/22 15:32	07/31/22 22:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/29/22 15:32	07/31/22 22:20	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

Client Sample ID: HA-6

Date Collected: 07/28/22 00:00

Date Received: 07/29/22 14:28

Sample Depth: 0.5 - 1

Lab Sample ID: 880-17520-22

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	07/29/22 15:32	07/31/22 22:20	1
o-Terphenyl	92		70 - 130	07/29/22 15:32	07/31/22 22:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.3		5.05		mg/Kg			08/03/22 11:07	1

Client Sample ID: HA-6

Date Collected: 07/28/22 00:00

Date Received: 07/29/22 14:28

Sample Depth: 1 - 1.5

Lab Sample ID: 880-17520-23

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/01/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/29/22 15:32	07/31/22 22:41	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/29/22 15:32	07/31/22 22:41	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/29/22 15:32	07/31/22 22:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	07/29/22 15:32	07/31/22 22:41	1
o-Terphenyl	106		70 - 130	07/29/22 15:32	07/31/22 22:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.9		4.97		mg/Kg			08/03/22 11:15	1

Client Sample ID: HA-7

Date Collected: 07/28/22 00:00

Date Received: 07/29/22 14:28

Sample Depth: 0.5 - 1

Lab Sample ID: 880-17520-24

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/01/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/02/22 08:40	08/02/22 18:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/02/22 08:40	08/02/22 18:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/02/22 08:40	08/02/22 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130	08/02/22 08:40	08/02/22 18:26	1
o-Terphenyl	81		70 - 130	08/02/22 08:40	08/02/22 18:26	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

Client Sample ID: HA-7

Lab Sample ID: 880-17520-24

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 0.5 - 1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.8		5.03		mg/Kg			08/03/22 11:22	1

Client Sample ID: HA-7

Lab Sample ID: 880-17520-25

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 1.5 - 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/01/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/02/22 08:40	08/02/22 18:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/02/22 08:40	08/02/22 18:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/02/22 08:40	08/02/22 18:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				08/02/22 08:40	08/02/22 18:47	1
o-Terphenyl	83		70 - 130				08/02/22 08:40	08/02/22 18:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.5		4.97		mg/Kg			08/03/22 11:30	1

Client Sample ID: HA-7

Lab Sample ID: 880-17520-26

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 2.5 - 3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/01/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/02/22 08:40	08/02/22 19:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/02/22 08:40	08/02/22 19:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/02/22 08:40	08/02/22 19:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				08/02/22 08:40	08/02/22 19:08	1
o-Terphenyl	84		70 - 130				08/02/22 08:40	08/02/22 19:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.4		4.99		mg/Kg			08/03/22 11:54	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

Client Sample ID: HA-8
Date Collected: 07/28/22 00:00
Date Received: 07/29/22 14:28
Sample Depth: 0.5 - 1

Lab Sample ID: 880-17520-27
Matrix: Solid

Method: 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/01/22 09:24	1
Method: 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/02/22 08:40	08/02/22 15:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/02/22 08:40	08/02/22 15:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/02/22 08:40	08/02/22 15:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				08/02/22 08:40	08/02/22 15:55	1
o-Terphenyl	83		70 - 130				08/02/22 08:40	08/02/22 15:55	1
Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.5		4.99		mg/Kg			08/03/22 12:02	1

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-17520-1	P-1	58 S1-	60 S1-
880-17520-1 MS	P-1	68 S1-	67 S1-
880-17520-1 MSD	P-1	80	82
880-17520-2	P-2	70	75
880-17520-3	P-3	67 S1-	68 S1-
880-17520-4	P-4	70	77
880-17520-5	P-5	71	82
880-17520-6	P-6	85	92
880-17520-7	P-7	83	93
880-17520-8	HA-1	83	90
880-17520-9	HA-1	71	84
880-17520-10	HA-1	75	89
880-17520-11	HA-2	90	97
880-17520-12	HA-2	87	100
880-17520-13	HA-2	70	82
880-17520-14	HA-3	84	95
880-17520-15	HA-3	85	95
880-17520-16	HA-4	65 S1-	75
880-17520-17	HA-4	57 S1-	64 S1-
880-17520-18	HA-4	81	92
880-17520-19	HA-5	76	84
880-17520-20	HA-5	66 S1-	77
880-17520-21	HA-5	84	95
880-17520-21 MS	HA-5	87	89
880-17520-21 MSD	HA-5	83	87
880-17520-22	HA-6	80	92
880-17520-23	HA-6	94	106
880-17520-24	HA-7	71	81
880-17520-25	HA-7	73	83
880-17520-26	HA-7	74	84
880-17520-27	HA-8	73	83
890-2686-A-1-C MS	Matrix Spike	97	97
890-2686-A-1-D MSD	Matrix Spike Duplicate	84	82
LCS 880-31028/2-A	Lab Control Sample	76	81
LCS 880-31259/2-A	Lab Control Sample	89	92
LCS 880-31286/2-A	Lab Control Sample	104	102
LCSD 880-31028/3-A	Lab Control Sample Dup	73	77
LCSD 880-31259/3-A	Lab Control Sample Dup	85	88
LCSD 880-31286/3-A	Lab Control Sample Dup	104	108
MB 880-31028/1-A	Method Blank	84	103
MB 880-31259/1-A	Method Blank	97	117
MB 880-31286/1-A	Method Blank	90	103

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

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

Lab Sample ID: MB 880-31028/1-A

Matrix: Solid

Analysis Batch: 31087

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31028

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/29/22 15:32	07/31/22 20:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/29/22 15:32	07/31/22 20:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/29/22 15:32	07/31/22 20:10	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				07/29/22 15:32	07/31/22 20:10	1
o-Terphenyl	103		70 - 130				07/29/22 15:32	07/31/22 20:10	1

Lab Sample ID: LCS 880-31028/2-A

Matrix: Solid

Analysis Batch: 31087

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31028

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	883.1		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	795.1		mg/Kg		80	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	76		70 - 130				
o-Terphenyl	81		70 - 130				

Lab Sample ID: LCSD 880-31028/3-A

Matrix: Solid

Analysis Batch: 31087

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31028

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	898.4		mg/Kg		90	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	796.2		mg/Kg		80	70 - 130	0	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	73		70 - 130						
o-Terphenyl	77		70 - 130						

Lab Sample ID: 880-17520-21 MS

Matrix: Solid

Analysis Batch: 31087

Client Sample ID: HA-5

Prep Type: Total/NA

Prep Batch: 31028

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1003		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	823.0		mg/Kg		82	70 - 130

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

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

Lab Sample ID: 880-17520-21 MS

Matrix: Solid

Analysis Batch: 31087

Client Sample ID: HA-5

Prep Type: Total/NA

Prep Batch: 31028

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	89		70 - 130

Lab Sample ID: 880-17520-21 MSD

Matrix: Solid

Analysis Batch: 31087

Client Sample ID: HA-5

Prep Type: Total/NA

Prep Batch: 31028

	Sample	Sample	Spike	MSD	MSD				%Rec			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	981.3		mg/Kg		95	70 - 130	2	20	
Diesel Range Organics (Over C10-C28)	<49.9	U	999	801.0		mg/Kg		80	70 - 130	3	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	83		70 - 130									
o-Terphenyl	87		70 - 130									

Lab Sample ID: MB 880-31259/1-A

Matrix: Solid

Analysis Batch: 31245

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31259

	MB	MB										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/02/22 08:33	08/02/22 10:26	1			
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/02/22 08:33	08/02/22 10:26	1			
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/02/22 08:33	08/02/22 10:26	1			
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac			
1-Chlorooctane	97		70 - 130				08/02/22 08:33	08/02/22 10:26	1			
o-Terphenyl	117		70 - 130				08/02/22 08:33	08/02/22 10:26	1			

Lab Sample ID: LCS 880-31259/2-A

Matrix: Solid

Analysis Batch: 31245

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31259

		Spike	LCS	LCS				%Rec				
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits				
Gasoline Range Organics (GRO)-C6-C10		1000	988.6		mg/Kg		99	70 - 130				
Diesel Range Organics (Over C10-C28)		1000	979.8		mg/Kg		98	70 - 130				
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	89		70 - 130									
o-Terphenyl	92		70 - 130									

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

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

Lab Sample ID: LCSD 880-31259/3-A

Matrix: Solid

Analysis Batch: 31245

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31259

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	979.0		mg/Kg		98	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	970.3		mg/Kg		97	70 - 130	1	20
	LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	85		70 - 130						
o-Terphenyl	88		70 - 130						

Lab Sample ID: 880-17520-1 MS

Matrix: Solid

Analysis Batch: 31245

Client Sample ID: P-1

Prep Type: Total/NA

Prep Batch: 31259

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	845.7		mg/Kg		85	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	636.2	F1	mg/Kg		64	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	68	S1-	70 - 130								
o-Terphenyl	67	S1-	70 - 130								

Lab Sample ID: 880-17520-1 MSD

Matrix: Solid

Analysis Batch: 31245

Client Sample ID: P-1

Prep Type: Total/NA

Prep Batch: 31259

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	935.2		mg/Kg		94	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	770.7		mg/Kg		77	70 - 130	19	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	80		70 - 130								
o-Terphenyl	82		70 - 130								

Lab Sample ID: MB 880-31286/1-A

Matrix: Solid

Analysis Batch: 31239

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31286

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/02/22 08:40	08/02/22 10:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/02/22 08:40	08/02/22 10:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/02/22 08:40	08/02/22 10:16	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

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

Lab Sample ID: MB 880-31286/1-A

Matrix: Solid

Analysis Batch: 31239

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31286

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	08/02/22 08:40	08/02/22 10:16	1
o-Terphenyl	103		70 - 130	08/02/22 08:40	08/02/22 10:16	1

Lab Sample ID: LCS 880-31286/2-A

Matrix: Solid

Analysis Batch: 31239

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31286

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1060		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1036		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: LCSD 880-31286/3-A

Matrix: Solid

Analysis Batch: 31239

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31286

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1063		mg/Kg		106	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	1092		mg/Kg		109	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: 890-2686-A-1-C MS

Matrix: Solid

Analysis Batch: 31239

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 31286

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	941.9		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	802.5		mg/Kg		80	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	97		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

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

Lab Sample ID: 890-2686-A-1-D MSD

Matrix: Solid

Analysis Batch: 31239

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 31286

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	829.1		mg/Kg		83	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	700.8		mg/Kg		70	70 - 130	14	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	84		70 - 130								
o-Terphenyl	82		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-31213/1-A

Matrix: Solid

Analysis Batch: 31313

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/03/22 10:24	1

Lab Sample ID: LCS 880-31213/2-A

Matrix: Solid

Analysis Batch: 31313

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	236.7		mg/Kg		95	90 - 110		

Lab Sample ID: LCSD 880-31213/3-A

Matrix: Solid

Analysis Batch: 31313

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	236.6		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 880-17520-1 MS

Matrix: Solid

Analysis Batch: 31313

Client Sample ID: P-1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	61.8		252	315.7		mg/Kg		101	90 - 110		

Lab Sample ID: 880-17520-1 MSD

Matrix: Solid

Analysis Batch: 31313

Client Sample ID: P-1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	61.8		252	315.4		mg/Kg		101	90 - 110	0	20

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-17520-11 MS

Matrix: Solid

Analysis Batch: 31313

Client Sample ID: HA-2

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	16.9		253	266.7		mg/Kg		99	90 - 110

Lab Sample ID: 880-17520-11 MSD

Matrix: Solid

Analysis Batch: 31313

Client Sample ID: HA-2

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	16.9		253	266.4		mg/Kg		99	90 - 110	0	20

Lab Sample ID: MB 880-31214/1-A

Matrix: Solid

Analysis Batch: 31338

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/03/22 09:56	1

Lab Sample ID: LCS 880-31214/2-A

Matrix: Solid

Analysis Batch: 31338

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	272.9		mg/Kg		109	90 - 110

Lab Sample ID: LCSD 880-31214/3-A

Matrix: Solid

Analysis Batch: 31338

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	273.1		mg/Kg		109	90 - 110	0	20

Lab Sample ID: 880-17520-21 MS

Matrix: Solid

Analysis Batch: 31338

Client Sample ID: HA-5

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.9	F1 F2	250	268.5		mg/Kg		99	90 - 110

Lab Sample ID: 880-17520-21 MSD

Matrix: Solid

Analysis Batch: 31338

Client Sample ID: HA-5

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	20.9	F1 F2	250	204.1	F1 F2	mg/Kg		73	90 - 110	27	20

Lab Sample ID: 880-17588-A-1-D MS

Matrix: Solid

Analysis Batch: 31338

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	14900	F1	12500	36280	F1	mg/Kg		171	90 - 110

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-17588-A-1-E MSD					Client Sample ID: Matrix Spike Duplicate							
Matrix: Solid					Prep Type: Soluble							
Analysis Batch: 31338												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	14900	F1	12500	36230	F1	mg/Kg		171	90 - 110	0	20	

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

GC Semi VOA

Prep Batch: 31028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17520-21	HA-5	Total/NA	Solid	8015NM Prep	
880-17520-22	HA-6	Total/NA	Solid	8015NM Prep	
880-17520-23	HA-6	Total/NA	Solid	8015NM Prep	
MB 880-31028/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-31028/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-31028/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-17520-21 MS	HA-5	Total/NA	Solid	8015NM Prep	
880-17520-21 MSD	HA-5	Total/NA	Solid	8015NM Prep	

Analysis Batch: 31087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17520-21	HA-5	Total/NA	Solid	8015B NM	31028
880-17520-22	HA-6	Total/NA	Solid	8015B NM	31028
880-17520-23	HA-6	Total/NA	Solid	8015B NM	31028
MB 880-31028/1-A	Method Blank	Total/NA	Solid	8015B NM	31028
LCS 880-31028/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	31028
LCSD 880-31028/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	31028
880-17520-21 MS	HA-5	Total/NA	Solid	8015B NM	31028
880-17520-21 MSD	HA-5	Total/NA	Solid	8015B NM	31028

Analysis Batch: 31160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17520-1	P-1	Total/NA	Solid	8015 NM	
880-17520-2	P-2	Total/NA	Solid	8015 NM	
880-17520-3	P-3	Total/NA	Solid	8015 NM	
880-17520-4	P-4	Total/NA	Solid	8015 NM	
880-17520-5	P-5	Total/NA	Solid	8015 NM	
880-17520-6	P-6	Total/NA	Solid	8015 NM	
880-17520-7	P-7	Total/NA	Solid	8015 NM	
880-17520-8	HA-1	Total/NA	Solid	8015 NM	
880-17520-9	HA-1	Total/NA	Solid	8015 NM	
880-17520-10	HA-1	Total/NA	Solid	8015 NM	
880-17520-11	HA-2	Total/NA	Solid	8015 NM	
880-17520-12	HA-2	Total/NA	Solid	8015 NM	
880-17520-13	HA-2	Total/NA	Solid	8015 NM	
880-17520-14	HA-3	Total/NA	Solid	8015 NM	
880-17520-15	HA-3	Total/NA	Solid	8015 NM	
880-17520-16	HA-4	Total/NA	Solid	8015 NM	
880-17520-17	HA-4	Total/NA	Solid	8015 NM	
880-17520-18	HA-4	Total/NA	Solid	8015 NM	
880-17520-19	HA-5	Total/NA	Solid	8015 NM	
880-17520-20	HA-5	Total/NA	Solid	8015 NM	
880-17520-21	HA-5	Total/NA	Solid	8015 NM	
880-17520-22	HA-6	Total/NA	Solid	8015 NM	
880-17520-23	HA-6	Total/NA	Solid	8015 NM	
880-17520-24	HA-7	Total/NA	Solid	8015 NM	
880-17520-25	HA-7	Total/NA	Solid	8015 NM	
880-17520-26	HA-7	Total/NA	Solid	8015 NM	
880-17520-27	HA-8	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

GC Semi VOA

Analysis Batch: 31239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17520-24	HA-7	Total/NA	Solid	8015B NM	31286
880-17520-25	HA-7	Total/NA	Solid	8015B NM	31286
880-17520-26	HA-7	Total/NA	Solid	8015B NM	31286
880-17520-27	HA-8	Total/NA	Solid	8015B NM	31286
MB 880-31286/1-A	Method Blank	Total/NA	Solid	8015B NM	31286
LCS 880-31286/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	31286
LCSD 880-31286/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	31286
890-2686-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	31286
890-2686-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	31286

Analysis Batch: 31245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17520-1	P-1	Total/NA	Solid	8015B NM	31259
880-17520-2	P-2	Total/NA	Solid	8015B NM	31259
880-17520-3	P-3	Total/NA	Solid	8015B NM	31259
880-17520-4	P-4	Total/NA	Solid	8015B NM	31259
880-17520-5	P-5	Total/NA	Solid	8015B NM	31259
880-17520-6	P-6	Total/NA	Solid	8015B NM	31259
880-17520-7	P-7	Total/NA	Solid	8015B NM	31259
880-17520-8	HA-1	Total/NA	Solid	8015B NM	31259
880-17520-9	HA-1	Total/NA	Solid	8015B NM	31259
880-17520-10	HA-1	Total/NA	Solid	8015B NM	31259
880-17520-11	HA-2	Total/NA	Solid	8015B NM	31259
880-17520-12	HA-2	Total/NA	Solid	8015B NM	31259
880-17520-13	HA-2	Total/NA	Solid	8015B NM	31259
880-17520-14	HA-3	Total/NA	Solid	8015B NM	31259
880-17520-15	HA-3	Total/NA	Solid	8015B NM	31259
880-17520-16	HA-4	Total/NA	Solid	8015B NM	31259
880-17520-17	HA-4	Total/NA	Solid	8015B NM	31259
880-17520-18	HA-4	Total/NA	Solid	8015B NM	31259
880-17520-19	HA-5	Total/NA	Solid	8015B NM	31259
880-17520-20	HA-5	Total/NA	Solid	8015B NM	31259
MB 880-31259/1-A	Method Blank	Total/NA	Solid	8015B NM	31259
LCS 880-31259/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	31259
LCSD 880-31259/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	31259
880-17520-1 MS	P-1	Total/NA	Solid	8015B NM	31259
880-17520-1 MSD	P-1	Total/NA	Solid	8015B NM	31259

Prep Batch: 31259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17520-1	P-1	Total/NA	Solid	8015NM Prep	
880-17520-2	P-2	Total/NA	Solid	8015NM Prep	
880-17520-3	P-3	Total/NA	Solid	8015NM Prep	
880-17520-4	P-4	Total/NA	Solid	8015NM Prep	
880-17520-5	P-5	Total/NA	Solid	8015NM Prep	
880-17520-6	P-6	Total/NA	Solid	8015NM Prep	
880-17520-7	P-7	Total/NA	Solid	8015NM Prep	
880-17520-8	HA-1	Total/NA	Solid	8015NM Prep	
880-17520-9	HA-1	Total/NA	Solid	8015NM Prep	
880-17520-10	HA-1	Total/NA	Solid	8015NM Prep	
880-17520-11	HA-2	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

GC Semi VOA (Continued)

Prep Batch: 31259 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17520-12	HA-2	Total/NA	Solid	8015NM Prep	
880-17520-13	HA-2	Total/NA	Solid	8015NM Prep	
880-17520-14	HA-3	Total/NA	Solid	8015NM Prep	
880-17520-15	HA-3	Total/NA	Solid	8015NM Prep	
880-17520-16	HA-4	Total/NA	Solid	8015NM Prep	
880-17520-17	HA-4	Total/NA	Solid	8015NM Prep	
880-17520-18	HA-4	Total/NA	Solid	8015NM Prep	
880-17520-19	HA-5	Total/NA	Solid	8015NM Prep	
880-17520-20	HA-5	Total/NA	Solid	8015NM Prep	
MB 880-31259/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-31259/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-31259/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-17520-1 MS	P-1	Total/NA	Solid	8015NM Prep	
880-17520-1 MSD	P-1	Total/NA	Solid	8015NM Prep	

Prep Batch: 31286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17520-24	HA-7	Total/NA	Solid	8015NM Prep	
880-17520-25	HA-7	Total/NA	Solid	8015NM Prep	
880-17520-26	HA-7	Total/NA	Solid	8015NM Prep	
880-17520-27	HA-8	Total/NA	Solid	8015NM Prep	
MB 880-31286/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-31286/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-31286/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2686-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2686-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 31213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17520-1	P-1	Soluble	Solid	DI Leach	
880-17520-2	P-2	Soluble	Solid	DI Leach	
880-17520-3	P-3	Soluble	Solid	DI Leach	
880-17520-4	P-4	Soluble	Solid	DI Leach	
880-17520-5	P-5	Soluble	Solid	DI Leach	
880-17520-6	P-6	Soluble	Solid	DI Leach	
880-17520-7	P-7	Soluble	Solid	DI Leach	
880-17520-8	HA-1	Soluble	Solid	DI Leach	
880-17520-9	HA-1	Soluble	Solid	DI Leach	
880-17520-10	HA-1	Soluble	Solid	DI Leach	
880-17520-11	HA-2	Soluble	Solid	DI Leach	
880-17520-12	HA-2	Soluble	Solid	DI Leach	
880-17520-13	HA-2	Soluble	Solid	DI Leach	
880-17520-14	HA-3	Soluble	Solid	DI Leach	
880-17520-15	HA-3	Soluble	Solid	DI Leach	
880-17520-16	HA-4	Soluble	Solid	DI Leach	
880-17520-17	HA-4	Soluble	Solid	DI Leach	
880-17520-18	HA-4	Soluble	Solid	DI Leach	
880-17520-19	HA-5	Soluble	Solid	DI Leach	
880-17520-20	HA-5	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

HPLC/IC (Continued)

Leach Batch: 31213 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-31213/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-31213/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-31213/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-17520-1 MS	P-1	Soluble	Solid	DI Leach	
880-17520-1 MSD	P-1	Soluble	Solid	DI Leach	
880-17520-11 MS	HA-2	Soluble	Solid	DI Leach	
880-17520-11 MSD	HA-2	Soluble	Solid	DI Leach	

Leach Batch: 31214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17520-21	HA-5	Soluble	Solid	DI Leach	
880-17520-22	HA-6	Soluble	Solid	DI Leach	
880-17520-23	HA-6	Soluble	Solid	DI Leach	
880-17520-24	HA-7	Soluble	Solid	DI Leach	
880-17520-25	HA-7	Soluble	Solid	DI Leach	
880-17520-26	HA-7	Soluble	Solid	DI Leach	
880-17520-27	HA-8	Soluble	Solid	DI Leach	
MB 880-31214/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-31214/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-31214/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-17520-21 MS	HA-5	Soluble	Solid	DI Leach	
880-17520-21 MSD	HA-5	Soluble	Solid	DI Leach	
880-17588-A-1-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-17588-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 31313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17520-1	P-1	Soluble	Solid	300.0	31213
880-17520-2	P-2	Soluble	Solid	300.0	31213
880-17520-3	P-3	Soluble	Solid	300.0	31213
880-17520-4	P-4	Soluble	Solid	300.0	31213
880-17520-5	P-5	Soluble	Solid	300.0	31213
880-17520-6	P-6	Soluble	Solid	300.0	31213
880-17520-7	P-7	Soluble	Solid	300.0	31213
880-17520-8	HA-1	Soluble	Solid	300.0	31213
880-17520-9	HA-1	Soluble	Solid	300.0	31213
880-17520-10	HA-1	Soluble	Solid	300.0	31213
880-17520-11	HA-2	Soluble	Solid	300.0	31213
880-17520-12	HA-2	Soluble	Solid	300.0	31213
880-17520-13	HA-2	Soluble	Solid	300.0	31213
880-17520-14	HA-3	Soluble	Solid	300.0	31213
880-17520-15	HA-3	Soluble	Solid	300.0	31213
880-17520-16	HA-4	Soluble	Solid	300.0	31213
880-17520-17	HA-4	Soluble	Solid	300.0	31213
880-17520-18	HA-4	Soluble	Solid	300.0	31213
880-17520-19	HA-5	Soluble	Solid	300.0	31213
880-17520-20	HA-5	Soluble	Solid	300.0	31213
MB 880-31213/1-A	Method Blank	Soluble	Solid	300.0	31213
LCS 880-31213/2-A	Lab Control Sample	Soluble	Solid	300.0	31213
LCSD 880-31213/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	31213
880-17520-1 MS	P-1	Soluble	Solid	300.0	31213

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

HPLC/IC (Continued)

Analysis Batch: 31313 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17520-1 MSD	P-1	Soluble	Solid	300.0	31213
880-17520-11 MS	HA-2	Soluble	Solid	300.0	31213
880-17520-11 MSD	HA-2	Soluble	Solid	300.0	31213

Analysis Batch: 31338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17520-21	HA-5	Soluble	Solid	300.0	31214
880-17520-22	HA-6	Soluble	Solid	300.0	31214
880-17520-23	HA-6	Soluble	Solid	300.0	31214
880-17520-24	HA-7	Soluble	Solid	300.0	31214
880-17520-25	HA-7	Soluble	Solid	300.0	31214
880-17520-26	HA-7	Soluble	Solid	300.0	31214
880-17520-27	HA-8	Soluble	Solid	300.0	31214
MB 880-31214/1-A	Method Blank	Soluble	Solid	300.0	31214
LCS 880-31214/2-A	Lab Control Sample	Soluble	Solid	300.0	31214
LCSD 880-31214/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	31214
880-17520-21 MS	HA-5	Soluble	Solid	300.0	31214
880-17520-21 MSD	HA-5	Soluble	Solid	300.0	31214
880-17588-A-1-D MS	Matrix Spike	Soluble	Solid	300.0	31214
880-17588-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	31214

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

Client Sample ID: P-1

Lab Sample ID: 880-17520-1

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

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			31160	08/01/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31259	08/02/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31245	08/02/22 11:32	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	31213	08/01/22 15:39	SMC	XEN MID
Soluble	Analysis	300.0		1			31313	08/03/22 10:52	CH	XEN MID

Client Sample ID: P-2

Lab Sample ID: 880-17520-2

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

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			31160	08/01/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31259	08/02/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31245	08/02/22 12:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	31213	08/01/22 15:39	SMC	XEN MID
Soluble	Analysis	300.0		1			31313	08/03/22 17:56	CH	XEN MID

Client Sample ID: P-3

Lab Sample ID: 880-17520-3

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

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			31160	08/01/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31259	08/02/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31245	08/02/22 12:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	31213	08/01/22 15:39	SMC	XEN MID
Soluble	Analysis	300.0		1			31313	08/03/22 18:06	CH	XEN MID

Client Sample ID: P-4

Lab Sample ID: 880-17520-4

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

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			31160	08/01/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	31259	08/02/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31245	08/02/22 13:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	31213	08/01/22 15:39	SMC	XEN MID
Soluble	Analysis	300.0		1			31313	08/03/22 18:15	CH	XEN MID

Client Sample ID: P-5

Lab Sample ID: 880-17520-5

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

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			31160	08/01/22 09:24	SM	XEN MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

Client Sample ID: P-5

Lab Sample ID: 880-17520-5

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31259	08/02/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31245	08/02/22 13:42	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	31213	08/01/22 15:39	SMC	XEN MID
Soluble	Analysis	300.0		1			31313	08/03/22 11:47	CH	XEN MID

Client Sample ID: P-6

Lab Sample ID: 880-17520-6

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

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			31160	08/01/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	31259	08/02/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31245	08/02/22 14:03	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	31213	08/01/22 15:39	SMC	XEN MID
Soluble	Analysis	300.0		1			31313	08/03/22 15:01	CH	XEN MID

Client Sample ID: P-7

Lab Sample ID: 880-17520-7

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

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			31160	08/01/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31259	08/02/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31245	08/02/22 14:25	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	31213	08/01/22 15:39	SMC	XEN MID
Soluble	Analysis	300.0		1			31313	08/03/22 15:11	CH	XEN MID

Client Sample ID: HA-1

Lab Sample ID: 880-17520-8

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

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			31160	08/01/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31259	08/02/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31245	08/02/22 14:47	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	31213	08/01/22 15:39	SMC	XEN MID
Soluble	Analysis	300.0		1			31313	08/03/22 15:20	CH	XEN MID

Client Sample ID: HA-1

Lab Sample ID: 880-17520-9

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

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			31160	08/01/22 09:24	SM	XEN MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

Client Sample ID: HA-1

Lab Sample ID: 880-17520-9

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31259	08/02/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31245	08/02/22 15:08	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	31213	08/01/22 15:39	SMC	XEN MID
Soluble	Analysis	300.0		1			31313	08/03/22 15:29	CH	XEN MID

Client Sample ID: HA-1

Lab Sample ID: 880-17520-10

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

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			31160	08/01/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31259	08/02/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31245	08/02/22 15:30	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	31213	08/01/22 15:39	SMC	XEN MID
Soluble	Analysis	300.0		1			31313	08/03/22 15:38	CH	XEN MID

Client Sample ID: HA-2

Lab Sample ID: 880-17520-11

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

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			31160	08/01/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31259	08/02/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31245	08/02/22 16:13	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	31213	08/01/22 15:39	SMC	XEN MID
Soluble	Analysis	300.0		1			31313	08/03/22 15:47	CH	XEN MID

Client Sample ID: HA-2

Lab Sample ID: 880-17520-12

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

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			31160	08/01/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31259	08/02/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31245	08/02/22 16:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	31213	08/01/22 15:39	SMC	XEN MID
Soluble	Analysis	300.0		1			31313	08/03/22 16:15	CH	XEN MID

Client Sample ID: HA-2

Lab Sample ID: 880-17520-13

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

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			31160	08/01/22 09:24	SM	XEN MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

Client Sample ID: HA-2

Date Collected: 07/28/22 00:00

Date Received: 07/29/22 14:28

Lab Sample ID: 880-17520-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31259	08/02/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31245	08/02/22 16:57	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	31213	08/01/22 15:39	SMC	XEN MID
Soluble	Analysis	300.0		1			31313	08/03/22 16:24	CH	XEN MID

Client Sample ID: HA-3

Date Collected: 07/28/22 00:00

Date Received: 07/29/22 14:28

Lab Sample ID: 880-17520-14

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			31160	08/01/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31259	08/02/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31245	08/02/22 17:18	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	31213	08/01/22 15:39	SMC	XEN MID
Soluble	Analysis	300.0		1			31313	08/03/22 16:52	CH	XEN MID

Client Sample ID: HA-3

Date Collected: 07/28/22 00:00

Date Received: 07/29/22 14:28

Lab Sample ID: 880-17520-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			31160	08/01/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31259	08/02/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31245	08/02/22 17:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	31213	08/01/22 15:39	SMC	XEN MID
Soluble	Analysis	300.0		1			31313	08/03/22 17:01	CH	XEN MID

Client Sample ID: HA-4

Date Collected: 07/28/22 00:00

Date Received: 07/29/22 14:28

Lab Sample ID: 880-17520-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			31160	08/01/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31259	08/02/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31245	08/02/22 18:02	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	31213	08/01/22 15:39	SMC	XEN MID
Soluble	Analysis	300.0		1			31313	08/03/22 17:10	CH	XEN MID

Client Sample ID: HA-4

Date Collected: 07/28/22 00:00

Date Received: 07/29/22 14:28

Lab Sample ID: 880-17520-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			31160	08/01/22 09:24	SM	XEN MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

Client Sample ID: HA-4

Date Collected: 07/28/22 00:00

Date Received: 07/29/22 14:28

Lab Sample ID: 880-17520-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31259	08/02/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31245	08/02/22 18:24	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	31213	08/01/22 15:39	SMC	XEN MID
Soluble	Analysis	300.0		1			31313	08/03/22 17:20	CH	XEN MID

Client Sample ID: HA-4

Date Collected: 07/28/22 00:00

Date Received: 07/29/22 14:28

Lab Sample ID: 880-17520-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			31160	08/01/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31259	08/02/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31245	08/02/22 18:47	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	31213	08/01/22 15:39	SMC	XEN MID
Soluble	Analysis	300.0		1			31313	08/03/22 17:29	CH	XEN MID

Client Sample ID: HA-5

Date Collected: 07/28/22 00:00

Date Received: 07/29/22 14:28

Lab Sample ID: 880-17520-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			31160	08/01/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31259	08/02/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31245	08/02/22 19:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	31213	08/01/22 15:39	SMC	XEN MID
Soluble	Analysis	300.0		1			31313	08/03/22 17:38	CH	XEN MID

Client Sample ID: HA-5

Date Collected: 07/28/22 00:00

Date Received: 07/29/22 14:28

Lab Sample ID: 880-17520-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			31160	08/01/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31259	08/02/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31245	08/02/22 19:30	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	31213	08/01/22 15:39	SMC	XEN MID
Soluble	Analysis	300.0		1			31313	08/03/22 17:47	CH	XEN MID

Client Sample ID: HA-5

Date Collected: 07/28/22 00:00

Date Received: 07/29/22 14:28

Lab Sample ID: 880-17520-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			31160	08/01/22 09:24	SM	XEN MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

Client Sample ID: HA-5

Date Collected: 07/28/22 00:00

Date Received: 07/29/22 14:28

Lab Sample ID: 880-17520-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31028	07/29/22 15:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31087	07/31/22 21:15	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	31214	08/02/22 12:00	SMC	XEN MID
Soluble	Analysis	300.0		1			31338	08/03/22 10:43	CH	XEN MID

Client Sample ID: HA-6

Date Collected: 07/28/22 00:00

Date Received: 07/29/22 14:28

Lab Sample ID: 880-17520-22

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			31160	08/01/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31028	07/29/22 15:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31087	07/31/22 22:20	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	31214	08/02/22 12:00	SMC	XEN MID
Soluble	Analysis	300.0		1			31338	08/03/22 11:07	CH	XEN MID

Client Sample ID: HA-6

Date Collected: 07/28/22 00:00

Date Received: 07/29/22 14:28

Lab Sample ID: 880-17520-23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			31160	08/01/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	31028	07/29/22 15:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31087	07/31/22 22:41	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	31214	08/02/22 12:00	SMC	XEN MID
Soluble	Analysis	300.0		1			31338	08/03/22 11:15	CH	XEN MID

Client Sample ID: HA-7

Date Collected: 07/28/22 00:00

Date Received: 07/29/22 14:28

Lab Sample ID: 880-17520-24

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			31160	08/01/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31286	08/02/22 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31239	08/02/22 18:26	SM	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	31214	08/02/22 12:00	SMC	XEN MID
Soluble	Analysis	300.0		1			31338	08/03/22 11:22	CH	XEN MID

Client Sample ID: HA-7

Date Collected: 07/28/22 00:00

Date Received: 07/29/22 14:28

Lab Sample ID: 880-17520-25

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			31160	08/01/22 09:24	SM	XEN MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

Client Sample ID: HA-7

Lab Sample ID: 880-17520-25

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31286	08/02/22 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31239	08/02/22 18:47	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	31214	08/02/22 12:00	SMC	XEN MID
Soluble	Analysis	300.0		1			31338	08/03/22 11:30	CH	XEN MID

Client Sample ID: HA-7

Lab Sample ID: 880-17520-26

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

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			31160	08/01/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31286	08/02/22 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31239	08/02/22 19:08	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	31214	08/02/22 12:00	SMC	XEN MID
Soluble	Analysis	300.0		1			31338	08/03/22 11:54	CH	XEN MID

Client Sample ID: HA-8

Lab Sample ID: 880-17520-27

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

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			31160	08/01/22 09:24	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31286	08/02/22 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			31239	08/02/22 15:55	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	31214	08/02/22 12:00	SMC	XEN MID
Soluble	Analysis	300.0		1			31338	08/03/22 12:02	CH	XEN MID

Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

Method	Method Description	Protocol	Laboratory
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

Laboratory References:

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

Eurofins Midland

Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17520-1
SDG: 1245

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-17520-1	P-1	Solid	07/28/22 00:00	07/29/22 14:28	0 - 0.5
880-17520-2	P-2	Solid	07/28/22 00:00	07/29/22 14:28	0 - 0.5
880-17520-3	P-3	Solid	07/28/22 00:00	07/29/22 14:28	0 - 0.5
880-17520-4	P-4	Solid	07/28/22 00:00	07/29/22 14:28	0 - 0.5
880-17520-5	P-5	Solid	07/28/22 00:00	07/29/22 14:28	0 - 0.5
880-17520-6	P-6	Solid	07/28/22 00:00	07/29/22 14:28	0 - 0.5
880-17520-7	P-7	Solid	07/28/22 00:00	07/29/22 14:28	0 - 0.5
880-17520-8	HA-1	Solid	07/28/22 00:00	07/29/22 14:28	0.5 - 1
880-17520-9	HA-1	Solid	07/28/22 00:00	07/29/22 14:28	1.5 - 2
880-17520-10	HA-1	Solid	07/28/22 00:00	07/29/22 14:28	2.5 - 3
880-17520-11	HA-2	Solid	07/28/22 00:00	07/29/22 14:28	0.5 - 1
880-17520-12	HA-2	Solid	07/28/22 00:00	07/29/22 14:28	1.5 - 2
880-17520-13	HA-2	Solid	07/28/22 00:00	07/29/22 14:28	2.5 - 3
880-17520-14	HA-3	Solid	07/28/22 00:00	07/29/22 14:28	0.5 - 1
880-17520-15	HA-3	Solid	07/28/22 00:00	07/29/22 14:28	1.5 - 2
880-17520-16	HA-4	Solid	07/28/22 00:00	07/29/22 14:28	0.5 - 1
880-17520-17	HA-4	Solid	07/28/22 00:00	07/29/22 14:28	1.5 - 2
880-17520-18	HA-4	Solid	07/28/22 00:00	07/29/22 14:28	2.5 - 3
880-17520-19	HA-5	Solid	07/28/22 00:00	07/29/22 14:28	0.5 - 1
880-17520-20	HA-5	Solid	07/28/22 00:00	07/29/22 14:28	1.5 - 2
880-17520-21	HA-5	Solid	07/28/22 00:00	07/29/22 14:28	2-2 - 2.5
880-17520-22	HA-6	Solid	07/28/22 00:00	07/29/22 14:28	0.5 - 1
880-17520-23	HA-6	Solid	07/28/22 00:00	07/29/22 14:28	1 - 1.5
880-17520-24	HA-7	Solid	07/28/22 00:00	07/29/22 14:28	0.5 - 1
880-17520-25	HA-7	Solid	07/28/22 00:00	07/29/22 14:28	1.5 - 2
880-17520-26	HA-7	Solid	07/28/22 00:00	07/29/22 14:28	2.5 - 3
880-17520-27	HA-8	Solid	07/28/22 00:00	07/29/22 14:28	0.5 - 1



Environment Testing
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Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300
Midland, TX (432) 704-5440 San Antonio TX (210) 509-3334
El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Work Order No:

17520

www.xenco.com Page 1 of 5

Project Manager	Tom Carlson	Bill to (if different)	Earth Systems
Company Name	Earth Systems R&R	Company Name	
Address	4115 S CR 1297	Address	
City, State ZIP	Odessa, Texas, 79765	City, State ZIP	
Phone	432-894-6385	Email	tcarlson@earthsys.net

Work Order Comments	
Program: UST/PST	PRF
State of Project:	Brownfields
Reporting Level II	Level III
Deliverables	EDD
	Adapt
	Other

Project Name	Marathon CTB130	Turn Around	Pres. Code	ANALYSIS REQUEST																Preservative Codes					
Project Number	1245	☐ Routine ☒ Rush																		None NO	DI Water H ₂ O				
Project Location		Due Date	8/4/2022																	Cool Cool	MeOH Me				
Sampler's Name	Tom Carlson	TAT starts the day received by the lab if received by 4:30pm																		HCL HC	HNO ₃ HN				
PO #																				H ₂ SO ₄ H ₂	NaOH Na				
SAMPLE RECEIPT																				H ₃ PO ₄ HP					
Samples Received Intact	Yes	Temp Blank	Yes	Wei Ice	Yes	No																	NaHSO ₄ NABIS		
Cooler Custody Seals	Yes	No	N/A	Thermometer ID																	Na ₂ S ₂ O ₃ NaSO ₃				
Sample Custody Seals	Yes	No	N/A	Correction Factor																	Zn Acetate+NaOH Zn				
Total Containers		Temperature Reading																			NaOH+Ascorbic Acid S APC				
		Corrected Temperature	S.9																						
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	TPH (8015)	Chlorides																	Sample Comments
P-1	S	7/28/2022		0-0.5	Grab	1	X	X																	
P-2	S	7/28/2022		0-0.5	Grab	1	X	X																	
P-3	S	7/28/2022		0-0.5	Grab	1	X	X																	
P-4	S	7/28/2022		0-0.5	Grab	1	X	X																	
P-5	S	7/28/2022		0-0.5	Grab	1	X	X																	
P-6	S	7/28/2022		0-0.5	Grab	1	X	X																	
P-7	S	7/28/2022		0-0.5	Grab	1	X	X																	

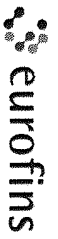


880-17520 Chain of Custody

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM	Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010	8RCRA SB AS BA BE CD CR CO CU PB MN MO NI SE AG TI U	Hg 1631 / 2451 / 7470 / 7471

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Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
		7/29/22			
		14:28			



Environment Testing
Xenco

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El Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Chain of Custody

Work Order No: 17520

www.xenco.com Page 2 of 5

Project Manager	Tom Carlson	Bill to (if different)	Earth Systems
Company Name	Earth Systems R&R	Company Name	
Address	4115 S CR 1297	Address	
City, State ZIP	Odessa, Texas, 79765	City, State ZIP	
Phone	432-894-6385	Email	tcarslson@earthsys.net

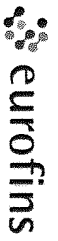
Program: UST/PST ☐ PRF ☐ Brownfield ☐ RRQ ☐ Superfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRF ☐ Level N ☐	Deliverables EDD ☐ ADAPT ☐ Other ☐

Project Name	Marathon CTB130		Turn Around	☐ Routine ☒ Rush	Pres. Code	ANALYSIS REQUEST													Preservative Codes					
Project Number	1245		Due Date	3/24/22															None NO	DI Water H ₂ O				
Project Location	Tom Carlson		TAT starts the day received by the lab if received by 4:30pm																	Cool Cool	MeOH Me			
Sample's Name	Tom Carlson																			HCL HC	HNO ₃ HN			
PO #																				H ₂ SO ₄ H ₂	NaOH Na			
SAMPLE RECEIPT		Temp Blank	Yes	No	Wet Ice	Yes	No														H ₃ PO ₄ HP			
Samples Received Intact		Yes	No	Thermometer ID														NaHSO ₄ NABIS						
Cooler Custody Seals		Yes	No	Correction Factor														Na ₂ S ₂ O ₃ NaSO ₃						
Sample Custody Seals		Yes	No	Temperature Reading														Zn Acetate+NaOH Zn						
Total Containers		Corrected Temperature																	NaOH+Ascorbic Acid SAPC					
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	TPH (8015)													Sample Comments			
HA-1		S	7/28/2022		0.5 - 1	Grab	1	X	X															
HA-1		S	7/28/2022		1.5 - 2	Grab	1	X	X															
HA-1		S	7/28/2022		2.5 - 3R	Grab	1	X	X															
HA-2		S	7/28/2022		0.5 - 1	Grab	1	X	X															
HA-2		S	7/28/2022		1.5 - 2	Grab	1	X	X															
HA-2		S	7/28/2022		2.5 - 3R	Grab	1	X	X															

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 245 1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1		7/29/22	2		
3		14:28	4		
5			6		



Environment Testing
Xenco

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Midland TX (432) 704-5440 San Antonio TX (210) 509-3334
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Hobbs, NM (575) 392-7550 Carlsbad NM (575) 988-3199

Chain of Custody

Work Order No: 17520

www.xenco.com Page 3 of 5

Project Manager	Tom Carlson	Bill to (if different)	Earth Systems
Company Name	Earth Systems R&R	Company Name	
Address	4115 S CR 1297	Address	
City, State ZIP	Odessa, Texas, 79765	City, State ZIP	
Phone	432-894-6385	Email	tcarslson@earthsys.net

Work Order Comments	
Program: UST/PST ☐ PRF ☐ Brownfield ☐ RRD ☐ Superfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRF ☐ Level N ☐	
Deliverables EDD ☐ ADAPT ☐ Other	

Project Name	Marathon CTB130	Turn Around	☐ Routine ☒ Rush	Pres. Code	14	ANALYSIS REQUEST																Preservative Codes				
Project Number	1245	Due Date	3/28/2022																			None NO	DI Water H ₂ O			
Project Location		TAT starts the day received by the lab if received by 4 30pm																				Cool Cool	MeOH Me			
Sample's Name	Tom Carlson																					HCL HC	HNO ₃ HN			
PO #																						H ₂ SO ₄ H ₂	NaOH Na			
SAMPLE RECEIPT	Temp Blank	Yes	No	Wet Ice	Yes	No																	H ₃ PO ₄ HP			
Samples Received Intact	Yes	No	Thermometer ID																	NaHSO ₄ NABIS						
Cooler Custody Seals	Yes	No	Correction Factor																	Na ₂ S ₂ O ₃ NaSO ₃						
Sample Custody Seals	Yes	No	Temperature Reading																	Zn Acetate+NaOH Zn						
Total Containers		Corrected Temperature																	NaOH+Ascorbic Acid SAPC							
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	TPH (8015)	Chlorides																	Sample Comments	
HA-3	S	7/28/2022		0.5 - 1	Grab	1	X	X																		
HA-3	S	7/28/2022		1.5 - 2R	Grab	1	X	X																		
HA-4	S	7/28/2022		0.5 - 1	Grab	1	X	X																		
HA-4	S	7/28/2022		1.5 - 2	Grab	1	X	X																		
HA-4	S	7/28/2022		2.5 - 3R	Grab	1	X	X																		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 245 1 / 7470 / 7471

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Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
		7/29/22			
		14:28			



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El Paso TX (915) 585-3443 Lubbock TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Chain of Custody

Work Order No: 17520

www.xenco.com Page 4 of 5

Project Manager	Tom Carlson	Bill to (if different)	Earth Systems
Company Name	Earth Systems R&R	Company Name	
Address	4115 S CR 1297	Address	
City, State ZIP	Odessa, Texas 79765	City, State ZIP	
Phone	432-894-6385	Email	tcarlson@earthsys.net

Work Order Comments	
Program: UST/PST ☐ PRF ☐ Brownfield ☐ RRD ☐ Superfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRF ☐ Level N ☐	
Deliverables EDD ☐ ADAPT ☐ Other	

Project Name	Marathon CTB130	Turn Around	☐ Routine ☒ Rush	Pres. Code		ANALYSIS REQUEST										Preservative Codes			
Project Number	1245	Due Date	7/29/2022													None NO	DI Water H ₂ O		
Project Location		TAT starts the day received by the lab, if received by 4:30pm														Cool Cool	MeOH Me		
Sample's Name	Tom Carlson															HCL HC	HNO ₃ HN		
PO #																H ₂ SO ₄ H ₂	NaOH Na		
SAMPLE RECEIPT		Temp Blank	Yes No	Well Ice	Yes No											H ₃ PO ₄ HP			
Samples Received Intact	Yes No	Thermometer ID														NaHSO ₄ NABIS			
Cooler Custody Seals	Yes No N/A	Correction Factor														Na ₂ S ₂ O ₃ NaSO ₃			
Sample Custody Seals	Yes No N/A	Temperature Reading														Zn Acetate+NaOH Zn			
Total Containers		Corrected Temperature														NaOH+Ascorbic Acid SAPC			
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	TPH (8015)	Chlorides											Sample Comments
HA-5	S	7/28/2022		0.5 - 1	Grab	1	X	X											
HA-5	S	7/28/2022		1.5 - 2	Grab	1	X	X											
HA-5	S	7/28/2022		2 - 2.5R	Grab	1	X	X											
HA-6	S	7/28/2022		0.5 - 1	Grab	1	X	X											
HA-6	S	7/28/2022		1 - 1.5R	Grab	1	X	X											

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 2451 / 7470 / 7471

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Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
		7/29/22			
		7/28			



Environment Testing
Xenco

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Midland TX (432) 704-5440 San Antonio TX (210) 509-3334
El Paso TX (915) 585-3443 Lubbock TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Chain of Custody

Work Order No:

17520

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Page 5 of 5

Project Manager	Tom Carlson	Bill to (if different)	Earth Systems
Company Name	Earth Systems R&R	Company Name	
Address	4115 S CR 1297	Address	
City, State ZIP	Odessa, Texas, 79765	City, State ZIP	
Phone	432-894-6385	Email	tcarslson@earthsys.net

Work Order Comments	
Program: UST/PST ☐ PRF ☐ Brownfields ☐ RRD ☐ Superfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level N ☐	
Deliverables EDD ☐ ADAPT ☐ Other	

Project Name	Marathon CTB130	Turn Around	☐ Routine ☒ Rush	Pres. Code	17520	ANALYSIS REQUEST		Preservative Codes
Project Number	1245	Due Date	5/17/2022					None NO DI Water H ₂ O
Project Location	Tom Carlson	TAT starts the day received by the lab if received by 4:30pm						Cool Cool MeOH Me
Sample's Name								HCL HC HNO ₃ HN
PO #								H ₂ SO ₄ H ₂ NaOH Na
SAMPLE RECEIPT	Temp Blank	Yes	No	Wet Ice	Yes	No		H ₃ PO ₄ HP
Samples Received Intact	Yes	No	Thermometer ID					NaHSO ₄ NABIS
Cooler Custody Seals	Yes	No	Correction Factor					Na ₂ S ₂ O ₃ NaSO ₃
Sample Custody Seals	Yes	No	Temperature Reading					Zn Acetate+NaOH Zn
Total Containers			Corrected Temperature					NaOH+Ascorbic Acid SAPC
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	TPH (8015)	Chlorides
HA-7	S	7/28/2022		0.5 - 1	Grab	1	X	X
HA-7	S	7/28/2022		1.5 - 2	Grab	1	X	X
HA-7	S	7/28/2022		2.5 - 3R	Grab	1	X	X
HA-8	S	7/28/2022		0.5 - 1R	Grab	1	X	X

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 245 1 / 7470 / 7471

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Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
		7/29/22			
		14.28			

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 880-17520-1

SDG Number: 1245

Login Number: 17520

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	



Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-17518-1
Laboratory Sample Delivery Group: 1245
Client Project/Site: Marathon CTB130

For:
Earth Systems Response and Restoration
4115 South County Road 1297
Odessa, Texas 79765

Attn: Kris Williams

Authorized for release by:
8/8/2022 1:58:40 PM

Brianna Teel, Project Manager
(432)704-5440
Brianna.Teel@et.eurofinsus.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Laboratory Job ID: 880-17518-1
SDG: 1245

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	5
Client Sample Results	7
Surrogate Summary	13
QC Sample Results	15
QC Association Summary	46
Lab Chronicle	50
Certification Summary	51
Method Summary	52
Sample Summary	53
Chain of Custody	54
Receipt Checklists	55

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

GC VOA

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

GC Semi VOA

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

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
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.
α	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)

Eurofins Midland

Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Job ID: 880-17518-1

Laboratory: Eurofins Midland

Narrative**Job Narrative
880-17518-1****Receipt**

The sample was received on 7/29/2022 2:28 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.9°C

GC/MS VOA

Method 8260C: The matrix spike (MS) recoveries for preparation batch 860-63124 and analytical batch 860-63225 were outside control limits. Sample matrix interference is suspected.

Method 8260C: The following sample was diluted due to the nature of the sample matrix: SP-1 (880-17518-1). Elevated reporting limits (RLs) are provided. Sample had a strong smell, prepped with methanol from a bulk jar.

Method 8260C: The following samples were diluted due to being a contaminated soil: (880-17502-A-1-C) and (880-17502-A-1-C MS). Elevated reporting limits (RL) are provided. Sample was prepped with methanol from a bulk jar.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: SP-1 (880-17518-1). Elevated reporting limits (RLs) are provided. Sample was prepped with methanol from a bulk jar.

Method 8260C: Surrogate, Toluene-d8 (Surrogate) recovery for the following sample was outside control limits: SP-1 (880-17518-1). Evidence of matrix interference is present.

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

GC/MS Semi VOA

Method 8270D: The following sample was diluted due to the nature of the sample matrix: SP-1 (880-17518-1). Elevated reporting limits (RLs) are provided.

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

GC VOA

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-31323 and analytical batch 880-31375 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-31337 and analytical batch 880-31375 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SP-1 (880-17518-1). 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: SP-1 (880-17518-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

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

Metals

Case Narrative

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Job ID: 880-17518-1 (Continued)

Laboratory: Eurofins Midland (Continued)

Method 6020A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-63194 and analytical batch 860-63459 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries were within acceptance limits,

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

General Chemistry

Method MOISTURE_2540G: Limited sample, not enough provided for a duplicate. SP-1 (880-17518-1)

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

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2
3
4
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6
7
8
9
10
11
12
13
14

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Client Sample ID: SP-1

Lab Sample ID: 880-17518-1

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 0 - 0.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	7.42		0.199		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
Bromobenzene	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
Bromochloromethane	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
Bromodichloromethane	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
Bromoform	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
Bromomethane	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
2-Butanone	<3.98	U	3.98		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
Carbon tetrachloride	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
Chlorobenzene	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
Chloroethane	<1.99	U **	1.99		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
Chloroform	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
Chloromethane	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
4-Chlorotoluene	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
cis-1,2-Dichloroethene	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
cis-1,3-Dichloropropene	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
Dibromochloromethane	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
1,2-Dibromo-3-Chloropropane	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
1,2-Dibromoethane	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
1,2-Dichlorobenzene	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
1,3-Dichlorobenzene	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
1,4-Dichlorobenzene	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
Dichlorodifluoromethane	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
1,1-Dichloroethane	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
1,2-Dichloroethane	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
1,1-Dichloroethene	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
1,2-Dichloropropane	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
1,3-Dichloropropane	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
2,2-Dichloropropane	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
1,1-Dichloropropene	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
Ethylbenzene	24.8		0.199		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
Hexachlorobutadiene	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
Isopropylbenzene	7.76		0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
Methylene Chloride	<3.98	U	3.98		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
MTBE	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
Naphthalene	4.12		1.99		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
n-Butylbenzene	10.2		0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
N-Propylbenzene	13.3		0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
p-Cymene (p-Isopropyltoluene)	4.15		0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
sec-Butylbenzene	6.66		0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
Styrene	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
tert-Butylbenzene	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
1,1,1,2-Tetrachloroethane	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
1,1,2,2-Tetrachloroethane	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
Tetrachloroethene	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
trans-1,2-Dichloroethene	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
trans-1,3-Dichloropropene	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
1,2,3-Trichlorobenzene	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
1,2,4-Trichlorobenzene	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Client Sample ID: SP-1

Lab Sample ID: 880-17518-1

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 0 - 0.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
1,1,2-Trichloroethane	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
Trichloroethene	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
Trichlorofluoromethane	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
1,2,3-Trichloropropane	<0.996	U	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200
Vinyl chloride	<0.996	U *	0.996		mg/Kg		08/01/22 15:30	08/02/22 15:06	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		68 - 152	08/01/22 15:30	08/02/22 15:06	200
Dibromofluoromethane (Surr)	85		53 - 142	08/01/22 15:30	08/02/22 15:06	200
1,2-Dichloroethane-d4 (Surr)	120		56 - 150	08/01/22 15:30	08/02/22 15:06	200
Toluene-d8 (Surr)	157	S1+	70 - 130	08/01/22 15:30	08/02/22 15:06	200

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	143		3.98		mg/Kg		08/01/22 15:30	08/02/22 15:30	2000
o-Xylene	47.1		1.99		mg/Kg		08/01/22 15:30	08/02/22 15:30	2000
Toluene	78.7		9.96		mg/Kg		08/01/22 15:30	08/02/22 15:30	2000
1,2,4-Trimethylbenzene	93.0		9.96		mg/Kg		08/01/22 15:30	08/02/22 15:30	2000
1,3,5-Trimethylbenzene	35.1		9.96		mg/Kg		08/01/22 15:30	08/02/22 15:30	2000
Xylenes, Total	190		3.98		mg/Kg		08/01/22 15:30	08/02/22 15:30	2000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		68 - 152	08/01/22 15:30	08/02/22 15:30	2000
Dibromofluoromethane (Surr)	99		53 - 142	08/01/22 15:30	08/02/22 15:30	2000
1,2-Dichloroethane-d4 (Surr)	120		56 - 150	08/01/22 15:30	08/02/22 15:30	2000
Toluene-d8 (Surr)	110		70 - 130	08/01/22 15:30	08/02/22 15:30	2000

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
1,2-Dichlorobenzene	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
1,3-Dichlorobenzene	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
1,4-Dichlorobenzene	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
2,4,5-Trichlorophenol	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
2,4,6-Trichlorophenol	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
2,4-Dichlorophenol	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
2,4-Dimethylphenol	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
2,4-Dinitrophenol	<3.33	U	3.33		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
2,4-Dinitrotoluene	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
2,6-Dinitrotoluene	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
2-Chloronaphthalene	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
2-Chlorophenol	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
2-Methylnaphthalene	9.42		1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
2-Methylphenol	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
2-Nitroaniline	<3.33	U	3.33		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
2-Nitrophenol	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
3 & 4 Methylphenol	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
3,3'-Dichlorobenzidine	<3.33	U	3.33		mg/Kg		08/03/22 08:31	08/04/22 15:16	10

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Client Sample ID: SP-1

Lab Sample ID: 880-17518-1

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 0 - 0.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	<3.33	U	3.33		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
4,6-Dinitro-2-methylphenol	<3.33	U	3.33		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
4-Bromophenyl phenyl ether	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
4-Chloro-3-methylphenol	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
4-Chloroaniline	<3.33	U	3.33		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
4-Chlorophenyl phenyl ether	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
4-Nitroaniline	<3.33	U	3.33		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
4-Nitrophenol	<3.33	U	3.33		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
Acenaphthene	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
Acenaphthylene	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
Aniline (Phenylamine, Aminobenzene)	<3.33	U	3.33		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
Anthracene	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
Benzo[a]anthracene	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
Benzo[a]pyrene	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
Benzo[b]fluoranthene	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
Benzo[g,h,i]perylene	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
Benzo[k]fluoranthene	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
Benzoic acid	<10.0	U	10.0		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
Butyl benzyl phthalate	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
Bis(2-chloroethoxy)methane	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
Bis(2-chloroethyl)ether	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
bis (2-chloroisopropyl) ether	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
Bis(2-ethylhexyl) phthalate	<3.33	U	3.33		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
Chrysene	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
Dibenz(a,h)anthracene	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
Dibenzofuran	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
Diethyl phthalate	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
Dimethyl phthalate	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
Di-n-butyl phthalate	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
Di-n-octyl phthalate	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
Fluoranthene	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
Fluorene	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
Hexachlorobenzene	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
Hexachlorobutadiene	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
Hexachlorocyclopentadiene	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
Hexachloroethane	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
Indeno[1,2,3-cd]pyrene	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
Isophorone	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
Naphthalene	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
Nitrobenzene	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
N-Nitrosodi-n-propylamine	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
N-Nitrosodiphenylamine	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
Pentachlorophenol	<3.33	U	3.33		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
Phenanthrene	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
Phenol	<3.33	U	3.33		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
Pyrene	<1.67	U	1.67		mg/Kg		08/03/22 08:31	08/04/22 15:16	10
Pyridine	<3.33	U	3.33		mg/Kg		08/03/22 08:31	08/04/22 15:16	10

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Client Sample ID: SP-1

Lab Sample ID: 880-17518-1

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 0 - 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
1,2-Dichlorobenzene	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
1,3-Dichlorobenzene	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
1,4-Dichlorobenzene	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
2,4,5-Trichlorophenol	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
2,4,6-Trichlorophenol	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
2,4-Dichlorophenol	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
2,4-Dimethylphenol	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
2,4-Dinitrophenol	<3.33	U	3.33		mg/L		08/03/22 08:31	08/04/22 15:16	10
2,4-Dinitrotoluene	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
2,6-Dinitrotoluene	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
2-Chloronaphthalene	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
2-Chlorophenol	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
2-Methylnaphthalene	9.42		1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
2-Methylphenol	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
2-Nitroaniline	<3.33	U	3.33		mg/L		08/03/22 08:31	08/04/22 15:16	10
2-Nitrophenol	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
3 & 4 Methylphenol	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
3,3'-Dichlorobenzidine	<3.33	U	3.33		mg/L		08/03/22 08:31	08/04/22 15:16	10
3-Nitroaniline	<3.33	U	3.33		mg/L		08/03/22 08:31	08/04/22 15:16	10
4,6-Dinitro-2-methylphenol	<3.33	U	3.33		mg/L		08/03/22 08:31	08/04/22 15:16	10
4-Bromophenyl phenyl ether	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
4-Chloro-3-methylphenol	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
4-Chloroaniline	<3.33	U	3.33		mg/L		08/03/22 08:31	08/04/22 15:16	10
4-Chlorophenyl phenyl ether	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
4-Nitroaniline	<3.33	U	3.33		mg/L		08/03/22 08:31	08/04/22 15:16	10
4-Nitrophenol	<3.33	U	3.33		mg/L		08/03/22 08:31	08/04/22 15:16	10
Acenaphthene	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
Acenaphthylene	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
Aniline (Phenylamine, Aminobenzene)	<3.33	U	3.33		mg/L		08/03/22 08:31	08/04/22 15:16	10
Anthracene	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
Benzo[a]anthracene	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
Benzo[a]pyrene	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
Benzo[b]fluoranthene	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
Benzo[g,h,i]perylene	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
Benzo[k]fluoranthene	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
Benzoic acid	<10.0	U	10.0		mg/L		08/03/22 08:31	08/04/22 15:16	10
Butyl benzyl phthalate	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
Bis(2-chloroethoxy)methane	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
Bis(2-chloroethyl)ether	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
bis (2-chloroisopropyl) ether	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
Bis(2-ethylhexyl) phthalate	<3.33	U	3.33		mg/L		08/03/22 08:31	08/04/22 15:16	10
Chrysene	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
Dibenz(a,h)anthracene	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
Dibenzofuran	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
Diethyl phthalate	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
Dimethyl phthalate	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
Di-n-butyl phthalate	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
Di-n-octyl phthalate	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Client Sample ID: SP-1

Lab Sample ID: 880-17518-1

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 0 - 0.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
Fluorene	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
Hexachlorobenzene	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
Hexachlorobutadiene	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
Hexachlorocyclopentadiene	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
Hexachloroethane	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
Indeno[1,2,3-cd]pyrene	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
Isophorone	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
Naphthalene	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
Nitrobenzene	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
N-Nitrosodi-n-propylamine	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
N-Nitrosodiphenylamine	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
Pentachlorophenol	<3.33	U	3.33		mg/L		08/03/22 08:31	08/04/22 15:16	10
Phenanthrene	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
Phenol	<3.33	U	3.33		mg/L		08/03/22 08:31	08/04/22 15:16	10
Pyrene	<1.67	U	1.67		mg/L		08/03/22 08:31	08/04/22 15:16	10
Pyridine	<3.33	U	3.33		mg/L		08/03/22 08:31	08/04/22 15:16	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	71		19 - 122	08/03/22 08:31	08/04/22 15:16	10
2-Fluorobiphenyl (Surr)	81		30 - 115	08/03/22 08:31	08/04/22 15:16	10
2-Fluorophenol (Surr)	29		25 - 121	08/03/22 08:31	08/04/22 15:16	10
Nitrobenzene-d5 (Surr)	69		23 - 129	08/03/22 08:31	08/04/22 15:16	10
p-Terphenyl-d14 (Surr)	92		18 - 137	08/03/22 08:31	08/04/22 15:16	10
Phenol-d5 (Surr)	37		24 - 113	08/03/22 08:31	08/04/22 15:16	10

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	134		2.08		mg/Kg			08/04/22 09:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	23300		520		mg/Kg			08/04/22 09:51	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<3.70	U	3.70		mg/Kg		08/01/22 20:31	08/02/22 22:15	10
Barium	228		3.70		mg/Kg		08/01/22 20:31	08/02/22 22:15	10
Cadmium	<1.85	U	1.85		mg/Kg		08/01/22 20:31	08/02/22 22:15	10
Chromium	5.71		3.70		mg/Kg		08/01/22 20:31	08/02/22 22:15	10
Lead	2.04		1.85		mg/Kg		08/01/22 20:31	08/02/22 22:15	10
Manganese	40.4		1.85		mg/Kg		08/01/22 20:31	08/02/22 22:15	10
Nickel	5.25		1.85		mg/Kg		08/01/22 20:31	08/02/22 22:15	10
Selenium	<1.85	U	1.85		mg/Kg		08/01/22 20:31	08/02/22 22:15	10
Silver	<1.85	U	1.85		mg/Kg		08/01/22 20:31	08/03/22 15:42	10
Zinc	15.1		3.70		mg/Kg		08/01/22 20:31	08/02/22 22:15	10

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0169	U	0.0169		mg/Kg		08/01/22 11:27	08/01/22 16:12	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Client Sample ID: SP-1

Lab Sample ID: 880-17518-1

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Sample Depth: 0 - 0.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>180		1.00		Degrees F			08/01/22 15:49	1
Cyanide, Reactive	<0.0250	U	0.0250		mg/Kg		08/01/22 09:29	08/01/22 15:16	1
Sulfide, Reactive	<6.25	U	6.25		mg/Kg		08/01/22 09:29	08/01/22 16:17	1
Percent Moisture	4.03		0.100		%			08/02/22 08:30	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.8	HF			SU			08/02/22 14:37	1
Temperature	22.3	HF			Deg. C			08/02/22 14:37	1

Client Sample ID: SP-1

Lab Sample ID: 880-17518-1

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Percent Solids: 96.0

Sample Depth: 0 - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	14.1		0.210		mg/Kg	☼	08/02/22 13:15	08/03/22 13:11	100
Toluene	8.45		0.210		mg/Kg	☼	08/02/22 13:15	08/03/22 13:11	100
Ethylbenzene	21.7	*- *1	1.04		mg/Kg	☼	08/02/22 14:44	08/04/22 00:18	500
m-Xylene & p-Xylene	87.6	*- *1	2.08		mg/Kg	☼	08/02/22 14:44	08/04/22 00:18	500
o-Xylene	1.99		0.210		mg/Kg	☼	08/02/22 13:15	08/03/22 13:11	100
Xylenes, Total	116	*1	2.08		mg/Kg	☼	08/02/22 14:44	08/04/22 00:18	500
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	201	S1+	70 - 130				08/02/22 13:15	08/03/22 13:11	100
1,4-Difluorobenzene (Surr)	107		70 - 130				08/02/22 13:15	08/03/22 13:11	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	6240		520		mg/Kg	☼	07/29/22 15:32	08/01/22 07:52	10
Diesel Range Organics (Over C10-C28)	15300		520		mg/Kg	☼	07/29/22 15:32	08/01/22 07:52	10
Oil Range Organics (Over C28-C36)	1800		520		mg/Kg	☼	07/29/22 15:32	08/01/22 07:52	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130				07/29/22 15:32	08/01/22 07:52	10
o-Terphenyl	121		70 - 130				07/29/22 15:32	08/01/22 07:52	10

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (68-152)	DBFM (53-142)	DCA (56-150)	TOL (70-130)
880-17502-A-1-C MS	Matrix Spike	97	100	109	97
880-17518-1	SP-1	112	85	120	157 S1+
880-17518-1 - DL	SP-1	104	99	120	110
LCS 860-63225/3	Lab Control Sample	97	104	114	98
LCSD 860-63225/4	Lab Control Sample Dup	99	103	116	98
MB 860-63225/8	Method Blank	98	100	116	101

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (19-122)	FBP (30-115)	2FP (25-121)	NBZ (23-129)	TPHd14 (18-137)	PHL (24-113)
860-30528-A-1-G MS	Matrix Spike	73	77	79	68	87	82
860-30528-A-1-H MSD	Matrix Spike Duplicate	75	76	74	71	83	78
880-17518-1	SP-1	71	81	29	69	92	37
LCS 860-63375/2-A	Lab Control Sample	81	84	85	84	92	91
LCSD 860-63375/3-A	Lab Control Sample Dup	75	85	88	75	84	90
MB 860-63375/1-A	Method Blank	66	97	84	82	100	82

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

PHL = Phenol-d5 (Surr)

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-17518-1	SP-1	201 S1+	107
880-17607-A-1-A MS	Matrix Spike	107	102
880-17607-A-1-B MSD	Matrix Spike Duplicate	103	99
890-2656-A-1-F MS	Matrix Spike	104	96
890-2656-A-1-G MSD	Matrix Spike Duplicate	106	93
LCS 880-31323/1-A	Lab Control Sample	102	97
LCS 880-31337/1-A	Lab Control Sample	113	93
LCSD 880-31323/2-A	Lab Control Sample Dup	103	96
LCSD 880-31337/2-A	Lab Control Sample Dup	90	87
MB 880-31323/5-A	Method Blank	106	87
MB 880-31337/5-A	Method Blank	99	87

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

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)
880-17518-1	SP-1	136 S1+	121
880-17520-A-21-B MS	Matrix Spike	87	89
880-17520-A-21-C MSD	Matrix Spike Duplicate	83	87
LCS 880-31028/2-A	Lab Control Sample	76	81
LCSD 880-31028/3-A	Lab Control Sample Dup	73	77
MB 880-31028/1-A	Method Blank	84	103

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: 880-17502-A-1-C MS

Matrix: Solid

Analysis Batch: 63225

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 63124

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.0248	U	1.24	1.076		mg/Kg		87	71 - 119
Bromobenzene	<0.124	U	1.24	1.068		mg/Kg		86	84 - 123
Bromochloromethane	<0.124	U	1.24	1.039		mg/Kg		84	71 - 120
Bromodichloromethane	<0.124	U	1.24	1.217		mg/Kg		98	78 - 126
Bromoform	<0.124	U	1.24	1.028		mg/Kg		83	63 - 136
Bromomethane	<0.124	U F1	1.24	0.4138	F1	mg/Kg		33	73 - 126
2-Butanone	2.99		6.19	8.970		mg/Kg		97	75 - 125
Carbon tetrachloride	<0.124	U	1.24	1.157		mg/Kg		94	63 - 135
Chlorobenzene	<0.124	U	1.24	1.084		mg/Kg		88	83 - 121
Chloroethane	<0.248	U ** F1	1.24	0.3377	F1	mg/Kg		27	57 - 122
Chloroform	<0.124	U	1.24	1.272		mg/Kg		103	74 - 118
Chloromethane	<0.124	U	1.24	1.285		mg/Kg		104	58 - 110
4-Chlorotoluene	<0.124	U	1.24	1.232		mg/Kg		100	83 - 125
cis-1,2-Dichloroethene	<0.124	U	1.24	1.285		mg/Kg		104	72 - 131
cis-1,3-Dichloropropene	<0.124	U	1.24	1.242		mg/Kg		100	74 - 135
Dibromochloromethane	<0.124	U	1.24	1.170		mg/Kg		95	77 - 130
1,2-Dibromo-3-Chloropropane	<0.124	U	1.24	1.124		mg/Kg		91	58 - 133
1,2-Dibromoethane	<0.124	U	1.24	1.118		mg/Kg		90	73 - 125
1,2-Dichlorobenzene	<0.124	U	1.24	1.194		mg/Kg		96	84 - 121
1,3-Dichlorobenzene	<0.124	U	1.24	1.209		mg/Kg		98	84 - 124
1,4-Dichlorobenzene	<0.124	U	1.24	1.148		mg/Kg		93	82 - 120
Dichlorodifluoromethane	<0.124	U	1.24	0.9519		mg/Kg		77	54 - 122
1,1-Dichloroethane	<0.124	U	1.24	1.242		mg/Kg		100	73 - 124
1,2-Dichloroethane	<0.124	U	1.24	1.276		mg/Kg		103	70 - 123
1,1-Dichloroethene	<0.124	U	1.24	1.026		mg/Kg		83	68 - 119
1,2-Dichloropropane	<0.124	U	1.24	1.190		mg/Kg		96	75 - 122
1,3-Dichloropropane	<0.124	U	1.24	1.227		mg/Kg		99	82 - 131
2,2-Dichloropropane	<0.124	U	1.24	1.412		mg/Kg		114	67 - 137
1,1-Dichloropropene	<0.124	U	1.24	1.123		mg/Kg		91	72 - 118
Ethylbenzene	<0.0248	U	1.24	1.166		mg/Kg		94	80 - 123
Hexachlorobutadiene	<0.124	U	1.24	1.093		mg/Kg		88	77 - 130
Isopropylbenzene	<0.124	U	1.24	1.245		mg/Kg		101	55 - 155
Methylene Chloride	<0.495	U	1.24	1.148		mg/Kg		93	57 - 134
m,p-Xylenes	<0.0495	U	1.24	1.243		mg/Kg		98	78 - 127
MTBE	<0.124	U	1.24	1.333		mg/Kg		108	64 - 148
Naphthalene	<0.248	U	1.24	1.171		mg/Kg		95	53 - 162
n-Butylbenzene	<0.124	U	1.24	1.400		mg/Kg		113	82 - 127
N-Propylbenzene	<0.124	U	1.24	1.216		mg/Kg		98	84 - 131
o-Xylene	<0.0248	U	1.24	1.252		mg/Kg		101	79 - 125
p-Cymene (p-Isopropyltoluene)	<0.124	U	1.24	1.356		mg/Kg		110	84 - 130
sec-Butylbenzene	<0.124	U	1.24	1.343		mg/Kg		108	84 - 131
Styrene	<0.124	U	1.24	1.242		mg/Kg		100	80 - 126
tert-Butylbenzene	<0.124	U	1.24	1.310		mg/Kg		106	83 - 132
1,1,1,2-Tetrachloroethane	<0.124	U	1.24	1.193		mg/Kg		96	81 - 127
1,1,2,2-Tetrachloroethane	<0.124	U	1.24	1.077		mg/Kg		87	75 - 133
Tetrachloroethene	<0.124	U	1.24	1.041		mg/Kg		84	79 - 124
Toluene	<0.124	U	1.24	1.087		mg/Kg		88	74 - 122
trans-1,2-Dichloroethene	<0.124	U	1.24	1.036		mg/Kg		84	63 - 110

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 880-17502-A-1-C MS

Matrix: Solid

Analysis Batch: 63225

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 63124

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,3-Dichloropropene	<0.124	U	1.24	1.339		mg/Kg		108	73 - 125
1,2,3-Trichlorobenzene	<0.124	U	1.24	1.071		mg/Kg		87	75 - 131
1,2,4-Trichlorobenzene	<0.124	U	1.24	1.176		mg/Kg		95	79 - 128
1,1,1-Trichloroethane	<0.124	U	1.24	1.273		mg/Kg		103	71 - 124
1,1,2-Trichloroethane	<0.124	U	1.24	1.156		mg/Kg		93	75 - 131
Trichloroethene	<0.124	U	1.24	1.112		mg/Kg		90	78 - 119
Trichlorofluoromethane	<0.124	U F1	1.24	0.3981	F1	mg/Kg		32	71 - 148
1,2,3-Trichloropropane	<0.124	U	1.24	1.113		mg/Kg		90	75 - 131
1,2,4-Trimethylbenzene	<0.124	U	1.24	1.409		mg/Kg		106	60 - 159
1,3,5-Trimethylbenzene	<0.124	U	1.24	1.273		mg/Kg		103	61 - 160
Vinyl chloride	<0.124	U **	1.24	1.237		mg/Kg		100	60 - 123

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		68 - 152
Dibromofluoromethane (Surr)	100		53 - 142
1,2-Dichloroethane-d4 (Surr)	109		56 - 150
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: MB 860-63225/8

Matrix: Solid

Analysis Batch: 63225

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg			08/02/22 14:20	1
Bromobenzene	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
Bromochloromethane	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
Bromodichloromethane	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
Bromoform	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
Bromomethane	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
2-Butanone	<0.0200	U	0.0200		mg/Kg			08/02/22 14:20	1
Carbon tetrachloride	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
Chlorobenzene	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
Chloroethane	<0.0100	U	0.0100		mg/Kg			08/02/22 14:20	1
Chloroform	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
Chloromethane	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
4-Chlorotoluene	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
cis-1,2-Dichloroethene	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
cis-1,3-Dichloropropene	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
Dibromochloromethane	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
1,2-Dibromo-3-Chloropropane	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
1,2-Dibromoethane	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
1,2-Dichlorobenzene	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
1,3-Dichlorobenzene	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
1,4-Dichlorobenzene	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
Dichlorodifluoromethane	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
1,1-Dichloroethane	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
1,2-Dichloroethane	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
1,1-Dichloroethene	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-63225/8

Matrix: Solid

Analysis Batch: 63225

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
1,3-Dichloropropane	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
2,2-Dichloropropane	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
1,1-Dichloropropene	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg			08/02/22 14:20	1
Hexachlorobutadiene	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
Isopropylbenzene	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
Methylene Chloride	<0.0200	U	0.0200		mg/Kg			08/02/22 14:20	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg			08/02/22 14:20	1
MTBE	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
Naphthalene	<0.0100	U	0.0100		mg/Kg			08/02/22 14:20	1
n-Butylbenzene	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
N-Propylbenzene	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
o-Xylene	<0.00100	U	0.00100		mg/Kg			08/02/22 14:20	1
p-Cymene (p-Isopropyltoluene)	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
sec-Butylbenzene	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
Styrene	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
tert-Butylbenzene	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
1,1,1,2-Tetrachloroethane	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
1,1,2,2-Tetrachloroethane	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
Tetrachloroethene	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
Toluene	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
trans-1,2-Dichloroethene	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
trans-1,3-Dichloropropene	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
1,2,3-Trichlorobenzene	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
1,2,4-Trichlorobenzene	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
1,1,1-Trichloroethane	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
1,1,2-Trichloroethane	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
Trichloroethene	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
Trichlorofluoromethane	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
1,2,3-Trichloropropane	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
1,2,4-Trimethylbenzene	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
1,3,5-Trimethylbenzene	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
Vinyl chloride	<0.00500	U	0.00500		mg/Kg			08/02/22 14:20	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg			08/02/22 14:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		68 - 152		08/02/22 14:20	1
Dibromofluoromethane (Surr)	100		53 - 142		08/02/22 14:20	1
1,2-Dichloroethane-d4 (Surr)	116		56 - 150		08/02/22 14:20	1
Toluene-d8 (Surr)	101		70 - 130		08/02/22 14:20	1

Lab Sample ID: LCS 860-63225/3

Matrix: Solid

Analysis Batch: 63225

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04641		mg/Kg		93	66 - 142

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-63225/3

Matrix: Solid

Analysis Batch: 63225

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromobenzene	0.0500	0.04794		mg/Kg		96	75 - 130
Bromochloromethane	0.0500	0.04960		mg/Kg		99	71 - 130
Bromodichloromethane	0.0500	0.05954		mg/Kg		119	78 - 130
Bromoform	0.0500	0.05505		mg/Kg		110	63 - 136
Bromomethane	0.0500	0.05452		mg/Kg		109	60 - 140
2-Butanone	0.250	0.2711		mg/Kg		108	75 - 130
Carbon tetrachloride	0.0500	0.05361		mg/Kg		107	63 - 135
Chlorobenzene	0.0500	0.04723		mg/Kg		94	83 - 130
Chloroethane	0.0500	0.06887	*+	mg/Kg		138	57 - 130
Chloroform	0.0500	0.05432		mg/Kg		109	74 - 130
Chloromethane	0.0500	0.05215		mg/Kg		104	58 - 130
4-Chlorotoluene	0.0500	0.05127		mg/Kg		103	83 - 130
cis-1,2-Dichloroethene	0.0500	0.05388		mg/Kg		108	72 - 131
cis-1,3-Dichloropropene	0.0500	0.05860		mg/Kg		117	74 - 135
Dibromochloromethane	0.0500	0.05571		mg/Kg		111	77 - 130
1,2-Dibromo-3-Chloropropane	0.0500	0.05415		mg/Kg		108	58 - 133
1,2-Dibromoethane	0.0500	0.04886		mg/Kg		98	73 - 130
1,2-Dichlorobenzene	0.0500	0.05205		mg/Kg		104	84 - 130
1,3-Dichlorobenzene	0.0500	0.04998		mg/Kg		100	84 - 130
1,4-Dichlorobenzene	0.0500	0.04914		mg/Kg		98	82 - 130
Dichlorodifluoromethane	0.0500	0.04493		mg/Kg		90	54 - 130
1,1-Dichloroethane	0.0500	0.05044		mg/Kg		101	73 - 130
1,2-Dichloroethane	0.0500	0.05852		mg/Kg		117	70 - 130
1,1-Dichloroethene	0.0500	0.04300		mg/Kg		86	68 - 130
1,2-Dichloropropane	0.0500	0.05226		mg/Kg		105	75 - 130
1,3-Dichloropropane	0.0500	0.05188		mg/Kg		104	82 - 131
2,2-Dichloropropane	0.0500	0.05992		mg/Kg		120	67 - 137
1,1-Dichloropropene	0.0500	0.04732		mg/Kg		95	72 - 130
Ethylbenzene	0.0500	0.04984		mg/Kg		100	80 - 130
Hexachlorobutadiene	0.0500	0.05927		mg/Kg		119	77 - 130
Isopropylbenzene	0.0500	0.05404		mg/Kg		108	55 - 155
Methylene Chloride	0.0500	0.04756		mg/Kg		95	57 - 134
m,p-Xylenes	0.0500	0.05109		mg/Kg		102	78 - 130
MTBE	0.0500	0.05959		mg/Kg		119	64 - 148
Naphthalene	0.0500	0.05680		mg/Kg		114	53 - 150
n-Butylbenzene	0.0500	0.05886		mg/Kg		118	82 - 130
N-Propylbenzene	0.0500	0.05148		mg/Kg		103	84 - 131
o-Xylene	0.0500	0.05296		mg/Kg		106	79 - 130
p-Cymene (p-Isopropyltoluene)	0.0500	0.05547		mg/Kg		111	84 - 130
sec-Butylbenzene	0.0500	0.05412		mg/Kg		108	84 - 131
Styrene	0.0500	0.05446		mg/Kg		109	80 - 130
tert-Butylbenzene	0.0500	0.05299		mg/Kg		106	83 - 132
1,1,1,2-Tetrachloroethane	0.0500	0.05322		mg/Kg		106	81 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.04987		mg/Kg		100	75 - 133
Tetrachloroethene	0.0500	0.04379		mg/Kg		88	79 - 130
Toluene	0.0500	0.04496		mg/Kg		90	74 - 130
trans-1,2-Dichloroethene	0.0500	0.04248		mg/Kg		85	63 - 130
trans-1,3-Dichloropropene	0.0500	0.05913		mg/Kg		118	73 - 130
1,2,3-Trichlorobenzene	0.0500	0.05472		mg/Kg		109	75 - 131

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-63225/3

Matrix: Solid

Analysis Batch: 63225

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	0.0500	0.05835		mg/Kg		117	79 - 130
1,1,1-Trichloroethane	0.0500	0.05565		mg/Kg		111	71 - 130
1,1,2-Trichloroethane	0.0500	0.04951		mg/Kg		99	75 - 131
Trichloroethene	0.0500	0.04834		mg/Kg		97	78 - 130
Trichlorofluoromethane	0.0500	0.06621		mg/Kg		132	71 - 148
1,2,3-Trichloropropane	0.0500	0.05180		mg/Kg		104	75 - 131
1,2,4-Trimethylbenzene	0.0500	0.05214		mg/Kg		104	60 - 159
1,3,5-Trimethylbenzene	0.0500	0.05147		mg/Kg		103	61 - 160
Vinyl chloride	0.0500	0.06092		mg/Kg		122	60 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		68 - 152
Dibromofluoromethane (Surr)	104		53 - 142
1,2-Dichloroethane-d4 (Surr)	114		56 - 150
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: LCSD 860-63225/4

Matrix: Solid

Analysis Batch: 63225

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.04517		mg/Kg		90	66 - 142	3	25
Bromobenzene	0.0500	0.04757		mg/Kg		95	75 - 130	1	25
Bromochloromethane	0.0500	0.04750		mg/Kg		95	71 - 130	4	25
Bromodichloromethane	0.0500	0.05582		mg/Kg		112	78 - 130	6	25
Bromoform	0.0500	0.05248		mg/Kg		105	63 - 136	5	25
Bromomethane	0.0500	0.05858		mg/Kg		117	60 - 140	7	25
2-Butanone	0.250	0.2549		mg/Kg		102	75 - 130	6	25
Carbon tetrachloride	0.0500	0.04958		mg/Kg		99	63 - 135	8	25
Chlorobenzene	0.0500	0.04533		mg/Kg		91	83 - 130	4	25
Chloroethane	0.0500	0.07552	*+	mg/Kg		151	57 - 130	9	25
Chloroform	0.0500	0.05150		mg/Kg		103	74 - 130	5	25
Chloromethane	0.0500	0.05831		mg/Kg		117	58 - 130	11	25
4-Chlorotoluene	0.0500	0.04901		mg/Kg		98	83 - 130	4	25
cis-1,2-Dichloroethene	0.0500	0.05092		mg/Kg		102	72 - 131	6	25
cis-1,3-Dichloropropene	0.0500	0.05535		mg/Kg		111	74 - 135	6	25
Dibromochloromethane	0.0500	0.05370		mg/Kg		107	77 - 130	4	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05193		mg/Kg		104	58 - 133	4	25
1,2-Dibromoethane	0.0500	0.04622		mg/Kg		92	73 - 130	6	25
1,2-Dichlorobenzene	0.0500	0.04937		mg/Kg		99	84 - 130	5	25
1,3-Dichlorobenzene	0.0500	0.04823		mg/Kg		96	84 - 130	4	25
1,4-Dichlorobenzene	0.0500	0.04774		mg/Kg		95	82 - 130	3	25
Dichlorodifluoromethane	0.0500	0.04855		mg/Kg		97	54 - 130	8	25
1,1-Dichloroethane	0.0500	0.04849		mg/Kg		97	73 - 130	4	25
1,2-Dichloroethane	0.0500	0.05718		mg/Kg		114	70 - 130	2	25
1,1-Dichloroethene	0.0500	0.04048		mg/Kg		81	68 - 130	6	25
1,2-Dichloropropane	0.0500	0.05108		mg/Kg		102	75 - 130	2	25
1,3-Dichloropropane	0.0500	0.04975		mg/Kg		99	82 - 131	4	25

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-63225/4

Matrix: Solid

Analysis Batch: 63225

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,2-Dichloropropane	0.0500	0.05649		mg/Kg		113	67 - 137	6	25
1,1-Dichloropropene	0.0500	0.04458		mg/Kg		89	72 - 130	6	25
Ethylbenzene	0.0500	0.04661		mg/Kg		93	80 - 130	7	25
Hexachlorobutadiene	0.0500	0.05416		mg/Kg		108	77 - 130	9	25
Isopropylbenzene	0.0500	0.05132		mg/Kg		103	55 - 155	5	25
Methylene Chloride	0.0500	0.04571		mg/Kg		91	57 - 134	4	25
m,p-Xylenes	0.0500	0.04791		mg/Kg		96	78 - 130	6	25
MTBE	0.0500	0.05669		mg/Kg		113	64 - 148	5	25
Naphthalene	0.0500	0.05468		mg/Kg		109	53 - 150	4	25
n-Butylbenzene	0.0500	0.05467		mg/Kg		109	82 - 130	7	25
N-Propylbenzene	0.0500	0.04869		mg/Kg		97	84 - 131	6	25
o-Xylene	0.0500	0.05119		mg/Kg		102	79 - 130	3	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05224		mg/Kg		104	84 - 130	6	25
sec-Butylbenzene	0.0500	0.05126		mg/Kg		103	84 - 131	5	25
Styrene	0.0500	0.05225		mg/Kg		104	80 - 130	4	25
tert-Butylbenzene	0.0500	0.05064		mg/Kg		101	83 - 132	5	25
1,1,1,2-Tetrachloroethane	0.0500	0.05110		mg/Kg		102	81 - 130	4	25
1,1,2,2-Tetrachloroethane	0.0500	0.04914		mg/Kg		98	75 - 133	1	25
Tetrachloroethene	0.0500	0.03994		mg/Kg		80	79 - 130	9	25
Toluene	0.0500	0.04169		mg/Kg		83	74 - 130	8	25
trans-1,2-Dichloroethene	0.0500	0.04078		mg/Kg		82	63 - 130	4	25
trans-1,3-Dichloropropene	0.0500	0.05796		mg/Kg		116	73 - 130	2	25
1,2,3-Trichlorobenzene	0.0500	0.05200		mg/Kg		104	75 - 131	5	25
1,2,4-Trichlorobenzene	0.0500	0.05595		mg/Kg		112	79 - 130	4	25
1,1,1-Trichloroethane	0.0500	0.05158		mg/Kg		103	71 - 130	8	25
1,1,2-Trichloroethane	0.0500	0.04819		mg/Kg		96	75 - 131	3	25
Trichloroethene	0.0500	0.04566		mg/Kg		91	78 - 130	6	25
Trichlorofluoromethane	0.0500	0.07193		mg/Kg		144	71 - 148	8	25
1,2,3-Trichloropropane	0.0500	0.05036		mg/Kg		101	75 - 131	3	25
1,2,4-Trimethylbenzene	0.0500	0.05094		mg/Kg		102	60 - 159	2	25
1,3,5-Trimethylbenzene	0.0500	0.04932		mg/Kg		99	61 - 160	4	25
Vinyl chloride	0.0500	0.06694	*+	mg/Kg		134	60 - 130	9	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		68 - 152
Dibromofluoromethane (Surr)	103		53 - 142
1,2-Dichloroethane-d4 (Surr)	116		56 - 150
Toluene-d8 (Surr)	98		70 - 130

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-63375/1-A

Matrix: Solid

Analysis Batch: 63483

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63375

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
1,2-Dichlorobenzene	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
1,3-Dichlorobenzene	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-63375/1-A

Matrix: Solid

Analysis Batch: 63483

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63375

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
2,4,5-Trichlorophenol	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
2,4,6-Trichlorophenol	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
2,4-Dichlorophenol	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
2,4-Dimethylphenol	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
2,4-Dinitrophenol	<0.333	U	0.333		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
2,4-Dinitrotoluene	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
2,6-Dinitrotoluene	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
2-Chloronaphthalene	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
2-Chlorophenol	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
2-Methylnaphthalene	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
2-Methylphenol	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
2-Nitroaniline	<0.333	U	0.333		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
2-Nitrophenol	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
3 & 4 Methylphenol	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
3,3'-Dichlorobenzidine	<0.333	U	0.333		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
3-Nitroaniline	<0.333	U	0.333		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
4,6-Dinitro-2-methylphenol	<0.333	U	0.333		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
4-Bromophenyl phenyl ether	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
4-Chloro-3-methylphenol	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
4-Chloroaniline	<0.333	U	0.333		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
4-Chlorophenyl phenyl ether	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
4-Nitroaniline	<0.333	U	0.333		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
4-Nitrophenol	<0.333	U	0.333		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
Acenaphthene	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
Acenaphthylene	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
Aniline (Phenylamine, Aminobenzene)	<0.333	U	0.333		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
Anthracene	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
Benzo[a]anthracene	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
Benzo[a]pyrene	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
Benzo[b]fluoranthene	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
Benzo[g,h,i]perylene	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
Benzo[k]fluoranthene	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
Benzoic acid	<1.00	U	1.00		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
Butyl benzyl phthalate	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
Bis(2-chloroethoxy)methane	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
Bis(2-chloroethyl)ether	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
bis (2-chloroisopropyl) ether	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
Bis(2-ethylhexyl) phthalate	<0.333	U	0.333		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
Chrysene	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
Dibenz(a,h)anthracene	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
Dibenzofuran	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
Diethyl phthalate	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
Dimethyl phthalate	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
Di-n-butyl phthalate	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
Di-n-octyl phthalate	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
Fluoranthene	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
Fluorene	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
Hexachlorobenzene	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-63375/1-A

Matrix: Solid

Analysis Batch: 63483

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63375

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
Hexachlorocyclopentadiene	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
Hexachloroethane	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
Indeno[1,2,3-cd]pyrene	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
Isophorone	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
Naphthalene	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
Nitrobenzene	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
N-Nitrosodi-n-propylamine	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
N-Nitrosodiphenylamine	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
Pentachlorophenol	<0.333	U	0.333		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
Phenanthrene	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
Phenol	<0.333	U	0.333		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
Pyrene	<0.167	U	0.167		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
Pyridine	<0.333	U	0.333		mg/Kg		08/03/22 08:31	08/03/22 19:29	1
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
1,2-Dichlorobenzene	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
1,3-Dichlorobenzene	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
1,4-Dichlorobenzene	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
2,4,5-Trichlorophenol	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
2,4,6-Trichlorophenol	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
2,4-Dichlorophenol	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
2,4-Dimethylphenol	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
2,4-Dinitrophenol	<0.333	U	0.333		mg/L		08/03/22 08:31	08/03/22 19:29	1
2,4-Dinitrotoluene	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
2,6-Dinitrotoluene	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
2-Chloronaphthalene	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
2-Chlorophenol	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
2-Methylnaphthalene	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
2-Methylphenol	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
2-Nitroaniline	<0.333	U	0.333		mg/L		08/03/22 08:31	08/03/22 19:29	1
2-Nitrophenol	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
3 & 4 Methylphenol	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
3,3'-Dichlorobenzidine	<0.333	U	0.333		mg/L		08/03/22 08:31	08/03/22 19:29	1
3-Nitroaniline	<0.333	U	0.333		mg/L		08/03/22 08:31	08/03/22 19:29	1
4,6-Dinitro-2-methylphenol	<0.333	U	0.333		mg/L		08/03/22 08:31	08/03/22 19:29	1
4-Bromophenyl phenyl ether	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
4-Chloro-3-methylphenol	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
4-Chloroaniline	<0.333	U	0.333		mg/L		08/03/22 08:31	08/03/22 19:29	1
4-Chlorophenyl phenyl ether	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
4-Nitroaniline	<0.333	U	0.333		mg/L		08/03/22 08:31	08/03/22 19:29	1
4-Nitrophenol	<0.333	U	0.333		mg/L		08/03/22 08:31	08/03/22 19:29	1
Acenaphthene	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
Acenaphthylene	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
Aniline (Phenylamine, Aminobenzene)	<0.333	U	0.333		mg/L		08/03/22 08:31	08/03/22 19:29	1
Anthracene	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
Benzo[a]anthracene	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
Benzo[a]pyrene	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-63375/1-A

Matrix: Solid

Analysis Batch: 63483

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63375

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
Benzo[g,h,i]perylene	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
Benzo[k]fluoranthene	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
Benzoic acid	<1.00	U	1.00		mg/L		08/03/22 08:31	08/03/22 19:29	1
Butyl benzyl phthalate	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
Bis(2-chloroethoxy)methane	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
Bis(2-chloroethyl)ether	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
bis (2-chloroisopropyl) ether	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
Bis(2-ethylhexyl) phthalate	<0.333	U	0.333		mg/L		08/03/22 08:31	08/03/22 19:29	1
Chrysene	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
Dibenz(a,h)anthracene	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
Dibenzofuran	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
Diethyl phthalate	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
Dimethyl phthalate	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
Di-n-butyl phthalate	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
Di-n-octyl phthalate	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
Fluoranthene	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
Fluorene	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
Hexachlorobenzene	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
Hexachlorobutadiene	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
Hexachlorocyclopentadiene	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
Hexachloroethane	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
Indeno[1,2,3-cd]pyrene	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
Isophorone	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
Naphthalene	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
Nitrobenzene	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
N-Nitrosodi-n-propylamine	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
N-Nitrosodiphenylamine	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
Pentachlorophenol	<0.333	U	0.333		mg/L		08/03/22 08:31	08/03/22 19:29	1
Phenanthrene	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
Phenol	<0.333	U	0.333		mg/L		08/03/22 08:31	08/03/22 19:29	1
Pyrene	<0.167	U	0.167		mg/L		08/03/22 08:31	08/03/22 19:29	1
Pyridine	<0.333	U	0.333		mg/L		08/03/22 08:31	08/03/22 19:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	66		19 - 122	08/03/22 08:31	08/03/22 19:29	1
2-Fluorobiphenyl (Surr)	97		30 - 115	08/03/22 08:31	08/03/22 19:29	1
2-Fluorophenol (Surr)	84		25 - 121	08/03/22 08:31	08/03/22 19:29	1
Nitrobenzene-d5 (Surr)	82		23 - 129	08/03/22 08:31	08/03/22 19:29	1
p-Terphenyl-d14 (Surr)	100		18 - 137	08/03/22 08:31	08/03/22 19:29	1
Phenol-d5 (Surr)	82		24 - 113	08/03/22 08:31	08/03/22 19:29	1

Lab Sample ID: LCS 860-63375/2-A

Matrix: Solid

Analysis Batch: 63483

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 63375

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	1.33	1.079		mg/Kg		81	35 - 129

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-63375/2-A

Matrix: Solid

Analysis Batch: 63483

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 63375

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	1.33	1.077		mg/Kg		81	38 - 122
1,3-Dichlorobenzene	1.33	1.073		mg/Kg		80	38 - 120
1,4-Dichlorobenzene	1.33	1.072		mg/Kg		80	37 - 121
2,4,5-Trichlorophenol	1.33	1.040		mg/Kg		78	40 - 135
2,4,6-Trichlorophenol	1.33	1.025		mg/Kg		77	39 - 139
2,4-Dichlorophenol	1.33	1.211		mg/Kg		91	36 - 135
2,4-Dimethylphenol	1.33	1.208		mg/Kg		91	38 - 133
2,4-Dinitrophenol	1.33	0.8813		mg/Kg		66	19 - 131
2,4-Dinitrotoluene	1.33	1.106		mg/Kg		83	48 - 131
2,6-Dinitrotoluene	1.33	1.109		mg/Kg		83	42 - 136
2-Chloronaphthalene	1.33	1.077		mg/Kg		81	32 - 138
2-Chlorophenol	1.33	1.185		mg/Kg		89	38 - 125
2-Methylnaphthalene	1.33	1.063		mg/Kg		80	36 - 126
2-Methylphenol	1.33	1.226		mg/Kg		92	37 - 128
2-Nitroaniline	1.33	1.230		mg/Kg		92	30 - 133
2-Nitrophenol	1.33	1.097		mg/Kg		82	33 - 142
3 & 4 Methylphenol	1.33	1.201		mg/Kg		90	38 - 126
3,3'-Dichlorobenzidine	1.33	0.9288		mg/Kg		70	35 - 134
3-Nitroaniline	1.33	1.035		mg/Kg		78	41 - 135
4,6-Dinitro-2-methylphenol	1.33	1.046		mg/Kg		78	30 - 146
4-Bromophenyl phenyl ether	1.33	1.170		mg/Kg		88	37 - 140
4-Chloro-3-methylphenol	1.33	1.130		mg/Kg		85	40 - 134
4-Chloroaniline	1.33	1.090		mg/Kg		82	34 - 124
4-Chlorophenyl phenyl ether	1.33	1.133		mg/Kg		85	41 - 131
4-Nitroaniline	1.33	1.078		mg/Kg		81	46 - 132
4-Nitrophenol	1.33	0.9011		mg/Kg		68	21 - 152
Acenaphthene	1.33	1.116		mg/Kg		84	37 - 131
Acenaphthylene	1.33	1.189		mg/Kg		89	39 - 129
Aniline (Phenylamine, Aminobenzene)	1.33	1.128		mg/Kg		85	33 - 117
Anthracene	1.33	1.193		mg/Kg		90	39 - 139
Benzo[a]anthracene	1.33	1.127		mg/Kg		85	44 - 135
Benzo[a]pyrene	1.33	1.052		mg/Kg		79	43 - 153
Benzo[b]fluoranthene	1.33	0.9953		mg/Kg		75	40 - 153
Benzo[g,h,i]perylene	1.33	1.132		mg/Kg		85	40 - 153
Benzo[k]fluoranthene	1.33	1.158		mg/Kg		87	33 - 156
Benzoic acid	4.00	1.832		mg/Kg		46	31 - 165
Butyl benzyl phthalate	1.33	1.111		mg/Kg		83	43 - 145
Bis(2-chloroethoxy)methane	1.33	1.060		mg/Kg		79	30 - 129
Bis(2-chloroethyl)ether	1.33	1.058		mg/Kg		79	33 - 127
bis (2-chloroisopropyl) ether	1.33	1.137		mg/Kg		85	25 - 124
Bis(2-ethylhexyl) phthalate	1.33	1.118		mg/Kg		84	46 - 145
Chrysene	1.33	1.136		mg/Kg		85	42 - 135
Dibenz(a,h)anthracene	1.33	1.071		mg/Kg		80	41 - 155
Dibenzofuran	1.33	1.118		mg/Kg		84	39 - 132
Diethyl phthalate	1.33	1.172		mg/Kg		88	45 - 131
Dimethyl phthalate	1.33	1.151		mg/Kg		86	43 - 132
Di-n-butyl phthalate	1.33	1.053		mg/Kg		79	43 - 142
Di-n-octyl phthalate	1.33	1.053		mg/Kg		79	34 - 166

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-63375/2-A

Matrix: Solid

Analysis Batch: 63483

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 63375

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoranthene	1.33	1.107		mg/Kg		83	41 - 138
Fluorene	1.33	1.168		mg/Kg		88	41 - 131
Hexachlorobenzene	1.33	1.125		mg/Kg		84	36 - 142
Hexachlorobutadiene	1.33	1.053		mg/Kg		79	35 - 129
Hexachlorocyclopentadiene	1.33	0.9144		mg/Kg		69	16 - 106
Hexachloroethane	1.33	1.081		mg/Kg		81	36 - 121
Indeno[1,2,3-cd]pyrene	1.33	1.103		mg/Kg		83	39 - 154
Isophorone	1.33	1.174		mg/Kg		88	36 - 128
Naphthalene	1.33	1.062		mg/Kg		80	35 - 128
Nitrobenzene	1.33	1.122		mg/Kg		84	32 - 129
N-Nitrosodi-n-propylamine	1.33	1.180		mg/Kg		88	34 - 129
N-Nitrosodiphenylamine	1.33	1.223		mg/Kg		92	27 - 155
Pentachlorophenol	1.33	0.9405		mg/Kg		71	14 - 148
Phenanthrene	1.33	1.096		mg/Kg		82	37 - 139
Phenol	1.33	1.180		mg/Kg		89	34 - 127
Pyrene	1.33	1.208		mg/Kg		91	42 - 138
Pyridine	1.33	0.9210		mg/Kg		69	30 - 113

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	1.33	1.079		mg/L		81	35 - 129
1,2-Dichlorobenzene	1.33	1.077		mg/L		81	38 - 122
1,3-Dichlorobenzene	1.33	1.073		mg/L		80	38 - 120
1,4-Dichlorobenzene	1.33	1.072		mg/L		80	37 - 121
2,4,5-Trichlorophenol	1.33	1.040		mg/L		78	40 - 135
2,4,6-Trichlorophenol	1.33	1.025		mg/L		77	39 - 139
2,4-Dichlorophenol	1.33	1.211		mg/L		91	36 - 135
2,4-Dimethylphenol	1.33	1.208		mg/L		91	38 - 133
2,4-Dinitrophenol	1.33	0.8813		mg/L		66	19 - 131
2,4-Dinitrotoluene	1.33	1.106		mg/L		83	48 - 131
2,6-Dinitrotoluene	1.33	1.109		mg/L		83	42 - 136
2-Chloronaphthalene	1.33	1.077		mg/L		81	32 - 138
2-Chlorophenol	1.33	1.185		mg/L		89	38 - 125
2-Methylnaphthalene	1.33	1.063		mg/L		80	36 - 126
2-Methylphenol	1.33	1.226		mg/L		92	37 - 128
2-Nitroaniline	1.33	1.230		mg/L		92	30 - 133
2-Nitrophenol	1.33	1.097		mg/L		82	33 - 142
3 & 4 Methylphenol	1.33	1.201		mg/L		90	38 - 126
3,3'-Dichlorobenzidine	1.33	0.9288		mg/L		70	35 - 134
3-Nitroaniline	1.33	1.035		mg/L		78	41 - 135
4,6-Dinitro-2-methylphenol	1.33	1.046		mg/L		78	30 - 146
4-Bromophenyl phenyl ether	1.33	1.170		mg/L		88	37 - 140
4-Chloro-3-methylphenol	1.33	1.130		mg/L		85	40 - 134
4-Chloroaniline	1.33	1.090		mg/L		82	34 - 124
4-Chlorophenyl phenyl ether	1.33	1.133		mg/L		85	41 - 131
4-Nitroaniline	1.33	1.078		mg/L		81	46 - 132
4-Nitrophenol	1.33	0.9011		mg/L		68	21 - 152
Acenaphthene	1.33	1.116		mg/L		84	37 - 131
Acenaphthylene	1.33	1.189		mg/L		89	39 - 129

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-63375/2-A

Matrix: Solid

Analysis Batch: 63483

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 63375

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aniline (Phenylamine, Aminobenzene)	1.33	1.128		mg/L		85	33 - 117
Anthracene	1.33	1.193		mg/L		90	39 - 139
Benzo[a]anthracene	1.33	1.127		mg/L		85	44 - 135
Benzo[a]pyrene	1.33	1.052		mg/L		79	43 - 153
Benzo[b]fluoranthene	1.33	0.9953		mg/L		75	40 - 153
Benzo[g,h,i]perylene	1.33	1.132		mg/L		85	40 - 153
Benzo[k]fluoranthene	1.33	1.158		mg/L		87	33 - 156
Benzoic acid	4.00	1.832		mg/L		46	31 - 165
Butyl benzyl phthalate	1.33	1.111		mg/L		83	43 - 145
Bis(2-chloroethoxy)methane	1.33	1.060		mg/L		79	30 - 129
Bis(2-chloroethyl)ether	1.33	1.058		mg/L		79	33 - 127
bis (2-chloroisopropyl) ether	1.33	1.137		mg/L		85	25 - 124
Bis(2-ethylhexyl) phthalate	1.33	1.118		mg/L		84	46 - 145
Chrysene	1.33	1.136		mg/L		85	42 - 135
Dibenz(a,h)anthracene	1.33	1.071		mg/L		80	41 - 155
Dibenzofuran	1.33	1.118		mg/L		84	39 - 132
Diethyl phthalate	1.33	1.172		mg/L		88	45 - 131
Dimethyl phthalate	1.33	1.151		mg/L		86	43 - 132
Di-n-butyl phthalate	1.33	1.053		mg/L		79	43 - 142
Di-n-octyl phthalate	1.33	1.053		mg/L		79	34 - 166
Fluoranthene	1.33	1.107		mg/L		83	41 - 138
Fluorene	1.33	1.168		mg/L		88	41 - 131
Hexachlorobenzene	1.33	1.125		mg/L		84	36 - 142
Hexachlorobutadiene	1.33	1.053		mg/L		79	35 - 129
Hexachlorocyclopentadiene	1.33	0.9144		mg/L		69	16 - 106
Hexachloroethane	1.33	1.081		mg/L		81	36 - 121
Indeno[1,2,3-cd]pyrene	1.33	1.103		mg/L		83	39 - 154
Isophorone	1.33	1.174		mg/L		88	36 - 128
Naphthalene	1.33	1.062		mg/L		80	35 - 128
Nitrobenzene	1.33	1.122		mg/L		84	32 - 129
N-Nitrosodi-n-propylamine	1.33	1.180		mg/L		88	34 - 129
N-Nitrosodiphenylamine	1.33	1.223		mg/L		92	27 - 155
Pentachlorophenol	1.33	0.9405		mg/L		71	14 - 148
Phenanthrene	1.33	1.096		mg/L		82	37 - 139
Phenol	1.33	1.180		mg/L		89	34 - 127
Pyrene	1.33	1.208		mg/L		91	42 - 138
Pyridine	1.33	0.9210		mg/L		69	30 - 113

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	81		19 - 122
2-Fluorobiphenyl (Surr)	84		30 - 115
2-Fluorophenol (Surr)	85		25 - 121
Nitrobenzene-d5 (Surr)	84		23 - 129
p-Terphenyl-d14 (Surr)	92		18 - 137
Phenol-d5 (Surr)	91		24 - 113

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-63375/3-A

Matrix: Solid

Analysis Batch: 63483

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 63375

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD	RPD Limit
1,2,4-Trichlorobenzene	1.33	1.003		mg/Kg		75	35 - 129		7	30
1,2-Dichlorobenzene	1.33	1.051		mg/Kg		79	38 - 122		2	30
1,3-Dichlorobenzene	1.33	1.025		mg/Kg		77	38 - 120		5	30
1,4-Dichlorobenzene	1.33	1.029		mg/Kg		77	37 - 121		4	30
2,4,5-Trichlorophenol	1.33	1.083		mg/Kg		81	40 - 135		4	30
2,4,6-Trichlorophenol	1.33	1.106		mg/Kg		83	39 - 139		8	30
2,4-Dichlorophenol	1.33	1.164		mg/Kg		87	36 - 135		4	30
2,4-Dimethylphenol	1.33	1.136		mg/Kg		85	38 - 133		6	30
2,4-Dinitrophenol	1.33	0.8724		mg/Kg		65	19 - 131		1	40
2,4-Dinitrotoluene	1.33	1.052		mg/Kg		79	48 - 131		5	30
2,6-Dinitrotoluene	1.33	1.036		mg/Kg		78	42 - 136		7	30
2-Chloronaphthalene	1.33	1.045		mg/Kg		78	32 - 138		3	30
2-Chlorophenol	1.33	1.233		mg/Kg		92	38 - 125		4	30
2-Methylnaphthalene	1.33	1.065		mg/Kg		80	36 - 126		0	30
2-Methylphenol	1.33	1.137		mg/Kg		85	37 - 128		8	30
2-Nitroaniline	1.33	1.180		mg/Kg		89	30 - 133		4	40
2-Nitrophenol	1.33	1.023		mg/Kg		77	33 - 142		7	30
3 & 4 Methylphenol	1.33	1.184		mg/Kg		89	38 - 126		1	30
3,3'-Dichlorobenzidine	1.33	0.9074		mg/Kg		68	35 - 134		2	40
3-Nitroaniline	1.33	0.9703		mg/Kg		73	41 - 135		6	40
4,6-Dinitro-2-methylphenol	1.33	0.9707		mg/Kg		73	30 - 146		7	40
4-Bromophenyl phenyl ether	1.33	1.070		mg/Kg		80	37 - 140		9	30
4-Chloro-3-methylphenol	1.33	1.175		mg/Kg		88	40 - 134		4	30
4-Chloroaniline	1.33	1.044		mg/Kg		78	34 - 124		4	40
4-Chlorophenyl phenyl ether	1.33	1.061		mg/Kg		80	41 - 131		7	30
4-Nitroaniline	1.33	1.027		mg/Kg		77	46 - 132		5	40
4-Nitrophenol	1.33	0.8600		mg/Kg		64	21 - 152		5	40
Acenaphthene	1.33	1.030		mg/Kg		77	37 - 131		8	30
Acenaphthylene	1.33	1.094		mg/Kg		82	39 - 129		8	30
Aniline (Phenylamine, Aminobenzene)	1.33	1.104		mg/Kg		83	33 - 117		2	40
Anthracene	1.33	1.106		mg/Kg		83	39 - 139		8	30
Benzo[a]anthracene	1.33	1.051		mg/Kg		79	44 - 135		7	30
Benzo[a]pyrene	1.33	0.9944		mg/Kg		75	43 - 153		6	30
Benzo[b]fluoranthene	1.33	0.9622		mg/Kg		72	40 - 153		3	30
Benzo[g,h,i]perylene	1.33	1.128		mg/Kg		85	40 - 153		0	30
Benzo[k]fluoranthene	1.33	1.112		mg/Kg		83	33 - 156		4	30
Benzoic acid	4.00	3.009		mg/Kg		75	31 - 165		49	50
Butyl benzyl phthalate	1.33	0.9957		mg/Kg		75	43 - 145		11	30
Bis(2-chloroethoxy)methane	1.33	1.044		mg/Kg		78	30 - 129		2	30
Bis(2-chloroethyl)ether	1.33	1.064		mg/Kg		80	33 - 127		1	30
bis (2-chloroisopropyl) ether	1.33	0.9869		mg/Kg		74	25 - 124		14	30
Bis(2-ethylhexyl) phthalate	1.33	1.036		mg/Kg		78	46 - 145		8	30
Chrysene	1.33	1.052		mg/Kg		79	42 - 135		8	30
Dibenz(a,h)anthracene	1.33	1.032		mg/Kg		77	41 - 155		4	30
Dibenzofuran	1.33	1.044		mg/Kg		78	39 - 132		7	30
Diethyl phthalate	1.33	1.097		mg/Kg		82	45 - 131		7	30
Dimethyl phthalate	1.33	1.066		mg/Kg		80	43 - 132		8	30
Di-n-butyl phthalate	1.33	1.085		mg/Kg		81	43 - 142		3	30

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-63375/3-A

Matrix: Solid

Analysis Batch: 63483

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 63375

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Di-n-octyl phthalate	1.33	0.9785		mg/Kg		73	34 - 166	7	30
Fluoranthene	1.33	1.138		mg/Kg		85	41 - 138	3	30
Fluorene	1.33	1.087		mg/Kg		82	41 - 131	7	30
Hexachlorobenzene	1.33	1.032		mg/Kg		77	36 - 142	9	30
Hexachlorobutadiene	1.33	0.9868		mg/Kg		74	35 - 129	7	30
Hexachlorocyclopentadiene	1.33	0.9762		mg/Kg		73	16 - 106	7	30
Hexachloroethane	1.33	1.098		mg/Kg		82	36 - 121	1	30
Indeno[1,2,3-cd]pyrene	1.33	1.068		mg/Kg		80	39 - 154	3	30
Isophorone	1.33	1.057		mg/Kg		79	36 - 128	11	30
Naphthalene	1.33	1.007		mg/Kg		76	35 - 128	5	30
Nitrobenzene	1.33	0.9846		mg/Kg		74	32 - 129	13	30
N-Nitrosodi-n-propylamine	1.33	1.190		mg/Kg		89	34 - 129	1	30
N-Nitrosodiphenylamine	1.33	1.104		mg/Kg		83	27 - 155	10	30
Pentachlorophenol	1.33	0.8713		mg/Kg		65	14 - 148	8	40
Phenanthrene	1.33	1.026		mg/Kg		77	37 - 139	7	30
Phenol	1.33	1.182		mg/Kg		89	34 - 127	0	40
Pyrene	1.33	1.104		mg/Kg		83	42 - 138	9	30
Pyridine	1.33	0.9817		mg/Kg		74	30 - 113	6	40

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	1.33	1.003		mg/L		75	35 - 129	7	30
1,2-Dichlorobenzene	1.33	1.051		mg/L		79	38 - 122	2	30
1,3-Dichlorobenzene	1.33	1.025		mg/L		77	38 - 120	5	30
1,4-Dichlorobenzene	1.33	1.029		mg/L		77	37 - 121	4	30
2,4,5-Trichlorophenol	1.33	1.083		mg/L		81	40 - 135	4	30
2,4,6-Trichlorophenol	1.33	1.106		mg/L		83	39 - 139	8	30
2,4-Dichlorophenol	1.33	1.164		mg/L		87	36 - 135	4	30
2,4-Dimethylphenol	1.33	1.136		mg/L		85	38 - 133	6	30
2,4-Dinitrophenol	1.33	0.8724		mg/L		65	19 - 131	1	40
2,4-Dinitrotoluene	1.33	1.052		mg/L		79	48 - 131	5	30
2,6-Dinitrotoluene	1.33	1.036		mg/L		78	42 - 136	7	30
2-Chloronaphthalene	1.33	1.045		mg/L		78	32 - 138	3	30
2-Chlorophenol	1.33	1.233		mg/L		92	38 - 125	4	30
2-Methylnaphthalene	1.33	1.065		mg/L		80	36 - 126	0	30
2-Methylphenol	1.33	1.137		mg/L		85	37 - 128	8	30
2-Nitroaniline	1.33	1.180		mg/L		89	30 - 133	4	40
2-Nitrophenol	1.33	1.023		mg/L		77	33 - 142	7	30
3 & 4 Methylphenol	1.33	1.184		mg/L		89	38 - 126	1	30
3,3'-Dichlorobenzidine	1.33	0.9074		mg/L		68	35 - 134	2	40
3-Nitroaniline	1.33	0.9703		mg/L		73	41 - 135	6	40
4,6-Dinitro-2-methylphenol	1.33	0.9707		mg/L		73	30 - 146	7	40
4-Bromophenyl phenyl ether	1.33	1.070		mg/L		80	37 - 140	9	30
4-Chloro-3-methylphenol	1.33	1.175		mg/L		88	40 - 134	4	30
4-Chloroaniline	1.33	1.044		mg/L		78	34 - 124	4	40
4-Chlorophenyl phenyl ether	1.33	1.061		mg/L		80	41 - 131	7	30
4-Nitroaniline	1.33	1.027		mg/L		77	46 - 132	5	40
4-Nitrophenol	1.33	0.8600		mg/L		64	21 - 152	5	40
Acenaphthene	1.33	1.030		mg/L		77	37 - 131	8	30
Acenaphthylene	1.33	1.094		mg/L		82	39 - 129	8	30

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-63375/3-A

Matrix: Solid

Analysis Batch: 63483

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 63375

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aniline (Phenylamine, Aminobenzene)	1.33	1.104		mg/L		83	33 - 117	2	40
Anthracene	1.33	1.106		mg/L		83	39 - 139	8	30
Benzo[a]anthracene	1.33	1.051		mg/L		79	44 - 135	7	30
Benzo[a]pyrene	1.33	0.9944		mg/L		75	43 - 153	6	30
Benzo[b]fluoranthene	1.33	0.9622		mg/L		72	40 - 153	3	30
Benzo[g,h,i]perylene	1.33	1.128		mg/L		85	40 - 153	0	30
Benzo[k]fluoranthene	1.33	1.112		mg/L		83	33 - 156	4	30
Benzoic acid	4.00	3.009		mg/L		75	31 - 165	49	50
Butyl benzyl phthalate	1.33	0.9957		mg/L		75	43 - 145	11	30
Bis(2-chloroethoxy)methane	1.33	1.044		mg/L		78	30 - 129	2	30
Bis(2-chloroethyl)ether	1.33	1.064		mg/L		80	33 - 127	1	30
bis (2-chloroisopropyl) ether	1.33	0.9869		mg/L		74	25 - 124	14	30
Bis(2-ethylhexyl) phthalate	1.33	1.036		mg/L		78	46 - 145	8	30
Chrysene	1.33	1.052		mg/L		79	42 - 135	8	30
Dibenz(a,h)anthracene	1.33	1.032		mg/L		77	41 - 155	4	30
Dibenzofuran	1.33	1.044		mg/L		78	39 - 132	7	30
Diethyl phthalate	1.33	1.097		mg/L		82	45 - 131	7	30
Dimethyl phthalate	1.33	1.066		mg/L		80	43 - 132	8	30
Di-n-butyl phthalate	1.33	1.085		mg/L		81	43 - 142	3	30
Di-n-octyl phthalate	1.33	0.9785		mg/L		73	34 - 166	7	30
Fluoranthene	1.33	1.138		mg/L		85	41 - 138	3	30
Fluorene	1.33	1.087		mg/L		82	41 - 131	7	30
Hexachlorobenzene	1.33	1.032		mg/L		77	36 - 142	9	30
Hexachlorobutadiene	1.33	0.9868		mg/L		74	35 - 129	7	30
Hexachlorocyclopentadiene	1.33	0.9762		mg/L		73	16 - 106	7	30
Hexachloroethane	1.33	1.098		mg/L		82	36 - 121	1	30
Indeno[1,2,3-cd]pyrene	1.33	1.068		mg/L		80	39 - 154	3	30
Isophorone	1.33	1.057		mg/L		79	36 - 128	11	30
Naphthalene	1.33	1.007		mg/L		76	35 - 128	5	30
Nitrobenzene	1.33	0.9846		mg/L		74	32 - 129	13	30
N-Nitrosodi-n-propylamine	1.33	1.190		mg/L		89	34 - 129	1	30
N-Nitrosodiphenylamine	1.33	1.104		mg/L		83	27 - 155	10	30
Pentachlorophenol	1.33	0.8713		mg/L		65	14 - 148	8	40
Phenanthrene	1.33	1.026		mg/L		77	37 - 139	7	30
Phenol	1.33	1.182		mg/L		89	34 - 127	0	40
Pyrene	1.33	1.104		mg/L		83	42 - 138	9	30
Pyridine	1.33	0.9817		mg/L		74	30 - 113	6	40

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	75		19 - 122
2-Fluorobiphenyl (Surr)	85		30 - 115
2-Fluorophenol (Surr)	88		25 - 121
Nitrobenzene-d5 (Surr)	75		23 - 129
p-Terphenyl-d14 (Surr)	84		18 - 137
Phenol-d5 (Surr)	90		24 - 113

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-30528-A-1-G MS

Matrix: Solid

Analysis Batch: 63483

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 63375

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	<0.167	U	1.33	0.9800		mg/Kg		74	35 - 129
1,2-Dichlorobenzene	<0.167	U	1.33	0.9826		mg/Kg		74	38 - 122
1,3-Dichlorobenzene	<0.167	U	1.33	0.9815		mg/Kg		74	38 - 120
1,4-Dichlorobenzene	<0.167	U	1.33	0.9858		mg/Kg		74	37 - 121
2,4,5-Trichlorophenol	<0.167	U	1.33	1.004		mg/Kg		75	40 - 135
2,4,6-Trichlorophenol	<0.167	U	1.33	0.9950		mg/Kg		75	39 - 139
2,4-Dichlorophenol	<0.167	U	1.33	1.111		mg/Kg		83	36 - 135
2,4-Dimethylphenol	<0.167	U	1.33	1.134		mg/Kg		85	38 - 133
2,4-Dinitrophenol	<0.333	U	1.33	0.8898		mg/Kg		67	19 - 131
2,4-Dinitrotoluene	<0.167	U	1.33	1.067		mg/Kg		80	48 - 131
2,6-Dinitrotoluene	<0.167	U	1.33	1.062		mg/Kg		80	42 - 136
2-Chloronaphthalene	<0.167	U	1.33	0.9857		mg/Kg		74	32 - 138
2-Chlorophenol	<0.167	U	1.33	1.103		mg/Kg		83	38 - 125
2-Methylnaphthalene	<0.167	U	1.33	1.058		mg/Kg		79	36 - 126
2-Methylphenol	<0.167	U	1.33	1.155		mg/Kg		87	37 - 128
2-Nitroaniline	<0.333	U	1.33	1.086		mg/Kg		82	30 - 133
2-Nitrophenol	<0.167	U	1.33	1.022		mg/Kg		77	33 - 142
3 & 4 Methylphenol	<0.167	U	1.33	1.160		mg/Kg		87	38 - 126
3,3'-Dichlorobenzidine	<0.333	U	1.33	0.9698		mg/Kg		73	35 - 134
3-Nitroaniline	<0.333	U	1.33	0.9708		mg/Kg		73	41 - 135
4,6-Dinitro-2-methylphenol	<0.333	U	1.33	0.9381		mg/Kg		70	30 - 146
4-Bromophenyl phenyl ether	<0.167	U	1.33	1.084		mg/Kg		81	37 - 140
4-Chloro-3-methylphenol	<0.167	U	1.33	1.191		mg/Kg		89	40 - 134
4-Chloroaniline	<0.333	U	1.33	1.055		mg/Kg		79	34 - 124
4-Chlorophenyl phenyl ether	<0.167	U	1.33	1.066		mg/Kg		80	41 - 131
4-Nitroaniline	<0.333	U	1.33	0.9945		mg/Kg		75	46 - 132
4-Nitrophenol	<0.333	U	1.33	0.8986		mg/Kg		67	21 - 152
Acenaphthene	<0.167	U	1.33	1.043		mg/Kg		78	37 - 131
Acenaphthylene	<0.167	U	1.33	1.116		mg/Kg		84	39 - 129
Aniline (Phenylamine, Aminobenzene)	<0.333	U	1.33	1.048		mg/Kg		79	33 - 117
Anthracene	<0.167	U	1.33	1.145		mg/Kg		86	39 - 139
Benzo[a]anthracene	<0.167	U	1.33	1.105		mg/Kg		83	44 - 135
Benzo[a]pyrene	<0.167	U	1.33	1.036		mg/Kg		71	43 - 153
Benzo[b]fluoranthene	<0.167	U	1.33	0.9762		mg/Kg		72	40 - 153
Benzo[g,h,i]perylene	<0.167	U	1.33	1.130		mg/Kg		85	40 - 153
Benzo[k]fluoranthene	<0.167	U	1.33	1.126		mg/Kg		85	33 - 156
Benzoic acid	<1.00	U	4.00	2.371		mg/Kg		59	31 - 171
Butyl benzyl phthalate	<0.167	U	1.33	1.081		mg/Kg		81	43 - 145
Bis(2-chloroethoxy)methane	<0.167	U	1.33	1.037		mg/Kg		78	30 - 129
Bis(2-chloroethyl)ether	<0.167	U	1.33	0.9682		mg/Kg		73	33 - 127
bis (2-chloroisopropyl) ether	<0.167	U	1.33	1.047		mg/Kg		79	25 - 124
Bis(2-ethylhexyl) phthalate	<0.333	U	1.33	1.102		mg/Kg		83	46 - 145
Chrysene	<0.167	U	1.33	1.080		mg/Kg		81	42 - 135
Dibenz(a,h)anthracene	<0.167	U	1.33	1.062		mg/Kg		80	41 - 155
Dibenzofuran	<0.167	U	1.33	1.062		mg/Kg		80	39 - 132
Diethyl phthalate	<0.167	U	1.33	1.113		mg/Kg		84	45 - 131
Dimethyl phthalate	<0.167	U	1.33	1.084		mg/Kg		81	43 - 132
Di-n-butyl phthalate	<0.167	U	1.33	1.109		mg/Kg		83	43 - 142

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-30528-A-1-G MS

Matrix: Solid

Analysis Batch: 63483

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 63375

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Di-n-octyl phthalate	<0.167	U	1.33	1.020		mg/Kg		77	34 - 166
Fluoranthene	<0.167	U	1.33	1.163		mg/Kg		87	41 - 138
Fluorene	<0.167	U	1.33	1.051		mg/Kg		79	41 - 131
Hexachlorobenzene	<0.167	U	1.33	1.047		mg/Kg		79	36 - 142
Hexachlorobutadiene	<0.167	U	1.33	0.9856		mg/Kg		74	35 - 129
Hexachlorocyclopentadiene	<0.167	U	1.33	0.8117		mg/Kg		61	16 - 106
Hexachloroethane	<0.167	U	1.33	1.004		mg/Kg		75	36 - 121
Indeno[1,2,3-cd]pyrene	<0.167	U	1.33	1.048		mg/Kg		79	39 - 154
Isophorone	<0.167	U	1.33	1.033		mg/Kg		78	36 - 128
Naphthalene	<0.167	U	1.33	1.001		mg/Kg		75	35 - 128
Nitrobenzene	<0.167	U	1.33	0.8936		mg/Kg		67	32 - 129
N-Nitrosodi-n-propylamine	<0.167	U	1.33	1.154		mg/Kg		87	34 - 129
N-Nitrosodiphenylamine	<0.167	U	1.33	1.096		mg/Kg		82	27 - 155
Pentachlorophenol	<0.333	U	1.33	0.9052		mg/Kg		68	14 - 148
Phenanthrene	<0.167	U	1.33	1.060		mg/Kg		80	37 - 139
Phenol	<0.333	U	1.33	1.116		mg/Kg		84	34 - 127
Pyrene	<0.167	U	1.33	1.221		mg/Kg		92	42 - 138
Pyridine	<0.333	U	1.33	0.8683		mg/Kg		65	30 - 113

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	<0.167	U	1.33	0.9800		mg/L		74	35 - 129
1,2-Dichlorobenzene	<0.167	U	1.33	0.9826		mg/L		74	38 - 122
1,3-Dichlorobenzene	<0.167	U	1.33	0.9815		mg/L		74	38 - 120
1,4-Dichlorobenzene	<0.167	U	1.33	0.9858		mg/L		74	37 - 121
2,4,5-Trichlorophenol	<0.167	U	1.33	1.004		mg/L		75	40 - 135
2,4,6-Trichlorophenol	<0.167	U	1.33	0.9950		mg/L		75	39 - 139
2,4-Dichlorophenol	<0.167	U	1.33	1.111		mg/L		83	36 - 135
2,4-Dimethylphenol	<0.167	U	1.33	1.134		mg/L		85	38 - 133
2,4-Dinitrophenol	<0.333	U	1.33	0.8898		mg/L		67	19 - 131
2,4-Dinitrotoluene	<0.167	U	1.33	1.067		mg/L		80	48 - 131
2,6-Dinitrotoluene	<0.167	U	1.33	1.062		mg/L		80	42 - 136
2-Chloronaphthalene	<0.167	U	1.33	0.9857		mg/L		74	32 - 138
2-Chlorophenol	<0.167	U	1.33	1.103		mg/L		83	38 - 125
2-Methylnaphthalene	<0.167	U	1.33	1.058		mg/L		79	36 - 126
2-Methylphenol	<0.167	U	1.33	1.155		mg/L		87	37 - 128
2-Nitroaniline	<0.333	U	1.33	1.086		mg/L		82	30 - 133
2-Nitrophenol	<0.167	U	1.33	1.022		mg/L		77	33 - 142
3 & 4 Methylphenol	<0.167	U	1.33	1.160		mg/L		87	38 - 126
3,3'-Dichlorobenzidine	<0.333	U	1.33	0.9698		mg/L		73	35 - 134
3-Nitroaniline	<0.333	U	1.33	0.9708		mg/L		73	41 - 135
4,6-Dinitro-2-methylphenol	<0.333	U	1.33	0.9381		mg/L		70	30 - 146
4-Bromophenyl phenyl ether	<0.167	U	1.33	1.084		mg/L		81	37 - 140
4-Chloro-3-methylphenol	<0.167	U	1.33	1.191		mg/L		89	40 - 134
4-Chloroaniline	<0.333	U	1.33	1.055		mg/L		79	34 - 124
4-Chlorophenyl phenyl ether	<0.167	U	1.33	1.066		mg/L		80	41 - 131
4-Nitroaniline	<0.333	U	1.33	0.9945		mg/L		75	46 - 132
4-Nitrophenol	<0.333	U	1.33	0.8986		mg/L		67	21 - 152
Acenaphthene	<0.167	U	1.33	1.043		mg/L		78	37 - 131
Acenaphthylene	<0.167	U	1.33	1.116		mg/L		84	39 - 129

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-30528-A-1-G MS

Client Sample ID: Matrix Spike

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 63483

Prep Batch: 63375

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aniline (Phenylamine, Aminobenzene)	<0.333	U	1.33	1.048		mg/L		79	33 - 117
Anthracene	<0.167	U	1.33	1.145		mg/L		86	39 - 139
Benzo[a]anthracene	<0.167	U	1.33	1.105		mg/L		83	44 - 135
Benzo[a]pyrene	<0.167	U	1.33	1.036		mg/L		71	43 - 153
Benzo[b]fluoranthene	<0.167	U	1.33	0.9762		mg/L		72	40 - 153
Benzo[g,h,i]perylene	<0.167	U	1.33	1.130		mg/L		85	40 - 153
Benzo[k]fluoranthene	<0.167	U	1.33	1.126		mg/L		85	33 - 156
Benzoic acid	<1.00	U	4.00	2.371		mg/L		59	31 - 171
Butyl benzyl phthalate	<0.167	U	1.33	1.081		mg/L		81	43 - 145
Bis(2-chloroethoxy)methane	<0.167	U	1.33	1.037		mg/L		78	30 - 129
Bis(2-chloroethyl)ether	<0.167	U	1.33	0.9682		mg/L		73	33 - 127
bis (2-chloroisopropyl) ether	<0.167	U	1.33	1.047		mg/L		79	25 - 124
Bis(2-ethylhexyl) phthalate	<0.333	U	1.33	1.102		mg/L		83	46 - 145
Chrysene	<0.167	U	1.33	1.080		mg/L		81	42 - 135
Dibenz(a,h)anthracene	<0.167	U	1.33	1.062		mg/L		80	41 - 155
Dibenzofuran	<0.167	U	1.33	1.062		mg/L		80	39 - 132
Diethyl phthalate	<0.167	U	1.33	1.113		mg/L		84	45 - 131
Dimethyl phthalate	<0.167	U	1.33	1.084		mg/L		81	43 - 132
Di-n-butyl phthalate	<0.167	U	1.33	1.109		mg/L		83	43 - 142
Di-n-octyl phthalate	<0.167	U	1.33	1.020		mg/L		77	34 - 166
Fluoranthene	<0.167	U	1.33	1.163		mg/L		87	41 - 138
Fluorene	<0.167	U	1.33	1.051		mg/L		79	41 - 131
Hexachlorobenzene	<0.167	U	1.33	1.047		mg/L		79	36 - 142
Hexachlorobutadiene	<0.167	U	1.33	0.9856		mg/L		74	35 - 129
Hexachlorocyclopentadiene	<0.167	U	1.33	0.8117		mg/L		61	16 - 106
Hexachloroethane	<0.167	U	1.33	1.004		mg/L		75	36 - 121
Indeno[1,2,3-cd]pyrene	<0.167	U	1.33	1.048		mg/L		79	39 - 154
Isophorone	<0.167	U	1.33	1.033		mg/L		78	36 - 128
Naphthalene	<0.167	U	1.33	1.001		mg/L		75	35 - 128
Nitrobenzene	<0.167	U	1.33	0.8936		mg/L		67	32 - 129
N-Nitrosodi-n-propylamine	<0.167	U	1.33	1.154		mg/L		87	34 - 129
N-Nitrosodiphenylamine	<0.167	U	1.33	1.096		mg/L		82	27 - 155
Pentachlorophenol	<0.333	U	1.33	0.9052		mg/L		68	14 - 148
Phenanthrene	<0.167	U	1.33	1.060		mg/L		80	37 - 139
Phenol	<0.333	U	1.33	1.116		mg/L		84	34 - 127
Pyrene	<0.167	U	1.33	1.221		mg/L		92	42 - 138
Pyridine	<0.333	U	1.33	0.8683		mg/L		65	30 - 113

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	73		19 - 122
2-Fluorobiphenyl (Surr)	77		30 - 115
2-Fluorophenol (Surr)	79		25 - 121
Nitrobenzene-d5 (Surr)	68		23 - 129
p-Terphenyl-d14 (Surr)	87		18 - 137
Phenol-d5 (Surr)	82		24 - 113

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-30528-A-1-H MSD

Matrix: Solid

Analysis Batch: 63483

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 63375

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	<0.167	U	1.33	0.9505		mg/Kg		71	35 - 129	3	30
1,2-Dichlorobenzene	<0.167	U	1.33	0.9461		mg/Kg		71	38 - 122	4	30
1,3-Dichlorobenzene	<0.167	U	1.33	0.9155		mg/Kg		69	38 - 120	7	30
1,4-Dichlorobenzene	<0.167	U	1.33	0.9296		mg/Kg		70	37 - 121	6	30
2,4,5-Trichlorophenol	<0.167	U	1.33	1.009		mg/Kg		76	40 - 135	1	30
2,4,6-Trichlorophenol	<0.167	U	1.33	1.005		mg/Kg		76	39 - 139	1	30
2,4-Dichlorophenol	<0.167	U	1.33	1.123		mg/Kg		84	36 - 135	1	30
2,4-Dimethylphenol	<0.167	U	1.33	1.098		mg/Kg		83	38 - 133	3	30
2,4-Dinitrophenol	<0.333	U	1.33	0.8731		mg/Kg		66	19 - 131	2	40
2,4-Dinitrotoluene	<0.167	U	1.33	1.057		mg/Kg		79	48 - 131	1	30
2,6-Dinitrotoluene	<0.167	U	1.33	1.041		mg/Kg		78	42 - 136	2	30
2-Chloronaphthalene	<0.167	U	1.33	0.9891		mg/Kg		74	32 - 138	0	30
2-Chlorophenol	<0.167	U	1.33	1.036		mg/Kg		78	38 - 125	6	30
2-Methylnaphthalene	<0.167	U	1.33	1.034		mg/Kg		78	36 - 126	2	30
2-Methylphenol	<0.167	U	1.33	1.070		mg/Kg		80	37 - 128	8	30
2-Nitroaniline	<0.333	U	1.33	1.098		mg/Kg		82	30 - 133	1	40
2-Nitrophenol	<0.167	U	1.33	1.000		mg/Kg		75	33 - 142	2	30
3 & 4 Methylphenol	<0.167	U	1.33	1.095		mg/Kg		82	38 - 126	6	30
3,3'-Dichlorobenzidine	<0.333	U	1.33	0.9394		mg/Kg		71	35 - 134	3	40
3-Nitroaniline	<0.333	U	1.33	0.9975		mg/Kg		75	41 - 135	3	40
4,6-Dinitro-2-methylphenol	<0.333	U	1.33	0.9652		mg/Kg		73	30 - 146	3	40
4-Bromophenyl phenyl ether	<0.167	U	1.33	1.084		mg/Kg		81	37 - 140	0	30
4-Chloro-3-methylphenol	<0.167	U	1.33	1.169		mg/Kg		88	40 - 134	2	30
4-Chloroaniline	<0.333	U	1.33	1.028		mg/Kg		77	34 - 124	3	40
4-Chlorophenyl phenyl ether	<0.167	U	1.33	1.071		mg/Kg		80	41 - 131	0	30
4-Nitroaniline	<0.333	U	1.33	1.036		mg/Kg		78	46 - 132	4	40
4-Nitrophenol	<0.333	U	1.33	0.8745		mg/Kg		66	21 - 152	3	40
Acenaphthene	<0.167	U	1.33	1.032		mg/Kg		78	37 - 131	1	30
Acenaphthylene	<0.167	U	1.33	1.092		mg/Kg		82	39 - 129	2	30
Aniline (Phenylamine, Aminobenzene)	<0.333	U	1.33	0.8866		mg/Kg		67	33 - 117	17	40
Anthracene	<0.167	U	1.33	1.125		mg/Kg		85	39 - 139	2	30
Benzo[a]anthracene	<0.167	U	1.33	1.057		mg/Kg		79	44 - 135	4	30
Benzo[a]pyrene	<0.167	U	1.33	1.022		mg/Kg		70	43 - 153	1	30
Benzo[b]fluoranthene	<0.167	U	1.33	0.9493		mg/Kg		70	40 - 153	3	30
Benzo[g,h,i]perylene	<0.167	U	1.33	1.075		mg/Kg		81	40 - 153	5	30
Benzo[k]fluoranthene	<0.167	U	1.33	1.063		mg/Kg		80	33 - 156	6	30
Benzoic acid	<1.00	U	3.99	2.655		mg/Kg		66	31 - 171	11	50
Butyl benzyl phthalate	<0.167	U	1.33	1.048		mg/Kg		79	43 - 145	3	30
Bis(2-chloroethoxy)methane	<0.167	U	1.33	0.9526		mg/Kg		72	30 - 129	8	30
Bis(2-chloroethyl)ether	<0.167	U	1.33	0.9670		mg/Kg		73	33 - 127	0	30
bis (2-chloroisopropyl) ether	<0.167	U	1.33	0.9040		mg/Kg		68	25 - 124	15	30
Bis(2-ethylhexyl) phthalate	<0.333	U	1.33	1.056		mg/Kg		79	46 - 145	4	30
Chrysene	<0.167	U	1.33	1.053		mg/Kg		79	42 - 135	3	30
Dibenz(a,h)anthracene	<0.167	U	1.33	0.9850		mg/Kg		74	41 - 155	8	30
Dibenzofuran	<0.167	U	1.33	1.046		mg/Kg		79	39 - 132	2	30
Diethyl phthalate	<0.167	U	1.33	1.103		mg/Kg		83	45 - 131	1	30
Dimethyl phthalate	<0.167	U	1.33	1.077		mg/Kg		81	43 - 132	1	30
Di-n-butyl phthalate	<0.167	U	1.33	1.104		mg/Kg		83	43 - 142	0	30

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-30528-A-1-H MSD

Matrix: Solid

Analysis Batch: 63483

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 63375

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Di-n-octyl phthalate	<0.167	U	1.33	1.028		mg/Kg		77	34 - 166	1	30
Fluoranthene	<0.167	U	1.33	1.172		mg/Kg		88	41 - 138	1	30
Fluorene	<0.167	U	1.33	1.079		mg/Kg		81	41 - 131	3	30
Hexachlorobenzene	<0.167	U	1.33	1.049		mg/Kg		79	36 - 142	0	30
Hexachlorobutadiene	<0.167	U	1.33	0.9653		mg/Kg		73	35 - 129	2	30
Hexachlorocyclopentadiene	<0.167	U	1.33	0.8717		mg/Kg		65	16 - 106	7	30
Hexachloroethane	<0.167	U	1.33	0.9220		mg/Kg		69	36 - 121	9	30
Indeno[1,2,3-cd]pyrene	<0.167	U	1.33	0.9962		mg/Kg		75	39 - 154	5	30
Isophorone	<0.167	U	1.33	1.020		mg/Kg		77	36 - 128	1	30
Naphthalene	<0.167	U	1.33	0.9505		mg/Kg		71	35 - 128	5	30
Nitrobenzene	<0.167	U	1.33	0.9328		mg/Kg		70	32 - 129	4	30
N-Nitrosodi-n-propylamine	<0.167	U	1.33	1.072		mg/Kg		81	34 - 129	7	30
N-Nitrosodiphenylamine	<0.167	U	1.33	1.099		mg/Kg		83	27 - 155	0	30
Pentachlorophenol	<0.333	U	1.33	0.8907		mg/Kg		67	14 - 148	2	40
Phenanthrene	<0.167	U	1.33	1.047		mg/Kg		79	37 - 139	1	30
Phenol	<0.333	U	1.33	1.001		mg/Kg		75	34 - 127	11	40
Pyrene	<0.167	U	1.33	1.130		mg/Kg		85	42 - 138	8	30
Pyridine	<0.333	U	1.33	0.7472		mg/Kg		56	30 - 113	15	40

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	<0.167	U	1.33	0.9505		mg/L		71	35 - 129	3	30
1,2-Dichlorobenzene	<0.167	U	1.33	0.9461		mg/L		71	38 - 122	4	30
1,3-Dichlorobenzene	<0.167	U	1.33	0.9155		mg/L		69	38 - 120	7	30
1,4-Dichlorobenzene	<0.167	U	1.33	0.9296		mg/L		70	37 - 121	6	30
2,4,5-Trichlorophenol	<0.167	U	1.33	1.009		mg/L		76	40 - 135	1	30
2,4,6-Trichlorophenol	<0.167	U	1.33	1.005		mg/L		76	39 - 139	1	30
2,4-Dichlorophenol	<0.167	U	1.33	1.123		mg/L		84	36 - 135	1	30
2,4-Dimethylphenol	<0.167	U	1.33	1.098		mg/L		83	38 - 133	3	30
2,4-Dinitrophenol	<0.333	U	1.33	0.8731		mg/L		66	19 - 131	2	40
2,4-Dinitrotoluene	<0.167	U	1.33	1.057		mg/L		79	48 - 131	1	30
2,6-Dinitrotoluene	<0.167	U	1.33	1.041		mg/L		78	42 - 136	2	30
2-Chloronaphthalene	<0.167	U	1.33	0.9891		mg/L		74	32 - 138	0	30
2-Chlorophenol	<0.167	U	1.33	1.036		mg/L		78	38 - 125	6	30
2-Methylnaphthalene	<0.167	U	1.33	1.034		mg/L		78	36 - 126	2	30
2-Methylphenol	<0.167	U	1.33	1.070		mg/L		80	37 - 128	8	30
2-Nitroaniline	<0.333	U	1.33	1.098		mg/L		82	30 - 133	1	40
2-Nitrophenol	<0.167	U	1.33	1.000		mg/L		75	33 - 142	2	30
3 & 4 Methylphenol	<0.167	U	1.33	1.095		mg/L		82	38 - 126	6	30
3,3'-Dichlorobenzidine	<0.333	U	1.33	0.9394		mg/L		71	35 - 134	3	40
3-Nitroaniline	<0.333	U	1.33	0.9975		mg/L		75	41 - 135	3	40
4,6-Dinitro-2-methylphenol	<0.333	U	1.33	0.9652		mg/L		73	30 - 146	3	40
4-Bromophenyl phenyl ether	<0.167	U	1.33	1.084		mg/L		81	37 - 140	0	30
4-Chloro-3-methylphenol	<0.167	U	1.33	1.169		mg/L		88	40 - 134	2	30
4-Chloroaniline	<0.333	U	1.33	1.028		mg/L		77	34 - 124	3	40
4-Chlorophenyl phenyl ether	<0.167	U	1.33	1.071		mg/L		80	41 - 131	0	30
4-Nitroaniline	<0.333	U	1.33	1.036		mg/L		78	46 - 132	4	40
4-Nitrophenol	<0.333	U	1.33	0.8745		mg/L		66	21 - 152	3	40
Acenaphthene	<0.167	U	1.33	1.032		mg/L		78	37 - 131	1	30
Acenaphthylene	<0.167	U	1.33	1.092		mg/L		82	39 - 129	2	30

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 860-30528-A-1-H MSD

Matrix: Solid

Analysis Batch: 63483

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 63375

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aniline (Phenylamine, Aminobenzene)	<0.333	U	1.33	0.8866		mg/L		67	33 - 117	17	40
Anthracene	<0.167	U	1.33	1.125		mg/L		85	39 - 139	2	30
Benzo[a]anthracene	<0.167	U	1.33	1.057		mg/L		79	44 - 135	4	30
Benzo[a]pyrene	<0.167	U	1.33	1.022		mg/L		70	43 - 153	1	30
Benzo[b]fluoranthene	<0.167	U	1.33	0.9493		mg/L		70	40 - 153	3	30
Benzo[g,h,i]perylene	<0.167	U	1.33	1.075		mg/L		81	40 - 153	5	30
Benzo[k]fluoranthene	<0.167	U	1.33	1.063		mg/L		80	33 - 156	6	30
Benzoic acid	<1.00	U	3.99	2.655		mg/L		66	31 - 171	11	50
Butyl benzyl phthalate	<0.167	U	1.33	1.048		mg/L		79	43 - 145	3	30
Bis(2-chloroethoxy)methane	<0.167	U	1.33	0.9526		mg/L		72	30 - 129	8	30
Bis(2-chloroethyl)ether	<0.167	U	1.33	0.9670		mg/L		73	33 - 127	0	30
bis (2-chloroisopropyl) ether	<0.167	U	1.33	0.9040		mg/L		68	25 - 124	15	30
Bis(2-ethylhexyl) phthalate	<0.333	U	1.33	1.056		mg/L		79	46 - 145	4	30
Chrysene	<0.167	U	1.33	1.053		mg/L		79	42 - 135	3	30
Dibenz(a,h)anthracene	<0.167	U	1.33	0.9850		mg/L		74	41 - 155	8	30
Dibenzofuran	<0.167	U	1.33	1.046		mg/L		79	39 - 132	2	30
Diethyl phthalate	<0.167	U	1.33	1.103		mg/L		83	45 - 131	1	30
Dimethyl phthalate	<0.167	U	1.33	1.077		mg/L		81	43 - 132	1	30
Di-n-butyl phthalate	<0.167	U	1.33	1.104		mg/L		83	43 - 142	0	30
Di-n-octyl phthalate	<0.167	U	1.33	1.028		mg/L		77	34 - 166	1	30
Fluoranthene	<0.167	U	1.33	1.172		mg/L		88	41 - 138	1	30
Fluorene	<0.167	U	1.33	1.079		mg/L		81	41 - 131	3	30
Hexachlorobenzene	<0.167	U	1.33	1.049		mg/L		79	36 - 142	0	30
Hexachlorobutadiene	<0.167	U	1.33	0.9653		mg/L		73	35 - 129	2	30
Hexachlorocyclopentadiene	<0.167	U	1.33	0.8717		mg/L		65	16 - 106	7	30
Hexachloroethane	<0.167	U	1.33	0.9220		mg/L		69	36 - 121	9	30
Indeno[1,2,3-cd]pyrene	<0.167	U	1.33	0.9962		mg/L		75	39 - 154	5	30
Isophorone	<0.167	U	1.33	1.020		mg/L		77	36 - 128	1	30
Naphthalene	<0.167	U	1.33	0.9505		mg/L		71	35 - 128	5	30
Nitrobenzene	<0.167	U	1.33	0.9328		mg/L		70	32 - 129	4	30
N-Nitrosodi-n-propylamine	<0.167	U	1.33	1.072		mg/L		81	34 - 129	7	30
N-Nitrosodiphenylamine	<0.167	U	1.33	1.099		mg/L		83	27 - 155	0	30
Pentachlorophenol	<0.333	U	1.33	0.8907		mg/L		67	14 - 148	2	40
Phenanthrene	<0.167	U	1.33	1.047		mg/L		79	37 - 139	1	30
Phenol	<0.333	U	1.33	1.001		mg/L		75	34 - 127	11	40
Pyrene	<0.167	U	1.33	1.130		mg/L		85	42 - 138	8	30
Pyridine	<0.333	U	1.33	0.7472		mg/L		56	30 - 113	15	40

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	75		19 - 122
2-Fluorobiphenyl (Surr)	76		30 - 115
2-Fluorophenol (Surr)	74		25 - 121
Nitrobenzene-d5 (Surr)	71		23 - 129
p-Terphenyl-d14 (Surr)	83		18 - 137
Phenol-d5 (Surr)	78		24 - 113

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-31323/5-A

Matrix: Solid

Analysis Batch: 31375

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31323

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/02/22 13:15	08/03/22 10:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/02/22 13:15	08/03/22 10:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/02/22 13:15	08/03/22 10:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/02/22 13:15	08/03/22 10:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/02/22 13:15	08/03/22 10:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/02/22 13:15	08/03/22 10:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	08/02/22 13:15	08/03/22 10:46	1
1,4-Difluorobenzene (Surr)	87		70 - 130	08/02/22 13:15	08/03/22 10:46	1

Lab Sample ID: LCS 880-31323/1-A

Matrix: Solid

Analysis Batch: 31375

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31323

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08593		mg/Kg		86	70 - 130
Toluene	0.100	0.08462		mg/Kg		85	70 - 130
Ethylbenzene	0.100	0.08679		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1764		mg/Kg		88	70 - 130
o-Xylene	0.100	0.09584		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-31323/2-A

Matrix: Solid

Analysis Batch: 31375

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31323

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.08793		mg/Kg		88	70 - 130	2	35
Toluene	0.100	0.08706		mg/Kg		87	70 - 130	3	35
Ethylbenzene	0.100	0.09087		mg/Kg		91	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1840		mg/Kg		92	70 - 130	4	35
o-Xylene	0.100	0.1003		mg/Kg		100	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 880-17607-A-1-A MS

Matrix: Solid

Analysis Batch: 31375

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 31323

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U F2 F1	0.101	0.09290		mg/Kg		92	70 - 130
Toluene	<0.00201	U F2 F1	0.101	0.08067		mg/Kg		80	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

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

Lab Sample ID: 880-17607-A-1-A MS

Matrix: Solid

Analysis Batch: 31375

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 31323

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U F2 F1	0.101	0.07258		mg/Kg		72	70 - 130
m-Xylene & p-Xylene	<0.00402	U F2 F1	0.201	0.1436		mg/Kg		71	70 - 130
o-Xylene	<0.00201	U F2 F1	0.101	0.07867		mg/Kg		78	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-17607-A-1-B MSD

Matrix: Solid

Analysis Batch: 31375

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 31323

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F2 F1	0.0990	0.06422	F2 F1	mg/Kg		65	70 - 130	37	35
Toluene	<0.00201	U F2 F1	0.0990	0.05399	F2 F1	mg/Kg		55	70 - 130	40	35
Ethylbenzene	<0.00201	U F2 F1	0.0990	0.04416	F2 F1	mg/Kg		45	70 - 130	49	35
m-Xylene & p-Xylene	<0.00402	U F2 F1	0.198	0.08685	F2 F1	mg/Kg		44	70 - 130	49	35
o-Xylene	<0.00201	U F2 F1	0.0990	0.04906	F2 F1	mg/Kg		50	70 - 130	46	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: MB 880-31337/5-A

Matrix: Solid

Analysis Batch: 31375

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31337

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/02/22 14:44	08/03/22 21:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/02/22 14:44	08/03/22 21:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/02/22 14:44	08/03/22 21:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/02/22 14:44	08/03/22 21:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/02/22 14:44	08/03/22 21:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/02/22 14:44	08/03/22 21:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	08/02/22 14:44	08/03/22 21:53	1
1,4-Difluorobenzene (Surr)	87		70 - 130	08/02/22 14:44	08/03/22 21:53	1

Lab Sample ID: LCS 880-31337/1-A

Matrix: Solid

Analysis Batch: 31375

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31337

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09999		mg/Kg		100	70 - 130
Toluene	0.100	0.1031		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.1082		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	0.200	0.2220		mg/Kg		111	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

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

Lab Sample ID: LCS 880-31337/1-A

Matrix: Solid

Analysis Batch: 31375

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31337

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1387	*+	mg/Kg		139	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: LCSD 880-31337/2-A

Matrix: Solid

Analysis Batch: 31375

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31337

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0998	0.05262	*- *1	mg/Kg		53	70 - 130	62	35
Toluene	0.0998	0.06071	*- *1	mg/Kg		61	70 - 130	52	35
Ethylbenzene	0.0998	0.06794	*- *1	mg/Kg		68	70 - 130	46	35
m-Xylene & p-Xylene	0.200	0.1297	*- *1	mg/Kg		65	70 - 130	52	35
o-Xylene	0.0998	0.09111	*1	mg/Kg		91	70 - 130	41	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: 890-2656-A-1-F MS

Matrix: Solid

Analysis Batch: 31375

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 31337

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U *- *1	0.101	0.08722		mg/Kg		87	70 - 130
Toluene	<0.00199	U *- *1	0.101	0.08202		mg/Kg		82	70 - 130
Ethylbenzene	<0.00199	U *- *1	0.101	0.08158		mg/Kg		81	70 - 130
m-Xylene & p-Xylene	<0.00398	U *- *1	0.201	0.1625		mg/Kg		81	70 - 130
o-Xylene	<0.00199	U +* *1	0.101	0.09304		mg/Kg		92	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-2656-A-1-G MSD

Matrix: Solid

Analysis Batch: 31375

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 31337

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U *- *1	0.0998	0.09326		mg/Kg		93	70 - 130	7	35
Toluene	<0.00199	U *- *1	0.0998	0.08591		mg/Kg		86	70 - 130	5	35
Ethylbenzene	<0.00199	U *- *1	0.0998	0.08696		mg/Kg		87	70 - 130	6	35
m-Xylene & p-Xylene	<0.00398	U *- *1	0.200	0.1684		mg/Kg		84	70 - 130	4	35
o-Xylene	<0.00199	U +* *1	0.0998	0.09635		mg/Kg		97	70 - 130	3	35

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

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

Lab Sample ID: 890-2656-A-1-G MSD

Matrix: Solid

Analysis Batch: 31375

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 31337

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

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

Lab Sample ID: MB 880-31028/1-A

Matrix: Solid

Analysis Batch: 31087

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31028

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/29/22 15:32	07/31/22 20:10	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/29/22 15:32	07/31/22 20:10	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/29/22 15:32	07/31/22 20:10	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
1-Chlorooctane	84		70 - 130				07/29/22 15:32	07/31/22 20:10	1	
o-Terphenyl	103		70 - 130				07/29/22 15:32	07/31/22 20:10	1	

Lab Sample ID: LCS 880-31028/2-A

Matrix: Solid

Analysis Batch: 31087

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31028

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10			1000	883.1		mg/Kg		88	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	795.1		mg/Kg		80	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	76		70 - 130							
o-Terphenyl	81		70 - 130							

Lab Sample ID: LCSD 880-31028/3-A

Matrix: Solid

Analysis Batch: 31087

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31028

			Spike	LCSD	LCSD				%Rec		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	898.4		mg/Kg		90	70 - 130	2	20	
Diesel Range Organics (Over C10-C28)			1000	796.2		mg/Kg		80	70 - 130	0	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	73		70 - 130									
o-Terphenyl	77		70 - 130									

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

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

Lab Sample ID: 880-17520-A-21-B MS

Matrix: Solid

Analysis Batch: 31087

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 31028

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1003		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	823.0		mg/Kg		82	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	87		70 - 130						
o-Terphenyl	89		70 - 130						

Lab Sample ID: 880-17520-A-21-C MSD

Matrix: Solid

Analysis Batch: 31087

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 31028

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	981.3		mg/Kg		95	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	801.0		mg/Kg		80	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	83		70 - 130								
o-Terphenyl	87		70 - 130								

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-63194/1-A

Matrix: Solid

Analysis Batch: 63459

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63194

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.392	U	0.392		mg/Kg		08/01/22 20:31	08/02/22 20:55	1
Barium	<0.392	U	0.392		mg/Kg		08/01/22 20:31	08/02/22 20:55	1
Cadmium	<0.196	U	0.196		mg/Kg		08/01/22 20:31	08/02/22 20:55	1
Chromium	<0.392	U	0.392		mg/Kg		08/01/22 20:31	08/02/22 20:55	1
Lead	<0.196	U	0.196		mg/Kg		08/01/22 20:31	08/02/22 20:55	1
Manganese	<0.196	U	0.196		mg/Kg		08/01/22 20:31	08/02/22 20:55	1
Nickel	<0.196	U	0.196		mg/Kg		08/01/22 20:31	08/02/22 20:55	1
Selenium	<0.196	U	0.196		mg/Kg		08/01/22 20:31	08/02/22 20:55	1
Silver	<0.196	U	0.196		mg/Kg		08/01/22 20:31	08/02/22 20:55	1
Zinc	<0.392	U	0.392		mg/Kg		08/01/22 20:31	08/02/22 20:55	1

Lab Sample ID: MB 860-63194/1-A

Matrix: Solid

Analysis Batch: 63524

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63194

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.196	U	0.196		mg/Kg		08/01/22 20:31	08/03/22 14:24	1

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 860-63194/2-A

Matrix: Solid

Analysis Batch: 63459

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 63194

Analyte	Spike		LCS		Unit	D	%Rec	%Rec	
	Added	Result	Qualifier					Limits	
Arsenic	10.0	9.808			mg/Kg		98	80 - 120	
Barium	10.0	9.692			mg/Kg		97	80 - 120	
Cadmium	10.0	9.811			mg/Kg		98	80 - 120	
Chromium	10.0	9.556			mg/Kg		96	80 - 120	
Lead	10.0	9.542			mg/Kg		95	80 - 120	
Manganese	10.0	10.14			mg/Kg		101	80 - 120	
Nickel	10.0	9.610			mg/Kg		96	80 - 120	
Selenium	10.0	9.688			mg/Kg		97	80 - 120	
Zinc	10.0	10.09			mg/Kg		101	80 - 120	

Lab Sample ID: LCS 860-63194/2-A

Matrix: Solid

Analysis Batch: 63524

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 63194

Analyte	Spike		LCS		Unit	D	%Rec	%Rec	
	Added	Result	Qualifier					Limits	
Silver	5.00	4.883			mg/Kg		98	80 - 120	

Lab Sample ID: LCSD 860-63194/3-A

Matrix: Solid

Analysis Batch: 63459

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 63194

Analyte	Spike		LCSD		Unit	D	%Rec	%Rec		RPD	
	Added	Result	Qualifier					Limits		RPD	Limit
Arsenic	10.0	9.782			mg/Kg		98	80 - 120	0	20	
Barium	10.0	9.752			mg/Kg		98	80 - 120	1	20	
Cadmium	10.0	9.864			mg/Kg		99	80 - 120	1	20	
Chromium	10.0	9.698			mg/Kg		97	80 - 120	1	20	
Lead	10.0	9.573			mg/Kg		96	80 - 120	0	20	
Manganese	10.0	10.01			mg/Kg		100	80 - 120	1	20	
Nickel	10.0	9.820			mg/Kg		98	80 - 120	2	20	
Selenium	10.0	9.742			mg/Kg		97	80 - 120	1	20	
Zinc	10.0	10.10			mg/Kg		101	80 - 120	0	20	

Lab Sample ID: LCSD 860-63194/3-A

Matrix: Solid

Analysis Batch: 63524

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 63194

Analyte	Spike		LCSD		Unit	D	%Rec	%Rec		RPD	
	Added	Result	Qualifier					Limits		RPD	Limit
Silver	5.00	4.964			mg/Kg		99	80 - 120	2	20	

Lab Sample ID: 860-29993-A-9-E MS ^10

Matrix: Solid

Analysis Batch: 63459

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 63194

Analyte	Sample		Spike		MS		Unit	D	%Rec	%Rec	
	Result	Qualifier	Added		Result	Qualifier				Limits	
Arsenic	<3.77	U	8.77		11.97		mg/Kg		95	75 - 125	
Barium	41.6		8.77		56.53	4	mg/Kg		171	75 - 125	
Cadmium	<1.89	U	8.77		8.050		mg/Kg		90	75 - 125	
Chromium	13.1		8.77		23.40		mg/Kg		117	75 - 125	
Lead	6.66		8.77		15.43		mg/Kg		100	75 - 125	

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 860-29993-A-9-E MS ^10

Matrix: Solid

Analysis Batch: 63459

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 63194

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	106		8.77	151.7	4	mg/Kg		527	75 - 125
Nickel	8.16		8.77	17.02		mg/Kg		101	75 - 125
Selenium	<1.89	U	8.77	8.064		mg/Kg		85	75 - 125
Silver	<1.89	U *- *1	4.39	3.741		mg/Kg		85	75 - 125
Zinc	14.9	F1	8.77	24.22		mg/Kg		106	75 - 125

Lab Sample ID: 860-29993-A-9-E MS ^10

Matrix: Solid

Analysis Batch: 63524

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 63194

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	<1.89	U	4.39	3.906		mg/Kg		89	75 - 125

Lab Sample ID: 860-29993-A-9-F MSD ^10

Matrix: Solid

Analysis Batch: 63459

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 63194

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	<3.77	U	8.77	11.29		mg/Kg		87	75 - 125	6	20
Barium	41.6		8.77	51.75	4	mg/Kg		116	75 - 125	9	20
Cadmium	<1.89	U	8.77	7.456		mg/Kg		83	75 - 125	8	20
Chromium	13.1		8.77	20.08		mg/Kg		79	75 - 125	15	20
Lead	6.66		8.77	14.83		mg/Kg		93	75 - 125	4	20
Manganese	106		8.77	144.5	4	mg/Kg		444	75 - 125	5	20
Nickel	8.16		8.77	15.76		mg/Kg		87	75 - 125	8	20
Selenium	<1.89	U	8.77	7.411		mg/Kg		77	75 - 125	8	20
Silver	<1.89	U *- *1	4.39	4.059		mg/Kg		93	75 - 125	8	20
Zinc	14.9	F1	8.77	26.37	F1	mg/Kg		131	75 - 125	9	20

Lab Sample ID: 860-29993-A-9-F MSD ^10

Matrix: Solid

Analysis Batch: 63524

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 63194

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	<1.89	U	4.39	4.168		mg/Kg		95	75 - 125	6	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 860-63105/10-A

Matrix: Solid

Analysis Batch: 63179

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63105

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0192	U	0.0192		mg/Kg		08/01/22 11:27	08/01/22 15:48	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 860-63105/11-A

Matrix: Solid

Analysis Batch: 63179

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 63105

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.189	0.2026		mg/Kg		107	80 - 120

Lab Sample ID: LCSD 860-63105/12-A

Matrix: Solid

Analysis Batch: 63179

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 63105

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.189	0.1881		mg/Kg		100	80 - 120	7	20

Lab Sample ID: 860-30026-G-6-C MS

Matrix: Solid

Analysis Batch: 63179

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 63105

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.0564		0.167	0.2090		mg/Kg		92	75 - 125

Lab Sample ID: 860-30026-G-6-D MSD

Matrix: Solid

Analysis Batch: 63179

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 63105

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.0564		0.167	0.1882		mg/Kg		79	75 - 125	10	20

Method: 1010 - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: 860-30153-A-1 DU

Matrix: Solid

Analysis Batch: 63167

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Flashpoint	>180		>180.0		Degrees F		NC	25

Lab Sample ID: 860-30361-A-1 DU

Matrix: Solid

Analysis Batch: 63167

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Flashpoint	>180		>180.0		Degrees F		NC	25

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 860-63119/1-A

Matrix: Solid

Analysis Batch: 63174

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63119

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	<0.0250	U	0.0250		mg/Kg		08/01/22 09:29	08/01/22 15:05	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Method: 9012 - Cyanide, Reactive (Continued)

Lab Sample ID: LCS 860-63119/2-A

Matrix: Solid

Analysis Batch: 63174

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 63119

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Reactive	20.0	3.945		mg/Kg		20	5 - 40

Lab Sample ID: LCSD 860-63119/3-A

Matrix: Solid

Analysis Batch: 63174

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 63119

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Reactive	20.0	3.846		mg/Kg		19	5 - 40	3	20

Lab Sample ID: 860-30153-A-1-J DU

Matrix: Solid

Analysis Batch: 63174

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 63119

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cyanide, Reactive	<0.0250	U	<0.0250	U	mg/Kg		NC	20

Lab Sample ID: 860-30361-A-1-G DU

Matrix: Solid

Analysis Batch: 63174

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 63119

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cyanide, Reactive	<0.0250	U	<0.0250	U	mg/Kg		NC	20

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 860-63081/1-A

Matrix: Solid

Analysis Batch: 63176

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63081

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	<6.25	U	6.25		mg/Kg		08/01/22 09:29	08/01/22 16:17	1

Lab Sample ID: LCS 860-63081/2-A

Matrix: Solid

Analysis Batch: 63176

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 63081

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide, Reactive	50.0	52.10		mg/Kg		104	30 - 120

Lab Sample ID: LCSD 860-63081/3-A

Matrix: Solid

Analysis Batch: 63176

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 63081

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide, Reactive	50.0	56.11		mg/Kg		112	30 - 120	7	20

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Method: 9034 - Sulfide, Reactive (Continued)

Lab Sample ID: 860-30153-A-1-E DU
Matrix: Solid
Analysis Batch: 63176

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 63081

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Sulfide, Reactive	<6.25	U	<6.25	U	mg/Kg		NC	20

Lab Sample ID: 860-30361-A-1-E DU
Matrix: Solid
Analysis Batch: 63176

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 63081

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Sulfide, Reactive	<6.25	U	<6.25	U	mg/Kg		NC	20

Method: 9045D - pH

Lab Sample ID: 880-17518-1 DU
Matrix: Solid
Analysis Batch: 63308

Client Sample ID: SP-1
Prep Type: Soluble

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
pH	6.8	HF	6.8		SU		0.4	20
Temperature	22.3	HF	22.3		Deg. C		0	25

Method: D2216 - Percent Moisture

Lab Sample ID: MB 880-31257/1
Matrix: Solid
Analysis Batch: 31257

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Percent Moisture	<0.100	U	0.100		%			08/02/22 08:30	1

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

GC/MS VOA

Prep Batch: 63124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17502-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	

Prep Batch: 63142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17518-1 - DL	SP-1	Total/NA	Solid	5035	
880-17518-1	SP-1	Total/NA	Solid	5035	

Analysis Batch: 63225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17518-1	SP-1	Total/NA	Solid	8260C	63142
880-17518-1 - DL	SP-1	Total/NA	Solid	8260C	63142
MB 860-63225/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-63225/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-63225/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
880-17502-A-1-C MS	Matrix Spike	Total/NA	Solid	8260C	63124

GC/MS Semi VOA

Prep Batch: 63375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17518-1	SP-1	Total/NA	Solid	3550C	
MB 860-63375/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-63375/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-63375/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
860-30528-A-1-G MS	Matrix Spike	Total/NA	Solid	3550C	
860-30528-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	

Analysis Batch: 63483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-63375/1-A	Method Blank	Total/NA	Solid	8270D	63375
LCS 860-63375/2-A	Lab Control Sample	Total/NA	Solid	8270D	63375
LCSD 860-63375/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	63375
860-30528-A-1-G MS	Matrix Spike	Total/NA	Solid	8270D	63375
860-30528-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8270D	63375

Analysis Batch: 63549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17518-1	SP-1	Total/NA	Solid	8270D	63375

GC VOA

Prep Batch: 31323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17518-1	SP-1	Total/NA	Solid	5035	
MB 880-31323/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31323/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31323/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-17607-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-17607-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

GC VOA

Prep Batch: 31337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17518-1	SP-1	Total/NA	Solid	5035	
MB 880-31337/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31337/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31337/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2656-A-1-F MS	Matrix Spike	Total/NA	Solid	5035	
890-2656-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 31375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17518-1	SP-1	Total/NA	Solid	8021B	31323
880-17518-1	SP-1	Total/NA	Solid	8021B	31337
MB 880-31323/5-A	Method Blank	Total/NA	Solid	8021B	31323
MB 880-31337/5-A	Method Blank	Total/NA	Solid	8021B	31337
LCS 880-31323/1-A	Lab Control Sample	Total/NA	Solid	8021B	31323
LCS 880-31337/1-A	Lab Control Sample	Total/NA	Solid	8021B	31337
LCSD 880-31323/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31323
LCSD 880-31337/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31337
880-17607-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	31323
880-17607-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	31323
890-2656-A-1-F MS	Matrix Spike	Total/NA	Solid	8021B	31337
890-2656-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	31337

Analysis Batch: 31475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17518-1	SP-1	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 31028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17518-1	SP-1	Total/NA	Solid	8015NM Prep	
MB 880-31028/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-31028/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-31028/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-17520-A-21-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-17520-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 31087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17518-1	SP-1	Total/NA	Solid	8015B NM	31028
MB 880-31028/1-A	Method Blank	Total/NA	Solid	8015B NM	31028
LCS 880-31028/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	31028
LCSD 880-31028/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	31028
880-17520-A-21-B MS	Matrix Spike	Total/NA	Solid	8015B NM	31028
880-17520-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	31028

Analysis Batch: 31488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17518-1	SP-1	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Metals

Prep Batch: 63105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17518-1	SP-1	Total/NA	Solid	7471B	
MB 860-63105/10-A	Method Blank	Total/NA	Solid	7471B	
LCS 860-63105/11-A	Lab Control Sample	Total/NA	Solid	7471B	
LCSD 860-63105/12-A	Lab Control Sample Dup	Total/NA	Solid	7471B	
860-30026-G-6-C MS	Matrix Spike	Total/NA	Solid	7471B	
860-30026-G-6-D MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	

Analysis Batch: 63179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17518-1	SP-1	Total/NA	Solid	7471B	63105
MB 860-63105/10-A	Method Blank	Total/NA	Solid	7471B	63105
LCS 860-63105/11-A	Lab Control Sample	Total/NA	Solid	7471B	63105
LCSD 860-63105/12-A	Lab Control Sample Dup	Total/NA	Solid	7471B	63105
860-30026-G-6-C MS	Matrix Spike	Total/NA	Solid	7471B	63105
860-30026-G-6-D MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	63105

Prep Batch: 63194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17518-1	SP-1	Total/NA	Solid	3051A	
MB 860-63194/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-63194/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-63194/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	
860-29993-A-9-E MS ^10	Matrix Spike	Total/NA	Solid	3051A	
860-29993-A-9-F MSD ^10	Matrix Spike Duplicate	Total/NA	Solid	3051A	

Analysis Batch: 63459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17518-1	SP-1	Total/NA	Solid	6020A	63194
MB 860-63194/1-A	Method Blank	Total/NA	Solid	6020A	63194
LCS 860-63194/2-A	Lab Control Sample	Total/NA	Solid	6020A	63194
LCSD 860-63194/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	63194
860-29993-A-9-E MS ^10	Matrix Spike	Total/NA	Solid	6020A	63194
860-29993-A-9-F MSD ^10	Matrix Spike Duplicate	Total/NA	Solid	6020A	63194

Analysis Batch: 63524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17518-1	SP-1	Total/NA	Solid	6020A	63194
MB 860-63194/1-A	Method Blank	Total/NA	Solid	6020A	63194
LCS 860-63194/2-A	Lab Control Sample	Total/NA	Solid	6020A	63194
LCSD 860-63194/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	63194
860-29993-A-9-E MS ^10	Matrix Spike	Total/NA	Solid	6020A	63194
860-29993-A-9-F MSD ^10	Matrix Spike Duplicate	Total/NA	Solid	6020A	63194

General Chemistry

Analysis Batch: 31257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17518-1	SP-1	Total/NA	Solid	D2216	
MB 880-31257/1	Method Blank	Total/NA	Solid	D2216	

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

General Chemistry

Prep Batch: 63081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17518-1	SP-1	Total/NA	Solid	7.3.4	
MB 860-63081/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCS 860-63081/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	
LCSD 860-63081/3-A	Lab Control Sample Dup	Total/NA	Solid	7.3.4	
860-30153-A-1-E DU	Duplicate	Total/NA	Solid	7.3.4	
860-30361-A-1-E DU	Duplicate	Total/NA	Solid	7.3.4	

Prep Batch: 63119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17518-1	SP-1	Total/NA	Solid	7.3.3	
MB 860-63119/1-A	Method Blank	Total/NA	Solid	7.3.3	
LCS 860-63119/2-A	Lab Control Sample	Total/NA	Solid	7.3.3	
LCSD 860-63119/3-A	Lab Control Sample Dup	Total/NA	Solid	7.3.3	
860-30153-A-1-J DU	Duplicate	Total/NA	Solid	7.3.3	
860-30361-A-1-G DU	Duplicate	Total/NA	Solid	7.3.3	

Analysis Batch: 63167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17518-1	SP-1	Total/NA	Solid	1010	
LCS 860-63167/1	Lab Control Sample	Total/NA	Solid	1010	
860-30153-A-1 DU	Duplicate	Total/NA	Solid	1010	
860-30361-A-1 DU	Duplicate	Total/NA	Solid	1010	

Analysis Batch: 63174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17518-1	SP-1	Total/NA	Solid	9012	63119
MB 860-63119/1-A	Method Blank	Total/NA	Solid	9012	63119
LCS 860-63119/2-A	Lab Control Sample	Total/NA	Solid	9012	63119
LCSD 860-63119/3-A	Lab Control Sample Dup	Total/NA	Solid	9012	63119
860-30153-A-1-J DU	Duplicate	Total/NA	Solid	9012	63119
860-30361-A-1-G DU	Duplicate	Total/NA	Solid	9012	63119

Analysis Batch: 63176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17518-1	SP-1	Total/NA	Solid	9034	63081
MB 860-63081/1-A	Method Blank	Total/NA	Solid	9034	63081
LCS 860-63081/2-A	Lab Control Sample	Total/NA	Solid	9034	63081
LCSD 860-63081/3-A	Lab Control Sample Dup	Total/NA	Solid	9034	63081
860-30153-A-1-E DU	Duplicate	Total/NA	Solid	9034	63081
860-30361-A-1-E DU	Duplicate	Total/NA	Solid	9034	63081

Leach Batch: 63289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17518-1	SP-1	Soluble	Solid	DI Leach	
880-17518-1 DU	SP-1	Soluble	Solid	DI Leach	

Analysis Batch: 63308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17518-1	SP-1	Soluble	Solid	9045D	63289
880-17518-1 DU	SP-1	Soluble	Solid	9045D	63289

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Client Sample ID: SP-1

Lab Sample ID: 880-17518-1

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

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	63142	08/01/22 15:30	KLV	EETSC HOU
Total/NA	Analysis	8260C		200	5 mL	5 mL	63225	08/02/22 15:06	KLV	EETSC HO
Total/NA	Prep	5035	DL		5.02 g	5 mL	63142	08/01/22 15:30	KLV	EETSC HO
Total/NA	Analysis	8260C	DL	2000	5 mL	5 mL	63225	08/02/22 15:30	KLV	EETSC HO
Total/NA	Prep	3550C			30.01 g	1.00 mL	63375	08/03/22 08:31	TH	EETSC HO
Total/NA	Analysis	8270D		10			63549	08/04/22 15:16	LPL	EETSC HO
Total/NA	Analysis	Total BTEX		1			31475	08/04/22 09:41	SM	EETSC MIL
Total/NA	Analysis	8015 NM		1			31488	08/04/22 09:51	SM	EETSC MIL
Total/NA	Prep	3051A			.54 g	50 mL	63194	08/01/22 20:31	PB	EETSC HO
Total/NA	Analysis	6020A		10			63459	08/02/22 22:15	SHZ	EETSC HO
Total/NA	Prep	3051A			.54 g	50 mL	63194	08/01/22 20:31	PB	EETSC HO
Total/NA	Analysis	6020A		10			63524	08/03/22 15:42	SHZ	EETSC HO
Total/NA	Prep	7471B			.59 g	50 mL	63105	08/01/22 11:27	PB	EETSC HO
Total/NA	Analysis	7471B		1			63179	08/01/22 16:12	SHZ	EETSC HO
Total/NA	Analysis	1010		1			63167	08/01/22 15:49	JM	EETSC HO
Total/NA	Prep	7.3.3			10.0 g	50 mL	63119	08/01/22 09:29	PSC	EETSC HO
Total/NA	Analysis	9012		1	10 mL	10 mL	63174	08/01/22 15:16	YVD	EETSC HO
Total/NA	Prep	7.3.4			10.0 g	50 mL	63081	08/01/22 09:29	PSC	EETSC HO
Total/NA	Analysis	9034		1	40 mL	50 mL	63176	08/01/22 16:17	PSC	EETSC HO
Soluble	Leach	DI Leach			20.12 g	20 mL	63289	08/02/22 13:16	TL	EETSC HO
Soluble	Analysis	9045D		1	20.12 g	20 mL	63308	08/02/22 14:37	TL	EETSC HO
Total/NA	Analysis	D2216		1			31257	08/02/22 08:30	CH	EETSC MIL

Client Sample ID: SP-1

Lab Sample ID: 880-17518-1

Date Collected: 07/28/22 00:00

Matrix: Solid

Date Received: 07/29/22 14:28

Percent Solids: 96.0

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	31323	08/02/22 13:15	MR	EETSC MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	31375	08/03/22 13:11	MR	EETSC MIL
Total/NA	Prep	5035			5.02 g	5 mL	31337	08/02/22 14:44	MR	EETSC MIL
Total/NA	Analysis	8021B		500	5 mL	5 mL	31375	08/04/22 00:18	MR	EETSC MIL
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31028	07/29/22 15:32	DM	EETSC MIL
Total/NA	Analysis	8015B NM		10			31087	08/01/22 07:52	SM	EETSC MIL

Laboratory References:

EETSC HOU = Eurofins Houston, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

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

Eurofins Midland

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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

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

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-23
Louisiana	NELAP	03054	06-30-23
Oklahoma	State	2021-168	08-31-22
Texas	NELAP	T104704215-22-47	06-30-23
Texas	TCEQ Water Supply	T104704215	12-31-22
USDA	US Federal Programs	P330-22-00025	03-02-23

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EETSC HOU
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EETSC HOU
8021B	Volatile Organic Compounds (GC)	SW846	EETSC MID
Total BTEX	Total BTEX Calculation	TAL SOP	EETSC MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EETSC MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EETSC MID
6020A	Metals (ICP/MS)	SW846	EETSC HOU
7471B	Mercury (CVAA)	SW846	EETSC HOU
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW846	EETSC HOU
9012	Cyanide, Reactive	SW846	EETSC HOU
9034	Sulfide, Reactive	SW846	EETSC HOU
9045D	pH	SW846	EETSC HOU
D2216	Percent Moisture	ASTM	EETSC MID
3051A	Preparation, Metals, Microwave Assisted	SW846	EETSC HOU
3550C	Ultrasonic Extraction	SW846	EETSC HOU
5035	Closed System Purge and Trap	SW846	EETSC HOU
5035	Closed System Purge and Trap	SW846	EETSC MID
7.3.3	Cyanide, Reactive	SW846	EETSC HOU
7.3.4	Sulfide, Reactive	SW846	EETSC HOU
7471B	Preparation, Mercury	SW846	EETSC HOU
8015NM Prep	Microextraction	SW846	EETSC MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EETSC HOU

Protocol References:

ASTM = ASTM International

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:

EETSC HOU = Eurofins Houston, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

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

Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: Marathon CTB130

Job ID: 880-17518-1
SDG: 1245

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-17518-1	SP-1	Solid	07/28/22 00:00	07/29/22 14:28	0 - 0.5

- 1
- 2
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Environment Testing
Xenco

Houston TX (281) 240-4200 Dallas, TX (214) 902-0300
Midland TX (432) 704-5440 San Antonio TX (210) 509-3334
El Paso, TX (915) 585-3443 Lubbock TX (806) 794-1296
Hobbs, NM (575) 392-7550 Carlsbad NM (575) 986-3199

Chain of Custody

Work Order No:

1500

www.xenco.com Page 1 of 1

Project Manager	Tom Carlson	Bill to (if different)	Earth Systems
Company Name	Earth Systems R&R	Company Name	
Address	4115 S CR 1297	Address	
City, State ZIP	Odessa, Texas 79765	City, State ZIP	
Phone	432-894-6385	Email	tcarlson@earthsys.net

Work Order Comments	
Program: UST/PST ☐ PRF ☐ Brownfield ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRF ☐ Level I ☐	
Deliverables EDD ☐ ADAPT ☐ Other	

[illegible]

Total	200.7 / 6010	200.8 / 6020:
Circle Method(s) and Metal(s) to be analyzed	8RCRA TCLP / SPLP 6010	Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 245 1 / 7470 / 7471

Notice: Signature of this document at relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xeno. A minimum charge of \$35.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
		7/21/22			
		14:28			

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 880-17518-1

SDG Number: 1245

Login Number: 17518

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	

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 880-17518-1

SDG Number: 1245

Login Number: 17518

List Number: 2

Creator: Bolch, Taylor

List Source: Eurofins Houston

List Creation: 07/30/22 11:25 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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?	N/A	
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.	True	
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").	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-18031-1
Laboratory Sample Delivery Group: 1246
Client Project/Site: CTB 130

For:
Earth Systems Response and Restoration
4115 South County Road 1297
Odessa, Texas 79765

Attn: Kris Williams

A handwritten signature in blue ink that reads "Brianna Teel".

Authorized for release by:
8/19/2022 6:03:48 PM

Brianna Teel, Project Manager
(432)704-5440
Brianna.Teel@et.eurofinsus.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Laboratory Job ID: 880-18031-1
SDG: 1246

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	5
Client Sample Results	7
Surrogate Summary	43
QC Sample Results	47
QC Association Summary	64
Lab Chronicle	76
Certification Summary	90
Method Summary	91
Sample Summary	92
Chain of Custody	93
Receipt Checklists	99

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

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.
α	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)

Eurofins Midland

Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

- 1
- 2
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Case Narrative

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Job ID: 880-18031-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-18031-1**

Receipt

The samples were received on 8/12/2022 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 5.4°C

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-18027-A-1-D). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: o-Xylene biased high in LCS. Since only an acceptable LCS or LCSD is required per the method, the data has been qualified and reported.(LCS 880-32053/1-A)

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-32053 and analytical batch 880-32046 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample duplicate (LCSD) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-32434 and analytical batch 880-32438 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW-7 (880-18031-43). 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: SC-22 (880-18031-22). 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: SC-29 (880-18031-29). 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: (880-18031-A-1-C 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: SC-4 (880-18031-4). 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: SC-16 (880-18031-16). 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 880-32083 and analytical batch 880-32051 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-32055 and analytical batch 880-32051 was outside control limits. Sample non-homogeneity is suspected.

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

Case Narrative

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Job ID: 880-18031-1 (Continued)

Laboratory: Eurofins Midland (Continued)

HPLC/IC

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

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-1

Lab Sample ID: 880-18031-1

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/12/22 13:10	08/12/22 19:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/12/22 13:10	08/12/22 19:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/12/22 13:10	08/12/22 19:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/12/22 13:10	08/12/22 19:19	1
o-Xylene	<0.00199	U *	0.00199		mg/Kg		08/12/22 13:10	08/12/22 19:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/12/22 13:10	08/12/22 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	08/12/22 13:10	08/12/22 19:19	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/12/22 13:10	08/12/22 19:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/15/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	49.9		mg/Kg		08/12/22 09:14	08/12/22 21:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/12/22 09:14	08/12/22 21:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/12/22 09:14	08/12/22 21:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	08/12/22 09:14	08/12/22 21:51	1
o-Terphenyl	96		70 - 130	08/12/22 09:14	08/12/22 21:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.64		5.00		mg/Kg			08/15/22 16:41	1

Client Sample ID: SC-2

Lab Sample ID: 880-18031-2

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 16:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 16:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 16:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/18/22 12:46	08/18/22 16:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 16:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/18/22 12:46	08/18/22 16:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	08/18/22 12:46	08/18/22 16:21	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-2

Lab Sample ID: 880-18031-2

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100		70 - 130	08/18/22 12:46	08/18/22 16:21	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/15/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	76.2		49.9		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/12/22 09:14	08/12/22 22:56	1
Diesel Range Organics (Over C10-C28)	76.2		49.9		mg/Kg		08/12/22 09:14	08/12/22 22:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/12/22 09:14	08/12/22 22:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				08/12/22 09:14	08/12/22 22:56	1
o-Terphenyl	74		70 - 130				08/12/22 09:14	08/12/22 22:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.15		5.04		mg/Kg			08/15/22 17:04	1

Client Sample ID: SC-3

Lab Sample ID: 880-18031-3

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/17/22 16:59	08/18/22 17:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/17/22 16:59	08/18/22 17:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/17/22 16:59	08/18/22 17:59	1
m-Xylene & p-Xylene	0.00419		0.00400		mg/Kg		08/17/22 16:59	08/18/22 17:59	1
o-Xylene	0.00213		0.00200		mg/Kg		08/17/22 16:59	08/18/22 17:59	1
Xylenes, Total	0.00632		0.00400		mg/Kg		08/17/22 16:59	08/18/22 17:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130	08/17/22 16:59	08/18/22 17:59	1
1,4-Difluorobenzene (Surr)	70		70 - 130	08/17/22 16:59	08/18/22 17:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00632		0.00400		mg/Kg			08/15/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2180		50.0		mg/Kg			08/15/22 10:31	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-3

Lab Sample ID: 880-18031-3

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/12/22 09:14	08/12/22 23:18	1
Diesel Range Organics (Over C10-C28)	1920		50.0		mg/Kg		08/12/22 09:14	08/12/22 23:18	1
Oil Range Organics (Over C28-C36)	255		50.0		mg/Kg		08/12/22 09:14	08/12/22 23:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				08/12/22 09:14	08/12/22 23:18	1
o-Terphenyl	71		70 - 130				08/12/22 09:14	08/12/22 23:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.05	U	5.05		mg/Kg			08/15/22 17:12	1

Client Sample ID: SC-4

Lab Sample ID: 880-18031-4

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/17/22 16:59	08/18/22 18:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/17/22 16:59	08/18/22 18:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/17/22 16:59	08/18/22 18:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/17/22 16:59	08/18/22 18:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/17/22 16:59	08/18/22 18:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/17/22 16:59	08/18/22 18:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130				08/17/22 16:59	08/18/22 18:26	1
1,4-Difluorobenzene (Surr)	77		70 - 130				08/17/22 16:59	08/18/22 18:26	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/15/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/12/22 09:14	08/12/22 23:39	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/12/22 09:14	08/12/22 23:39	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/12/22 09:14	08/12/22 23:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				08/12/22 09:14	08/12/22 23:39	1
o-Terphenyl	69	S1-	70 - 130				08/12/22 09:14	08/12/22 23:39	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-4

Lab Sample ID: 880-18031-4

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.01	U	5.01		mg/Kg			08/15/22 17:20	1

Client Sample ID: SC-5

Lab Sample ID: 880-18031-5

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/17/22 16:59	08/18/22 18:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/17/22 16:59	08/18/22 18:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/17/22 16:59	08/18/22 18:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/17/22 16:59	08/18/22 18:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/17/22 16:59	08/18/22 18:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/17/22 16:59	08/18/22 18:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130				08/17/22 16:59	08/18/22 18:52	1
1,4-Difluorobenzene (Surr)	85		70 - 130				08/17/22 16:59	08/18/22 18:52	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/15/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/12/22 09:14	08/13/22 00:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/12/22 09:14	08/13/22 00:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/12/22 09:14	08/13/22 00:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				08/12/22 09:14	08/13/22 00:01	1
o-Terphenyl	92		70 - 130				08/12/22 09:14	08/13/22 00:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.02		4.99		mg/Kg			08/15/22 17:28	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-6

Lab Sample ID: 880-18031-6

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/17/22 16:59	08/18/22 19:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/17/22 16:59	08/18/22 19:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/17/22 16:59	08/18/22 19:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/17/22 16:59	08/18/22 19:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/17/22 16:59	08/18/22 19:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/17/22 16:59	08/18/22 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130	08/17/22 16:59	08/18/22 19:19	1
1,4-Difluorobenzene (Surr)	93		70 - 130	08/17/22 16:59	08/18/22 19:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/15/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/12/22 09:14	08/13/22 00:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/12/22 09:14	08/13/22 00:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/12/22 09:14	08/13/22 00:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	08/12/22 09:14	08/13/22 00:23	1
o-Terphenyl	82		70 - 130	08/12/22 09:14	08/13/22 00:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/16/22 07:56	1

Client Sample ID: SC-7

Lab Sample ID: 880-18031-7

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/12/22 17:34	08/19/22 04:59	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/12/22 17:34	08/19/22 04:59	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/12/22 17:34	08/19/22 04:59	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/12/22 17:34	08/19/22 04:59	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/12/22 17:34	08/19/22 04:59	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/12/22 17:34	08/19/22 04:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	08/12/22 17:34	08/19/22 04:59	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-7

Lab Sample ID: 880-18031-7

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100		70 - 130	08/12/22 17:34	08/19/22 04:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			08/15/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	699		50.0		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/12/22 09:14	08/13/22 00:44	1
Diesel Range Organics (Over C10-C28)	623		50.0		mg/Kg		08/12/22 09:14	08/13/22 00:44	1
Oil Range Organics (Over C28-C36)	75.9		50.0		mg/Kg		08/12/22 09:14	08/13/22 00:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				08/12/22 09:14	08/13/22 00:44	1
o-Terphenyl	76		70 - 130				08/12/22 09:14	08/13/22 00:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04		mg/Kg			08/16/22 08:04	1

Client Sample ID: SC-8

Lab Sample ID: 880-18031-8

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/12/22 17:34	08/19/22 04:39	1
Toluene	0.00379		0.00200		mg/Kg		08/12/22 17:34	08/19/22 04:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/12/22 17:34	08/19/22 04:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/12/22 17:34	08/19/22 04:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/12/22 17:34	08/19/22 04:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/12/22 17:34	08/19/22 04:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				08/12/22 17:34	08/19/22 04:39	1
1,4-Difluorobenzene (Surr)	100		70 - 130				08/12/22 17:34	08/19/22 04:39	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/15/22 11:29	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-8

Lab Sample ID: 880-18031-8

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/12/22 09:14	08/13/22 01:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/12/22 09:14	08/13/22 01:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/12/22 09:14	08/13/22 01:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				08/12/22 09:14	08/13/22 01:06	1
o-Terphenyl	87		70 - 130				08/12/22 09:14	08/13/22 01:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.02	U	5.02		mg/Kg			08/16/22 08:12	1

Client Sample ID: SC-9

Lab Sample ID: 880-18031-9

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/12/22 17:34	08/19/22 04:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/12/22 17:34	08/19/22 04:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/12/22 17:34	08/19/22 04:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/12/22 17:34	08/19/22 04:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/12/22 17:34	08/19/22 04:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/12/22 17:34	08/19/22 04:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				08/12/22 17:34	08/19/22 04:18	1
1,4-Difluorobenzene (Surr)	102		70 - 130				08/12/22 17:34	08/19/22 04:18	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/15/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	738		49.9		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/12/22 09:14	08/13/22 01:27	1
Diesel Range Organics (Over C10-C28)	649		49.9		mg/Kg		08/12/22 09:14	08/13/22 01:27	1
Oil Range Organics (Over C28-C36)	88.6		49.9		mg/Kg		08/12/22 09:14	08/13/22 01:27	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-9

Lab Sample ID: 880-18031-9

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	08/12/22 09:14	08/13/22 01:27	1
o-Terphenyl	73		70 - 130	08/12/22 09:14	08/13/22 01:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.0700		0.0503		mg/Kg			08/16/22 08:20	1

Client Sample ID: SC-10

Lab Sample ID: 880-18031-10

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 19:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 19:05	1
Ethylbenzene	0.00311		0.00200		mg/Kg		08/18/22 12:46	08/18/22 19:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/18/22 12:46	08/18/22 19:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 19:05	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/18/22 12:46	08/18/22 19:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	08/18/22 12:46	08/18/22 19:05	1
1,4-Difluorobenzene (Surr)	103		70 - 130	08/18/22 12:46	08/18/22 19:05	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/15/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	339		50.0		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/12/22 09:14	08/13/22 01:49	1
Diesel Range Organics (Over C10-C28)	339		50.0		mg/Kg		08/12/22 09:14	08/13/22 01:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/12/22 09:14	08/13/22 01:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	08/12/22 09:14	08/13/22 01:49	1
o-Terphenyl	76		70 - 130	08/12/22 09:14	08/13/22 01:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.66		4.98		mg/Kg			08/16/22 08:27	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-11

Lab Sample ID: 880-18031-11

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/12/22 17:13	08/19/22 00:03	1
Toluene	0.0406		0.00201		mg/Kg		08/12/22 17:13	08/19/22 00:03	1
Ethylbenzene	0.00949		0.00201		mg/Kg		08/12/22 17:13	08/19/22 00:03	1
m-Xylene & p-Xylene	0.0534		0.00402		mg/Kg		08/12/22 17:13	08/19/22 00:03	1
o-Xylene	0.0264	B	0.00201		mg/Kg		08/12/22 17:13	08/19/22 00:03	1
Xylenes, Total	0.0798		0.00402		mg/Kg		08/12/22 17:13	08/19/22 00:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	08/12/22 17:13	08/19/22 00:03	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/12/22 17:13	08/19/22 00:03	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.130		0.00402		mg/Kg			08/15/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1190		49.9		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	222		49.9		mg/Kg		08/12/22 09:14	08/13/22 02:32	1
Diesel Range Organics (Over C10-C28)	862		49.9		mg/Kg		08/12/22 09:14	08/13/22 02:32	1
Oil Range Organics (Over C28-C36)	110		49.9		mg/Kg		08/12/22 09:14	08/13/22 02:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	08/12/22 09:14	08/13/22 02:32	1
o-Terphenyl	96		70 - 130	08/12/22 09:14	08/13/22 02:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99		mg/Kg			08/16/22 08:35	1

Client Sample ID: SC-12

Lab Sample ID: 880-18031-12

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 17:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 17:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 17:02	1
m-Xylene & p-Xylene	0.00746		0.00400		mg/Kg		08/18/22 12:46	08/18/22 17:02	1
o-Xylene	0.00269		0.00200		mg/Kg		08/18/22 12:46	08/18/22 17:02	1
Xylenes, Total	0.0102		0.00400		mg/Kg		08/18/22 12:46	08/18/22 17:02	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-12

Lab Sample ID: 880-18031-12

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				08/18/22 12:46	08/18/22 17:02	1
1,4-Difluorobenzene (Surr)	100		70 - 130				08/18/22 12:46	08/18/22 17:02	1
Method: Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0102		0.00400		mg/Kg			08/15/22 11:29	1
Method: 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1780		50.0		mg/Kg			08/15/22 10:31	1
Method: 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/12/22 09:14	08/13/22 02:54	1
Diesel Range Organics (Over C10-C28)	1560		50.0		mg/Kg		08/12/22 09:14	08/13/22 02:54	1
Oil Range Organics (Over C28-C36)	220		50.0		mg/Kg		08/12/22 09:14	08/13/22 02:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				08/12/22 09:14	08/13/22 02:54	1
o-Terphenyl	78		70 - 130				08/12/22 09:14	08/13/22 02:54	1
Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.03		5.03		mg/Kg			08/16/22 08:59	1

Client Sample ID: SC-13

Lab Sample ID: 880-18031-13

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 17:22	1
Toluene	0.116		0.00200		mg/Kg		08/18/22 12:46	08/18/22 17:22	1
Ethylbenzene	0.104		0.00200		mg/Kg		08/18/22 12:46	08/18/22 17:22	1
m-Xylene & p-Xylene	0.341		0.00400		mg/Kg		08/18/22 12:46	08/18/22 17:22	1
o-Xylene	0.138		0.00200		mg/Kg		08/18/22 12:46	08/18/22 17:22	1
Xylenes, Total	0.479		0.00400		mg/Kg		08/18/22 12:46	08/18/22 17:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				08/18/22 12:46	08/18/22 17:22	1
1,4-Difluorobenzene (Surr)	100		70 - 130				08/18/22 12:46	08/18/22 17:22	1
Method: Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.699		0.00400		mg/Kg			08/15/22 11:29	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-13

Lab Sample ID: 880-18031-13

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1800		49.9		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	394		49.9		mg/Kg		08/12/22 09:14	08/13/22 03:15	1
Diesel Range Organics (Over C10-C28)	1250		49.9		mg/Kg		08/12/22 09:14	08/13/22 03:15	1
Oil Range Organics (Over C28-C36)	152		49.9		mg/Kg		08/12/22 09:14	08/13/22 03:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130				08/12/22 09:14	08/13/22 03:15	1
o-Terphenyl	84		70 - 130				08/12/22 09:14	08/13/22 03:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.74		5.04		mg/Kg			08/16/22 09:07	1

Client Sample ID: SC-14

Lab Sample ID: 880-18031-14

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 17:43	1
Toluene	0.0921		0.00200		mg/Kg		08/18/22 12:46	08/18/22 17:43	1
Ethylbenzene	0.106		0.00200		mg/Kg		08/18/22 12:46	08/18/22 17:43	1
m-Xylene & p-Xylene	0.275		0.00400		mg/Kg		08/18/22 12:46	08/18/22 17:43	1
o-Xylene	0.103		0.00200		mg/Kg		08/18/22 12:46	08/18/22 17:43	1
Xylenes, Total	0.378		0.00400		mg/Kg		08/18/22 12:46	08/18/22 17:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				08/18/22 12:46	08/18/22 17:43	1
1,4-Difluorobenzene (Surr)	81		70 - 130				08/18/22 12:46	08/18/22 17:43	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.576		0.00400		mg/Kg			08/15/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3460		50.0		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	142		50.0		mg/Kg		08/12/22 09:14	08/13/22 03:37	1
Diesel Range Organics (Over C10-C28)	2950		50.0		mg/Kg		08/12/22 09:14	08/13/22 03:37	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-14

Lab Sample ID: 880-18031-14

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	369		50.0		mg/Kg		08/12/22 09:14	08/13/22 03:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				08/12/22 09:14	08/13/22 03:37	1
o-Terphenyl	83		70 - 130				08/12/22 09:14	08/13/22 03:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.8		5.05		mg/Kg			08/16/22 09:30	1

Client Sample ID: SC-15

Lab Sample ID: 880-18031-15

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 18:03	1
Toluene	0.0264		0.00200		mg/Kg		08/18/22 12:46	08/18/22 18:03	1
Ethylbenzene	0.0750		0.00200		mg/Kg		08/18/22 12:46	08/18/22 18:03	1
m-Xylene & p-Xylene	0.230		0.00400		mg/Kg		08/18/22 12:46	08/18/22 18:03	1
o-Xylene	0.0764		0.00200		mg/Kg		08/18/22 12:46	08/18/22 18:03	1
Xylenes, Total	0.306		0.00400		mg/Kg		08/18/22 12:46	08/18/22 18:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	193	S1+	70 - 130				08/18/22 12:46	08/18/22 18:03	1
4-Bromofluorobenzene (Surr)	107		70 - 130				08/19/22 13:53	08/19/22 15:55	1
1,4-Difluorobenzene (Surr)	9	S1-	70 - 130				08/18/22 12:46	08/18/22 18:03	1
1,4-Difluorobenzene (Surr)	90		70 - 130				08/19/22 13:53	08/19/22 15:55	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.408		0.00400		mg/Kg			08/15/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	165		49.9		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/12/22 09:14	08/13/22 03:58	1
Diesel Range Organics (Over C10-C28)	165		49.9		mg/Kg		08/12/22 09:14	08/13/22 03:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/12/22 09:14	08/13/22 03:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				08/12/22 09:14	08/13/22 03:58	1
o-Terphenyl	78		70 - 130				08/12/22 09:14	08/13/22 03:58	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-15

Lab Sample ID: 880-18031-15

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.98		5.01		mg/Kg			08/16/22 09:38	1

Client Sample ID: SC-16

Lab Sample ID: 880-18031-16

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 18:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 18:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 18:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/18/22 12:46	08/18/22 18:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 18:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/18/22 12:46	08/18/22 18:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				08/18/22 12:46	08/18/22 18:24	1
1,4-Difluorobenzene (Surr)	103		70 - 130				08/18/22 12:46	08/18/22 18:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/15/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	16600		250		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1730		250		mg/Kg		08/12/22 09:14	08/13/22 09:08	5
Diesel Range Organics (Over C10-C28)	12900		250		mg/Kg		08/12/22 09:14	08/13/22 09:08	5
Oil Range Organics (Over C28-C36)	1970		250		mg/Kg		08/12/22 09:14	08/13/22 09:08	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	156	S1+	70 - 130				08/12/22 09:14	08/13/22 09:08	5
o-Terphenyl	121		70 - 130				08/12/22 09:14	08/13/22 09:08	5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.28		4.98		mg/Kg			08/16/22 09:46	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-17

Lab Sample ID: 880-18031-17

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00584		0.00200		mg/Kg		08/18/22 12:46	08/18/22 18:44	1
Toluene	0.0418		0.00200		mg/Kg		08/18/22 12:46	08/18/22 18:44	1
Ethylbenzene	0.0269		0.00200		mg/Kg		08/18/22 12:46	08/18/22 18:44	1
m-Xylene & p-Xylene	0.0860		0.00400		mg/Kg		08/18/22 12:46	08/18/22 18:44	1
o-Xylene	0.0283		0.00200		mg/Kg		08/18/22 12:46	08/18/22 18:44	1
Xylenes, Total	0.114		0.00400		mg/Kg		08/18/22 12:46	08/18/22 18:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	17	S1-	70 - 130	08/18/22 12:46	08/18/22 18:44	1
1,4-Difluorobenzene (Surr)	15	S1-	70 - 130	08/18/22 12:46	08/18/22 18:44	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.189		0.00400		mg/Kg			08/15/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	366		49.9		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/12/22 09:14	08/13/22 04:41	1
Diesel Range Organics (Over C10-C28)	287		49.9		mg/Kg		08/12/22 09:14	08/13/22 04:41	1
Oil Range Organics (Over C28-C36)	78.9		49.9		mg/Kg		08/12/22 09:14	08/13/22 04:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	08/12/22 09:14	08/13/22 04:41	1
o-Terphenyl	106		70 - 130	08/12/22 09:14	08/13/22 04:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.1		4.99		mg/Kg			08/16/22 09:54	1

Client Sample ID: SC-18

Lab Sample ID: 880-18031-18

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0843		0.0501		mg/Kg		08/12/22 13:14	08/19/22 11:15	25
Toluene	<0.0501	U	0.0501		mg/Kg		08/12/22 13:14	08/19/22 11:15	25
Ethylbenzene	0.130		0.0501		mg/Kg		08/12/22 13:14	08/19/22 11:15	25
m-Xylene & p-Xylene	0.345		0.100		mg/Kg		08/12/22 13:14	08/19/22 11:15	25
o-Xylene	0.150		0.0501		mg/Kg		08/12/22 13:14	08/19/22 11:15	25
Xylenes, Total	0.495		0.100		mg/Kg		08/12/22 13:14	08/19/22 11:15	25

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-18

Lab Sample ID: 880-18031-18

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				08/12/22 13:14	08/19/22 11:15	25
1,4-Difluorobenzene (Surr)	81		70 - 130				08/12/22 13:14	08/19/22 11:15	25
Method: Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.709		0.100		mg/Kg			08/15/22 11:29	1
Method: 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2060		49.9		mg/Kg			08/15/22 10:31	1
Method: 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	54.9		49.9		mg/Kg		08/12/22 09:14	08/13/22 05:03	1
Diesel Range Organics (Over C10-C28)	1770		49.9		mg/Kg		08/12/22 09:14	08/13/22 05:03	1
Oil Range Organics (Over C28-C36)	236		49.9		mg/Kg		08/12/22 09:14	08/13/22 05:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130				08/12/22 09:14	08/13/22 05:03	1
o-Terphenyl	101		70 - 130				08/12/22 09:14	08/13/22 05:03	1
Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.55		5.00		mg/Kg			08/16/22 10:02	1

Client Sample ID: SC-19

Lab Sample ID: 880-18031-19

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 21:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 21:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 21:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/18/22 12:46	08/18/22 21:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 21:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/18/22 12:46	08/18/22 21:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				08/18/22 12:46	08/18/22 21:16	1
1,4-Difluorobenzene (Surr)	100		70 - 130				08/18/22 12:46	08/18/22 21:16	1
Method: Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/15/22 11:29	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-19

Lab Sample ID: 880-18031-19

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	127		50.0		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/12/22 09:14	08/13/22 05:24	1
Diesel Range Organics (Over C10-C28)	62.2		50.0		mg/Kg		08/12/22 09:14	08/13/22 05:24	1
Oil Range Organics (Over C28-C36)	64.4		50.0		mg/Kg		08/12/22 09:14	08/13/22 05:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				08/12/22 09:14	08/13/22 05:24	1
o-Terphenyl	100		70 - 130				08/12/22 09:14	08/13/22 05:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.40		5.01		mg/Kg			08/16/22 10:10	1

Client Sample ID: SC-20

Lab Sample ID: 880-18031-20

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 21:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 21:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 21:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/18/22 12:46	08/18/22 21:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 21:36	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/18/22 12:46	08/18/22 21:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				08/18/22 12:46	08/18/22 21:36	1
1,4-Difluorobenzene (Surr)	102		70 - 130				08/18/22 12:46	08/18/22 21:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/15/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	54.1		49.8		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/12/22 09:14	08/13/22 05:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/12/22 09:14	08/13/22 05:46	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-20

Lab Sample ID: 880-18031-20

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	54.1		49.8		mg/Kg		08/12/22 09:14	08/13/22 05:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				08/12/22 09:14	08/13/22 05:46	1
o-Terphenyl	101		70 - 130				08/12/22 09:14	08/13/22 05:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.8		5.02		mg/Kg			08/16/22 10:17	1

Client Sample ID: SC-21

Lab Sample ID: 880-18031-21

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 17:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 17:10	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		08/18/22 14:24	08/18/22 17:10	1
m-Xylene & p-Xylene	<0.00400	U F1	0.00400		mg/Kg		08/18/22 14:24	08/18/22 17:10	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		08/18/22 14:24	08/18/22 17:10	1
Xylenes, Total	<0.00400	U F1	0.00400		mg/Kg		08/18/22 14:24	08/18/22 17:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				08/18/22 14:24	08/18/22 17:10	1
1,4-Difluorobenzene (Surr)	98		70 - 130				08/18/22 14:24	08/18/22 17:10	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/15/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	685		49.9		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/12/22 10:16	08/12/22 11:48	1
Diesel Range Organics (Over C10-C28)	602	F1	49.9		mg/Kg		08/12/22 10:16	08/12/22 11:48	1
Oil Range Organics (Over C28-C36)	83.3		49.9		mg/Kg		08/12/22 10:16	08/12/22 11:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				08/12/22 10:16	08/12/22 11:48	1
o-Terphenyl	106		70 - 130				08/12/22 10:16	08/12/22 11:48	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-21

Lab Sample ID: 880-18031-21

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.6		5.04		mg/Kg			08/16/22 14:01	1

Client Sample ID: SC-22

Lab Sample ID: 880-18031-22

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 21:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 21:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 21:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/18/22 12:46	08/18/22 21:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 21:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/18/22 12:46	08/18/22 21:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				08/18/22 12:46	08/18/22 21:56	1
1,4-Difluorobenzene (Surr)	107		70 - 130				08/18/22 12:46	08/18/22 21:56	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/15/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	103		49.9		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/12/22 10:16	08/12/22 12:53	1
Diesel Range Organics (Over C10-C28)	103		49.9		mg/Kg		08/12/22 10:16	08/12/22 12:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/12/22 10:16	08/12/22 12:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				08/12/22 10:16	08/12/22 12:53	1
o-Terphenyl	68	S1-	70 - 130				08/12/22 10:16	08/12/22 12:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57.0		4.98		mg/Kg			08/16/22 14:25	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-23

Lab Sample ID: 880-18031-23

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 22:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 22:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 22:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/18/22 12:46	08/18/22 22:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 22:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/18/22 12:46	08/18/22 22:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	08/18/22 12:46	08/18/22 22:17	1
1,4-Difluorobenzene (Surr)	103		70 - 130	08/18/22 12:46	08/18/22 22:17	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/15/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/12/22 10:16	08/12/22 13:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/12/22 10:16	08/12/22 13:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/12/22 10:16	08/12/22 13:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	08/12/22 10:16	08/12/22 13:14	1
o-Terphenyl	91		70 - 130	08/12/22 10:16	08/12/22 13:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.9		4.97		mg/Kg			08/16/22 14:32	1

Client Sample ID: SC-24

Lab Sample ID: 880-18031-24

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 22:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 22:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 22:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/18/22 12:46	08/18/22 22:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 22:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/18/22 12:46	08/18/22 22:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	08/18/22 12:46	08/18/22 22:37	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-24

Lab Sample ID: 880-18031-24

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102		70 - 130	08/18/22 12:46	08/18/22 22:37	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/15/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/12/22 10:16	08/12/22 13:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/12/22 10:16	08/12/22 13:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/12/22 10:16	08/12/22 13:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				08/12/22 10:16	08/12/22 13:36	1
o-Terphenyl	101		70 - 130				08/12/22 10:16	08/12/22 13:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.60		5.00		mg/Kg			08/16/22 14:40	1

Client Sample ID: SC-25

Lab Sample ID: 880-18031-25

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 22:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 22:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 22:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/18/22 12:46	08/18/22 22:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 22:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/18/22 12:46	08/18/22 22:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	08/18/22 12:46	08/18/22 22:58	1
1,4-Difluorobenzene (Surr)	99		70 - 130	08/18/22 12:46	08/18/22 22:58	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/15/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/15/22 10:31	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-25

Lab Sample ID: 880-18031-25

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/12/22 10:16	08/12/22 13:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/12/22 10:16	08/12/22 13:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/12/22 10:16	08/12/22 13:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				08/12/22 10:16	08/12/22 13:57	1
o-Terphenyl	97		70 - 130				08/12/22 10:16	08/12/22 13:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.9		5.00		mg/Kg			08/16/22 14:48	1

Client Sample ID: SC-26

Lab Sample ID: 880-18031-26

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/18/22 12:46	08/18/22 23:18	1
Toluene	0.0881		0.00201		mg/Kg		08/18/22 12:46	08/18/22 23:18	1
Ethylbenzene	0.105		0.00201		mg/Kg		08/18/22 12:46	08/18/22 23:18	1
m-Xylene & p-Xylene	0.297		0.00402		mg/Kg		08/18/22 12:46	08/18/22 23:18	1
o-Xylene	0.100		0.00201		mg/Kg		08/18/22 12:46	08/18/22 23:18	1
Xylenes, Total	0.397		0.00402		mg/Kg		08/18/22 12:46	08/18/22 23:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130				08/18/22 12:46	08/18/22 23:18	1
1,4-Difluorobenzene (Surr)	129		70 - 130				08/18/22 12:46	08/18/22 23:18	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.590		0.00402		mg/Kg			08/15/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2230		50.0		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	486		50.0		mg/Kg		08/12/22 10:16	08/12/22 14:19	1
Diesel Range Organics (Over C10-C28)	1520		50.0		mg/Kg		08/12/22 10:16	08/12/22 14:19	1
Oil Range Organics (Over C28-C36)	221		50.0		mg/Kg		08/12/22 10:16	08/12/22 14:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				08/12/22 10:16	08/12/22 14:19	1
o-Terphenyl	81		70 - 130				08/12/22 10:16	08/12/22 14:19	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-26

Lab Sample ID: 880-18031-26

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.28		4.99		mg/Kg			08/16/22 15:12	1

Client Sample ID: SC-27

Lab Sample ID: 880-18031-27

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00330		0.00200		mg/Kg		08/18/22 12:46	08/18/22 23:39	1
Toluene	0.0911		0.00200		mg/Kg		08/18/22 12:46	08/18/22 23:39	1
Ethylbenzene	0.0728		0.00200		mg/Kg		08/18/22 12:46	08/18/22 23:39	1
m-Xylene & p-Xylene	0.183		0.00400		mg/Kg		08/18/22 12:46	08/18/22 23:39	1
o-Xylene	0.0675		0.00200		mg/Kg		08/18/22 12:46	08/18/22 23:39	1
Xylenes, Total	0.251		0.00400		mg/Kg		08/18/22 12:46	08/18/22 23:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				08/18/22 12:46	08/18/22 23:39	1
1,4-Difluorobenzene (Surr)	89		70 - 130				08/18/22 12:46	08/18/22 23:39	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.418		0.00400		mg/Kg			08/15/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2120		50.0		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	490		50.0		mg/Kg		08/12/22 10:16	08/12/22 14:40	1
Diesel Range Organics (Over C10-C28)	1440		50.0		mg/Kg		08/12/22 10:16	08/12/22 14:40	1
Oil Range Organics (Over C28-C36)	191		50.0		mg/Kg		08/12/22 10:16	08/12/22 14:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				08/12/22 10:16	08/12/22 14:40	1
o-Terphenyl	88		70 - 130				08/12/22 10:16	08/12/22 14:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98		mg/Kg			08/16/22 15:20	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-28

Lab Sample ID: 880-18031-28

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.400	U	0.400		mg/Kg		08/19/22 13:53	08/19/22 16:36	200
Toluene	20.4		0.400		mg/Kg		08/19/22 13:53	08/19/22 16:36	200
Ethylbenzene	12.4		0.400		mg/Kg		08/19/22 13:53	08/19/22 16:36	200
m-Xylene & p-Xylene	40.5		0.800		mg/Kg		08/19/22 13:53	08/19/22 16:36	200
o-Xylene	14.0		0.400		mg/Kg		08/19/22 13:53	08/19/22 16:36	200
Xylenes, Total	54.5		0.800		mg/Kg		08/19/22 13:53	08/19/22 16:36	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	08/19/22 13:53	08/19/22 16:36	200
1,4-Difluorobenzene (Surr)	110		70 - 130	08/19/22 13:53	08/19/22 16:36	200

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	87.3		0.800		mg/Kg			08/15/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	5660		50.0		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1530		50.0		mg/Kg		08/12/22 10:16	08/12/22 15:02	1
Diesel Range Organics (Over C10-C28)	3610		50.0		mg/Kg		08/12/22 10:16	08/12/22 15:02	1
Oil Range Organics (Over C28-C36)	522		50.0		mg/Kg		08/12/22 10:16	08/12/22 15:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130	08/12/22 10:16	08/12/22 15:02	1
o-Terphenyl	84		70 - 130	08/12/22 10:16	08/12/22 15:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.64		4.99		mg/Kg			08/16/22 15:27	1

Client Sample ID: SC-29

Lab Sample ID: 880-18031-29

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.119		0.0994		mg/Kg		08/12/22 13:14	08/19/22 11:56	50
Toluene	5.97		0.0994		mg/Kg		08/12/22 13:14	08/19/22 11:56	50
Ethylbenzene	6.16		0.0994		mg/Kg		08/12/22 13:14	08/19/22 11:56	50
m-Xylene & p-Xylene	20.0		0.199		mg/Kg		08/12/22 13:14	08/19/22 11:56	50
o-Xylene	7.43		0.0994		mg/Kg		08/12/22 13:14	08/19/22 11:56	50
Xylenes, Total	27.4		0.199		mg/Kg		08/12/22 13:14	08/19/22 11:56	50

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-29

Lab Sample ID: 880-18031-29

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				08/12/22 13:14	08/19/22 11:56	50
1,4-Difluorobenzene (Surr)	104		70 - 130				08/12/22 13:14	08/19/22 11:56	50
Method: Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	39.7		0.199		mg/Kg			08/15/22 11:29	1
Method: 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	7160		50.0		mg/Kg			08/15/22 10:31	1
Method: 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1650		50.0		mg/Kg		08/12/22 10:16	08/12/22 15:45	1
Diesel Range Organics (Over C10-C28)	4900		50.0		mg/Kg		08/12/22 10:16	08/12/22 15:45	1
Oil Range Organics (Over C28-C36)	607		50.0		mg/Kg		08/12/22 10:16	08/12/22 15:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	194	S1+	70 - 130				08/12/22 10:16	08/12/22 15:45	1
o-Terphenyl	91		70 - 130				08/12/22 10:16	08/12/22 15:45	1
Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.01	U	5.01		mg/Kg			08/16/22 15:35	1

Client Sample ID: SC-30

Lab Sample ID: 880-18031-30

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/19/22 00:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/19/22 00:24	1
Ethylbenzene	0.00300		0.00200		mg/Kg		08/18/22 14:24	08/19/22 00:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/18/22 14:24	08/19/22 00:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/19/22 00:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/18/22 14:24	08/19/22 00:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				08/18/22 14:24	08/19/22 00:24	1
1,4-Difluorobenzene (Surr)	0.4	S1-	70 - 130				08/18/22 14:24	08/19/22 00:24	1
Method: Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/15/22 11:29	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-30

Lab Sample ID: 880-18031-30

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	457		50.0		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/12/22 10:16	08/12/22 16:06	1
Diesel Range Organics (Over C10-C28)	314		50.0		mg/Kg		08/12/22 10:16	08/12/22 16:06	1
Oil Range Organics (Over C28-C36)	143		50.0		mg/Kg		08/12/22 10:16	08/12/22 16:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				08/12/22 10:16	08/12/22 16:06	1
o-Terphenyl	86		70 - 130				08/12/22 10:16	08/12/22 16:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.9		5.00		mg/Kg			08/16/22 15:43	1

Client Sample ID: SC-31

Lab Sample ID: 880-18031-31

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 19:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 19:34	1
Ethylbenzene	0.00284		0.00200		mg/Kg		08/18/22 14:24	08/18/22 19:34	1
m-Xylene & p-Xylene	0.0117		0.00400		mg/Kg		08/18/22 14:24	08/18/22 19:34	1
o-Xylene	0.00322	B	0.00200		mg/Kg		08/18/22 14:24	08/18/22 19:34	1
Xylenes, Total	0.0149		0.00400		mg/Kg		08/18/22 14:24	08/18/22 19:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				08/18/22 14:24	08/18/22 19:34	1
1,4-Difluorobenzene (Surr)	95		70 - 130				08/18/22 14:24	08/18/22 19:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0178		0.00400		mg/Kg			08/15/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1490		49.8		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/12/22 10:16	08/12/22 16:50	1
Diesel Range Organics (Over C10-C28)	1310		49.8		mg/Kg		08/12/22 10:16	08/12/22 16:50	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-31

Lab Sample ID: 880-18031-31

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	176		49.8		mg/Kg		08/12/22 10:16	08/12/22 16:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				08/12/22 10:16	08/12/22 16:50	1
o-Terphenyl	89		70 - 130				08/12/22 10:16	08/12/22 16:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.5		5.01		mg/Kg			08/16/22 15:51	1

Client Sample ID: SC-32

Lab Sample ID: 880-18031-32

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 19:14	1
Toluene	0.00215		0.00200		mg/Kg		08/18/22 14:24	08/18/22 19:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 19:14	1
m-Xylene & p-Xylene	0.00429		0.00400		mg/Kg		08/18/22 14:24	08/18/22 19:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 19:14	1
Xylenes, Total	0.00429		0.00400		mg/Kg		08/18/22 14:24	08/18/22 19:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				08/18/22 14:24	08/18/22 19:14	1
1,4-Difluorobenzene (Surr)	93		70 - 130				08/18/22 14:24	08/18/22 19:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00644		0.00400		mg/Kg			08/15/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1140		49.9		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/12/22 10:16	08/12/22 17:12	1
Diesel Range Organics (Over C10-C28)	999		49.9		mg/Kg		08/12/22 10:16	08/12/22 17:12	1
Oil Range Organics (Over C28-C36)	139		49.9		mg/Kg		08/12/22 10:16	08/12/22 17:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130				08/12/22 10:16	08/12/22 17:12	1
o-Terphenyl	112		70 - 130				08/12/22 10:16	08/12/22 17:12	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-32

Lab Sample ID: 880-18031-32

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.5		5.00		mg/Kg			08/16/22 17:41	1

Client Sample ID: SC-33

Lab Sample ID: 880-18031-33

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 18:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 18:53	1
Ethylbenzene	0.00607		0.00200		mg/Kg		08/18/22 14:24	08/18/22 18:53	1
m-Xylene & p-Xylene	0.0199		0.00400		mg/Kg		08/18/22 14:24	08/18/22 18:53	1
o-Xylene	0.00891	B	0.00200		mg/Kg		08/18/22 14:24	08/18/22 18:53	1
Xylenes, Total	0.0288		0.00400		mg/Kg		08/18/22 14:24	08/18/22 18:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				08/18/22 14:24	08/18/22 18:53	1
1,4-Difluorobenzene (Surr)	98		70 - 130				08/18/22 14:24	08/18/22 18:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0349		0.00400		mg/Kg			08/15/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1550		50.0		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	53.6		50.0		mg/Kg		08/12/22 10:16	08/12/22 17:33	1
Diesel Range Organics (Over C10-C28)	1330		50.0		mg/Kg		08/12/22 10:16	08/12/22 17:33	1
Oil Range Organics (Over C28-C36)	162		50.0		mg/Kg		08/12/22 10:16	08/12/22 17:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				08/12/22 10:16	08/12/22 17:33	1
o-Terphenyl	85		70 - 130				08/12/22 10:16	08/12/22 17:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.1		5.02		mg/Kg			08/16/22 17:49	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-34

Lab Sample ID: 880-18031-34

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 18:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 18:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 18:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/18/22 14:24	08/18/22 18:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 18:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/18/22 14:24	08/18/22 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	08/18/22 14:24	08/18/22 18:32	1
1,4-Difluorobenzene (Surr)	103		70 - 130	08/18/22 14:24	08/18/22 18:32	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/15/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	445		50.0		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/12/22 10:16	08/12/22 17:55	1
Diesel Range Organics (Over C10-C28)	385		50.0		mg/Kg		08/12/22 10:16	08/12/22 17:55	1
Oil Range Organics (Over C28-C36)	60.3		50.0		mg/Kg		08/12/22 10:16	08/12/22 17:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	08/12/22 10:16	08/12/22 17:55	1
o-Terphenyl	96		70 - 130	08/12/22 10:16	08/12/22 17:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	233		4.97		mg/Kg			08/17/22 12:49	1

Client Sample ID: SC-35

Lab Sample ID: 880-18031-35

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 19:55	1
Toluene	0.00226		0.00200		mg/Kg		08/18/22 14:24	08/18/22 19:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 19:55	1
m-Xylene & p-Xylene	0.00946		0.00400		mg/Kg		08/18/22 14:24	08/18/22 19:55	1
o-Xylene	0.00520	B	0.00200		mg/Kg		08/18/22 14:24	08/18/22 19:55	1
Xylenes, Total	0.0147		0.00400		mg/Kg		08/18/22 14:24	08/18/22 19:55	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-35

Lab Sample ID: 880-18031-35

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	08/18/22 14:24	08/18/22 19:55	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/18/22 14:24	08/18/22 19:55	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0169		0.00400		mg/Kg			08/15/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	150		49.9		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/12/22 10:16	08/12/22 18:16	1
Diesel Range Organics (Over C10-C28)	89.3		49.9		mg/Kg		08/12/22 10:16	08/12/22 18:16	1
Oil Range Organics (Over C28-C36)	60.6		49.9		mg/Kg		08/12/22 10:16	08/12/22 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	08/12/22 10:16	08/12/22 18:16	1
o-Terphenyl	76		70 - 130	08/12/22 10:16	08/12/22 18:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	248		4.98		mg/Kg			08/16/22 16:54	1

Client Sample ID: SC-36

Lab Sample ID: 880-18031-36

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00293		0.00200		mg/Kg		08/18/22 14:24	08/19/22 00:44	1
Toluene	0.129		0.00200		mg/Kg		08/18/22 14:24	08/19/22 00:44	1
Ethylbenzene	0.151		0.00200		mg/Kg		08/18/22 14:24	08/19/22 00:44	1
m-Xylene & p-Xylene	0.582		0.00400		mg/Kg		08/18/22 14:24	08/19/22 00:44	1
o-Xylene	0.00562	B	0.00200		mg/Kg		08/18/22 14:24	08/19/22 00:44	1
Xylenes, Total	0.588		0.00400		mg/Kg		08/18/22 14:24	08/19/22 00:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	347	S1+	70 - 130	08/18/22 14:24	08/19/22 00:44	1
1,4-Difluorobenzene (Surr)	6	S1-	70 - 130	08/18/22 14:24	08/19/22 00:44	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.871		0.00400		mg/Kg			08/15/22 11:29	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-36

Lab Sample ID: 880-18031-36

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	5500		50.0		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	643		50.0		mg/Kg		08/12/22 10:16	08/12/22 18:37	1
Diesel Range Organics (Over C10-C28)	4220		50.0		mg/Kg		08/12/22 10:16	08/12/22 18:37	1
Oil Range Organics (Over C28-C36)	632		50.0		mg/Kg		08/12/22 10:16	08/12/22 18:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130				08/12/22 10:16	08/12/22 18:37	1
o-Terphenyl	80		70 - 130				08/12/22 10:16	08/12/22 18:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.92		4.99		mg/Kg			08/16/22 17:02	1

Client Sample ID: SW-1

Lab Sample ID: 880-18031-37

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 21:39	1
Toluene	0.00206		0.00200		mg/Kg		08/18/22 14:24	08/18/22 21:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 21:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/18/22 14:24	08/18/22 21:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 21:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/18/22 14:24	08/18/22 21:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				08/18/22 14:24	08/18/22 21:39	1
1,4-Difluorobenzene (Surr)	98		70 - 130				08/18/22 14:24	08/18/22 21:39	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/15/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	172		49.9		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/12/22 10:16	08/12/22 18:59	1
Diesel Range Organics (Over C10-C28)	66.0		49.9		mg/Kg		08/12/22 10:16	08/12/22 18:59	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SW-1

Lab Sample ID: 880-18031-37

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	106		49.9		mg/Kg		08/12/22 10:16	08/12/22 18:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				08/12/22 10:16	08/12/22 18:59	1
o-Terphenyl	85		70 - 130				08/12/22 10:16	08/12/22 18:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.2		4.99		mg/Kg			08/16/22 17:10	1

Client Sample ID: SW-2

Lab Sample ID: 880-18031-38

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 21:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 21:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 21:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/18/22 14:24	08/18/22 21:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 21:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/18/22 14:24	08/18/22 21:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				08/18/22 14:24	08/18/22 21:59	1
1,4-Difluorobenzene (Surr)	98		70 - 130				08/18/22 14:24	08/18/22 21:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/15/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	649		49.9		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/12/22 10:16	08/12/22 19:21	1
Diesel Range Organics (Over C10-C28)	586		49.9		mg/Kg		08/12/22 10:16	08/12/22 19:21	1
Oil Range Organics (Over C28-C36)	62.8		49.9		mg/Kg		08/12/22 10:16	08/12/22 19:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				08/12/22 10:16	08/12/22 19:21	1
o-Terphenyl	75		70 - 130				08/12/22 10:16	08/12/22 19:21	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SW-2

Lab Sample ID: 880-18031-38

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.32		5.00		mg/Kg			08/17/22 12:57	1

Client Sample ID: SW-3

Lab Sample ID: 880-18031-39

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 22:20	1
Toluene	0.00235		0.00200		mg/Kg		08/18/22 14:24	08/18/22 22:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 22:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/18/22 14:24	08/18/22 22:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 22:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/18/22 14:24	08/18/22 22:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				08/18/22 14:24	08/18/22 22:20	1
1,4-Difluorobenzene (Surr)	96		70 - 130				08/18/22 14:24	08/18/22 22:20	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/15/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	124		50.0		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/12/22 10:16	08/12/22 19:43	1
Diesel Range Organics (Over C10-C28)	58.9		50.0		mg/Kg		08/12/22 10:16	08/12/22 19:43	1
Oil Range Organics (Over C28-C36)	65.5		50.0		mg/Kg		08/12/22 10:16	08/12/22 19:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				08/12/22 10:16	08/12/22 19:43	1
o-Terphenyl	82		70 - 130				08/12/22 10:16	08/12/22 19:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	640		5.02		mg/Kg			08/17/22 13:05	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SW-4

Lab Sample ID: 880-18031-40

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 22:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 22:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 22:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/18/22 14:24	08/18/22 22:41	1
o-Xylene	0.0101	B	0.00200		mg/Kg		08/18/22 14:24	08/18/22 22:41	1
Xylenes, Total	0.0101		0.00400		mg/Kg		08/18/22 14:24	08/18/22 22:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	08/18/22 14:24	08/18/22 22:41	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/18/22 14:24	08/18/22 22:41	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0101		0.00400		mg/Kg			08/15/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	277		49.8		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/12/22 10:16	08/12/22 20:04	1
Diesel Range Organics (Over C10-C28)	277		49.8		mg/Kg		08/12/22 10:16	08/12/22 20:04	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/12/22 10:16	08/12/22 20:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				08/12/22 10:16	08/12/22 20:04	1
o-Terphenyl	84		70 - 130				08/12/22 10:16	08/12/22 20:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.6		5.03		mg/Kg			08/17/22 13:13	1

Client Sample ID: SW-5

Lab Sample ID: 880-18031-41

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 23:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 23:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 23:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/18/22 14:24	08/18/22 23:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 23:01	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/18/22 14:24	08/18/22 23:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	08/18/22 14:24	08/18/22 23:01	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SW-5

Lab Sample ID: 880-18031-41

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130	08/18/22 14:24	08/18/22 23:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/15/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/12/22 08:52	08/12/22 17:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/12/22 08:52	08/12/22 17:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/12/22 08:52	08/12/22 17:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				08/12/22 08:52	08/12/22 17:33	1
o-Terphenyl	95		70 - 130				08/12/22 08:52	08/12/22 17:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.5		5.04		mg/Kg			08/17/22 08:53	1

Client Sample ID: SW-6

Lab Sample ID: 880-18031-42

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 23:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 23:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 23:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/18/22 14:24	08/18/22 23:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 23:22	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/18/22 14:24	08/18/22 23:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	08/18/22 14:24	08/18/22 23:22	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/18/22 14:24	08/18/22 23:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/15/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	86.5		49.9		mg/Kg			08/15/22 10:31	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SW-6

Lab Sample ID: 880-18031-42

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/12/22 08:52	08/12/22 17:55	1
Diesel Range Organics (Over C10-C28)	86.5		49.9		mg/Kg		08/12/22 08:52	08/12/22 17:55	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/12/22 08:52	08/12/22 17:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				08/12/22 08:52	08/12/22 17:55	1
o-Terphenyl	94		70 - 130				08/12/22 08:52	08/12/22 17:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.2		5.01		mg/Kg			08/17/22 12:02	1

Client Sample ID: SW-7

Lab Sample ID: 880-18031-43

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0112		0.00200		mg/Kg		08/18/22 14:24	08/18/22 20:16	1
Toluene	0.122		0.00200		mg/Kg		08/18/22 14:24	08/18/22 20:16	1
Ethylbenzene	0.0571		0.00200		mg/Kg		08/18/22 14:24	08/18/22 20:16	1
m-Xylene & p-Xylene	0.201		0.00400		mg/Kg		08/18/22 14:24	08/18/22 20:16	1
o-Xylene	0.0634	B	0.00200		mg/Kg		08/18/22 14:24	08/18/22 20:16	1
Xylenes, Total	0.264		0.00400		mg/Kg		08/18/22 14:24	08/18/22 20:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	174	S1+	70 - 130				08/18/22 14:24	08/18/22 20:16	1
1,4-Difluorobenzene (Surr)	88		70 - 130				08/18/22 14:24	08/18/22 20:16	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.455		0.00400		mg/Kg			08/15/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	7550		50.0		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	3160		50.0		mg/Kg		08/12/22 08:52	08/12/22 18:16	1
Diesel Range Organics (Over C10-C28)	4390		50.0		mg/Kg		08/12/22 08:52	08/12/22 18:16	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/12/22 08:52	08/12/22 18:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	268	S1+	70 - 130				08/12/22 08:52	08/12/22 18:16	1
o-Terphenyl	123		70 - 130				08/12/22 08:52	08/12/22 18:16	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SW-7

Lab Sample ID: 880-18031-43

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98		mg/Kg			08/17/22 09:09	1

Client Sample ID: SW-8

Lab Sample ID: 880-18031-44

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 08:20

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 23:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 23:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 23:42	1
m-Xylene & p-Xylene	0.00405		0.00400		mg/Kg		08/18/22 14:24	08/18/22 23:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 23:42	1
Xylenes, Total	0.00405		0.00400		mg/Kg		08/18/22 14:24	08/18/22 23:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				08/18/22 14:24	08/18/22 23:42	1
1,4-Difluorobenzene (Surr)	95		70 - 130				08/18/22 14:24	08/18/22 23:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00405		0.00400		mg/Kg			08/15/22 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	195		49.9		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/12/22 08:52	08/12/22 18:37	1
Diesel Range Organics (Over C10-C28)	195		49.9		mg/Kg		08/12/22 08:52	08/12/22 18:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/12/22 08:52	08/12/22 18:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				08/12/22 08:52	08/12/22 18:37	1
o-Terphenyl	92		70 - 130				08/12/22 08:52	08/12/22 18:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.8		4.99		mg/Kg			08/17/22 09:17	1

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-17955-A-8 MS	Matrix Spike	145 S1+	89
880-17955-A-8 MSD	Matrix Spike Duplicate	137 S1+	92
880-18027-A-1-B MS	Matrix Spike	116	98
880-18027-A-1-C MSD	Matrix Spike Duplicate	122	94
880-18031-1	SC-1	122	97
880-18031-2	SC-2	93	100
880-18031-2 MS	SC-2	107	106
880-18031-2 MSD	SC-2	106	102
880-18031-3	SC-3	151 S1+	70
880-18031-4	SC-4	139 S1+	77
880-18031-5	SC-5	156 S1+	85
880-18031-6	SC-6	147 S1+	93
880-18031-7	SC-7	100	100
880-18031-8	SC-8	104	100
880-18031-9	SC-9	102	102
880-18031-10	SC-10	109	103
880-18031-11	SC-11	108	95
880-18031-12	SC-12	85	100
880-18031-13	SC-13	105	100
880-18031-14	SC-14	89	81
880-18031-15	SC-15	193 S1+	9 S1-
880-18031-15	SC-15	107	90
880-18031-16	SC-16	103	103
880-18031-17	SC-17	17 S1-	15 S1-
880-18031-18	SC-18	124	81
880-18031-19	SC-19	103	100
880-18031-20	SC-20	104	102
880-18031-21	SC-21	103	98
880-18031-21 MS	SC-21	97	95
880-18031-21 MSD	SC-21	106	94
880-18031-22	SC-22	94	107
880-18031-23	SC-23	100	103
880-18031-24	SC-24	97	102
880-18031-25	SC-25	105	99
880-18031-26	SC-26	134 S1+	129
880-18031-27	SC-27	92	89
880-18031-28	SC-28	84	110
880-18031-29	SC-29	92	104
880-18031-30	SC-30	107	0.4 S1-
880-18031-31	SC-31	103	95
880-18031-32	SC-32	97	93
880-18031-33	SC-33	124	98
880-18031-34	SC-34	113	103
880-18031-35	SC-35	102	96
880-18031-36	SC-36	347 S1+	6 S1-
880-18031-37	SW-1	100	98
880-18031-38	SW-2	106	98
880-18031-39	SW-3	97	96
880-18031-40	SW-4	105	97

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-18031-41	SW-5	107	101
880-18031-42	SW-6	101	96
880-18031-43	SW-7	174 S1+	88
880-18031-44	SW-8	105	95
880-18071-A-1-E MS	Matrix Spike	123	95
880-18071-A-1-F MSD	Matrix Spike Duplicate	134 S1+	106
LCS 880-32046/34	Lab Control Sample	118	99
LCS 880-32053/1-A	Lab Control Sample	129	95
LCS 880-32381/1-A	Lab Control Sample	129	102
LCS 880-32426/1-A	Lab Control Sample	102	94
LCS 880-32434/1-A	Lab Control Sample	100	101
LCS 880-32444/1-A	Lab Control Sample	98	102
LCS 880-32516/1-A	Lab Control Sample	102	96
LCSD 880-32046/35	Lab Control Sample Dup	116	94
LCSD 880-32053/2-A	Lab Control Sample Dup	108	99
LCSD 880-32381/2-A	Lab Control Sample Dup	129	93
LCSD 880-32426/2-A	Lab Control Sample Dup	100	100
LCSD 880-32434/2-A	Lab Control Sample Dup	98	97
LCSD 880-32444/2-A	Lab Control Sample Dup	98	107
LCSD 880-32516/2-A	Lab Control Sample Dup	104	97
MB 880-32046/39	Method Blank	101	83
MB 880-32053/5-A	Method Blank	99	82
MB 880-32366/5-A	Method Blank	92	76
MB 880-32381/5-A	Method Blank	100	74
MB 880-32426/5-A	Method Blank	77	119
MB 880-32434/5-A	Method Blank	97	90
MB 880-32444/5-A	Method Blank	78	117
MB 880-32516/5-A	Method Blank	79	119
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)
880-17973-A-1-E MS	Matrix Spike	112	94
880-17973-A-1-F MSD	Matrix Spike Duplicate	115	93
880-18031-1	SC-1	103	96
880-18031-1 MS	SC-1	87	75
880-18031-1 MSD	SC-1	96	69 S1-
880-18031-2	SC-2	96	74
880-18031-3	SC-3	101	71
880-18031-4	SC-4	76	69 S1-
880-18031-5	SC-5	100	92
880-18031-6	SC-6	98	82
880-18031-7	SC-7	100	76
880-18031-8	SC-8	107	87

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Surrogate Summary

Client: Earth Systems Response and Restoration

Job ID: 880-18031-1

Project/Site: CTB 130

SDG: 1246

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-18031-9	SC-9	94	73
880-18031-10	SC-10	98	76
880-18031-11	SC-11	113	96
880-18031-12	SC-12	104	78
880-18031-13	SC-13	117	84
880-18031-14	SC-14	116	83
880-18031-15	SC-15	97	78
880-18031-16	SC-16	156 S1+	121
880-18031-17	SC-17	119	106
880-18031-18	SC-18	122	101
880-18031-19	SC-19	115	100
880-18031-20	SC-20	115	101
880-18031-21	SC-21	116	106
880-18031-21 MS	SC-21	95	74
880-18031-21 MSD	SC-21	98	77
880-18031-22	SC-22	78	68 S1-
880-18031-23	SC-23	99	91
880-18031-24	SC-24	107	101
880-18031-25	SC-25	105	97
880-18031-26	SC-26	110	81
880-18031-27	SC-27	116	88
880-18031-28	SC-28	130	84
880-18031-29	SC-29	194 S1+	91
880-18031-30	SC-30	98	86
880-18031-31	SC-31	110	89
880-18031-32	SC-32	127	112
880-18031-33	SC-33	109	85
880-18031-34	SC-34	116	96
880-18031-35	SC-35	96	76
880-18031-36	SC-36	126	80
880-18031-37	SW-1	103	85
880-18031-38	SW-2	93	75
880-18031-39	SW-3	102	82
880-18031-40	SW-4	102	84
880-18031-41	SW-5	112	95
880-18031-42	SW-6	107	94
880-18031-43	SW-7	268 S1+	123
880-18031-44	SW-8	103	92
LCS 880-32054/2-A	Lab Control Sample	105	100
LCS 880-32055/2-A	Lab Control Sample	130	116
LCS 880-32083/2-A	Lab Control Sample	101	89
LCSD 880-32054/3-A	Lab Control Sample Dup	117	89
LCSD 880-32055/3-A	Lab Control Sample Dup	118	103
LCSD 880-32083/3-A	Lab Control Sample Dup	112	102
MB 880-32054/1-A	Method Blank	114	109
MB 880-32055/1-A	Method Blank	120	119
MB 880-32083/1-A	Method Blank	111	111

Surrogate Legend

1CO = 1-Chlorooctane

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Surrogate Summary

Client: Earth Systems Response and Restoration

Project/Site: CTB 130

OTPH = o-Terphenyl

Job ID: 880-18031-1

SDG: 1246

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-32046/39

Matrix: Solid

Analysis Batch: 32046

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			08/12/22 22:01	1
Toluene	<0.00200	U	0.00200		mg/Kg			08/12/22 22:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			08/12/22 22:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			08/12/22 22:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			08/12/22 22:01	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			08/12/22 22:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130		08/12/22 22:01	1
1,4-Difluorobenzene (Surr)	83		70 - 130		08/12/22 22:01	1

Lab Sample ID: LCS 880-32046/34

Matrix: Solid

Analysis Batch: 32046

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09686		mg/Kg		97	70 - 130
Toluene	0.100	0.09575		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.1081		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	0.200	0.2217		mg/Kg		111	70 - 130
o-Xylene	0.100	0.1221		mg/Kg		122	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-32046/35

Matrix: Solid

Analysis Batch: 32046

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09131		mg/Kg		91	70 - 130	6	35
Toluene	0.100	0.09500		mg/Kg		95	70 - 130	1	35
Ethylbenzene	0.100	0.1048		mg/Kg		105	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2171		mg/Kg		109	70 - 130	2	35
o-Xylene	0.100	0.1198		mg/Kg		120	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-17955-A-8 MS

Matrix: Solid

Analysis Batch: 32046

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1003		mg/Kg		100	70 - 130
Toluene	<0.00200	U	0.100	0.1126		mg/Kg		113	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

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

Lab Sample ID: 880-17955-A-8 MS

Matrix: Solid

Analysis Batch: 32046

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.1293		mg/Kg		129	70 - 130
m-Xylene & p-Xylene	<0.00400	U F1	0.200	0.2794	F1	mg/Kg		140	70 - 130
o-Xylene	<0.00200	U F1	0.100	0.1588	F1	mg/Kg		159	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 880-17955-A-8 MSD

Matrix: Solid

Analysis Batch: 32046

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09242		mg/Kg		92	70 - 130	8	35
Toluene	<0.00200	U	0.100	0.1014		mg/Kg		101	70 - 130	10	35
Ethylbenzene	<0.00200	U	0.100	0.1197		mg/Kg		120	70 - 130	8	35
m-Xylene & p-Xylene	<0.00400	U F1	0.200	0.2496		mg/Kg		125	70 - 130	11	35
o-Xylene	<0.00200	U F1	0.100	0.1400	F1	mg/Kg		140	70 - 130	13	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: MB 880-32053/5-A

Matrix: Solid

Analysis Batch: 32046

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32053

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/12/22 08:33	08/12/22 10:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/12/22 08:33	08/12/22 10:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/12/22 08:33	08/12/22 10:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/12/22 08:33	08/12/22 10:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/12/22 08:33	08/12/22 10:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/12/22 08:33	08/12/22 10:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	08/12/22 08:33	08/12/22 10:53	1
1,4-Difluorobenzene (Surr)	82		70 - 130	08/12/22 08:33	08/12/22 10:53	1

Lab Sample ID: LCS 880-32053/1-A

Matrix: Solid

Analysis Batch: 32046

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32053

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09482		mg/Kg		95	70 - 130
Toluene	0.100	0.1002		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.1112		mg/Kg		111	70 - 130
m-Xylene & p-Xylene	0.200	0.2383		mg/Kg		119	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

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

Lab Sample ID: LCS 880-32053/1-A

Matrix: Solid

Analysis Batch: 32046

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32053

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1328	*+	mg/Kg		133	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	129		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-32053/2-A

Matrix: Solid

Analysis Batch: 32046

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32053

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1031		mg/Kg		103	70 - 130	8	35
Toluene	0.100	0.09994		mg/Kg		100	70 - 130	0	35
Ethylbenzene	0.100	0.1057		mg/Kg		106	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2197		mg/Kg		110	70 - 130	8	35
o-Xylene	0.100	0.1198		mg/Kg		120	70 - 130	10	35

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

Lab Sample ID: 880-18027-A-1-B MS

Matrix: Solid

Analysis Batch: 32046

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 32053

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.101	0.09679		mg/Kg		95	70 - 130
Toluene	0.0148		0.101	0.09379		mg/Kg		78	70 - 130
Ethylbenzene	0.0416	F1	0.101	0.1031	F1	mg/Kg		61	70 - 130
m-Xylene & p-Xylene	0.117	F1	0.202	0.2156	F1	mg/Kg		49	70 - 130
o-Xylene	0.0679	*+ F1	0.101	0.1183	F1	mg/Kg		50	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-18027-A-1-C MSD

Matrix: Solid

Analysis Batch: 32046

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 32053

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	0.1032		mg/Kg		102	70 - 130	6	35
Toluene	0.0148		0.100	0.1078		mg/Kg		93	70 - 130	14	35
Ethylbenzene	0.0416	F1	0.100	0.1203		mg/Kg		79	70 - 130	15	35
m-Xylene & p-Xylene	0.117	F1	0.200	0.2554	F1	mg/Kg		69	70 - 130	17	35
o-Xylene	0.0679	*+ F1	0.100	0.1419		mg/Kg		74	70 - 130	18	35

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

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

Lab Sample ID: 880-18027-A-1-C MSD

Matrix: Solid

Analysis Batch: 32046

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 32053

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: MB 880-32366/5-A

Matrix: Solid

Analysis Batch: 32367

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32366

Analyte	MB	MB							
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/17/22 14:25	08/17/22 17:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/17/22 14:25	08/17/22 17:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/17/22 14:25	08/17/22 17:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/17/22 14:25	08/17/22 17:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/17/22 14:25	08/17/22 17:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/17/22 14:25	08/17/22 17:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				08/17/22 14:25	08/17/22 17:59	1
1,4-Difluorobenzene (Surr)	76		70 - 130				08/17/22 14:25	08/17/22 17:59	1

Lab Sample ID: MB 880-32381/5-A

Matrix: Solid

Analysis Batch: 32367

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32381

Analyte	MB	MB							
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000400	U	0.000400		mg/Kg		08/17/22 16:59	08/18/22 11:54	1
Toluene	<0.000400	U	0.000400		mg/Kg		08/17/22 16:59	08/18/22 11:54	1
Ethylbenzene	<0.000400	U	0.000400		mg/Kg		08/17/22 16:59	08/18/22 11:54	1
m-Xylene & p-Xylene	<0.000800	U	0.000800		mg/Kg		08/17/22 16:59	08/18/22 11:54	1
o-Xylene	<0.000400	U	0.000400		mg/Kg		08/17/22 16:59	08/18/22 11:54	1
Xylenes, Total	<0.000800	U	0.000800		mg/Kg		08/17/22 16:59	08/18/22 11:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				08/17/22 16:59	08/18/22 11:54	1
1,4-Difluorobenzene (Surr)	74		70 - 130				08/17/22 16:59	08/18/22 11:54	1

Lab Sample ID: LCS 880-32381/1-A

Matrix: Solid

Analysis Batch: 32367

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32381

Analyte	Spike	LCS	LCS						
	Added	Result	Qualifier	Unit	D	%Rec	%Rec	Limits	
Benzene	0.100	0.1007		mg/Kg		100		70 - 130	
Toluene	0.100	0.08765		mg/Kg		87		70 - 130	
Ethylbenzene	0.100	0.08882		mg/Kg		89		70 - 130	
m-Xylene & p-Xylene	0.200	0.1785		mg/Kg		89		70 - 130	
o-Xylene	0.100	0.09164		mg/Kg		91		70 - 130	

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

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

Lab Sample ID: LCS 880-32381/1-A

Matrix: Solid

Analysis Batch: 32367

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32381

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	129		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-32381/2-A

Matrix: Solid

Analysis Batch: 32367

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32381

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0998	0.09785		mg/Kg		98	70 - 130	3	35
Toluene	0.0998	0.09126		mg/Kg		91	70 - 130	4	35
Ethylbenzene	0.0998	0.09415		mg/Kg		94	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1875		mg/Kg		94	70 - 130	5	35
o-Xylene	0.0998	0.09375		mg/Kg		94	70 - 130	2	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	129		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 880-18071-A-1-E MS

Matrix: Solid

Analysis Batch: 32367

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 32381

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1	0.100	0.05275	F1	mg/Kg		53	70 - 130
Toluene	<0.00200	U F1	0.100	0.03643	F1	mg/Kg		36	70 - 130
Ethylbenzene	<0.00200	U F1	0.100	0.04400	F1	mg/Kg		44	70 - 130
m-Xylene & p-Xylene	<0.00400	U F1	0.200	0.07989	F1	mg/Kg		40	70 - 130
o-Xylene	<0.00200	U F1	0.100	0.04820	F1	mg/Kg		47	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-18071-A-1-F MSD

Matrix: Solid

Analysis Batch: 32367

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 32381

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.100	0.03874	F1	mg/Kg		39	70 - 130	31	35
Toluene	<0.00200	U F1	0.100	0.02822	F1	mg/Kg		28	70 - 130	25	35
Ethylbenzene	<0.00200	U F1	0.100	0.03554	F1	mg/Kg		35	70 - 130	21	35
m-Xylene & p-Xylene	<0.00400	U F1	0.200	0.06456	F1	mg/Kg		32	70 - 130	21	35
o-Xylene	<0.00200	U F1	0.100	0.04084	F1	mg/Kg		40	70 - 130	17	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

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

Lab Sample ID: MB 880-32426/5-A

Matrix: Solid

Analysis Batch: 32427

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32426

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 15:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 15:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 15:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/18/22 12:46	08/18/22 15:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/18/22 12:46	08/18/22 15:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/18/22 12:46	08/18/22 15:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	08/18/22 12:46	08/18/22 15:52	1
1,4-Difluorobenzene (Surr)	119		70 - 130	08/18/22 12:46	08/18/22 15:52	1

Lab Sample ID: LCS 880-32426/1-A

Matrix: Solid

Analysis Batch: 32427

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32426

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1037		mg/Kg		104	70 - 130
Toluene	0.100	0.1122		mg/Kg		112	70 - 130
Ethylbenzene	0.100	0.1132		mg/Kg		113	70 - 130
m-Xylene & p-Xylene	0.200	0.2127		mg/Kg		106	70 - 130
o-Xylene	0.100	0.1133		mg/Kg		113	70 - 130

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

Lab Sample ID: LCSD 880-32426/2-A

Matrix: Solid

Analysis Batch: 32427

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32426

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1008		mg/Kg		101	70 - 130	3	35
Toluene	0.100	0.1068		mg/Kg		107	70 - 130	5	35
Ethylbenzene	0.100	0.1082		mg/Kg		108	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2025		mg/Kg		101	70 - 130	5	35
o-Xylene	0.100	0.1074		mg/Kg		107	70 - 130	5	35

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

Lab Sample ID: 880-18031-2 MS

Matrix: Solid

Analysis Batch: 32427

Client Sample ID: SC-2

Prep Type: Total/NA

Prep Batch: 32426

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.09959		mg/Kg		100	70 - 130
Toluene	<0.00200	U	0.0998	0.1003		mg/Kg		100	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

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

Lab Sample ID: 880-18031-2 MS

Matrix: Solid

Analysis Batch: 32427

Client Sample ID: SC-2

Prep Type: Total/NA

Prep Batch: 32426

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.0998	0.09771		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	<0.00400	U	0.200	0.1816		mg/Kg		91	70 - 130
o-Xylene	<0.00200	U	0.0998	0.09601		mg/Kg		96	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-18031-2 MSD

Matrix: Solid

Analysis Batch: 32427

Client Sample ID: SC-2

Prep Type: Total/NA

Prep Batch: 32426

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0998	0.09593		mg/Kg		96	70 - 130	4	35
Toluene	<0.00200	U	0.0998	0.1016		mg/Kg		102	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.0998	0.1019		mg/Kg		102	70 - 130	4	35
m-Xylene & p-Xylene	<0.00400	U	0.200	0.1911		mg/Kg		96	70 - 130	5	35
o-Xylene	<0.00200	U	0.0998	0.1011		mg/Kg		101	70 - 130	5	35

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

Lab Sample ID: MB 880-32434/5-A

Matrix: Solid

Analysis Batch: 32438

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32434

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 16:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 16:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/18/22 14:24	08/18/22 16:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/18/22 14:24	08/18/22 16:48	1
o-Xylene	0.003405		0.00200		mg/Kg		08/18/22 14:24	08/18/22 16:48	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/18/22 14:24	08/18/22 16:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	08/18/22 14:24	08/18/22 16:48	1
1,4-Difluorobenzene (Surr)	90		70 - 130	08/18/22 14:24	08/18/22 16:48	1

Lab Sample ID: LCS 880-32434/1-A

Matrix: Solid

Analysis Batch: 32438

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32434

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1126		mg/Kg		112	70 - 130
Toluene	0.100	0.1142		mg/Kg		114	70 - 130
Ethylbenzene	0.100	0.1005		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.2059		mg/Kg		103	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

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

Lab Sample ID: LCS 880-32434/1-A

Matrix: Solid

Analysis Batch: 32438

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32434

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1168		mg/Kg		117	70 - 130

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

Lab Sample ID: LCSD 880-32434/2-A

Matrix: Solid

Analysis Batch: 32438

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32434

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1095		mg/Kg		110	70 - 130	3	35
Toluene	0.100	0.1133		mg/Kg		113	70 - 130	1	35
Ethylbenzene	0.100	0.09994		mg/Kg		100	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2016		mg/Kg		101	70 - 130	2	35
o-Xylene	0.100	0.1122		mg/Kg		112	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-18031-21 MS

Matrix: Solid

Analysis Batch: 32438

Client Sample ID: SC-21

Prep Type: Total/NA

Prep Batch: 32434

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.08698		mg/Kg		87	70 - 130
Toluene	<0.00200	U	0.100	0.08317		mg/Kg		83	70 - 130
Ethylbenzene	<0.00200	U F1	0.100	0.06524	F1	mg/Kg		65	70 - 130
m-Xylene & p-Xylene	<0.00400	U F1	0.200	0.1311	F1	mg/Kg		65	70 - 130
o-Xylene	<0.00200	U F1	0.100	0.06822	F1	mg/Kg		68	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-18031-21 MSD

Matrix: Solid

Analysis Batch: 32438

Client Sample ID: SC-21

Prep Type: Total/NA

Prep Batch: 32434

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.08576		mg/Kg		86	70 - 130	1	35
Toluene	<0.00200	U	0.100	0.07816		mg/Kg		78	70 - 130	6	35
Ethylbenzene	<0.00200	U F1	0.100	0.06167	F1	mg/Kg		62	70 - 130	6	35
m-Xylene & p-Xylene	<0.00400	U F1	0.200	0.1208	F1	mg/Kg		60	70 - 130	8	35
o-Xylene	<0.00200	U F1	0.100	0.06130	F1	mg/Kg		61	70 - 130	11	35

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

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

Lab Sample ID: 880-18031-21 MSD

Matrix: Solid

Analysis Batch: 32438

Client Sample ID: SC-21

Prep Type: Total/NA

Prep Batch: 32434

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

Lab Sample ID: MB 880-32444/5-A

Matrix: Solid

Analysis Batch: 32427

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32444

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/18/22 15:07	08/19/22 03:29	1	
Toluene	<0.00200	U	0.00200		mg/Kg		08/18/22 15:07	08/19/22 03:29	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/18/22 15:07	08/19/22 03:29	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/18/22 15:07	08/19/22 03:29	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/18/22 15:07	08/19/22 03:29	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/18/22 15:07	08/19/22 03:29	1	
	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
4-Bromofluorobenzene (Surr)	78		70 - 130				08/18/22 15:07	08/19/22 03:29	1	
1,4-Difluorobenzene (Surr)	117		70 - 130				08/18/22 15:07	08/19/22 03:29	1	

Lab Sample ID: LCS 880-32444/1-A

Matrix: Solid

Analysis Batch: 32427

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32444

	Spike	LCS	LCS					%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Benzene	0.100	0.09113		mg/Kg		91	70 - 130			
Toluene	0.100	0.09080		mg/Kg		91	70 - 130			
Ethylbenzene	0.100	0.08427		mg/Kg		84	70 - 130			
m-Xylene & p-Xylene	0.200	0.1564		mg/Kg		78	70 - 130			
o-Xylene	0.100	0.08543		mg/Kg		85	70 - 130			
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	98		70 - 130							
1,4-Difluorobenzene (Surr)	102		70 - 130							

Lab Sample ID: LCSD 880-32444/2-A

Matrix: Solid

Analysis Batch: 32427

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32444

	Spike	LCSD	LCSD					%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1080		mg/Kg		108	70 - 130	17	35	
Toluene	0.100	0.1050		mg/Kg		105	70 - 130	14	35	
Ethylbenzene	0.100	0.1003		mg/Kg		100	70 - 130	17	35	
m-Xylene & p-Xylene	0.200	0.1854		mg/Kg		93	70 - 130	17	35	
o-Xylene	0.100	0.1002		mg/Kg		100	70 - 130	16	35	
	LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	98		70 - 130							

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

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

Lab Sample ID: LCSD 880-32444/2-A

Matrix: Solid

Analysis Batch: 32427

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32444

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: MB 880-32516/5-A

Matrix: Solid

Analysis Batch: 32427

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32516

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 15:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 15:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 15:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/19/22 13:53	08/19/22 15:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/19/22 13:53	08/19/22 15:05	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/19/22 13:53	08/19/22 15:05	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	79		70 - 130	08/19/22 13:53	08/19/22 15:05	1			
1,4-Difluorobenzene (Surr)	119		70 - 130	08/19/22 13:53	08/19/22 15:05	1			

Lab Sample ID: LCS 880-32516/1-A

Matrix: Solid

Analysis Batch: 32427

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32516

	Spike	LCS	LCS					%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.100	0.09993		mg/Kg		100	70 - 130		
Toluene	0.100	0.1121		mg/Kg		112	70 - 130		
Ethylbenzene	0.100	0.1132		mg/Kg		113	70 - 130		
m-Xylene & p-Xylene	0.200	0.2131		mg/Kg		107	70 - 130		
o-Xylene	0.100	0.1118		mg/Kg		112	70 - 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-32516/2-A

Matrix: Solid

Analysis Batch: 32427

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32516

	Spike	LCSD	LCSD					%Rec	RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1086		mg/Kg		108	70 - 130	8	35	
Toluene	0.100	0.1189		mg/Kg		119	70 - 130	6	35	
Ethylbenzene	0.100	0.1198		mg/Kg		120	70 - 130	6	35	
m-Xylene & p-Xylene	0.200	0.2240		mg/Kg		112	70 - 130	5	35	
o-Xylene	0.100	0.1177		mg/Kg		117	70 - 130	5	35	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

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

Lab Sample ID: MB 880-32054/1-A

Matrix: Solid

Analysis Batch: 32049

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32054

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/12/22 08:52	08/12/22 10:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/12/22 08:52	08/12/22 10:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/12/22 08:52	08/12/22 10:43	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				08/12/22 08:52	08/12/22 10:43	1
o-Terphenyl	109		70 - 130				08/12/22 08:52	08/12/22 10:43	1

Lab Sample ID: LCS 880-32054/2-A

Matrix: Solid

Analysis Batch: 32049

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32054

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	991.2		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1150		mg/Kg		115	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	105		70 - 130				
o-Terphenyl	100		70 - 130				

Lab Sample ID: LCSD 880-32054/3-A

Matrix: Solid

Analysis Batch: 32049

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32054

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	947.1		mg/Kg		95	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	1045		mg/Kg		105	70 - 130	10	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	117		70 - 130						
o-Terphenyl	89		70 - 130						

Lab Sample ID: 880-17973-A-1-E MS

Matrix: Solid

Analysis Batch: 32049

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 32054

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	982.6		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	153		999	1216		mg/Kg		106	70 - 130

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

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

Lab Sample ID: 880-17973-A-1-E MS

Matrix: Solid

Analysis Batch: 32049

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 32054

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: 880-17973-A-1-F MSD

Matrix: Solid

Analysis Batch: 32049

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 32054

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1018		mg/Kg		102	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	153		999	1187		mg/Kg		104	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: MB 880-32055/1-A

Matrix: Solid

Analysis Batch: 32051

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32055

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/12/22 09:14	08/12/22 20:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/12/22 09:14	08/12/22 20:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/12/22 09:14	08/12/22 20:47	1

	MB	MB					Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits				08/12/22 09:14	08/12/22 20:47	1
1-Chlorooctane	120		70 - 130				08/12/22 09:14	08/12/22 20:47	1
o-Terphenyl	119		70 - 130				08/12/22 09:14	08/12/22 20:47	1

Lab Sample ID: LCS 880-32055/2-A

Matrix: Solid

Analysis Batch: 32051

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32055

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	994.5		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1101		mg/Kg		110	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	130		70 - 130
o-Terphenyl	116		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

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

Lab Sample ID: LCSD 880-32055/3-A

Matrix: Solid

Analysis Batch: 32051

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32055

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1048		mg/Kg		105	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	985.3		mg/Kg		99	70 - 130	11	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	118		70 - 130						
o-Terphenyl	103		70 - 130						

Lab Sample ID: 880-18031-1 MS

Matrix: Solid

Analysis Batch: 32051

Client Sample ID: SC-1

Prep Type: Total/NA

Prep Batch: 32055

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	999	1022		mg/Kg		102	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	857.1		mg/Kg		82	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	87		70 - 130								
o-Terphenyl	75		70 - 130								

Lab Sample ID: 880-18031-1 MSD

Matrix: Solid

Analysis Batch: 32051

Client Sample ID: SC-1

Prep Type: Total/NA

Prep Batch: 32055

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	999	825.6	F2	mg/Kg		83	70 - 130	21	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	835.2		mg/Kg		79	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	96		70 - 130								
o-Terphenyl	69	S1-	70 - 130								

Lab Sample ID: MB 880-32083/1-A

Matrix: Solid

Analysis Batch: 32051

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32083

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/12/22 10:16	08/12/22 10:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/12/22 10:16	08/12/22 10:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/12/22 10:16	08/12/22 10:43	1

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

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

Lab Sample ID: MB 880-32083/1-A

Matrix: Solid

Analysis Batch: 32051

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32083

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	08/12/22 10:16	08/12/22 10:43	1
o-Terphenyl	111		70 - 130	08/12/22 10:16	08/12/22 10:43	1

Lab Sample ID: LCS 880-32083/2-A

Matrix: Solid

Analysis Batch: 32051

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32083

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	825.3		mg/Kg		83	70 - 130
Diesel Range Organics (Over C10-C28)	1000	842.4		mg/Kg		84	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	89		70 - 130

Lab Sample ID: LCSD 880-32083/3-A

Matrix: Solid

Analysis Batch: 32051

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32083

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	992.8		mg/Kg		99	70 - 130	18	20
Diesel Range Organics (Over C10-C28)	1000	970.6		mg/Kg		97	70 - 130	14	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: 880-18031-21 MS

Matrix: Solid

Analysis Batch: 32051

Client Sample ID: SC-21

Prep Type: Total/NA

Prep Batch: 32083

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1097		mg/Kg		107	70 - 130
Diesel Range Organics (Over C10-C28)	602	F1	999	1001	F1	mg/Kg		40	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	74		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

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

Lab Sample ID: 880-18031-21 MSD

Matrix: Solid

Analysis Batch: 32051

Client Sample ID: SC-21

Prep Type: Total/NA

Prep Batch: 32083

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1135		mg/Kg		111	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	602	F1	999	1065	F1	mg/Kg		46	70 - 130	6	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	98		70 - 130								
o-Terphenyl	77		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-32131/1-A

Matrix: Solid

Analysis Batch: 32170

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.01	U	5.01		mg/Kg			08/15/22 16:17	1

Lab Sample ID: LCS 880-32131/2-A

Matrix: Solid

Analysis Batch: 32170

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	249	232.6		mg/Kg		93	90 - 110

Lab Sample ID: LCSD 880-32131/3-A

Matrix: Solid

Analysis Batch: 32170

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	238.0		mg/Kg		95	90 - 110	2	20

Lab Sample ID: 880-18031-1 MS

Matrix: Solid

Analysis Batch: 32170

Client Sample ID: SC-1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	6.64		250	253.0		mg/Kg		99	90 - 110

Lab Sample ID: 880-18031-1 MSD

Matrix: Solid

Analysis Batch: 32170

Client Sample ID: SC-1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	6.64		251	254.4		mg/Kg		99	90 - 110	1	20

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-18031-11 MS

Matrix: Solid

Analysis Batch: 32170

Client Sample ID: SC-11

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<4.99	U	250	252.2		mg/Kg		99	90 - 110

Lab Sample ID: 880-18031-11 MSD

Matrix: Solid

Analysis Batch: 32170

Client Sample ID: SC-11

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<4.99	U	251	253.9		mg/Kg		99	90 - 110	1	20

Lab Sample ID: MB 880-32132/1-A

Matrix: Solid

Analysis Batch: 32171

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/16/22 13:37	1

Lab Sample ID: LCS 880-32132/2-A

Matrix: Solid

Analysis Batch: 32171

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	242.3		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-32132/3-A

Matrix: Solid

Analysis Batch: 32171

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	251	244.9		mg/Kg		98	90 - 110	1	20

Lab Sample ID: 880-18031-21 MS

Matrix: Solid

Analysis Batch: 32171

Client Sample ID: SC-21

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15.6		253	270.3		mg/Kg		101	90 - 110

Lab Sample ID: 880-18031-21 MSD

Matrix: Solid

Analysis Batch: 32171

Client Sample ID: SC-21

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	15.6		252	268.5		mg/Kg		101	90 - 110	1	20

Lab Sample ID: 880-18031-31 MS

Matrix: Solid

Analysis Batch: 32171

Client Sample ID: SC-31

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	11.5		249	269.2		mg/Kg		103	90 - 110

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-18031-31 MSD

Matrix: Solid

Analysis Batch: 32171

Client Sample ID: SC-31

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	11.5		250	270.1		mg/Kg		104	90 - 110	0	20

Lab Sample ID: MB 880-32133/1-A

Matrix: Solid

Analysis Batch: 32172

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/17/22 08:06	1

Lab Sample ID: LCS 880-32133/2-A

Matrix: Solid

Analysis Batch: 32172

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	253.4		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-32133/3-A

Matrix: Solid

Analysis Batch: 32172

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	253.0		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-18004-A-1-E MS

Matrix: Solid

Analysis Batch: 32172

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	143		251	402.3		mg/Kg		104	90 - 110

Lab Sample ID: 880-18004-A-1-G MSD

Matrix: Solid

Analysis Batch: 32172

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	143		251	402.7		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-18047-A-2-D MS

Matrix: Solid

Analysis Batch: 32172

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	260		251	524.6		mg/Kg		106	90 - 110

Lab Sample ID: 880-18047-A-2-E MSD

Matrix: Solid

Analysis Batch: 32172

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	260		251	524.4		mg/Kg		105	90 - 110	0	20

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

GC VOA

Analysis Batch: 32046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18031-1	SC-1	Total/NA	Solid	8021B	32053
MB 880-32046/39	Method Blank	Total/NA	Solid	8021B	
MB 880-32053/5-A	Method Blank	Total/NA	Solid	8021B	32053
LCS 880-32046/34	Lab Control Sample	Total/NA	Solid	8021B	
LCS 880-32053/1-A	Lab Control Sample	Total/NA	Solid	8021B	32053
LCSD 880-32046/35	Lab Control Sample Dup	Total/NA	Solid	8021B	
LCSD 880-32053/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	32053
880-17955-A-8 MS	Matrix Spike	Total/NA	Solid	8021B	
880-17955-A-8 MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	
880-18027-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	32053
880-18027-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	32053

Prep Batch: 32053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18031-1	SC-1	Total/NA	Solid	5035	
MB 880-32053/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-32053/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-32053/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-18027-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-18027-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 32100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18031-18	SC-18	Total/NA	Solid	5035	
880-18031-29	SC-29	Total/NA	Solid	5035	

Prep Batch: 32110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18031-11	SC-11	Total/NA	Solid	5035	

Prep Batch: 32112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18031-7	SC-7	Total/NA	Solid	5035	
880-18031-8	SC-8	Total/NA	Solid	5035	
880-18031-9	SC-9	Total/NA	Solid	5035	

Analysis Batch: 32164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18031-1	SC-1	Total/NA	Solid	Total BTEX	
880-18031-2	SC-2	Total/NA	Solid	Total BTEX	
880-18031-3	SC-3	Total/NA	Solid	Total BTEX	
880-18031-4	SC-4	Total/NA	Solid	Total BTEX	
880-18031-5	SC-5	Total/NA	Solid	Total BTEX	
880-18031-6	SC-6	Total/NA	Solid	Total BTEX	
880-18031-7	SC-7	Total/NA	Solid	Total BTEX	
880-18031-8	SC-8	Total/NA	Solid	Total BTEX	
880-18031-9	SC-9	Total/NA	Solid	Total BTEX	
880-18031-10	SC-10	Total/NA	Solid	Total BTEX	
880-18031-11	SC-11	Total/NA	Solid	Total BTEX	
880-18031-12	SC-12	Total/NA	Solid	Total BTEX	
880-18031-13	SC-13	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

GC VOA (Continued)

Analysis Batch: 32164 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18031-14	SC-14	Total/NA	Solid	Total BTEX	
880-18031-15	SC-15	Total/NA	Solid	Total BTEX	
880-18031-16	SC-16	Total/NA	Solid	Total BTEX	
880-18031-17	SC-17	Total/NA	Solid	Total BTEX	
880-18031-18	SC-18	Total/NA	Solid	Total BTEX	
880-18031-19	SC-19	Total/NA	Solid	Total BTEX	
880-18031-20	SC-20	Total/NA	Solid	Total BTEX	
880-18031-21	SC-21	Total/NA	Solid	Total BTEX	
880-18031-22	SC-22	Total/NA	Solid	Total BTEX	
880-18031-23	SC-23	Total/NA	Solid	Total BTEX	
880-18031-24	SC-24	Total/NA	Solid	Total BTEX	
880-18031-25	SC-25	Total/NA	Solid	Total BTEX	
880-18031-26	SC-26	Total/NA	Solid	Total BTEX	
880-18031-27	SC-27	Total/NA	Solid	Total BTEX	
880-18031-28	SC-28	Total/NA	Solid	Total BTEX	
880-18031-29	SC-29	Total/NA	Solid	Total BTEX	
880-18031-30	SC-30	Total/NA	Solid	Total BTEX	
880-18031-31	SC-31	Total/NA	Solid	Total BTEX	
880-18031-32	SC-32	Total/NA	Solid	Total BTEX	
880-18031-33	SC-33	Total/NA	Solid	Total BTEX	
880-18031-34	SC-34	Total/NA	Solid	Total BTEX	
880-18031-35	SC-35	Total/NA	Solid	Total BTEX	
880-18031-36	SC-36	Total/NA	Solid	Total BTEX	
880-18031-37	SW-1	Total/NA	Solid	Total BTEX	
880-18031-38	SW-2	Total/NA	Solid	Total BTEX	
880-18031-39	SW-3	Total/NA	Solid	Total BTEX	
880-18031-40	SW-4	Total/NA	Solid	Total BTEX	
880-18031-41	SW-5	Total/NA	Solid	Total BTEX	
880-18031-42	SW-6	Total/NA	Solid	Total BTEX	
880-18031-43	SW-7	Total/NA	Solid	Total BTEX	
880-18031-44	SW-8	Total/NA	Solid	Total BTEX	

Prep Batch: 32366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-32366/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 32367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18031-3	SC-3	Total/NA	Solid	8021B	32381
880-18031-4	SC-4	Total/NA	Solid	8021B	32381
880-18031-5	SC-5	Total/NA	Solid	8021B	32381
880-18031-6	SC-6	Total/NA	Solid	8021B	32381
MB 880-32366/5-A	Method Blank	Total/NA	Solid	8021B	32366
MB 880-32381/5-A	Method Blank	Total/NA	Solid	8021B	32381
LCS 880-32381/1-A	Lab Control Sample	Total/NA	Solid	8021B	32381
LCSD 880-32381/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	32381
880-18071-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	32381
880-18071-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	32381

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

GC VOA

Prep Batch: 32381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18031-3	SC-3	Total/NA	Solid	5035	
880-18031-4	SC-4	Total/NA	Solid	5035	
880-18031-5	SC-5	Total/NA	Solid	5035	
880-18031-6	SC-6	Total/NA	Solid	5035	
MB 880-32381/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-32381/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-32381/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-18071-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-18071-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 32426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18031-2	SC-2	Total/NA	Solid	5035	
880-18031-10	SC-10	Total/NA	Solid	5035	
880-18031-12	SC-12	Total/NA	Solid	5035	
880-18031-13	SC-13	Total/NA	Solid	5035	
880-18031-14	SC-14	Total/NA	Solid	5035	
880-18031-15	SC-15	Total/NA	Solid	5035	
880-18031-16	SC-16	Total/NA	Solid	5035	
880-18031-17	SC-17	Total/NA	Solid	5035	
880-18031-19	SC-19	Total/NA	Solid	5035	
880-18031-20	SC-20	Total/NA	Solid	5035	
880-18031-22	SC-22	Total/NA	Solid	5035	
880-18031-23	SC-23	Total/NA	Solid	5035	
880-18031-24	SC-24	Total/NA	Solid	5035	
880-18031-25	SC-25	Total/NA	Solid	5035	
880-18031-26	SC-26	Total/NA	Solid	5035	
880-18031-27	SC-27	Total/NA	Solid	5035	
MB 880-32426/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-32426/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-32426/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-18031-2 MS	SC-2	Total/NA	Solid	5035	
880-18031-2 MSD	SC-2	Total/NA	Solid	5035	

Analysis Batch: 32427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18031-2	SC-2	Total/NA	Solid	8021B	32426
880-18031-7	SC-7	Total/NA	Solid	8021B	32112
880-18031-8	SC-8	Total/NA	Solid	8021B	32112
880-18031-9	SC-9	Total/NA	Solid	8021B	32112
880-18031-10	SC-10	Total/NA	Solid	8021B	32426
880-18031-12	SC-12	Total/NA	Solid	8021B	32426
880-18031-13	SC-13	Total/NA	Solid	8021B	32426
880-18031-14	SC-14	Total/NA	Solid	8021B	32426
880-18031-15	SC-15	Total/NA	Solid	8021B	32426
880-18031-15	SC-15	Total/NA	Solid	8021B	32516
880-18031-16	SC-16	Total/NA	Solid	8021B	32426
880-18031-17	SC-17	Total/NA	Solid	8021B	32426
880-18031-18	SC-18	Total/NA	Solid	8021B	32100
880-18031-19	SC-19	Total/NA	Solid	8021B	32426
880-18031-20	SC-20	Total/NA	Solid	8021B	32426

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

GC VOA (Continued)

Analysis Batch: 32427 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18031-22	SC-22	Total/NA	Solid	8021B	32426
880-18031-23	SC-23	Total/NA	Solid	8021B	32426
880-18031-24	SC-24	Total/NA	Solid	8021B	32426
880-18031-25	SC-25	Total/NA	Solid	8021B	32426
880-18031-26	SC-26	Total/NA	Solid	8021B	32426
880-18031-27	SC-27	Total/NA	Solid	8021B	32426
880-18031-28	SC-28	Total/NA	Solid	8021B	32516
880-18031-29	SC-29	Total/NA	Solid	8021B	32100
MB 880-32426/5-A	Method Blank	Total/NA	Solid	8021B	32426
MB 880-32444/5-A	Method Blank	Total/NA	Solid	8021B	32444
MB 880-32516/5-A	Method Blank	Total/NA	Solid	8021B	32516
LCS 880-32426/1-A	Lab Control Sample	Total/NA	Solid	8021B	32426
LCS 880-32444/1-A	Lab Control Sample	Total/NA	Solid	8021B	32444
LCS 880-32516/1-A	Lab Control Sample	Total/NA	Solid	8021B	32516
LCSD 880-32426/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	32426
LCSD 880-32444/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	32444
LCSD 880-32516/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	32516
880-18031-2 MS	SC-2	Total/NA	Solid	8021B	32426
880-18031-2 MSD	SC-2	Total/NA	Solid	8021B	32426

Prep Batch: 32434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18031-21	SC-21	Total/NA	Solid	5035	
880-18031-30	SC-30	Total/NA	Solid	5035	
880-18031-31	SC-31	Total/NA	Solid	5035	
880-18031-32	SC-32	Total/NA	Solid	5035	
880-18031-33	SC-33	Total/NA	Solid	5035	
880-18031-34	SC-34	Total/NA	Solid	5035	
880-18031-35	SC-35	Total/NA	Solid	5035	
880-18031-36	SC-36	Total/NA	Solid	5035	
880-18031-37	SW-1	Total/NA	Solid	5035	
880-18031-38	SW-2	Total/NA	Solid	5035	
880-18031-39	SW-3	Total/NA	Solid	5035	
880-18031-40	SW-4	Total/NA	Solid	5035	
880-18031-41	SW-5	Total/NA	Solid	5035	
880-18031-42	SW-6	Total/NA	Solid	5035	
880-18031-43	SW-7	Total/NA	Solid	5035	
880-18031-44	SW-8	Total/NA	Solid	5035	
MB 880-32434/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-32434/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-32434/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-18031-21 MS	SC-21	Total/NA	Solid	5035	
880-18031-21 MSD	SC-21	Total/NA	Solid	5035	

Analysis Batch: 32438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18031-11	SC-11	Total/NA	Solid	8021B	32110
880-18031-21	SC-21	Total/NA	Solid	8021B	32434
880-18031-30	SC-30	Total/NA	Solid	8021B	32434
880-18031-31	SC-31	Total/NA	Solid	8021B	32434
880-18031-32	SC-32	Total/NA	Solid	8021B	32434

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

GC VOA (Continued)

Analysis Batch: 32438 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18031-33	SC-33	Total/NA	Solid	8021B	32434
880-18031-34	SC-34	Total/NA	Solid	8021B	32434
880-18031-35	SC-35	Total/NA	Solid	8021B	32434
880-18031-36	SC-36	Total/NA	Solid	8021B	32434
880-18031-37	SW-1	Total/NA	Solid	8021B	32434
880-18031-38	SW-2	Total/NA	Solid	8021B	32434
880-18031-39	SW-3	Total/NA	Solid	8021B	32434
880-18031-40	SW-4	Total/NA	Solid	8021B	32434
880-18031-41	SW-5	Total/NA	Solid	8021B	32434
880-18031-42	SW-6	Total/NA	Solid	8021B	32434
880-18031-43	SW-7	Total/NA	Solid	8021B	32434
880-18031-44	SW-8	Total/NA	Solid	8021B	32434
MB 880-32434/5-A	Method Blank	Total/NA	Solid	8021B	32434
LCS 880-32434/1-A	Lab Control Sample	Total/NA	Solid	8021B	32434
LCSD 880-32434/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	32434
880-18031-21 MS	SC-21	Total/NA	Solid	8021B	32434
880-18031-21 MSD	SC-21	Total/NA	Solid	8021B	32434

Prep Batch: 32444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-32444/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-32444/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-32444/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 32516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18031-15	SC-15	Total/NA	Solid	5035	
880-18031-28	SC-28	Total/NA	Solid	5035	
MB 880-32516/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-32516/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-32516/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 32049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18031-41	SW-5	Total/NA	Solid	8015B NM	32054
880-18031-42	SW-6	Total/NA	Solid	8015B NM	32054
880-18031-43	SW-7	Total/NA	Solid	8015B NM	32054
880-18031-44	SW-8	Total/NA	Solid	8015B NM	32054
MB 880-32054/1-A	Method Blank	Total/NA	Solid	8015B NM	32054
LCS 880-32054/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	32054
LCSD 880-32054/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	32054
880-17973-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	32054
880-17973-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	32054

Analysis Batch: 32051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18031-1	SC-1	Total/NA	Solid	8015B NM	32055
880-18031-2	SC-2	Total/NA	Solid	8015B NM	32055
880-18031-3	SC-3	Total/NA	Solid	8015B NM	32055

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

GC Semi VOA (Continued)

Analysis Batch: 32051 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18031-4	SC-4	Total/NA	Solid	8015B NM	32055
880-18031-5	SC-5	Total/NA	Solid	8015B NM	32055
880-18031-6	SC-6	Total/NA	Solid	8015B NM	32055
880-18031-7	SC-7	Total/NA	Solid	8015B NM	32055
880-18031-8	SC-8	Total/NA	Solid	8015B NM	32055
880-18031-9	SC-9	Total/NA	Solid	8015B NM	32055
880-18031-10	SC-10	Total/NA	Solid	8015B NM	32055
880-18031-11	SC-11	Total/NA	Solid	8015B NM	32055
880-18031-12	SC-12	Total/NA	Solid	8015B NM	32055
880-18031-13	SC-13	Total/NA	Solid	8015B NM	32055
880-18031-14	SC-14	Total/NA	Solid	8015B NM	32055
880-18031-15	SC-15	Total/NA	Solid	8015B NM	32055
880-18031-16	SC-16	Total/NA	Solid	8015B NM	32055
880-18031-17	SC-17	Total/NA	Solid	8015B NM	32055
880-18031-18	SC-18	Total/NA	Solid	8015B NM	32055
880-18031-19	SC-19	Total/NA	Solid	8015B NM	32055
880-18031-20	SC-20	Total/NA	Solid	8015B NM	32055
880-18031-21	SC-21	Total/NA	Solid	8015B NM	32083
880-18031-22	SC-22	Total/NA	Solid	8015B NM	32083
880-18031-23	SC-23	Total/NA	Solid	8015B NM	32083
880-18031-24	SC-24	Total/NA	Solid	8015B NM	32083
880-18031-25	SC-25	Total/NA	Solid	8015B NM	32083
880-18031-26	SC-26	Total/NA	Solid	8015B NM	32083
880-18031-27	SC-27	Total/NA	Solid	8015B NM	32083
880-18031-28	SC-28	Total/NA	Solid	8015B NM	32083
880-18031-29	SC-29	Total/NA	Solid	8015B NM	32083
880-18031-30	SC-30	Total/NA	Solid	8015B NM	32083
880-18031-31	SC-31	Total/NA	Solid	8015B NM	32083
880-18031-32	SC-32	Total/NA	Solid	8015B NM	32083
880-18031-33	SC-33	Total/NA	Solid	8015B NM	32083
880-18031-34	SC-34	Total/NA	Solid	8015B NM	32083
880-18031-35	SC-35	Total/NA	Solid	8015B NM	32083
880-18031-36	SC-36	Total/NA	Solid	8015B NM	32083
880-18031-37	SW-1	Total/NA	Solid	8015B NM	32083
880-18031-38	SW-2	Total/NA	Solid	8015B NM	32083
880-18031-39	SW-3	Total/NA	Solid	8015B NM	32083
880-18031-40	SW-4	Total/NA	Solid	8015B NM	32083
MB 880-32055/1-A	Method Blank	Total/NA	Solid	8015B NM	32055
MB 880-32083/1-A	Method Blank	Total/NA	Solid	8015B NM	32083
LCS 880-32055/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	32055
LCS 880-32083/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	32083
LCSD 880-32055/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	32055
LCSD 880-32083/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	32083
880-18031-1 MS	SC-1	Total/NA	Solid	8015B NM	32055
880-18031-1 MSD	SC-1	Total/NA	Solid	8015B NM	32055
880-18031-21 MS	SC-21	Total/NA	Solid	8015B NM	32083
880-18031-21 MSD	SC-21	Total/NA	Solid	8015B NM	32083

Prep Batch: 32054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18031-41	SW-5	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

GC Semi VOA (Continued)

Prep Batch: 32054 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18031-42	SW-6	Total/NA	Solid	8015NM Prep	
880-18031-43	SW-7	Total/NA	Solid	8015NM Prep	
880-18031-44	SW-8	Total/NA	Solid	8015NM Prep	
MB 880-32054/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-32054/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-32054/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-17973-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-17973-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 32055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18031-1	SC-1	Total/NA	Solid	8015NM Prep	
880-18031-2	SC-2	Total/NA	Solid	8015NM Prep	
880-18031-3	SC-3	Total/NA	Solid	8015NM Prep	
880-18031-4	SC-4	Total/NA	Solid	8015NM Prep	
880-18031-5	SC-5	Total/NA	Solid	8015NM Prep	
880-18031-6	SC-6	Total/NA	Solid	8015NM Prep	
880-18031-7	SC-7	Total/NA	Solid	8015NM Prep	
880-18031-8	SC-8	Total/NA	Solid	8015NM Prep	
880-18031-9	SC-9	Total/NA	Solid	8015NM Prep	
880-18031-10	SC-10	Total/NA	Solid	8015NM Prep	
880-18031-11	SC-11	Total/NA	Solid	8015NM Prep	
880-18031-12	SC-12	Total/NA	Solid	8015NM Prep	
880-18031-13	SC-13	Total/NA	Solid	8015NM Prep	
880-18031-14	SC-14	Total/NA	Solid	8015NM Prep	
880-18031-15	SC-15	Total/NA	Solid	8015NM Prep	
880-18031-16	SC-16	Total/NA	Solid	8015NM Prep	
880-18031-17	SC-17	Total/NA	Solid	8015NM Prep	
880-18031-18	SC-18	Total/NA	Solid	8015NM Prep	
880-18031-19	SC-19	Total/NA	Solid	8015NM Prep	
880-18031-20	SC-20	Total/NA	Solid	8015NM Prep	
MB 880-32055/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-32055/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-32055/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-18031-1 MS	SC-1	Total/NA	Solid	8015NM Prep	
880-18031-1 MSD	SC-1	Total/NA	Solid	8015NM Prep	

Prep Batch: 32083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18031-21	SC-21	Total/NA	Solid	8015NM Prep	
880-18031-22	SC-22	Total/NA	Solid	8015NM Prep	
880-18031-23	SC-23	Total/NA	Solid	8015NM Prep	
880-18031-24	SC-24	Total/NA	Solid	8015NM Prep	
880-18031-25	SC-25	Total/NA	Solid	8015NM Prep	
880-18031-26	SC-26	Total/NA	Solid	8015NM Prep	
880-18031-27	SC-27	Total/NA	Solid	8015NM Prep	
880-18031-28	SC-28	Total/NA	Solid	8015NM Prep	
880-18031-29	SC-29	Total/NA	Solid	8015NM Prep	
880-18031-30	SC-30	Total/NA	Solid	8015NM Prep	
880-18031-31	SC-31	Total/NA	Solid	8015NM Prep	
880-18031-32	SC-32	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

GC Semi VOA (Continued)

Prep Batch: 32083 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18031-33	SC-33	Total/NA	Solid	8015NM Prep	
880-18031-34	SC-34	Total/NA	Solid	8015NM Prep	
880-18031-35	SC-35	Total/NA	Solid	8015NM Prep	
880-18031-36	SC-36	Total/NA	Solid	8015NM Prep	
880-18031-37	SW-1	Total/NA	Solid	8015NM Prep	
880-18031-38	SW-2	Total/NA	Solid	8015NM Prep	
880-18031-39	SW-3	Total/NA	Solid	8015NM Prep	
880-18031-40	SW-4	Total/NA	Solid	8015NM Prep	
MB 880-32083/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-32083/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-32083/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-18031-21 MS	SC-21	Total/NA	Solid	8015NM Prep	
880-18031-21 MSD	SC-21	Total/NA	Solid	8015NM Prep	

Analysis Batch: 32154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18031-1	SC-1	Total/NA	Solid	8015 NM	
880-18031-2	SC-2	Total/NA	Solid	8015 NM	
880-18031-3	SC-3	Total/NA	Solid	8015 NM	
880-18031-4	SC-4	Total/NA	Solid	8015 NM	
880-18031-5	SC-5	Total/NA	Solid	8015 NM	
880-18031-6	SC-6	Total/NA	Solid	8015 NM	
880-18031-7	SC-7	Total/NA	Solid	8015 NM	
880-18031-8	SC-8	Total/NA	Solid	8015 NM	
880-18031-9	SC-9	Total/NA	Solid	8015 NM	
880-18031-10	SC-10	Total/NA	Solid	8015 NM	
880-18031-11	SC-11	Total/NA	Solid	8015 NM	
880-18031-12	SC-12	Total/NA	Solid	8015 NM	
880-18031-13	SC-13	Total/NA	Solid	8015 NM	
880-18031-14	SC-14	Total/NA	Solid	8015 NM	
880-18031-15	SC-15	Total/NA	Solid	8015 NM	
880-18031-16	SC-16	Total/NA	Solid	8015 NM	
880-18031-17	SC-17	Total/NA	Solid	8015 NM	
880-18031-18	SC-18	Total/NA	Solid	8015 NM	
880-18031-19	SC-19	Total/NA	Solid	8015 NM	
880-18031-20	SC-20	Total/NA	Solid	8015 NM	
880-18031-21	SC-21	Total/NA	Solid	8015 NM	
880-18031-22	SC-22	Total/NA	Solid	8015 NM	
880-18031-23	SC-23	Total/NA	Solid	8015 NM	
880-18031-24	SC-24	Total/NA	Solid	8015 NM	
880-18031-25	SC-25	Total/NA	Solid	8015 NM	
880-18031-26	SC-26	Total/NA	Solid	8015 NM	
880-18031-27	SC-27	Total/NA	Solid	8015 NM	
880-18031-28	SC-28	Total/NA	Solid	8015 NM	
880-18031-29	SC-29	Total/NA	Solid	8015 NM	
880-18031-30	SC-30	Total/NA	Solid	8015 NM	
880-18031-31	SC-31	Total/NA	Solid	8015 NM	
880-18031-32	SC-32	Total/NA	Solid	8015 NM	
880-18031-33	SC-33	Total/NA	Solid	8015 NM	
880-18031-34	SC-34	Total/NA	Solid	8015 NM	
880-18031-35	SC-35	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

GC Semi VOA (Continued)

Analysis Batch: 32154 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18031-36	SC-36	Total/NA	Solid	8015 NM	
880-18031-37	SW-1	Total/NA	Solid	8015 NM	
880-18031-38	SW-2	Total/NA	Solid	8015 NM	
880-18031-39	SW-3	Total/NA	Solid	8015 NM	
880-18031-40	SW-4	Total/NA	Solid	8015 NM	
880-18031-41	SW-5	Total/NA	Solid	8015 NM	
880-18031-42	SW-6	Total/NA	Solid	8015 NM	
880-18031-43	SW-7	Total/NA	Solid	8015 NM	
880-18031-44	SW-8	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 32131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18031-1	SC-1	Soluble	Solid	DI Leach	
880-18031-2	SC-2	Soluble	Solid	DI Leach	
880-18031-3	SC-3	Soluble	Solid	DI Leach	
880-18031-4	SC-4	Soluble	Solid	DI Leach	
880-18031-5	SC-5	Soluble	Solid	DI Leach	
880-18031-6	SC-6	Soluble	Solid	DI Leach	
880-18031-7	SC-7	Soluble	Solid	DI Leach	
880-18031-8	SC-8	Soluble	Solid	DI Leach	
880-18031-9	SC-9	Soluble	Solid	DI Leach	
880-18031-10	SC-10	Soluble	Solid	DI Leach	
880-18031-11	SC-11	Soluble	Solid	DI Leach	
880-18031-12	SC-12	Soluble	Solid	DI Leach	
880-18031-13	SC-13	Soluble	Solid	DI Leach	
880-18031-14	SC-14	Soluble	Solid	DI Leach	
880-18031-15	SC-15	Soluble	Solid	DI Leach	
880-18031-16	SC-16	Soluble	Solid	DI Leach	
880-18031-17	SC-17	Soluble	Solid	DI Leach	
880-18031-18	SC-18	Soluble	Solid	DI Leach	
880-18031-19	SC-19	Soluble	Solid	DI Leach	
880-18031-20	SC-20	Soluble	Solid	DI Leach	
MB 880-32131/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-32131/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-32131/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-18031-1 MS	SC-1	Soluble	Solid	DI Leach	
880-18031-1 MSD	SC-1	Soluble	Solid	DI Leach	
880-18031-11 MS	SC-11	Soluble	Solid	DI Leach	
880-18031-11 MSD	SC-11	Soluble	Solid	DI Leach	

Leach Batch: 32132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18031-21	SC-21	Soluble	Solid	DI Leach	
880-18031-22	SC-22	Soluble	Solid	DI Leach	
880-18031-23	SC-23	Soluble	Solid	DI Leach	
880-18031-24	SC-24	Soluble	Solid	DI Leach	
880-18031-25	SC-25	Soluble	Solid	DI Leach	
880-18031-26	SC-26	Soluble	Solid	DI Leach	
880-18031-27	SC-27	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

HPLC/IC (Continued)

Leach Batch: 32132 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18031-28	SC-28	Soluble	Solid	DI Leach	
880-18031-29	SC-29	Soluble	Solid	DI Leach	
880-18031-30	SC-30	Soluble	Solid	DI Leach	
880-18031-31	SC-31	Soluble	Solid	DI Leach	
880-18031-32	SC-32	Soluble	Solid	DI Leach	
880-18031-33	SC-33	Soluble	Solid	DI Leach	
880-18031-34	SC-34	Soluble	Solid	DI Leach	
880-18031-35	SC-35	Soluble	Solid	DI Leach	
880-18031-36	SC-36	Soluble	Solid	DI Leach	
880-18031-37	SW-1	Soluble	Solid	DI Leach	
880-18031-38	SW-2	Soluble	Solid	DI Leach	
880-18031-39	SW-3	Soluble	Solid	DI Leach	
880-18031-40	SW-4	Soluble	Solid	DI Leach	
MB 880-32132/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-32132/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-32132/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-18031-21 MS	SC-21	Soluble	Solid	DI Leach	
880-18031-21 MSD	SC-21	Soluble	Solid	DI Leach	
880-18031-31 MS	SC-31	Soluble	Solid	DI Leach	
880-18031-31 MSD	SC-31	Soluble	Solid	DI Leach	

Leach Batch: 32133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18031-41	SW-5	Soluble	Solid	DI Leach	
880-18031-42	SW-6	Soluble	Solid	DI Leach	
880-18031-43	SW-7	Soluble	Solid	DI Leach	
880-18031-44	SW-8	Soluble	Solid	DI Leach	
MB 880-32133/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-32133/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-32133/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-18004-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-18004-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-18047-A-2-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-18047-A-2-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 32170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18031-1	SC-1	Soluble	Solid	300.0	32131
880-18031-2	SC-2	Soluble	Solid	300.0	32131
880-18031-3	SC-3	Soluble	Solid	300.0	32131
880-18031-4	SC-4	Soluble	Solid	300.0	32131
880-18031-5	SC-5	Soluble	Solid	300.0	32131
880-18031-6	SC-6	Soluble	Solid	300.0	32131
880-18031-7	SC-7	Soluble	Solid	300.0	32131
880-18031-8	SC-8	Soluble	Solid	300.0	32131
880-18031-9	SC-9	Soluble	Solid	300.0	32131
880-18031-10	SC-10	Soluble	Solid	300.0	32131
880-18031-11	SC-11	Soluble	Solid	300.0	32131
880-18031-12	SC-12	Soluble	Solid	300.0	32131
880-18031-13	SC-13	Soluble	Solid	300.0	32131
880-18031-14	SC-14	Soluble	Solid	300.0	32131

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

HPLC/IC (Continued)

Analysis Batch: 32170 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18031-15	SC-15	Soluble	Solid	300.0	32131
880-18031-16	SC-16	Soluble	Solid	300.0	32131
880-18031-17	SC-17	Soluble	Solid	300.0	32131
880-18031-18	SC-18	Soluble	Solid	300.0	32131
880-18031-19	SC-19	Soluble	Solid	300.0	32131
880-18031-20	SC-20	Soluble	Solid	300.0	32131
MB 880-32131/1-A	Method Blank	Soluble	Solid	300.0	32131
LCS 880-32131/2-A	Lab Control Sample	Soluble	Solid	300.0	32131
LCSD 880-32131/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	32131
880-18031-1 MS	SC-1	Soluble	Solid	300.0	32131
880-18031-1 MSD	SC-1	Soluble	Solid	300.0	32131
880-18031-11 MS	SC-11	Soluble	Solid	300.0	32131
880-18031-11 MSD	SC-11	Soluble	Solid	300.0	32131

Analysis Batch: 32171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18031-21	SC-21	Soluble	Solid	300.0	32132
880-18031-22	SC-22	Soluble	Solid	300.0	32132
880-18031-23	SC-23	Soluble	Solid	300.0	32132
880-18031-24	SC-24	Soluble	Solid	300.0	32132
880-18031-25	SC-25	Soluble	Solid	300.0	32132
880-18031-26	SC-26	Soluble	Solid	300.0	32132
880-18031-27	SC-27	Soluble	Solid	300.0	32132
880-18031-28	SC-28	Soluble	Solid	300.0	32132
880-18031-29	SC-29	Soluble	Solid	300.0	32132
880-18031-30	SC-30	Soluble	Solid	300.0	32132
880-18031-31	SC-31	Soluble	Solid	300.0	32132
880-18031-32	SC-32	Soluble	Solid	300.0	32132
880-18031-33	SC-33	Soluble	Solid	300.0	32132
880-18031-34	SC-34	Soluble	Solid	300.0	32132
880-18031-35	SC-35	Soluble	Solid	300.0	32132
880-18031-36	SC-36	Soluble	Solid	300.0	32132
880-18031-37	SW-1	Soluble	Solid	300.0	32132
880-18031-38	SW-2	Soluble	Solid	300.0	32132
880-18031-39	SW-3	Soluble	Solid	300.0	32132
880-18031-40	SW-4	Soluble	Solid	300.0	32132
MB 880-32132/1-A	Method Blank	Soluble	Solid	300.0	32132
LCS 880-32132/2-A	Lab Control Sample	Soluble	Solid	300.0	32132
LCSD 880-32132/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	32132
880-18031-21 MS	SC-21	Soluble	Solid	300.0	32132
880-18031-21 MSD	SC-21	Soluble	Solid	300.0	32132
880-18031-31 MS	SC-31	Soluble	Solid	300.0	32132
880-18031-31 MSD	SC-31	Soluble	Solid	300.0	32132

Analysis Batch: 32172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18031-41	SW-5	Soluble	Solid	300.0	32133
880-18031-42	SW-6	Soluble	Solid	300.0	32133
880-18031-43	SW-7	Soluble	Solid	300.0	32133
880-18031-44	SW-8	Soluble	Solid	300.0	32133
MB 880-32133/1-A	Method Blank	Soluble	Solid	300.0	32133

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

HPLC/IC (Continued)

Analysis Batch: 32172 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-32133/2-A	Lab Control Sample	Soluble	Solid	300.0	32133
LCSD 880-32133/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	32133
880-18004-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	32133
880-18004-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	32133
880-18047-A-2-D MS	Matrix Spike	Soluble	Solid	300.0	32133
880-18047-A-2-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	32133

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-1

Lab Sample ID: 880-18031-1

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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	32053	08/12/22 13:10	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32046	08/12/22 19:19	SM	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32055	08/12/22 09:14	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/12/22 21:51	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	32131	08/15/22 08:55	KS	EET MID
Soluble	Analysis	300.0		1			32170	08/15/22 16:41	CH	EET MID

Client Sample ID: SC-2

Lab Sample ID: 880-18031-2

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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			4.99 g	4.99 g	32426	08/18/22 12:46	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32427	08/18/22 16:21	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32055	08/12/22 09:14	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/12/22 22:56	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	32131	08/15/22 08:55	KS	EET MID
Soluble	Analysis	300.0		1			32170	08/15/22 17:04	CH	EET MID

Client Sample ID: SC-3

Lab Sample ID: 880-18031-3

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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			4.99 g	4.99 g	32381	08/17/22 16:59	AJ	EET MID
Total/NA	Analysis	8021B		1			32367	08/18/22 17:59	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32055	08/12/22 09:14	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/12/22 23:18	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	32131	08/15/22 08:55	KS	EET MID
Soluble	Analysis	300.0		1			32170	08/15/22 17:12	CH	EET MID

Client Sample ID: SC-4

Lab Sample ID: 880-18031-4

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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	4.98 g	32381	08/17/22 16:59	AJ	EET MID
Total/NA	Analysis	8021B		1			32367	08/18/22 18:26	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-4

Lab Sample ID: 880-18031-4

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	32055	08/12/22 09:14	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/12/22 23:39	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	32131	08/15/22 08:55	KS	EET MID
Soluble	Analysis	300.0		1			32170	08/15/22 17:20	CH	EET MID

Client Sample ID: SC-5

Lab Sample ID: 880-18031-5

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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	5.02 g	32381	08/17/22 16:59	AJ	EET MID
Total/NA	Analysis	8021B		1			32367	08/18/22 18:52	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	32055	08/12/22 09:14	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/13/22 00:01	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	32131	08/15/22 08:55	KS	EET MID
Soluble	Analysis	300.0		1			32170	08/15/22 17:28	CH	EET MID

Client Sample ID: SC-6

Lab Sample ID: 880-18031-6

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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	5.02 g	32381	08/17/22 16:59	AJ	EET MID
Total/NA	Analysis	8021B		1			32367	08/18/22 19:19	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32055	08/12/22 09:14	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/13/22 00:23	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	32131	08/15/22 08:55	KS	EET MID
Soluble	Analysis	300.0		1			32170	08/16/22 07:56	CH	EET MID

Client Sample ID: SC-7

Lab Sample ID: 880-18031-7

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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	32112	08/12/22 17:34	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32427	08/19/22 04:59	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32055	08/12/22 09:14	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/13/22 00:44	SM	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-7

Lab Sample ID: 880-18031-7

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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			4.96 g	50 mL	32131	08/15/22 08:55	KS	EET MID
Soluble	Analysis	300.0		1			32170	08/16/22 08:04	CH	EET MID

Client Sample ID: SC-8

Lab Sample ID: 880-18031-8

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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	32112	08/12/22 17:34	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32427	08/19/22 04:39	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32055	08/12/22 09:14	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/13/22 01:06	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	32131	08/15/22 08:55	KS	EET MID
Soluble	Analysis	300.0		1			32170	08/16/22 08:12	CH	EET MID

Client Sample ID: SC-9

Lab Sample ID: 880-18031-9

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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	32112	08/12/22 17:34	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32427	08/19/22 04:18	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32055	08/12/22 09:14	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/13/22 01:27	SM	EET MID
Soluble	Leach	DI Leach			497 g	50 mL	32131	08/15/22 08:55	KS	EET MID
Soluble	Analysis	300.0		1			32170	08/16/22 08:20	CH	EET MID

Client Sample ID: SC-10

Lab Sample ID: 880-18031-10

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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	5.02 g	32426	08/18/22 12:46	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32427	08/18/22 19:05	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32055	08/12/22 09:14	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/13/22 01:49	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	32131	08/15/22 08:55	KS	EET MID
Soluble	Analysis	300.0		1			32170	08/16/22 08:27	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-11

Lab Sample ID: 880-18031-11

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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			4.97 g	5 mL	32110	08/12/22 17:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32438	08/19/22 00:03	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32055	08/12/22 09:14	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/13/22 02:32	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	32131	08/15/22 08:55	KS	EET MID
Soluble	Analysis	300.0		1			32170	08/16/22 08:35	CH	EET MID

Client Sample ID: SC-12

Lab Sample ID: 880-18031-12

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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	5.02 g	32426	08/18/22 12:46	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32427	08/18/22 17:02	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32055	08/12/22 09:14	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/13/22 02:54	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	32131	08/15/22 08:55	KS	EET MID
Soluble	Analysis	300.0		1			32170	08/16/22 08:59	CH	EET MID

Client Sample ID: SC-13

Lab Sample ID: 880-18031-13

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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	5.00 g	32426	08/18/22 12:46	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32427	08/18/22 17:22	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32055	08/12/22 09:14	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/13/22 03:15	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	32131	08/15/22 08:55	KS	EET MID
Soluble	Analysis	300.0		1			32170	08/16/22 09:07	CH	EET MID

Client Sample ID: SC-14

Lab Sample ID: 880-18031-14

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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	5.00 g	32426	08/18/22 12:46	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32427	08/18/22 17:43	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-14

Lab Sample ID: 880-18031-14

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32055	08/12/22 09:14	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/13/22 03:37	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	32131	08/15/22 08:55	KS	EET MID
Soluble	Analysis	300.0		1			32170	08/16/22 09:30	CH	EET MID

Client Sample ID: SC-15

Lab Sample ID: 880-18031-15

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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			4.99 g	4.99 g	32426	08/18/22 12:46	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32427	08/18/22 18:03	AJ	EET MID
Total/NA	Prep	5035			4.99 g	4.99 g	32516	08/19/22 13:53	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32427	08/19/22 15:55	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32055	08/12/22 09:14	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/13/22 03:58	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	32131	08/15/22 08:55	KS	EET MID
Soluble	Analysis	300.0		1			32170	08/16/22 09:38	CH	EET MID

Client Sample ID: SC-16

Lab Sample ID: 880-18031-16

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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	4.96 g	32426	08/18/22 12:46	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32427	08/18/22 18:24	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32055	08/12/22 09:14	DM	EET MID
Total/NA	Analysis	8015B NM		5			32051	08/13/22 09:08	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	32131	08/15/22 08:55	KS	EET MID
Soluble	Analysis	300.0		1			32170	08/16/22 09:46	CH	EET MID

Client Sample ID: SC-17

Lab Sample ID: 880-18031-17

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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	5.01 g	32426	08/18/22 12:46	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32427	08/18/22 18:44	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-17

Lab Sample ID: 880-18031-17

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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	8015NM Prep			10.02 g	10 mL	32055	08/12/22 09:14	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/13/22 04:41	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	32131	08/15/22 08:55	KS	EET MID
Soluble	Analysis	300.0		1			32170	08/16/22 09:54	CH	EET MID

Client Sample ID: SC-18

Lab Sample ID: 880-18031-18

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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			4.99 g	5 mL	32100	08/12/22 13:14	EL	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	32427	08/19/22 11:15	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32055	08/12/22 09:14	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/13/22 05:03	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	32131	08/15/22 08:55	KS	EET MID
Soluble	Analysis	300.0		1			32170	08/16/22 10:02	CH	EET MID

Client Sample ID: SC-19

Lab Sample ID: 880-18031-19

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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	5.01 g	32426	08/18/22 12:46	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32427	08/18/22 21:16	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32055	08/12/22 09:14	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/13/22 05:24	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	32131	08/15/22 08:55	KS	EET MID
Soluble	Analysis	300.0		1			32170	08/16/22 10:10	CH	EET MID

Client Sample ID: SC-20

Lab Sample ID: 880-18031-20

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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	5.01 g	32426	08/18/22 12:46	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32427	08/18/22 21:36	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	32055	08/12/22 09:14	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/13/22 05:46	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-20

Lab Sample ID: 880-18031-20

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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			4.98 g	50 mL	32131	08/15/22 08:55	KS	EET MID
Soluble	Analysis	300.0		1			32170	08/16/22 10:17	CH	EET MID

Client Sample ID: SC-21

Lab Sample ID: 880-18031-21

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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	5.01 g	32434	08/18/22 14:24	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32438	08/18/22 17:10	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32083	08/12/22 10:16	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/12/22 11:48	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	32132	08/15/22 08:57	KS	EET MID
Soluble	Analysis	300.0		1			32171	08/16/22 14:01	CH	EET MID

Client Sample ID: SC-22

Lab Sample ID: 880-18031-22

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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	5.00 g	32426	08/18/22 12:46	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32427	08/18/22 21:56	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32083	08/12/22 10:16	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/12/22 12:53	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	32132	08/15/22 08:57	KS	EET MID
Soluble	Analysis	300.0		1			32171	08/16/22 14:25	CH	EET MID

Client Sample ID: SC-23

Lab Sample ID: 880-18031-23

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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	5.00 g	32426	08/18/22 12:46	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32427	08/18/22 22:17	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32083	08/12/22 10:16	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/12/22 13:14	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	32132	08/15/22 08:57	KS	EET MID
Soluble	Analysis	300.0		1			32171	08/16/22 14:32	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-24

Lab Sample ID: 880-18031-24

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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			4.99 g	4.98 g	32426	08/18/22 12:46	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32427	08/18/22 22:37	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	32083	08/12/22 10:16	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/12/22 13:36	SM	EET MID
Soluble	Leach	DI Leach			5.0 g	50 mL	32132	08/15/22 08:57	KS	EET MID
Soluble	Analysis	300.0		1			32171	08/16/22 14:40	CH	EET MID

Client Sample ID: SC-25

Lab Sample ID: 880-18031-25

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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	4.98 g	32426	08/18/22 12:46	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32427	08/18/22 22:58	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	32083	08/12/22 10:16	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/12/22 13:57	SM	EET MID
Soluble	Leach	DI Leach			5.0 g	50 mL	32132	08/15/22 08:57	KS	EET MID
Soluble	Analysis	300.0		1			32171	08/16/22 14:48	CH	EET MID

Client Sample ID: SC-26

Lab Sample ID: 880-18031-26

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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			4.99 g	5.02 g	32426	08/18/22 12:46	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32427	08/18/22 23:18	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32083	08/12/22 10:16	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/12/22 14:19	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	32132	08/15/22 08:57	KS	EET MID
Soluble	Analysis	300.0		1			32171	08/16/22 15:12	CH	EET MID

Client Sample ID: SC-27

Lab Sample ID: 880-18031-27

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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	5.01 g	32426	08/18/22 12:46	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32427	08/18/22 23:39	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-27

Date Collected: 08/11/22 00:00

Date Received: 08/12/22 08:20

Lab Sample ID: 880-18031-27

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32083	08/12/22 10:16	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/12/22 14:40	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	32132	08/15/22 08:57	KS	EET MID
Soluble	Analysis	300.0		1			32171	08/16/22 15:20	CH	EET MID

Client Sample ID: SC-28

Date Collected: 08/11/22 00:00

Date Received: 08/12/22 08:20

Lab Sample ID: 880-18031-28

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5.01 g	32516	08/19/22 13:53	AJ	EET MID
Total/NA	Analysis	8021B		200	5 mL	5 mL	32427	08/19/22 16:36	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32083	08/12/22 10:16	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/12/22 15:02	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	32132	08/15/22 08:57	KS	EET MID
Soluble	Analysis	300.0		1			32171	08/16/22 15:27	CH	EET MID

Client Sample ID: SC-29

Date Collected: 08/11/22 00:00

Date Received: 08/12/22 08:20

Lab Sample ID: 880-18031-29

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	32100	08/12/22 13:14	EL	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	32427	08/19/22 11:56	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32083	08/12/22 10:16	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/12/22 15:45	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	32132	08/15/22 08:57	KS	EET MID
Soluble	Analysis	300.0		1			32171	08/16/22 15:35	CH	EET MID

Client Sample ID: SC-30

Date Collected: 08/11/22 00:00

Date Received: 08/12/22 08:20

Lab Sample ID: 880-18031-30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	4.99 g	32434	08/18/22 14:24	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32438	08/19/22 00:24	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	32083	08/12/22 10:16	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/12/22 16:06	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-30

Lab Sample ID: 880-18031-30

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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			5.00 g	50 mL	32132	08/15/22 08:57	KS	EET MID
Soluble	Analysis	300.0		1			32171	08/16/22 15:43	CH	EET MID

Client Sample ID: SC-31

Lab Sample ID: 880-18031-31

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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			4.99 g	4.99 g	32434	08/18/22 14:24	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32438	08/18/22 19:34	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	32083	08/12/22 10:16	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/12/22 16:50	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	32132	08/15/22 08:57	KS	EET MID
Soluble	Analysis	300.0		1			32171	08/16/22 15:51	CH	EET MID

Client Sample ID: SC-32

Lab Sample ID: 880-18031-32

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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	5.00 g	32434	08/18/22 14:24	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32438	08/18/22 19:14	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32083	08/12/22 10:16	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/12/22 17:12	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	32132	08/15/22 08:57	KS	EET MID
Soluble	Analysis	300.0		1			32171	08/16/22 17:41	CH	EET MID

Client Sample ID: SC-33

Lab Sample ID: 880-18031-33

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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	5.01 g	32434	08/18/22 14:24	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32438	08/18/22 18:53	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32083	08/12/22 10:16	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/12/22 17:33	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	32132	08/15/22 08:57	KS	EET MID
Soluble	Analysis	300.0		1			32171	08/16/22 17:49	CH	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SC-34

Lab Sample ID: 880-18031-34

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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			4.97 g	4.97 g	32434	08/18/22 14:24	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32438	08/18/22 18:32	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32083	08/12/22 10:16	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/12/22 17:55	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	32132	08/15/22 08:57	KS	EET MID
Soluble	Analysis	300.0		1			32171	08/17/22 12:49	CH	EET MID

Client Sample ID: SC-35

Lab Sample ID: 880-18031-35

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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	5.02 g	32434	08/18/22 14:24	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32438	08/18/22 19:55	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32083	08/12/22 10:16	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/12/22 18:16	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	32132	08/15/22 08:57	KS	EET MID
Soluble	Analysis	300.0		1			32171	08/16/22 16:54	CH	EET MID

Client Sample ID: SC-36

Lab Sample ID: 880-18031-36

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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	4.98 g	32434	08/18/22 14:24	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32438	08/19/22 00:44	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32083	08/12/22 10:16	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/12/22 18:37	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	32132	08/15/22 08:57	KS	EET MID
Soluble	Analysis	300.0		1			32171	08/16/22 17:02	CH	EET MID

Client Sample ID: SW-1

Lab Sample ID: 880-18031-37

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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	5.01 g	32434	08/18/22 14:24	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32438	08/18/22 21:39	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SW-1

Lab Sample ID: 880-18031-37

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32083	08/12/22 10:16	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/12/22 18:59	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	32132	08/15/22 08:57	KS	EET MID
Soluble	Analysis	300.0		1			32171	08/16/22 17:10	CH	EET MID

Client Sample ID: SW-2

Lab Sample ID: 880-18031-38

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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	5.00 g	32434	08/18/22 14:24	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32438	08/18/22 21:59	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32083	08/12/22 10:16	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/12/22 19:21	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	32132	08/15/22 08:57	KS	EET MID
Soluble	Analysis	300.0		1			32171	08/17/22 12:57	CH	EET MID

Client Sample ID: SW-3

Lab Sample ID: 880-18031-39

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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			4.99 g	4.99 g	32434	08/18/22 14:24	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32438	08/18/22 22:20	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32083	08/12/22 10:16	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/12/22 19:43	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	32132	08/15/22 08:57	KS	EET MID
Soluble	Analysis	300.0		1			32171	08/17/22 13:05	CH	EET MID

Client Sample ID: SW-4

Lab Sample ID: 880-18031-40

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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			4.97 g	4.97 g	32434	08/18/22 14:24	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32438	08/18/22 22:41	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	32083	08/12/22 10:16	DM	EET MID
Total/NA	Analysis	8015B NM		1			32051	08/12/22 20:04	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SW-4

Lab Sample ID: 880-18031-40

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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			4.97 g	50 mL	32132	08/15/22 08:57	KS	EET MID
Soluble	Analysis	300.0		1			32171	08/17/22 13:13	CH	EET MID

Client Sample ID: SW-5

Lab Sample ID: 880-18031-41

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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			4.99 g	4.99 g	32434	08/18/22 14:24	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32438	08/18/22 23:01	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32054	08/12/22 08:52	DM	EET MID
Total/NA	Analysis	8015B NM		1			32049	08/12/22 17:33	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	32133	08/15/22 08:58	KS	EET MID
Soluble	Analysis	300.0		1			32172	08/17/22 08:53	CH	EET MID

Client Sample ID: SW-6

Lab Sample ID: 880-18031-42

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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	5.01 g	32434	08/18/22 14:24	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32438	08/18/22 23:22	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32054	08/12/22 08:52	DM	EET MID
Total/NA	Analysis	8015B NM		1			32049	08/12/22 17:55	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	32133	08/15/22 08:58	KS	EET MID
Soluble	Analysis	300.0		1			32172	08/17/22 12:02	CH	EET MID

Client Sample ID: SW-7

Lab Sample ID: 880-18031-43

Date Collected: 08/11/22 00:00

Matrix: Solid

Date Received: 08/12/22 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	5.01 g	32434	08/18/22 14:24	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32438	08/18/22 20:16	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32054	08/12/22 08:52	DM	EET MID
Total/NA	Analysis	8015B NM		1			32049	08/12/22 18:16	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	32133	08/15/22 08:58	KS	EET MID
Soluble	Analysis	300.0		1			32172	08/17/22 09:09	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Client Sample ID: SW-8
Date Collected: 08/11/22 00:00
Date Received: 08/12/22 08:20

Lab Sample ID: 880-18031-44
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5.01 g	32434	08/18/22 14:24	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32438	08/18/22 23:42	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			32164	08/15/22 11:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			32154	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32054	08/12/22 08:52	DM	EET MID
Total/NA	Analysis	8015B NM		1			32049	08/12/22 18:37	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	32133	08/15/22 08:58	KS	EET MID
Soluble	Analysis	300.0		1			32172	08/17/22 09:17	CH	EET MID

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

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18031-1
SDG: 1246

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-18031-1	SC-1	Solid	08/11/22 00:00	08/12/22 08:20	0.5 - 1
880-18031-2	SC-2	Solid	08/11/22 00:00	08/12/22 08:20	0.5 - 1
880-18031-3	SC-3	Solid	08/11/22 00:00	08/12/22 08:20	0.5 - 1
880-18031-4	SC-4	Solid	08/11/22 00:00	08/12/22 08:20	0.5 - 1
880-18031-5	SC-5	Solid	08/11/22 00:00	08/12/22 08:20	0.5 - 1
880-18031-6	SC-6	Solid	08/11/22 00:00	08/12/22 08:20	0.5 - 1
880-18031-7	SC-7	Solid	08/11/22 00:00	08/12/22 08:20	0.5 - 1
880-18031-8	SC-8	Solid	08/11/22 00:00	08/12/22 08:20	0.5 - 1
880-18031-9	SC-9	Solid	08/11/22 00:00	08/12/22 08:20	0.5 - 1
880-18031-10	SC-10	Solid	08/11/22 00:00	08/12/22 08:20	0.5 - 1
880-18031-11	SC-11	Solid	08/11/22 00:00	08/12/22 08:20	0.5 - 1
880-18031-12	SC-12	Solid	08/11/22 00:00	08/12/22 08:20	0.5 - 1
880-18031-13	SC-13	Solid	08/11/22 00:00	08/12/22 08:20	0.5 - 1
880-18031-14	SC-14	Solid	08/11/22 00:00	08/12/22 08:20	0.5 - 1
880-18031-15	SC-15	Solid	08/11/22 00:00	08/12/22 08:20	0.5 - 1
880-18031-16	SC-16	Solid	08/11/22 00:00	08/12/22 08:20	0.5 - 1
880-18031-17	SC-17	Solid	08/11/22 00:00	08/12/22 08:20	0.5 - 1
880-18031-18	SC-18	Solid	08/11/22 00:00	08/12/22 08:20	0.5 - 1
880-18031-19	SC-19	Solid	08/11/22 00:00	08/12/22 08:20	0.5 - 1
880-18031-20	SC-20	Solid	08/11/22 00:00	08/12/22 08:20	0.5 - 1
880-18031-21	SC-21	Solid	08/11/22 00:00	08/12/22 08:20	0.5 - 1
880-18031-22	SC-22	Solid	08/11/22 00:00	08/12/22 08:20	0.5 - 1
880-18031-23	SC-23	Solid	08/11/22 00:00	08/12/22 08:20	0.5 - 1
880-18031-24	SC-24	Solid	08/11/22 00:00	08/12/22 08:20	0.5 - 1
880-18031-25	SC-25	Solid	08/11/22 00:00	08/12/22 08:20	0.5 - 1
880-18031-26	SC-26	Solid	08/11/22 00:00	08/12/22 08:20	0.5 - 1
880-18031-27	SC-27	Solid	08/11/22 00:00	08/12/22 08:20	0.5 - 1
880-18031-28	SC-28	Solid	08/11/22 00:00	08/12/22 08:20	0.5 - 1
880-18031-29	SC-29	Solid	08/11/22 00:00	08/12/22 08:20	0.5 - 1
880-18031-30	SC-30	Solid	08/11/22 00:00	08/12/22 08:20	0.5 - 1
880-18031-31	SC-31	Solid	08/11/22 00:00	08/12/22 08:20	0.5 - 1
880-18031-32	SC-32	Solid	08/11/22 00:00	08/12/22 08:20	0.5 - 1
880-18031-33	SC-33	Solid	08/11/22 00:00	08/12/22 08:20	0.5 - 1
880-18031-34	SC-34	Solid	08/11/22 00:00	08/12/22 08:20	0.5 - 1
880-18031-35	SC-35	Solid	08/11/22 00:00	08/12/22 08:20	0.5 - 1
880-18031-36	SC-36	Solid	08/11/22 00:00	08/12/22 08:20	0.5 - 1
880-18031-37	SW-1	Solid	08/11/22 00:00	08/12/22 08:20	0.5
880-18031-38	SW-2	Solid	08/11/22 00:00	08/12/22 08:20	0.5
880-18031-39	SW-3	Solid	08/11/22 00:00	08/12/22 08:20	0.5
880-18031-40	SW-4	Solid	08/11/22 00:00	08/12/22 08:20	0.5
880-18031-41	SW-5	Solid	08/11/22 00:00	08/12/22 08:20	0.5
880-18031-42	SW-6	Solid	08/11/22 00:00	08/12/22 08:20	0.5
880-18031-43	SW-7	Solid	08/11/22 00:00	08/12/22 08:20	0.5
880-18031-44	SW-8	Solid	08/11/22 00:00	08/12/22 08:20	0.5



Environment Testing
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Chain of Custody

Work Order No: 18031

www.xenco.com Page of

Project Manager	Tom Carlson	Bill to (if different)	ESRR
Company Name	Earth Systems R&R	Company Name	
Address	4115 S CR 1297	Address	
City, State ZIP	Odessa, Texas, 79765	City, State ZIP	
Phone	432-894-6385	Email	tcarlson@earthsys.net

Work Order Comments	
Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting Level I ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables	EDD ☐ ADAPT ☐ Other

Project Name	CTB 130	Turn Around	Pres. Code	ANALYSIS REQUEST																Preservative Codes							
Project Number	1246	☐ Routine ☒ Rush																		None NO	DI Water H ₂ O						
Project Location		Due Date	ASAP																	Cool Cool	MeOH Me						
Sampler's Name	Tom Carlson	TAT starts the day received by the lab if received by 4:30pm																		HCL HC	HNO ₃ HN						
PO #																				H ₂ SO ₄ H ₂	NaOH Na						
SAMPLE RECEIPT	Temp Blank	Yes ☒ No ☐	Wet Ice	Yes ☒ No ☐																	H ₃ PO ₄ HP						
	Samples Received Intact	Yes ☒ No ☐	Thermometer ID																		NaHSO ₄ NABIS						
	Cooler Custody Seals	Yes ☒ No ☐	Correction Factor																		Na ₂ S ₂ O ₃ NaSO ₃						
	Sample Custody Seals	Yes ☒ No ☐	Temperature Reading																		Zn Acetate+NaOH Zn						
	Total Containers		Corrected Temperature																		NaOH+Ascorbic Acid SAPC						
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Chlorides	TPH 8015	BTEX																	Sample Comments	
SC-1	S	8/11/2022		0.5-1	Comp	1	X	X	X																		
SC-2	S	8/11/2022		0.5-1	Comp	1	X	X	X																		
SC-3	S	8/11/2022		0.5-1	Comp	1	X	X	X																		
SC-4	S	8/11/2022		0.5-1	Comp	1	X	X	X																		
SC-5	S	8/11/2022		0.5-1	Comp	1	X	X	X																		
SC-6	S	8/11/2022		0.5-1	Comp	1	X	X	X																		
SC-7	S	8/11/2022		0.5-1	Comp	1	X	X	X																		
SC-8	S	8/11/2022		0.5-1	Comp	1	X	X	X																		



880-18031 Chain of Custody

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCCLP / SPLP 6010	8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg 1631 / 2451 / 7470 / 7471

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		8/12/22			
		8:20			



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Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Chain of Custody

Work Order No: 1800

www.xenco.com Page _____ of _____

Project Manager	Tom Carlson	Bill to: (if different)	ESRR
Company Name	Earth Systems R&R	Company Name	
Address	4115 S CR 1297	Address	
City, State ZIP	Odessa, Texas, 79765	City, State ZIP	
Phone	432-894-6385	Email	tcarlson@earthsys.net

Work Order Comments	
Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting Level	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables	EDD ☐ ADAPT ☐ Other ☐

				ANALYSIS REQUEST										Preservative Codes							
Project Name		C1B 130		Turn Around																	
Project Number		1246		☐ Routine ☒ Rush												None NO DI Water H ₂ O					
Project Location				Due Date		ASAP										Cool Cool MeOH Me					
Sampler's Name		Tom Carlson				TAT starts the day received by the lab if received by 4:30pm										HCL HCl HNO ₃ HN					
PO #																H ₂ SO ₄ H ₂ NaOH Na					
SAMPLE RECEIPT				Temp Blank	Yes	No	Thermometer ID											H ₃ PO ₄ HP			
Samples Received Intact				Yes	No	Correction Factor											NaHSO ₄ NABIS				
Cooler Custody Seals				Yes	No	Temperature Reading											Na ₂ S ₂ O ₃ NaSO ₃				
Sample Custody Seals				Yes	No	Corrected Temperature											Zn Acetate+NaOH Zn				
Total Containers																	NaOH+Ascorbic Acid SAPC				
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont											Sample Comments			
SC-9		S	8/11/2022		0.5 - 1	Comp	1	Chlorides	TPH 8015	BTEX											
SC-10		S	8/11/2022		0.5 - 1	Comp	1	X	X	X											
SC-11		S	8/11/2022		0.5 - 1	Comp	1	X	X	X											
SC-12		S	8/11/2022		0.5 - 1	Comp	1	X	X	X											
SC-13		S	8/11/2022		0.5 - 1	Comp	1	X	X	X											
SC-14		S	8/11/2022		0.5 - 1	Comp	1	X	X	X											
SC-15		S	8/11/2022		0.5 - 1	Comp	1	X	X	X											
SC-16		S	8/11/2022		0.5 - 1	Comp	1	X	X	X											

Total 200.7 / 6010	200.8 / 6020:	
8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se	Ag SiO ₂ Na Sr Ti Sn U V Zn
TCLP / SPLP 6010	8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg 1631 / 245 1 / 7470 / 7471

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Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 		8/12/22	2		
3		8-26	4		
5			6		



Environment Testing
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Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Chain of Custody

Work Order No: 10031

www.xenoco.com Page ____ of ____

Project Manager	Tom Carlson	Bill to: (if different)	ESRR
Company Name	Earth Systems R&R	Company Name	
Address	4115 S CR 1297	Address	
City, State ZIP	Odessa, Texas, 79765	City, State ZIP	
Phone	432-894-6385	Email	tcarlson@earthsys.net

Work Order Comments Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund State of Project: _____ Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐ Deliverables EDD ☐ ADAPT ☐ Other: _____	
--	--

Project Name	CTB 130	Turn Around	Pres. Code	ANALYSIS REQUEST																Preservative Codes			
Project Number	1246	☐ Routine ☒ Rush																		None NO	DI Water H ₂ O		
Project Location		Due Date	ASAP																	Cool Cool	MeOH Me		
Sampler's Name	Tom Carlson	TAT starts the day received by the lab if received by 4:30pm																		HCL HC	HNO ₃ HN		
PO #		Temp Blank	Yes No	Wet Ice	Yes No																	H ₂ SO ₄ H ₂	NaOH Na
SAMPLE RECEIPT		Thermometer ID																				H ₃ PO ₄ HP	
Samples Received Intact.	Yes No	Correction Factor																		NaHSO ₄ NABIS			
Cooler Custody Seals	Yes No N/A	Temperature Reading																		Na ₂ S ₂ O ₃ NaSO ₃			
Sample Custody Seals	Yes No N/A	Corrected Temperature																		Zn Acetate+NaOH Zn			
Total Containers																				NaOH+Ascorbic Acid SANC			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Chlorides	TPH 8015	BTEX																	Sample Comments
SC-17	S	8/11/2022		0.5 - 1	Comp	1	X	X	X																	
SC-18	S	8/11/2022		0.5 - 1	Comp	1	X	X	X																	
SC-19	S	8/11/2022		0.5 - 1	Comp	1	X	X	X																	
SC-20	S	8/11/2022		0.5 - 1	Comp	1	X	X	X																	
SC-21	S	8/11/2022		0.5 - 1	Comp	1	X	X	X																	
SC-22	S	8/11/2022		0.5 - 1	Comp	1	X	X	X																	
SC-23	S	8/11/2022		0.5 - 1	Comp	1	X	X	X																	
SC-24	S	8/11/2022		0.5 - 1	Comp	1	X	X	X																	

Total 200.7 / 6010 200.8 / 6020:

Circle Method(s) and Metal(s) to be analyzed

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 2451 / 7470 / 7471

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Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	8/12/22			
		8:20			



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Xenco

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Chain of Custody

Work Order No: 18031

www.xenco.com Page of

Project Manager	Tom Carlson	Bill to (if different)	ESRR
Company Name	Earth Systems R&R	Company Name	
Address	4115 S CR 1297	Address	
City, State ZIP	Odessa, Texas, 79765	City, State ZIP	
Phone	432-894-6385	Email	tcarlson@earthsys.net

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables EDD ☐ ADAPT ☐ Other	

Project Name	CTB 130	Turn Around	Pres. Code	ANALYSIS REQUEST																Preservative Codes							
Project Number	1246	☐ Routine ☒ Rush																		None NO	DI Water H ₂ O						
Project Location		Due Date	ASAP																	Cool Cool	MeOH Me						
Sampler's Name	Tom Carlson	TAT starts the day received by the lab if received by 4:30pm																		HCL HC	HNO ₃ HN						
PO #:																				H ₂ SO ₄ H ₂	NaOH Na						
SAMPLE RECEIPT	Temp Blank	Yes No	Wet Ice	Yes No																	H ₃ PO ₄ HP						
	Samples Received Intact:	Yes No	Thermometer ID																		NaHSO ₄ NABIS						
	Cooler Custody Seals	Yes No	Correction Factor																		Na ₂ S ₂ O ₃ NaSO ₃						
	Sample Custody Seals	Yes No	Temperature Reading																		Zn Acetate+NaOH Zn						
Total Containers		Corrected Temperature																		NaOH+Ascorbic Acid SAPC							
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Chlorides	TPH 8015	BTEX																	Sample Comments	
	SC-25	S	8/11/2022		0.5 - 1	Comp 1	X	X	X																		
	SC-26	S	8/11/2022		0.5 - 1	Comp 1	X	X	X																		
	SC-27	S	8/11/2022		0.5 - 1	Comp 1	X	X	X																		
	SC-28	S	8/11/2022		0.5 - 1	Comp 1	X	X	X																		
	SC-29	S	8/11/2022		0.5 - 1	Comp 1	X	X	X																		
	SC-30	S	8/11/2022		0.5 - 1	Comp 1	X	X	X																		
	SC-31	S	8/11/2022		0.5 - 1	Comp 1	X	X	X																		
	SC-32	S	8/11/2022		0.5 - 1	Comp 1	X	X	X																		
	Total 200.7 / 6010 200.8 / 6020:																										
	8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo N K Se Ag SiO ₂ Na Sr Ti Sn U V Zn																										
	Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo N Se Ag Ti U Hg 1631 / 245 1 / 7470 / 7471																										

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Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
		8/12/22			2
		8:20			4
					6



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Chain of Custody

Work Order No:

18031

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Project Manager	Tom Carlson	Bill to: (if different)	ESRR
Company Name	Earth Systems R&R	Company Name	
Address	4115 S CR 1297	Address	
City, State ZIP	Odessa, Texas, 79765	City, State ZIP	
Phone	432-894-6385	Email	tcarlson@earthsys.net

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables EDD ☐ ADAPT ☐ Other	

Project Name	CTB 130	Turn Around	Pres. Code	ANALYSIS REQUEST																Preservative Codes							
Project Number	1246	☐ Routine ☒ Rush																		None NO	DI Water H ₂ O						
Project Location		Due Date	ASAP																	Cool Cool	MeOH Me						
Sampler's Name	Tom Carlson	TAT starts the day received by the lab if received by 4:30pm																		HCL HC	HNO ₃ HN						
PO #		Temp Blank	Yes No	Wet Ice	Yes No																	H ₂ SO ₄ H ₂	NaOH Na				
SAMPLE RECEIPT	Temp Blank	Yes No	Thermometer ID																			H ₃ PO ₄ HP					
	Samples Received Intact	Yes No	Correction Factor																			NaHSO ₄ NABIS					
	Cooler Custody Seals	Yes No	Temperature Reading																			Na ₂ S ₂ O ₃ NaSO ₃					
	Sample Custody Seals	Yes No	Corrected Temperature																			Zn Acetate+NaOH Zn					
Total Containers																						NaOH+Ascorbic Acid SAPC					
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Chlorides	TPH 8015	BTEX																	Sample Comments	
	SC-33	S	8/11/2022		0.5 - 1	Comp 1	X	X	X																		
	SC-34	S	8/11/2022		0.5 - 1	Comp 1	X	X	X																		
	SC-35	S	8/11/2022		0.5 - 1	Comp 1	X	X	X																		
	SC-36	S	8/11/2022		0.5 - 1	Comp 1	X	X	X																		
	SW-1	S	8/11/2022		0.5	Comp 1	X	X	X																		
	SW-2	S	8/11/2022		0.5	Comp 1	X	X	X																		
	SW-3	S	8/11/2022		0.5	Comp 1	X	X	X																		
	SW-4	S	8/11/2022		0.5	Comp 1	X	X	X																		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 245 1 / 7470 / 7471

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		8/10/22			
		8:20			



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Chain of Custody

Work Order No.:

10021

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Project Manager	Tom Carlson	Bill to (if different)	ESRR
Company Name	Earth Systems R&R	Company Name	
Address	4115 S CR 1297	Address	
City, State ZIP	Odessa, Texas, 79765	City, State ZIP	
Phone	432-894-6385	Email	lcarlson@earthsys.net

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting Level I ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables EDD ☐ AdAPT ☐ Other	

[illegible]

Total	200.7 / 6010	200.8 6020:		
Circle Method(s) and Metal(s)	to be analyzed			
	BRcRA	13PPM	Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
	TLCLP / SPLP	6010	BRcRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

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Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
		8/2/22			
		8 20			

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 880-18031-1

SDG Number: 1246

Login Number: 18031

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	



Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-18628-1
Laboratory Sample Delivery Group: 1246
Client Project/Site: CTB 130
Revision: 1

For:
Earth Systems Response and Restoration
4115 South County Road 1297
Odessa, Texas 79765

Attn: Kris Williams

A rectangular box containing a handwritten signature in blue ink that reads "Brianna Teel".

Authorized for release by:
10/12/2022 7:46:19 AM

Brianna Teel, Project Manager
(432)704-5440
Brianna.Teel@et.eurofinsus.com

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results through



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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Laboratory Job ID: 880-18628-1
SDG: 1246

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	6
Surrogate Summary	37
QC Sample Results	40
QC Association Summary	52
Lab Chronicle	62
Certification Summary	75
Method Summary	76
Sample Summary	77
Chain of Custody	78
Receipt Checklists	83

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
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
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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

Eurofins Midland

Case Narrative

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Job ID: 880-18628-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-18628-1

REVISION

The report being provided is a revision of the original report sent on 9/8/2022. The report (revision 1) is being revised due to Per client email needing correct depths added to COC.

Report revision history

Receipt

The samples were received on 8/29/2022 5:01 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-33466 and analytical batch 880-33557 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-33386 and analytical batch 880-33695 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following sample was outside control limits: CS-32 (880-18628-32). 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: Surrogate recovery for the following samples were outside control limits: (LCS 880-33345/2-A) and (LCSD 880-33345/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: CS-29 (880-18628-29). 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: SW-9 (880-18628-37). 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: SW-12 (880-18628-40). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-33320/2-A) and (LCSD 880-33320/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: CS-14 (880-18628-14). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-33313/2-A) and (LCSD 880-33313/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-33313 and analytical batch

Case Narrative

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Job ID: 880-18628-1 (Continued)

Laboratory: Eurofins Midland (Continued)

880-33403 was outside control limits. Sample non-homogeneity is suspected.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-33237 and analytical batch 880-33366 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-1

Lab Sample ID: 880-18628-1

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/30/22 16:00	09/04/22 19:59	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/30/22 16:00	09/04/22 19:59	1
Ethylbenzene	<0.00201	U *	0.00201		mg/Kg		08/30/22 16:00	09/04/22 19:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/30/22 16:00	09/04/22 19:59	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/30/22 16:00	09/04/22 19:59	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/30/22 16:00	09/04/22 19:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	08/30/22 16:00	09/04/22 19:59	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/30/22 16:00	09/04/22 19:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/30/22 09:30	08/30/22 21:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/30/22 09:30	08/30/22 21:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/30/22 09:30	08/30/22 21:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	08/30/22 09:30	08/30/22 21:19	1
o-Terphenyl	109		70 - 130	08/30/22 09:30	08/30/22 21:19	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.4		5.05		mg/Kg			08/31/22 04:07	1

Client Sample ID: CS-2

Lab Sample ID: 880-18628-2

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:00	09/04/22 20:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:00	09/04/22 20:19	1
Ethylbenzene	<0.00200	U *	0.00200		mg/Kg		08/30/22 16:00	09/04/22 20:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/30/22 16:00	09/04/22 20:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:00	09/04/22 20:19	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/30/22 16:00	09/04/22 20:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	08/30/22 16:00	09/04/22 20:19	1
1,4-Difluorobenzene (Surr)	85		70 - 130	08/30/22 16:00	09/04/22 20:19	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-2

Lab Sample ID: 880-18628-2

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/30/22 09:30	08/30/22 22:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/30/22 09:30	08/30/22 22:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/30/22 09:30	08/30/22 22:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				08/30/22 09:30	08/30/22 22:23	1
o-Terphenyl	75		70 - 130				08/30/22 09:30	08/30/22 22:23	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.7		5.02		mg/Kg			08/31/22 04:28	1

Client Sample ID: CS-3

Lab Sample ID: 880-18628-3

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:00	09/04/22 20:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:00	09/04/22 20:40	1
Ethylbenzene	<0.00199	U *	0.00199		mg/Kg		08/30/22 16:00	09/04/22 20:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/30/22 16:00	09/04/22 20:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:00	09/04/22 20:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/30/22 16:00	09/04/22 20:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				08/30/22 16:00	09/04/22 20:40	1
1,4-Difluorobenzene (Surr)	90		70 - 130				08/30/22 16:00	09/04/22 20:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/30/22 09:30	08/30/22 22:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/22 09:30	08/30/22 22:45	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-3

Date Collected: 08/29/22 00:00

Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/22 09:30	08/30/22 22:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				08/30/22 09:30	08/30/22 22:45	1
o-Terphenyl	88		70 - 130				08/30/22 09:30	08/30/22 22:45	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.8		4.98		mg/Kg			08/31/22 04:34	1

Client Sample ID: CS-4

Date Collected: 08/29/22 00:00

Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-4

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:00	09/04/22 21:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:00	09/04/22 21:00	1
Ethylbenzene	<0.00200	U *	0.00200		mg/Kg		08/30/22 16:00	09/04/22 21:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/30/22 16:00	09/04/22 21:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:00	09/04/22 21:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/30/22 16:00	09/04/22 21:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				08/30/22 16:00	09/04/22 21:00	1
1,4-Difluorobenzene (Surr)	90		70 - 130				08/30/22 16:00	09/04/22 21:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/30/22 09:30	08/30/22 23:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/30/22 09:30	08/30/22 23:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/30/22 09:30	08/30/22 23:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				08/30/22 09:30	08/30/22 23:06	1
o-Terphenyl	102		70 - 130				08/30/22 09:30	08/30/22 23:06	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.9		5.00		mg/Kg			08/31/22 04:41	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-5

Lab Sample ID: 880-18628-5

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:00	09/04/22 21:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:00	09/04/22 21:21	1
Ethylbenzene	<0.00200	U *	0.00200		mg/Kg		08/30/22 16:00	09/04/22 21:21	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/30/22 16:00	09/04/22 21:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:00	09/04/22 21:21	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/30/22 16:00	09/04/22 21:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	08/30/22 16:00	09/04/22 21:21	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/30/22 16:00	09/04/22 21:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/30/22 09:30	08/30/22 23:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/30/22 09:30	08/30/22 23:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/30/22 09:30	08/30/22 23:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	08/30/22 09:30	08/30/22 23:28	1
o-Terphenyl	95		70 - 130	08/30/22 09:30	08/30/22 23:28	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.8		5.00		mg/Kg			08/31/22 04:48	1

Client Sample ID: CS-6

Lab Sample ID: 880-18628-6

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:00	09/04/22 21:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:00	09/04/22 21:42	1
Ethylbenzene	<0.00200	U *	0.00200		mg/Kg		08/30/22 16:00	09/04/22 21:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/30/22 16:00	09/04/22 21:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:00	09/04/22 21:42	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/30/22 16:00	09/04/22 21:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	08/30/22 16:00	09/04/22 21:42	1
1,4-Difluorobenzene (Surr)	88		70 - 130	08/30/22 16:00	09/04/22 21:42	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-6

Lab Sample ID: 880-18628-6

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/30/22 09:30	08/30/22 23:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/22 09:30	08/30/22 23:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/22 09:30	08/30/22 23:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				08/30/22 09:30	08/30/22 23:50	1
o-Terphenyl	93		70 - 130				08/30/22 09:30	08/30/22 23:50	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.9		5.02		mg/Kg			08/31/22 05:09	1

Client Sample ID: CS-7

Lab Sample ID: 880-18628-7

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:00	09/04/22 22:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:00	09/04/22 22:02	1
Ethylbenzene	<0.00199	U *	0.00199		mg/Kg		08/30/22 16:00	09/04/22 22:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/30/22 16:00	09/04/22 22:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:00	09/04/22 22:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/30/22 16:00	09/04/22 22:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130				08/30/22 16:00	09/04/22 22:02	1
1,4-Difluorobenzene (Surr)	89		70 - 130				08/30/22 16:00	09/04/22 22:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/30/22 09:30	08/31/22 00:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/22 09:30	08/31/22 00:12	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-7

Date Collected: 08/29/22 00:00

Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-7

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/22 09:30	08/31/22 00:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				08/30/22 09:30	08/31/22 00:12	1
o-Terphenyl	96		70 - 130				08/30/22 09:30	08/31/22 00:12	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.1		5.03		mg/Kg			08/31/22 05:16	1

Client Sample ID: CS-8

Date Collected: 08/29/22 00:00

Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-8

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:00	09/04/22 22:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:00	09/04/22 22:22	1
Ethylbenzene	<0.00200	U *	0.00200		mg/Kg		08/30/22 16:00	09/04/22 22:22	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/30/22 16:00	09/04/22 22:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:00	09/04/22 22:22	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/30/22 16:00	09/04/22 22:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				08/30/22 16:00	09/04/22 22:22	1
1,4-Difluorobenzene (Surr)	85		70 - 130				08/30/22 16:00	09/04/22 22:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/30/22 09:30	08/31/22 00:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/30/22 09:30	08/31/22 00:34	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/30/22 09:30	08/31/22 00:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				08/30/22 09:30	08/31/22 00:34	1
o-Terphenyl	81		70 - 130				08/30/22 09:30	08/31/22 00:34	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.82		4.97		mg/Kg			08/31/22 05:22	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-9

Lab Sample ID: 880-18628-9

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/30/22 16:00	09/04/22 22:43	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/30/22 16:00	09/04/22 22:43	1
Ethylbenzene	<0.00201	U *	0.00201		mg/Kg		08/30/22 16:00	09/04/22 22:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/30/22 16:00	09/04/22 22:43	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/30/22 16:00	09/04/22 22:43	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/30/22 16:00	09/04/22 22:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	08/30/22 16:00	09/04/22 22:43	1
1,4-Difluorobenzene (Surr)	93		70 - 130	08/30/22 16:00	09/04/22 22:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/30/22 09:30	08/31/22 00:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/22 09:30	08/31/22 00:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/22 09:30	08/31/22 00:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	08/30/22 09:30	08/31/22 00:55	1
o-Terphenyl	81		70 - 130	08/30/22 09:30	08/31/22 00:55	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.7		4.96		mg/Kg			08/31/22 05:29	1

Client Sample ID: CS-10

Lab Sample ID: 880-18628-10

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:00	09/04/22 23:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:00	09/04/22 23:03	1
Ethylbenzene	<0.00200	U *	0.00200		mg/Kg		08/30/22 16:00	09/04/22 23:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/30/22 16:00	09/04/22 23:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:00	09/04/22 23:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/30/22 16:00	09/04/22 23:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	08/30/22 16:00	09/04/22 23:03	1
1,4-Difluorobenzene (Surr)	78		70 - 130	08/30/22 16:00	09/04/22 23:03	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-10

Lab Sample ID: 880-18628-10

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/30/22 09:30	08/31/22 01:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/22 09:30	08/31/22 01:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/22 09:30	08/31/22 01:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				08/30/22 09:30	08/31/22 01:17	1
o-Terphenyl	82		70 - 130				08/30/22 09:30	08/31/22 01:17	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.6		4.95		mg/Kg			08/31/22 05:36	1

Client Sample ID: CS-11

Lab Sample ID: 880-18628-11

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:00	09/05/22 00:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:00	09/05/22 00:25	1
Ethylbenzene	<0.00199	U *	0.00199		mg/Kg		08/30/22 16:00	09/05/22 00:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/30/22 16:00	09/05/22 00:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:00	09/05/22 00:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/30/22 16:00	09/05/22 00:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				08/30/22 16:00	09/05/22 00:25	1
1,4-Difluorobenzene (Surr)	92		70 - 130				08/30/22 16:00	09/05/22 00:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/30/22 09:30	08/31/22 02:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/22 09:30	08/31/22 02:01	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-11

Date Collected: 08/29/22 00:00

Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-11

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/22 09:30	08/31/22 02:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				08/30/22 09:30	08/31/22 02:01	1
o-Terphenyl	89		70 - 130				08/30/22 09:30	08/31/22 02:01	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.1		5.04		mg/Kg			08/31/22 05:43	1

Client Sample ID: CS-12

Date Collected: 08/29/22 00:00

Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-12

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/30/22 16:00	09/05/22 00:46	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/30/22 16:00	09/05/22 00:46	1
Ethylbenzene	<0.00202	U *	0.00202		mg/Kg		08/30/22 16:00	09/05/22 00:46	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/30/22 16:00	09/05/22 00:46	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/30/22 16:00	09/05/22 00:46	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/30/22 16:00	09/05/22 00:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				08/30/22 16:00	09/05/22 00:46	1
1,4-Difluorobenzene (Surr)	83		70 - 130				08/30/22 16:00	09/05/22 00:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/30/22 09:30	08/31/22 02:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/22 09:30	08/31/22 02:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/22 09:30	08/31/22 02:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				08/30/22 09:30	08/31/22 02:23	1
o-Terphenyl	83		70 - 130				08/30/22 09:30	08/31/22 02:23	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.9		4.99		mg/Kg			08/31/22 06:04	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-13

Lab Sample ID: 880-18628-13

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/30/22 16:00	09/05/22 01:06	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/30/22 16:00	09/05/22 01:06	1
Ethylbenzene	<0.00201	U *	0.00201		mg/Kg		08/30/22 16:00	09/05/22 01:06	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/30/22 16:00	09/05/22 01:06	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/30/22 16:00	09/05/22 01:06	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/30/22 16:00	09/05/22 01:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	08/30/22 16:00	09/05/22 01:06	1
1,4-Difluorobenzene (Surr)	82		70 - 130	08/30/22 16:00	09/05/22 01:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/30/22 09:30	08/31/22 02:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/22 09:30	08/31/22 02:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/22 09:30	08/31/22 02:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	08/30/22 09:30	08/31/22 02:45	1
o-Terphenyl	79		70 - 130	08/30/22 09:30	08/31/22 02:45	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.5		4.99		mg/Kg			08/31/22 06:10	1

Client Sample ID: CS-14

Lab Sample ID: 880-18628-14

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/30/22 16:00	09/05/22 01:27	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/30/22 16:00	09/05/22 01:27	1
Ethylbenzene	<0.00202	U *	0.00202		mg/Kg		08/30/22 16:00	09/05/22 01:27	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/30/22 16:00	09/05/22 01:27	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/30/22 16:00	09/05/22 01:27	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/30/22 16:00	09/05/22 01:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	08/30/22 16:00	09/05/22 01:27	1
1,4-Difluorobenzene (Surr)	92		70 - 130	08/30/22 16:00	09/05/22 01:27	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-14

Lab Sample ID: 880-18628-14

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/30/22 09:30	08/31/22 03:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/30/22 09:30	08/31/22 03:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/30/22 09:30	08/31/22 03:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	41	S1-	70 - 130				08/30/22 09:30	08/31/22 03:07	1
o-Terphenyl	79		70 - 130				08/30/22 09:30	08/31/22 03:07	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.1		4.96		mg/Kg			08/31/22 06:31	1

Client Sample ID: CS-15

Lab Sample ID: 880-18628-15

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:00	09/05/22 01:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:00	09/05/22 01:47	1
Ethylbenzene	<0.00200	U *	0.00200		mg/Kg		08/30/22 16:00	09/05/22 01:47	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/30/22 16:00	09/05/22 01:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:00	09/05/22 01:47	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/30/22 16:00	09/05/22 01:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				08/30/22 16:00	09/05/22 01:47	1
1,4-Difluorobenzene (Surr)	83		70 - 130				08/30/22 16:00	09/05/22 01:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/30/22 09:30	08/31/22 03:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/30/22 09:30	08/31/22 03:28	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-15

Date Collected: 08/29/22 00:00

Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-15

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/30/22 09:30	08/31/22 03:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				08/30/22 09:30	08/31/22 03:28	1
o-Terphenyl	91		70 - 130				08/30/22 09:30	08/31/22 03:28	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.8		5.02		mg/Kg			08/31/22 06:38	1

Client Sample ID: CS-16

Date Collected: 08/29/22 00:00

Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-16

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/30/22 16:00	09/05/22 02:08	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/30/22 16:00	09/05/22 02:08	1
Ethylbenzene	<0.00198	U *	0.00198		mg/Kg		08/30/22 16:00	09/05/22 02:08	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/30/22 16:00	09/05/22 02:08	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/30/22 16:00	09/05/22 02:08	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/30/22 16:00	09/05/22 02:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130				08/30/22 16:00	09/05/22 02:08	1
1,4-Difluorobenzene (Surr)	76		70 - 130				08/30/22 16:00	09/05/22 02:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/30/22 09:30	08/31/22 03:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/22 09:30	08/31/22 03:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/22 09:30	08/31/22 03:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				08/30/22 09:30	08/31/22 03:50	1
o-Terphenyl	108		70 - 130				08/30/22 09:30	08/31/22 03:50	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.4		4.95		mg/Kg			08/31/22 06:45	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-17

Lab Sample ID: 880-18628-17

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/30/22 16:00	09/05/22 02:28	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/30/22 16:00	09/05/22 02:28	1
Ethylbenzene	<0.00201	U *	0.00201		mg/Kg		08/30/22 16:00	09/05/22 02:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/30/22 16:00	09/05/22 02:28	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/30/22 16:00	09/05/22 02:28	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/30/22 16:00	09/05/22 02:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	08/30/22 16:00	09/05/22 02:28	1
1,4-Difluorobenzene (Surr)	90		70 - 130	08/30/22 16:00	09/05/22 02:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	234		50.0		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/30/22 09:30	08/31/22 04:12	1
Diesel Range Organics (Over C10-C28)	234		50.0		mg/Kg		08/30/22 09:30	08/31/22 04:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/22 09:30	08/31/22 04:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	08/30/22 09:30	08/31/22 04:12	1
o-Terphenyl	107		70 - 130	08/30/22 09:30	08/31/22 04:12	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39.2		5.02		mg/Kg			08/31/22 06:51	1

Client Sample ID: CS-18

Lab Sample ID: 880-18628-18

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/30/22 16:00	09/05/22 02:48	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/30/22 16:00	09/05/22 02:48	1
Ethylbenzene	<0.00202	U *	0.00202		mg/Kg		08/30/22 16:00	09/05/22 02:48	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/30/22 16:00	09/05/22 02:48	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/30/22 16:00	09/05/22 02:48	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/30/22 16:00	09/05/22 02:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	08/30/22 16:00	09/05/22 02:48	1
1,4-Difluorobenzene (Surr)	89		70 - 130	08/30/22 16:00	09/05/22 02:48	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-18

Lab Sample ID: 880-18628-18

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/30/22 09:30	08/31/22 04:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/30/22 09:30	08/31/22 04:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/30/22 09:30	08/31/22 04:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				08/30/22 09:30	08/31/22 04:33	1
o-Terphenyl	87		70 - 130				08/30/22 09:30	08/31/22 04:33	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.5		4.97		mg/Kg			08/31/22 06:58	1

Client Sample ID: CS-19

Lab Sample ID: 880-18628-19

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/30/22 16:00	09/05/22 03:09	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/30/22 16:00	09/05/22 03:09	1
Ethylbenzene	<0.00202	U *	0.00202		mg/Kg		08/30/22 16:00	09/05/22 03:09	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/30/22 16:00	09/05/22 03:09	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/30/22 16:00	09/05/22 03:09	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/30/22 16:00	09/05/22 03:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				08/30/22 16:00	09/05/22 03:09	1
1,4-Difluorobenzene (Surr)	72		70 - 130				08/30/22 16:00	09/05/22 03:09	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/30/22 09:30	08/31/22 04:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/30/22 09:30	08/31/22 04:55	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-19

Date Collected: 08/29/22 00:00

Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-19

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/30/22 09:30	08/31/22 04:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				08/30/22 09:30	08/31/22 04:55	1
o-Terphenyl	93		70 - 130				08/30/22 09:30	08/31/22 04:55	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.9		5.00		mg/Kg			08/31/22 07:05	1

Client Sample ID: CS-20

Date Collected: 08/29/22 00:00

Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-20

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:00	09/05/22 03:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:00	09/05/22 03:29	1
Ethylbenzene	<0.00200	U *	0.00200		mg/Kg		08/30/22 16:00	09/05/22 03:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/30/22 16:00	09/05/22 03:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:00	09/05/22 03:29	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/30/22 16:00	09/05/22 03:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130				08/30/22 16:00	09/05/22 03:29	1
1,4-Difluorobenzene (Surr)	83		70 - 130				08/30/22 16:00	09/05/22 03:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	64.5		49.9		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/30/22 09:30	08/31/22 05:17	1
Diesel Range Organics (Over C10-C28)	64.5		49.9		mg/Kg		08/30/22 09:30	08/31/22 05:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/30/22 09:30	08/31/22 05:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				08/30/22 09:30	08/31/22 05:17	1
o-Terphenyl	79		70 - 130				08/30/22 09:30	08/31/22 05:17	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.4		5.03		mg/Kg			08/31/22 07:12	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-21

Lab Sample ID: 880-18628-21

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/30/22 16:11	09/08/22 00:44	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/30/22 16:11	09/08/22 00:44	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/30/22 16:11	09/08/22 00:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/30/22 16:11	09/08/22 00:44	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/30/22 16:11	09/08/22 00:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/30/22 16:11	09/08/22 00:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	08/30/22 16:11	09/08/22 00:44	1
1,4-Difluorobenzene (Surr)	100		70 - 130	08/30/22 16:11	09/08/22 00:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/30/22 10:56	08/30/22 21:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/30/22 10:56	08/30/22 21:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/30/22 10:56	08/30/22 21:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	08/30/22 10:56	08/30/22 21:19	1
o-Terphenyl	106		70 - 130	08/30/22 10:56	08/30/22 21:19	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.2		4.97		mg/Kg			08/30/22 20:46	1

Client Sample ID: CS-22

Lab Sample ID: 880-18628-22

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:11	09/08/22 01:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:11	09/08/22 01:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:11	09/08/22 01:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/30/22 16:11	09/08/22 01:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:11	09/08/22 01:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/30/22 16:11	09/08/22 01:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	08/30/22 16:11	09/08/22 01:05	1
1,4-Difluorobenzene (Surr)	100		70 - 130	08/30/22 16:11	09/08/22 01:05	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-22

Lab Sample ID: 880-18628-22

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/30/22 10:56	08/30/22 22:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/30/22 10:56	08/30/22 22:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/30/22 10:56	08/30/22 22:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				08/30/22 10:56	08/30/22 22:23	1
o-Terphenyl	100		70 - 130				08/30/22 10:56	08/30/22 22:23	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.1		4.95		mg/Kg			08/30/22 21:14	1

Client Sample ID: CS-23

Lab Sample ID: 880-18628-23

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:11	09/08/22 01:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:11	09/08/22 01:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:11	09/08/22 01:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/30/22 16:11	09/08/22 01:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:11	09/08/22 01:25	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/30/22 16:11	09/08/22 01:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				08/30/22 16:11	09/08/22 01:25	1
1,4-Difluorobenzene (Surr)	100		70 - 130				08/30/22 16:11	09/08/22 01:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/30/22 10:56	08/30/22 22:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/22 10:56	08/30/22 22:45	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-23

Date Collected: 08/29/22 00:00

Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-23

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/22 10:56	08/30/22 22:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				08/30/22 10:56	08/30/22 22:45	1
o-Terphenyl	103		70 - 130				08/30/22 10:56	08/30/22 22:45	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.6		5.03		mg/Kg			08/30/22 21:23	1

Client Sample ID: CS-24

Date Collected: 08/29/22 00:00

Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-24

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:11	09/08/22 01:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:11	09/08/22 01:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:11	09/08/22 01:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/30/22 16:11	09/08/22 01:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:11	09/08/22 01:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/30/22 16:11	09/08/22 01:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				08/30/22 16:11	09/08/22 01:46	1
1,4-Difluorobenzene (Surr)	102		70 - 130				08/30/22 16:11	09/08/22 01:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/30/22 10:56	08/30/22 23:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/30/22 10:56	08/30/22 23:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/30/22 10:56	08/30/22 23:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				08/30/22 10:56	08/30/22 23:06	1
o-Terphenyl	106		70 - 130				08/30/22 10:56	08/30/22 23:06	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.8		5.05		mg/Kg			08/30/22 21:32	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-25

Lab Sample ID: 880-18628-25

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/30/22 16:11	09/08/22 02:06	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/30/22 16:11	09/08/22 02:06	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/30/22 16:11	09/08/22 02:06	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/30/22 16:11	09/08/22 02:06	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/30/22 16:11	09/08/22 02:06	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/30/22 16:11	09/08/22 02:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	08/30/22 16:11	09/08/22 02:06	1
1,4-Difluorobenzene (Surr)	101		70 - 130	08/30/22 16:11	09/08/22 02:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/30/22 10:56	08/30/22 23:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/30/22 10:56	08/30/22 23:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/30/22 10:56	08/30/22 23:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	08/30/22 10:56	08/30/22 23:28	1
o-Terphenyl	105		70 - 130	08/30/22 10:56	08/30/22 23:28	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.3		5.05		mg/Kg			08/30/22 21:42	1

Client Sample ID: CS-26

Lab Sample ID: 880-18628-26

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:11	09/08/22 02:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:11	09/08/22 02:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:11	09/08/22 02:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/30/22 16:11	09/08/22 02:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:11	09/08/22 02:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/30/22 16:11	09/08/22 02:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	08/30/22 16:11	09/08/22 02:26	1
1,4-Difluorobenzene (Surr)	100		70 - 130	08/30/22 16:11	09/08/22 02:26	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-26

Lab Sample ID: 880-18628-26

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/30/22 10:56	08/30/22 23:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/22 10:56	08/30/22 23:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/22 10:56	08/30/22 23:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				08/30/22 10:56	08/30/22 23:50	1
o-Terphenyl	104		70 - 130				08/30/22 10:56	08/30/22 23:50	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.9		4.99		mg/Kg			08/30/22 22:09	1

Client Sample ID: CS-27

Lab Sample ID: 880-18628-27

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:11	09/08/22 02:47	1
Toluene	0.00275		0.00199		mg/Kg		08/30/22 16:11	09/08/22 02:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:11	09/08/22 02:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/30/22 16:11	09/08/22 02:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:11	09/08/22 02:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/30/22 16:11	09/08/22 02:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				08/30/22 16:11	09/08/22 02:47	1
1,4-Difluorobenzene (Surr)	118		70 - 130				08/30/22 16:11	09/08/22 02:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	99.0		50.0		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/30/22 10:56	08/31/22 00:12	1
Diesel Range Organics (Over C10-C28)	99.0		50.0		mg/Kg		08/30/22 10:56	08/31/22 00:12	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-27

Date Collected: 08/29/22 00:00

Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-27

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/22 10:56	08/31/22 00:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				08/30/22 10:56	08/31/22 00:12	1
o-Terphenyl	100		70 - 130				08/30/22 10:56	08/31/22 00:12	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.2		4.99		mg/Kg			08/30/22 22:18	1

Client Sample ID: CS-28

Date Collected: 08/29/22 00:00

Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-28

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:11	09/08/22 03:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:11	09/08/22 03:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:11	09/08/22 03:07	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/30/22 16:11	09/08/22 03:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:11	09/08/22 03:07	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/30/22 16:11	09/08/22 03:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				08/30/22 16:11	09/08/22 03:07	1
1,4-Difluorobenzene (Surr)	100		70 - 130				08/30/22 16:11	09/08/22 03:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/30/22 10:56	08/31/22 00:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/30/22 10:56	08/31/22 00:34	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/30/22 10:56	08/31/22 00:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				08/30/22 10:56	08/31/22 00:34	1
o-Terphenyl	108		70 - 130				08/30/22 10:56	08/31/22 00:34	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.2		5.02		mg/Kg			08/30/22 22:28	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-29

Lab Sample ID: 880-18628-29

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:11	09/08/22 03:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:11	09/08/22 03:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:11	09/08/22 03:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/30/22 16:11	09/08/22 03:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:11	09/08/22 03:28	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/30/22 16:11	09/08/22 03:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	08/30/22 16:11	09/08/22 03:28	1
1,4-Difluorobenzene (Surr)	99		70 - 130	08/30/22 16:11	09/08/22 03:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/30/22 10:56	08/31/22 00:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/22 10:56	08/31/22 00:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/22 10:56	08/31/22 00:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130	08/30/22 10:56	08/31/22 00:55	1
o-Terphenyl	120		70 - 130	08/30/22 10:56	08/31/22 00:55	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.6		4.97		mg/Kg			08/30/22 22:37	1

Client Sample ID: CS-30

Lab Sample ID: 880-18628-30

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:11	09/08/22 03:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:11	09/08/22 03:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:11	09/08/22 03:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/30/22 16:11	09/08/22 03:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:11	09/08/22 03:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/30/22 16:11	09/08/22 03:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	08/30/22 16:11	09/08/22 03:48	1
1,4-Difluorobenzene (Surr)	99		70 - 130	08/30/22 16:11	09/08/22 03:48	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-30

Lab Sample ID: 880-18628-30

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/30/22 10:56	08/31/22 01:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/22 10:56	08/31/22 01:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/22 10:56	08/31/22 01:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				08/30/22 10:56	08/31/22 01:17	1
o-Terphenyl	107		70 - 130				08/30/22 10:56	08/31/22 01:17	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.0		4.96		mg/Kg			08/30/22 22:46	1

Client Sample ID: CS-31

Lab Sample ID: 880-18628-31

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/30/22 16:11	09/08/22 05:37	1
Toluene	0.00500		0.00201		mg/Kg		08/30/22 16:11	09/08/22 05:37	1
Ethylbenzene	0.00488		0.00201		mg/Kg		08/30/22 16:11	09/08/22 05:37	1
m-Xylene & p-Xylene	0.00580		0.00402		mg/Kg		08/30/22 16:11	09/08/22 05:37	1
o-Xylene	0.00360		0.00201		mg/Kg		08/30/22 16:11	09/08/22 05:37	1
Xylenes, Total	0.00940		0.00402		mg/Kg		08/30/22 16:11	09/08/22 05:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				08/30/22 16:11	09/08/22 05:37	1
1,4-Difluorobenzene (Surr)	126		70 - 130				08/30/22 16:11	09/08/22 05:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0193		0.00402		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/30/22 10:56	08/31/22 02:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/22 10:56	08/31/22 02:01	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-31

Date Collected: 08/29/22 00:00

Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-31

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/22 10:56	08/31/22 02:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				08/30/22 10:56	08/31/22 02:01	1
o-Terphenyl	101		70 - 130				08/30/22 10:56	08/31/22 02:01	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.1		5.03		mg/Kg			08/30/22 22:55	1

Client Sample ID: CS-32

Date Collected: 08/29/22 00:00

Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-32

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:11	09/08/22 05:58	1
Toluene	0.00248		0.00200		mg/Kg		08/30/22 16:11	09/08/22 05:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:11	09/08/22 05:58	1
m-Xylene & p-Xylene	0.00412		0.00401		mg/Kg		08/30/22 16:11	09/08/22 05:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:11	09/08/22 05:58	1
Xylenes, Total	0.00412		0.00401		mg/Kg		08/30/22 16:11	09/08/22 05:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	59	S1-	70 - 130				08/30/22 16:11	09/08/22 05:58	1
1,4-Difluorobenzene (Surr)	126		70 - 130				08/30/22 16:11	09/08/22 05:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00660		0.00401		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	177		50.0		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/30/22 10:56	08/31/22 02:23	1
Diesel Range Organics (Over C10-C28)	177		50.0		mg/Kg		08/30/22 10:56	08/31/22 02:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/22 10:56	08/31/22 02:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				08/30/22 10:56	08/31/22 02:23	1
o-Terphenyl	100		70 - 130				08/30/22 10:56	08/31/22 02:23	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.2		4.98		mg/Kg			08/30/22 23:23	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-33

Lab Sample ID: 880-18628-33

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:11	09/08/22 06:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:11	09/08/22 06:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:11	09/08/22 06:18	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/30/22 16:11	09/08/22 06:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:11	09/08/22 06:18	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/30/22 16:11	09/08/22 06:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	08/30/22 16:11	09/08/22 06:18	1
1,4-Difluorobenzene (Surr)	102		70 - 130	08/30/22 16:11	09/08/22 06:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/30/22 10:56	08/31/22 02:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/22 10:56	08/31/22 02:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/22 10:56	08/31/22 02:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	08/30/22 10:56	08/31/22 02:45	1
o-Terphenyl	102		70 - 130	08/30/22 10:56	08/31/22 02:45	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.4		4.99		mg/Kg			08/30/22 23:32	1

Client Sample ID: CS-34

Lab Sample ID: 880-18628-34

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:11	09/08/22 06:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:11	09/08/22 06:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:11	09/08/22 06:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/30/22 16:11	09/08/22 06:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:11	09/08/22 06:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/30/22 16:11	09/08/22 06:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	08/30/22 16:11	09/08/22 06:39	1
1,4-Difluorobenzene (Surr)	98		70 - 130	08/30/22 16:11	09/08/22 06:39	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-34

Lab Sample ID: 880-18628-34

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/30/22 10:56	08/31/22 03:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/30/22 10:56	08/31/22 03:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/30/22 10:56	08/31/22 03:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				08/30/22 10:56	08/31/22 03:07	1
o-Terphenyl	112		70 - 130				08/30/22 10:56	08/31/22 03:07	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.5		5.00		mg/Kg			08/31/22 00:00	1

Client Sample ID: CS-35

Lab Sample ID: 880-18628-35

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/30/22 16:11	09/08/22 06:59	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/30/22 16:11	09/08/22 06:59	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/30/22 16:11	09/08/22 06:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/30/22 16:11	09/08/22 06:59	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/30/22 16:11	09/08/22 06:59	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/30/22 16:11	09/08/22 06:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130				08/30/22 16:11	09/08/22 06:59	1
1,4-Difluorobenzene (Surr)	102		70 - 130				08/30/22 16:11	09/08/22 06:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/30/22 10:56	08/31/22 03:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/30/22 10:56	08/31/22 03:28	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-35

Date Collected: 08/29/22 00:00

Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-35

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/30/22 10:56	08/31/22 03:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				08/30/22 10:56	08/31/22 03:28	1
o-Terphenyl	110		70 - 130				08/30/22 10:56	08/31/22 03:28	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.2		5.04		mg/Kg			08/31/22 00:09	1

Client Sample ID: CS-36

Date Collected: 08/29/22 00:00

Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-36

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:11	09/08/22 07:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:11	09/08/22 07:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:11	09/08/22 07:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/30/22 16:11	09/08/22 07:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:11	09/08/22 07:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/30/22 16:11	09/08/22 07:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				08/30/22 16:11	09/08/22 07:20	1
1,4-Difluorobenzene (Surr)	100		70 - 130				08/30/22 16:11	09/08/22 07:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/30/22 10:56	08/31/22 03:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/22 10:56	08/31/22 03:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/22 10:56	08/31/22 03:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				08/30/22 10:56	08/31/22 03:50	1
o-Terphenyl	109		70 - 130				08/30/22 10:56	08/31/22 03:50	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.8		4.99		mg/Kg			08/31/22 00:18	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: SW-9

Lab Sample ID: 880-18628-37

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:11	09/08/22 07:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:11	09/08/22 07:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:11	09/08/22 07:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/30/22 16:11	09/08/22 07:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:11	09/08/22 07:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/30/22 16:11	09/08/22 07:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	08/30/22 16:11	09/08/22 07:40	1
1,4-Difluorobenzene (Surr)	103		70 - 130	08/30/22 16:11	09/08/22 07:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/30/22 10:56	08/31/22 04:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/22 10:56	08/31/22 04:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/22 10:56	08/31/22 04:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130	08/30/22 10:56	08/31/22 04:12	1
o-Terphenyl	115		70 - 130	08/30/22 10:56	08/31/22 04:12	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.7		5.03		mg/Kg			08/31/22 00:27	1

Client Sample ID: SW-10

Lab Sample ID: 880-18628-38

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/30/22 16:11	09/08/22 08:00	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/30/22 16:11	09/08/22 08:00	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/30/22 16:11	09/08/22 08:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/30/22 16:11	09/08/22 08:00	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/30/22 16:11	09/08/22 08:00	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/30/22 16:11	09/08/22 08:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	08/30/22 16:11	09/08/22 08:00	1
1,4-Difluorobenzene (Surr)	101		70 - 130	08/30/22 16:11	09/08/22 08:00	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: SW-10

Lab Sample ID: 880-18628-38

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	869		49.9		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/30/22 10:56	08/31/22 04:33	1
Diesel Range Organics (Over C10-C28)	869		49.9		mg/Kg		08/30/22 10:56	08/31/22 04:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/30/22 10:56	08/31/22 04:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				08/30/22 10:56	08/31/22 04:33	1
o-Terphenyl	91		70 - 130				08/30/22 10:56	08/31/22 04:33	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.2		5.01		mg/Kg			08/31/22 00:36	1

Client Sample ID: SW-11

Lab Sample ID: 880-18628-39

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:11	09/08/22 08:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:11	09/08/22 08:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:11	09/08/22 08:21	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/30/22 16:11	09/08/22 08:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:11	09/08/22 08:21	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/30/22 16:11	09/08/22 08:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				08/30/22 16:11	09/08/22 08:21	1
1,4-Difluorobenzene (Surr)	103		70 - 130				08/30/22 16:11	09/08/22 08:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/30/22 10:56	08/31/22 04:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/30/22 10:56	08/31/22 04:55	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: SW-11

Date Collected: 08/29/22 00:00

Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-39

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/30/22 10:56	08/31/22 04:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130				08/30/22 10:56	08/31/22 04:55	1
o-Terphenyl	109		70 - 130				08/30/22 10:56	08/31/22 04:55	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.4		4.98		mg/Kg			08/31/22 00:46	1

Client Sample ID: SW-12

Date Collected: 08/29/22 00:00

Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-40

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:11	09/08/22 08:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:11	09/08/22 08:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:11	09/08/22 08:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/30/22 16:11	09/08/22 08:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/30/22 16:11	09/08/22 08:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/30/22 16:11	09/08/22 08:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				08/30/22 16:11	09/08/22 08:41	1
1,4-Difluorobenzene (Surr)	100		70 - 130				08/30/22 16:11	09/08/22 08:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/30/22 10:56	08/31/22 05:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/30/22 10:56	08/31/22 05:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/30/22 10:56	08/31/22 05:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130				08/30/22 10:56	08/31/22 05:17	1
o-Terphenyl	122		70 - 130				08/30/22 10:56	08/31/22 05:17	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.5		5.00		mg/Kg			08/31/22 00:55	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: SP-1

Lab Sample ID: 880-18628-41

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/31/22 14:40	09/02/22 02:25	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/31/22 14:40	09/02/22 02:25	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/31/22 14:40	09/02/22 02:25	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		08/31/22 14:40	09/02/22 02:25	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/31/22 14:40	09/02/22 02:25	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		08/31/22 14:40	09/02/22 02:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	08/31/22 14:40	09/02/22 02:25	1
1,4-Difluorobenzene (Surr)	100		70 - 130	08/31/22 14:40	09/02/22 02:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	119		49.9		mg/Kg			08/31/22 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/30/22 09:23	08/31/22 13:19	1
Diesel Range Organics (Over C10-C28)	119		49.9		mg/Kg		08/30/22 09:23	08/31/22 13:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/30/22 09:23	08/31/22 13:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	08/30/22 09:23	08/31/22 13:19	1
o-Terphenyl	93		70 - 130	08/30/22 09:23	08/31/22 13:19	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.0	F1	5.01		mg/Kg			08/31/22 09:40	1

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-18628-1	CS-1	122	96
880-18628-1 MS	CS-1	107	106
880-18628-1 MSD	CS-1	111	107
880-18628-2	CS-2	122	85
880-18628-3	CS-3	125	90
880-18628-4	CS-4	127	90
880-18628-5	CS-5	122	91
880-18628-6	CS-6	123	88
880-18628-7	CS-7	132 S1+	89
880-18628-8	CS-8	127	85
880-18628-9	CS-9	115	93
880-18628-10	CS-10	118	78
880-18628-11	CS-11	123	92
880-18628-12	CS-12	103	83
880-18628-13	CS-13	133 S1+	82
880-18628-14	CS-14	123	92
880-18628-15	CS-15	111	83
880-18628-16	CS-16	140 S1+	76
880-18628-17	CS-17	118	90
880-18628-18	CS-18	123	89
880-18628-19	CS-19	103	72
880-18628-20	CS-20	136 S1+	83
880-18628-21	CS-21	86	100
880-18628-21 MS	CS-21	92	104
880-18628-21 MSD	CS-21	89	100
880-18628-22	CS-22	85	100
880-18628-23	CS-23	86	100
880-18628-24	CS-24	90	102
880-18628-25	CS-25	90	101
880-18628-26	CS-26	88	100
880-18628-27	CS-27	86	118
880-18628-28	CS-28	88	100
880-18628-29	CS-29	84	99
880-18628-30	CS-30	87	99
880-18628-31	CS-31	86	126
880-18628-32	CS-32	59 S1-	126
880-18628-33	CS-33	87	102
880-18628-34	CS-34	89	98
880-18628-35	CS-35	84	102
880-18628-36	CS-36	86	100
880-18628-37	SW-9	92	103
880-18628-38	SW-10	88	101
880-18628-39	SW-11	86	103
880-18628-40	SW-12	86	100
880-18628-41	SP-1	89	100
890-2791-A-2-H MS	Matrix Spike	94	109
890-2791-A-2-I MSD	Matrix Spike Duplicate	93	108
LCS 880-33386/1-A	Lab Control Sample	139 S1+	100
LCS 880-33387/1-A	Lab Control Sample	83	100

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Surrogate Summary

Client: Earth Systems Response and Restoration

Job ID: 880-18628-1

Project/Site: CTB 130

SDG: 1246

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
LCS 880-33466/1-A	Lab Control Sample	94	99
LCSD 880-33386/2-A	Lab Control Sample Dup	109	107
LCSD 880-33387/2-A	Lab Control Sample Dup	85	104
LCSD 880-33466/2-A	Lab Control Sample Dup	96	101
MB 880-33386/5-A	Method Blank	103	94
MB 880-33387/5-A	Method Blank	85	113
MB 880-33466/5-A	Method Blank	78	116
MB 880-33519/5-A	Method Blank	103	91
MB 880-33888/5-A	Method Blank	81	118
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)
880-18628-1	CS-1	114	109
880-18628-1 MS	CS-1	90	75
880-18628-1 MSD	CS-1	95	81
880-18628-2	CS-2	79	75
880-18628-3	CS-3	91	88
880-18628-4	CS-4	108	102
880-18628-5	CS-5	99	95
880-18628-6	CS-6	98	93
880-18628-7	CS-7	102	96
880-18628-8	CS-8	84	81
880-18628-9	CS-9	84	81
880-18628-10	CS-10	83	82
880-18628-11	CS-11	92	89
880-18628-12	CS-12	87	83
880-18628-13	CS-13	83	79
880-18628-14	CS-14	41 S1-	79
880-18628-15	CS-15	95	91
880-18628-16	CS-16	113	108
880-18628-17	CS-17	115	107
880-18628-18	CS-18	90	87
880-18628-19	CS-19	98	93
880-18628-20	CS-20	84	79
880-18628-21	CS-21	109	106
880-18628-21 MS	CS-21	104	80
880-18628-21 MSD	CS-21	103	81
880-18628-22	CS-22	106	100
880-18628-23	CS-23	112	103
880-18628-24	CS-24	113	106
880-18628-25	CS-25	113	105
880-18628-26	CS-26	112	104
880-18628-27	CS-27	107	100

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Surrogate Summary

Client: Earth Systems Response and Restoration

Job ID: 880-18628-1

Project/Site: CTB 130

SDG: 1246

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)
Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-18628-28	CS-28	116	108
880-18628-29	CS-29	132 S1+	120
880-18628-30	CS-30	113	107
880-18628-31	CS-31	111	101
880-18628-32	CS-32	112	100
880-18628-33	CS-33	109	102
880-18628-34	CS-34	120	112
880-18628-35	CS-35	118	110
880-18628-36	CS-36	118	109
880-18628-37	SW-9	134 S1+	115
880-18628-38	SW-10	116	91
880-18628-39	SW-11	117	109
880-18628-40	SW-12	134 S1+	122
880-18628-41	SP-1	96	93
890-2851-A-1-B MS	Matrix Spike	95	91
890-2851-A-1-C MSD	Matrix Spike Duplicate	97	81
LCS 880-33313/2-A	Lab Control Sample	134 S1+	145 S1+
LCS 880-33320/2-A	Lab Control Sample	187 S1+	180 S1+
LCS 880-33345/2-A	Lab Control Sample	142 S1+	145 S1+
LCSD 880-33313/3-A	Lab Control Sample Dup	135 S1+	148 S1+
LCSD 880-33320/3-A	Lab Control Sample Dup	190 S1+	181 S1+
LCSD 880-33345/3-A	Lab Control Sample Dup	139 S1+	145 S1+
MB 880-33313/1-A	Method Blank	119	118
MB 880-33320/1-A	Method Blank	107	107
MB 880-33345/1-A	Method Blank	115	116

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-33386/5-A

Matrix: Solid

Analysis Batch: 33695

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33386

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:00	09/04/22 19:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:00	09/04/22 19:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:00	09/04/22 19:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/30/22 16:00	09/04/22 19:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:00	09/04/22 19:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/30/22 16:00	09/04/22 19:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	08/30/22 16:00	09/04/22 19:37	1
1,4-Difluorobenzene (Surr)	94		70 - 130	08/30/22 16:00	09/04/22 19:37	1

Lab Sample ID: LCS 880-33386/1-A

Matrix: Solid

Analysis Batch: 33695

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33386

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07677		mg/Kg		77	70 - 130
Toluene	0.100	0.07739		mg/Kg		77	70 - 130
Ethylbenzene	0.100	0.08184		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	0.200	0.1788		mg/Kg		89	70 - 130
o-Xylene	0.100	0.1071		mg/Kg		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-33386/2-A

Matrix: Solid

Analysis Batch: 33695

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33386

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07853		mg/Kg		79	70 - 130	2	35
Toluene	0.100	0.07045		mg/Kg		70	70 - 130	9	35
Ethylbenzene	0.100	0.06910	*-	mg/Kg		69	70 - 130	17	35
m-Xylene & p-Xylene	0.200	0.1411		mg/Kg		71	70 - 130	24	35
o-Xylene	0.100	0.08260		mg/Kg		83	70 - 130	26	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 880-18628-1 MS

Matrix: Solid

Analysis Batch: 33695

Client Sample ID: CS-1

Prep Type: Total/NA

Prep Batch: 33386

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0998	0.08525		mg/Kg		85	70 - 130
Toluene	<0.00201	U	0.0998	0.07692		mg/Kg		77	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

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

Lab Sample ID: 880-18628-1 MS

Matrix: Solid

Analysis Batch: 33695

Client Sample ID: CS-1

Prep Type: Total/NA

Prep Batch: 33386

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U *-	0.0998	0.07298		mg/Kg		73	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1508		mg/Kg		76	70 - 130
o-Xylene	<0.00201	U	0.0998	0.08681		mg/Kg		87	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-18628-1 MSD

Matrix: Solid

Analysis Batch: 33695

Client Sample ID: CS-1

Prep Type: Total/NA

Prep Batch: 33386

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00201	U	0.0994	0.09042		mg/Kg		91	70 - 130	6	35
Toluene	<0.00201	U	0.0994	0.08202		mg/Kg		83	70 - 130	6	35
Ethylbenzene	<0.00201	U *-	0.0994	0.07965		mg/Kg		80	70 - 130	9	35
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1626		mg/Kg		82	70 - 130	8	35
o-Xylene	<0.00201	U	0.0994	0.09355		mg/Kg		94	70 - 130	7	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: MB 880-33387/5-A

Matrix: Solid

Analysis Batch: 33897

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33387

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:11	09/08/22 00:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:11	09/08/22 00:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:11	09/08/22 00:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/30/22 16:11	09/08/22 00:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 16:11	09/08/22 00:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/30/22 16:11	09/08/22 00:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	08/30/22 16:11	09/08/22 00:16	1
1,4-Difluorobenzene (Surr)	113		70 - 130	08/30/22 16:11	09/08/22 00:16	1

Lab Sample ID: LCS 880-33387/1-A

Matrix: Solid

Analysis Batch: 33897

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33387

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1145		mg/Kg		114	70 - 130
Toluene	0.100	0.1092		mg/Kg		109	70 - 130
Ethylbenzene	0.100	0.1064		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	0.200	0.1887		mg/Kg		94	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

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

Lab Sample ID: LCS 880-33387/1-A

Matrix: Solid

Analysis Batch: 33897

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33387

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.09584		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-33387/2-A

Matrix: Solid

Analysis Batch: 33897

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33387

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1220		mg/Kg		122	70 - 130	6	35
Toluene	0.100	0.1138		mg/Kg		114	70 - 130	4	35
Ethylbenzene	0.100	0.1114		mg/Kg		111	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1981		mg/Kg		99	70 - 130	5	35
o-Xylene	0.100	0.1010		mg/Kg		101	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-18628-21 MS

Matrix: Solid

Analysis Batch: 33897

Client Sample ID: CS-21

Prep Type: Total/NA

Prep Batch: 33387

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.09477		mg/Kg		94	70 - 130
Toluene	<0.00201	U	0.100	0.08860		mg/Kg		88	70 - 130
Ethylbenzene	<0.00201	U	0.100	0.08275		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.201	0.1492		mg/Kg		74	70 - 130
o-Xylene	<0.00201	U	0.100	0.07635		mg/Kg		76	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-18628-21 MSD

Matrix: Solid

Analysis Batch: 33897

Client Sample ID: CS-21

Prep Type: Total/NA

Prep Batch: 33387

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00201	U	0.100	0.08332		mg/Kg		83	70 - 130	13	35
Toluene	<0.00201	U	0.100	0.08494		mg/Kg		85	70 - 130	4	35
Ethylbenzene	<0.00201	U	0.100	0.08368		mg/Kg		84	70 - 130	1	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1493		mg/Kg		75	70 - 130	0	35
o-Xylene	<0.00201	U	0.100	0.07640		mg/Kg		76	70 - 130	0	35

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

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

Lab Sample ID: 880-18628-21 MSD

Matrix: Solid

Analysis Batch: 33897

Client Sample ID: CS-21

Prep Type: Total/NA

Prep Batch: 33387

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: MB 880-33466/5-A

Matrix: Solid

Analysis Batch: 33557

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33466

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/31/22 14:40	09/01/22 18:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/31/22 14:40	09/01/22 18:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/31/22 14:40	09/01/22 18:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/31/22 14:40	09/01/22 18:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/31/22 14:40	09/01/22 18:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/31/22 14:40	09/01/22 18:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	08/31/22 14:40	09/01/22 18:00	1
1,4-Difluorobenzene (Surr)	116		70 - 130	08/31/22 14:40	09/01/22 18:00	1

Lab Sample ID: LCS 880-33466/1-A

Matrix: Solid

Analysis Batch: 33557

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33466

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1098		mg/Kg		110	70 - 130
Toluene	0.100	0.1103		mg/Kg		110	70 - 130
Ethylbenzene	0.100	0.1076		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	0.200	0.1975		mg/Kg		99	70 - 130
o-Xylene	0.100	0.1037		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-33466/2-A

Matrix: Solid

Analysis Batch: 33557

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33466

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1142		mg/Kg		114	70 - 130	4	35
Toluene	0.100	0.1143		mg/Kg		114	70 - 130	4	35
Ethylbenzene	0.100	0.1120		mg/Kg		112	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2059		mg/Kg		103	70 - 130	4	35
o-Xylene	0.100	0.1080		mg/Kg		108	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

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

Lab Sample ID: LCSD 880-33466/2-A

Matrix: Solid

Analysis Batch: 33557

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33466

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

Lab Sample ID: 890-2791-A-2-H MS

Matrix: Solid

Analysis Batch: 33557

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 33466

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.09295		mg/Kg		93	70 - 130
Toluene	<0.00200	U	0.0998	0.06941		mg/Kg		70	70 - 130
Ethylbenzene	<0.00200	U F1	0.0998	0.04751	F1	mg/Kg		48	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.08400	F1	mg/Kg		42	70 - 130
o-Xylene	<0.00200	U F1	0.0998	0.04484	F1	mg/Kg		45	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 890-2791-A-2-I MSD

Matrix: Solid

Analysis Batch: 33557

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 33466

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U	0.0994	0.09702		mg/Kg		98	70 - 130	4	35
Toluene	<0.00200	U	0.0994	0.07575		mg/Kg		76	70 - 130	9	35
Ethylbenzene	<0.00200	U F1	0.0994	0.05323	F1	mg/Kg		54	70 - 130	11	35
m-Xylene & p-Xylene	<0.00399	U F1	0.199	0.09324	F1	mg/Kg		47	70 - 130	10	35
o-Xylene	<0.00200	U F1	0.0994	0.05060	F1	mg/Kg		51	70 - 130	12	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: MB 880-33519/5-A

Matrix: Solid

Analysis Batch: 33695

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33519

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/01/22 09:57	09/04/22 09:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/01/22 09:57	09/04/22 09:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/01/22 09:57	09/04/22 09:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/01/22 09:57	09/04/22 09:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/01/22 09:57	09/04/22 09:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/01/22 09:57	09/04/22 09:00	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	09/01/22 09:57	09/04/22 09:00	1
1,4-Difluorobenzene (Surr)	91		70 - 130	09/01/22 09:57	09/04/22 09:00	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

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

Lab Sample ID: MB 880-33888/5-A

Matrix: Solid

Analysis Batch: 33897

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33888

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/07/22 09:37	09/07/22 12:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/07/22 09:37	09/07/22 12:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/07/22 09:37	09/07/22 12:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/07/22 09:37	09/07/22 12:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/07/22 09:37	09/07/22 12:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/07/22 09:37	09/07/22 12:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	09/07/22 09:37	09/07/22 12:39	1
1,4-Difluorobenzene (Surr)	118		70 - 130	09/07/22 09:37	09/07/22 12:39	1

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

Lab Sample ID: MB 880-33313/1-A

Matrix: Solid

Analysis Batch: 33403

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33313

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/30/22 09:23	08/31/22 10:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/22 09:23	08/31/22 10:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/22 09:23	08/31/22 10:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	08/30/22 09:23	08/31/22 10:04	1
o-Terphenyl	118		70 - 130	08/30/22 09:23	08/31/22 10:04	1

Lab Sample ID: LCS 880-33313/2-A

Matrix: Solid

Analysis Batch: 33403

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33313

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	874.8		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	1000	903.2		mg/Kg		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	134	S1+	70 - 130
o-Terphenyl	145	S1+	70 - 130

Lab Sample ID: LCSD 880-33313/3-A

Matrix: Solid

Analysis Batch: 33403

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33313

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	863.6		mg/Kg		86	70 - 130	1	20

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

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

Lab Sample ID: LCSD 880-33313/3-A

Matrix: Solid

Analysis Batch: 33403

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33313

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)	1000	932.4		mg/Kg		93	70 - 130	3	20

	LCSD %Recovery	LCSD Qualifier	Limits
Surrogate			
1-Chlorooctane	135	S1+	70 - 130
o-Terphenyl	148	S1+	70 - 130

Lab Sample ID: 890-2851-A-1-B MS

Matrix: Solid

Analysis Batch: 33403

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 33313

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	999	1040		mg/Kg		104	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1146		mg/Kg		115	70 - 130		

	MS %Recovery	MS Qualifier	Limits
Surrogate			
1-Chlorooctane	95		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: 890-2851-A-1-C MSD

Matrix: Solid

Analysis Batch: 33403

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 33313

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	998	835.6	F2	mg/Kg		84	70 - 130	22	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1020		mg/Kg		102	70 - 130	12	20

	MSD %Recovery	MSD Qualifier	Limits
Surrogate			
1-Chlorooctane	97		70 - 130
o-Terphenyl	81		70 - 130

Lab Sample ID: MB 880-33320/1-A

Matrix: Solid

Analysis Batch: 33307

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33320

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/30/22 09:30	08/30/22 20:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/22 09:30	08/30/22 20:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/22 09:30	08/30/22 20:14	1

	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Surrogate						
1-Chlorooctane	107		70 - 130	08/30/22 09:30	08/30/22 20:14	1
o-Terphenyl	107		70 - 130	08/30/22 09:30	08/30/22 20:14	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

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

Lab Sample ID: LCS 880-33320/2-A

Matrix: Solid

Analysis Batch: 33307

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33320

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10			1000	800.9		mg/Kg		80	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1079		mg/Kg		108	70 - 130		

Lab Sample ID: LCSD 880-33320/3-A

Matrix: Solid

Analysis Batch: 33307

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33320

Report Data: 05/20/2025											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	926.2		mg/Kg		93	70 - 130	15	20
Diesel Range Organics (Over C10-C28)			1000	1091		mg/Kg		109	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
1-Chlorooctane	190	S1+	70 - 130								
o-Terphenyl	181	S1+	70 - 130								

Lab Sample ID: 880-18628-1 MS

Matrix: Solid

Analysis Batch: 33307

Client Sample ID: CS-1

Prep Type: Total/NA

Prep Batch: 33320

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier			Limits	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	902.0		mg/Kg		89	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	804.1		mg/Kg		80	70 - 130		
Surrogate	MS	MS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	90		70 - 130								
o-Terphenyl	75		70 - 130								

Lab Sample ID: 880-18628-1 MSD

Matrix: Solid

Analysis Batch: 33307

Client Sample ID: CS-1

Prep Type: Total/NA

Prep Batch: 33320

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	998	774.3		mg/Kg	-	76	70 - 130	15	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	848.5		mg/Kg		85	70 - 130	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	95		70 - 130								

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

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

Lab Sample ID: 880-18628-1 MSD

Matrix: Solid

Analysis Batch: 33307

Client Sample ID: CS-1

Prep Type: Total/NA

Prep Batch: 33320

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	81		70 - 130

Lab Sample ID: MB 880-33345/1-A

Matrix: Solid

Analysis Batch: 33305

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33345

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/30/22 10:56	08/30/22 20:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/22 10:56	08/30/22 20:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/22 10:56	08/30/22 20:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				08/30/22 10:56	08/30/22 20:14	1
<i>o</i> -Terphenyl	116		70 - 130				08/30/22 10:56	08/30/22 20:14	1

Lab Sample ID: LCS 880-33345/2-A

Matrix: Solid

Analysis Batch: 33305

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33345

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	875.0		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	998.1		mg/Kg		100	70 - 130
Surrogate	%Recovery	LCS	LCS	Limits			
1-Chlorooctane	142	S1+		70 - 130			
<i>o</i> -Terphenyl	145	S1+		70 - 130			

Lab Sample ID: LCSD 880-33345/3-A

Matrix: Solid

Analysis Batch: 33305

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33345

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	839.6		mg/Kg		84	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	959.8		mg/Kg		96	70 - 130	4	20
Surrogate	%Recovery	LCSD	LCSD	Limits					
1-Chlorooctane	139	S1+		70 - 130					
<i>o</i> -Terphenyl	145	S1+		70 - 130					

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

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

Lab Sample ID: 880-18628-21 MS

Matrix: Solid

Analysis Batch: 33305

Client Sample ID: CS-21

Prep Type: Total/NA

Prep Batch: 33345

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	785.1		mg/Kg		79	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	954.6		mg/Kg		93	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	104		70 - 130						
o-Terphenyl	80		70 - 130						

Lab Sample ID: 880-18628-21 MSD

Matrix: Solid

Analysis Batch: 33305

Client Sample ID: CS-21

Prep Type: Total/NA

Prep Batch: 33345

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	998	780.4		mg/Kg		78	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	949.9		mg/Kg		93	70 - 130	0	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	103		70 - 130								
o-Terphenyl	81		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-33302/1-A

Matrix: Solid

Analysis Batch: 33359

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/31/22 03:46	1

Lab Sample ID: LCS 880-33302/2-A

Matrix: Solid

Analysis Batch: 33359

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	247.7		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-33302/3-A

Matrix: Solid

Analysis Batch: 33359

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	245.3		mg/Kg		98	90 - 110	1	20

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-18628-1 MS

Matrix: Solid

Analysis Batch: 33359

Client Sample ID: CS-1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	19.4		253	284.4		mg/Kg		105	90 - 110		

Lab Sample ID: 880-18628-1 MSD

Matrix: Solid

Analysis Batch: 33359

Client Sample ID: CS-1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	19.4		253	284.2		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-18628-11 MS

Matrix: Solid

Analysis Batch: 33359

Client Sample ID: CS-11

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	22.1		252	279.2		mg/Kg		102	90 - 110		

Lab Sample ID: 880-18628-11 MSD

Matrix: Solid

Analysis Batch: 33359

Client Sample ID: CS-11

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	22.1		252	278.3		mg/Kg		102	90 - 110	0	20

Lab Sample ID: MB 880-33303/1-A

Matrix: Solid

Analysis Batch: 33364

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/30/22 20:18	1

Lab Sample ID: LCS 880-33303/2-A

Matrix: Solid

Analysis Batch: 33364

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	247.6		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-33303/3-A

Matrix: Solid

Analysis Batch: 33364

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	252.0		mg/Kg		101	90 - 110	2	20

Lab Sample ID: 880-18628-21 MS

Matrix: Solid

Analysis Batch: 33364

Client Sample ID: CS-21

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	27.2		249	293.5		mg/Kg		107	90 - 110		

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-18628-21 MSD

Matrix: Solid

Analysis Batch: 33364

Client Sample ID: CS-21

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	27.2		249	284.2		mg/Kg		103	90 - 110	3	20

Lab Sample ID: 880-18628-31 MS

Matrix: Solid

Analysis Batch: 33364

Client Sample ID: CS-31

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	15.1		252	283.3		mg/Kg		107	90 - 110		

Lab Sample ID: 880-18628-31 MSD

Matrix: Solid

Analysis Batch: 33364

Client Sample ID: CS-31

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	15.1		252	286.2		mg/Kg		108	90 - 110	1	20

Lab Sample ID: MB 880-33237/1-A

Matrix: Solid

Analysis Batch: 33366

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/31/22 07:03	1

Lab Sample ID: LCS 880-33237/2-A

Matrix: Solid

Analysis Batch: 33366

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	250.8		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-33237/3-A

Matrix: Solid

Analysis Batch: 33366

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	249.4		mg/Kg		100	90 - 110	1	20

Lab Sample ID: 880-18628-41 MS

Matrix: Solid

Analysis Batch: 33366

Client Sample ID: SP-1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	20.0	F1	251	299.5	F1	mg/Kg		112	90 - 110		

Lab Sample ID: 880-18628-41 MSD

Matrix: Solid

Analysis Batch: 33366

Client Sample ID: SP-1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	20.0	F1	251	288.2		mg/Kg		107	90 - 110	4	20

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

GC VOA

Prep Batch: 33386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18628-1	CS-1	Total/NA	Solid	5035	
880-18628-2	CS-2	Total/NA	Solid	5035	
880-18628-3	CS-3	Total/NA	Solid	5035	
880-18628-4	CS-4	Total/NA	Solid	5035	
880-18628-5	CS-5	Total/NA	Solid	5035	
880-18628-6	CS-6	Total/NA	Solid	5035	
880-18628-7	CS-7	Total/NA	Solid	5035	
880-18628-8	CS-8	Total/NA	Solid	5035	
880-18628-9	CS-9	Total/NA	Solid	5035	
880-18628-10	CS-10	Total/NA	Solid	5035	
880-18628-11	CS-11	Total/NA	Solid	5035	
880-18628-12	CS-12	Total/NA	Solid	5035	
880-18628-13	CS-13	Total/NA	Solid	5035	
880-18628-14	CS-14	Total/NA	Solid	5035	
880-18628-15	CS-15	Total/NA	Solid	5035	
880-18628-16	CS-16	Total/NA	Solid	5035	
880-18628-17	CS-17	Total/NA	Solid	5035	
880-18628-18	CS-18	Total/NA	Solid	5035	
880-18628-19	CS-19	Total/NA	Solid	5035	
880-18628-20	CS-20	Total/NA	Solid	5035	
MB 880-33386/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-33386/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-33386/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-18628-1 MS	CS-1	Total/NA	Solid	5035	
880-18628-1 MSD	CS-1	Total/NA	Solid	5035	

Prep Batch: 33387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18628-21	CS-21	Total/NA	Solid	5035	
880-18628-22	CS-22	Total/NA	Solid	5035	
880-18628-23	CS-23	Total/NA	Solid	5035	
880-18628-24	CS-24	Total/NA	Solid	5035	
880-18628-25	CS-25	Total/NA	Solid	5035	
880-18628-26	CS-26	Total/NA	Solid	5035	
880-18628-27	CS-27	Total/NA	Solid	5035	
880-18628-28	CS-28	Total/NA	Solid	5035	
880-18628-29	CS-29	Total/NA	Solid	5035	
880-18628-30	CS-30	Total/NA	Solid	5035	
880-18628-31	CS-31	Total/NA	Solid	5035	
880-18628-32	CS-32	Total/NA	Solid	5035	
880-18628-33	CS-33	Total/NA	Solid	5035	
880-18628-34	CS-34	Total/NA	Solid	5035	
880-18628-35	CS-35	Total/NA	Solid	5035	
880-18628-36	CS-36	Total/NA	Solid	5035	
880-18628-37	SW-9	Total/NA	Solid	5035	
880-18628-38	SW-10	Total/NA	Solid	5035	
880-18628-39	SW-11	Total/NA	Solid	5035	
880-18628-40	SW-12	Total/NA	Solid	5035	
MB 880-33387/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-33387/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-33387/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

GC VOA (Continued)

Prep Batch: 33387 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18628-21 MS	CS-21	Total/NA	Solid	5035	
880-18628-21 MSD	CS-21	Total/NA	Solid	5035	

Prep Batch: 33466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18628-41	SP-1	Total/NA	Solid	5035	
MB 880-33466/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-33466/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-33466/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2791-A-2-H MS	Matrix Spike	Total/NA	Solid	5035	
890-2791-A-2-I MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 33519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-33519/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 33557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18628-41	SP-1	Total/NA	Solid	8021B	33466
MB 880-33466/5-A	Method Blank	Total/NA	Solid	8021B	33466
LCS 880-33466/1-A	Lab Control Sample	Total/NA	Solid	8021B	33466
LCSD 880-33466/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	33466
890-2791-A-2-H MS	Matrix Spike	Total/NA	Solid	8021B	33466
890-2791-A-2-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	33466

Analysis Batch: 33643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18628-1	CS-1	Total/NA	Solid	Total BTEX	
880-18628-2	CS-2	Total/NA	Solid	Total BTEX	
880-18628-3	CS-3	Total/NA	Solid	Total BTEX	
880-18628-4	CS-4	Total/NA	Solid	Total BTEX	
880-18628-5	CS-5	Total/NA	Solid	Total BTEX	
880-18628-6	CS-6	Total/NA	Solid	Total BTEX	
880-18628-7	CS-7	Total/NA	Solid	Total BTEX	
880-18628-8	CS-8	Total/NA	Solid	Total BTEX	
880-18628-9	CS-9	Total/NA	Solid	Total BTEX	
880-18628-10	CS-10	Total/NA	Solid	Total BTEX	
880-18628-11	CS-11	Total/NA	Solid	Total BTEX	
880-18628-12	CS-12	Total/NA	Solid	Total BTEX	
880-18628-13	CS-13	Total/NA	Solid	Total BTEX	
880-18628-14	CS-14	Total/NA	Solid	Total BTEX	
880-18628-15	CS-15	Total/NA	Solid	Total BTEX	
880-18628-16	CS-16	Total/NA	Solid	Total BTEX	
880-18628-17	CS-17	Total/NA	Solid	Total BTEX	
880-18628-18	CS-18	Total/NA	Solid	Total BTEX	
880-18628-19	CS-19	Total/NA	Solid	Total BTEX	
880-18628-20	CS-20	Total/NA	Solid	Total BTEX	
880-18628-21	CS-21	Total/NA	Solid	Total BTEX	
880-18628-22	CS-22	Total/NA	Solid	Total BTEX	
880-18628-23	CS-23	Total/NA	Solid	Total BTEX	
880-18628-24	CS-24	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

GC VOA (Continued)

Analysis Batch: 33643 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18628-25	CS-25	Total/NA	Solid	Total BTEX	
880-18628-26	CS-26	Total/NA	Solid	Total BTEX	
880-18628-27	CS-27	Total/NA	Solid	Total BTEX	
880-18628-28	CS-28	Total/NA	Solid	Total BTEX	
880-18628-29	CS-29	Total/NA	Solid	Total BTEX	
880-18628-30	CS-30	Total/NA	Solid	Total BTEX	
880-18628-31	CS-31	Total/NA	Solid	Total BTEX	
880-18628-32	CS-32	Total/NA	Solid	Total BTEX	
880-18628-33	CS-33	Total/NA	Solid	Total BTEX	
880-18628-34	CS-34	Total/NA	Solid	Total BTEX	
880-18628-35	CS-35	Total/NA	Solid	Total BTEX	
880-18628-36	CS-36	Total/NA	Solid	Total BTEX	
880-18628-37	SW-9	Total/NA	Solid	Total BTEX	
880-18628-38	SW-10	Total/NA	Solid	Total BTEX	
880-18628-39	SW-11	Total/NA	Solid	Total BTEX	
880-18628-40	SW-12	Total/NA	Solid	Total BTEX	
880-18628-41	SP-1	Total/NA	Solid	Total BTEX	

Analysis Batch: 33695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18628-1	CS-1	Total/NA	Solid	8021B	33386
880-18628-2	CS-2	Total/NA	Solid	8021B	33386
880-18628-3	CS-3	Total/NA	Solid	8021B	33386
880-18628-4	CS-4	Total/NA	Solid	8021B	33386
880-18628-5	CS-5	Total/NA	Solid	8021B	33386
880-18628-6	CS-6	Total/NA	Solid	8021B	33386
880-18628-7	CS-7	Total/NA	Solid	8021B	33386
880-18628-8	CS-8	Total/NA	Solid	8021B	33386
880-18628-9	CS-9	Total/NA	Solid	8021B	33386
880-18628-10	CS-10	Total/NA	Solid	8021B	33386
880-18628-11	CS-11	Total/NA	Solid	8021B	33386
880-18628-12	CS-12	Total/NA	Solid	8021B	33386
880-18628-13	CS-13	Total/NA	Solid	8021B	33386
880-18628-14	CS-14	Total/NA	Solid	8021B	33386
880-18628-15	CS-15	Total/NA	Solid	8021B	33386
880-18628-16	CS-16	Total/NA	Solid	8021B	33386
880-18628-17	CS-17	Total/NA	Solid	8021B	33386
880-18628-18	CS-18	Total/NA	Solid	8021B	33386
880-18628-19	CS-19	Total/NA	Solid	8021B	33386
880-18628-20	CS-20	Total/NA	Solid	8021B	33386
MB 880-33386/5-A	Method Blank	Total/NA	Solid	8021B	33386
MB 880-33519/5-A	Method Blank	Total/NA	Solid	8021B	33519
LCS 880-33386/1-A	Lab Control Sample	Total/NA	Solid	8021B	33386
LCSD 880-33386/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	33386
880-18628-1 MS	CS-1	Total/NA	Solid	8021B	33386
880-18628-1 MSD	CS-1	Total/NA	Solid	8021B	33386

Prep Batch: 33888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-33888/5-A	Method Blank	Total/NA	Solid	5035	

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

GC VOA

Analysis Batch: 33897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18628-21	CS-21	Total/NA	Solid	8021B	33387
880-18628-22	CS-22	Total/NA	Solid	8021B	33387
880-18628-23	CS-23	Total/NA	Solid	8021B	33387
880-18628-24	CS-24	Total/NA	Solid	8021B	33387
880-18628-25	CS-25	Total/NA	Solid	8021B	33387
880-18628-26	CS-26	Total/NA	Solid	8021B	33387
880-18628-27	CS-27	Total/NA	Solid	8021B	33387
880-18628-28	CS-28	Total/NA	Solid	8021B	33387
880-18628-29	CS-29	Total/NA	Solid	8021B	33387
880-18628-30	CS-30	Total/NA	Solid	8021B	33387
880-18628-31	CS-31	Total/NA	Solid	8021B	33387
880-18628-32	CS-32	Total/NA	Solid	8021B	33387
880-18628-33	CS-33	Total/NA	Solid	8021B	33387
880-18628-34	CS-34	Total/NA	Solid	8021B	33387
880-18628-35	CS-35	Total/NA	Solid	8021B	33387
880-18628-36	CS-36	Total/NA	Solid	8021B	33387
880-18628-37	SW-9	Total/NA	Solid	8021B	33387
880-18628-38	SW-10	Total/NA	Solid	8021B	33387
880-18628-39	SW-11	Total/NA	Solid	8021B	33387
880-18628-40	SW-12	Total/NA	Solid	8021B	33387
MB 880-33387/5-A	Method Blank	Total/NA	Solid	8021B	33387
MB 880-33888/5-A	Method Blank	Total/NA	Solid	8021B	33888
LCS 880-33387/1-A	Lab Control Sample	Total/NA	Solid	8021B	33387
LCSD 880-33387/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	33387
880-18628-21 MS	CS-21	Total/NA	Solid	8021B	33387
880-18628-21 MSD	CS-21	Total/NA	Solid	8021B	33387

GC Semi VOA

Analysis Batch: 33305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18628-21	CS-21	Total/NA	Solid	8015B NM	33345
880-18628-22	CS-22	Total/NA	Solid	8015B NM	33345
880-18628-23	CS-23	Total/NA	Solid	8015B NM	33345
880-18628-24	CS-24	Total/NA	Solid	8015B NM	33345
880-18628-25	CS-25	Total/NA	Solid	8015B NM	33345
880-18628-26	CS-26	Total/NA	Solid	8015B NM	33345
880-18628-27	CS-27	Total/NA	Solid	8015B NM	33345
880-18628-28	CS-28	Total/NA	Solid	8015B NM	33345
880-18628-29	CS-29	Total/NA	Solid	8015B NM	33345
880-18628-30	CS-30	Total/NA	Solid	8015B NM	33345
880-18628-31	CS-31	Total/NA	Solid	8015B NM	33345
880-18628-32	CS-32	Total/NA	Solid	8015B NM	33345
880-18628-33	CS-33	Total/NA	Solid	8015B NM	33345
880-18628-34	CS-34	Total/NA	Solid	8015B NM	33345
880-18628-35	CS-35	Total/NA	Solid	8015B NM	33345
880-18628-36	CS-36	Total/NA	Solid	8015B NM	33345
880-18628-37	SW-9	Total/NA	Solid	8015B NM	33345
880-18628-38	SW-10	Total/NA	Solid	8015B NM	33345
880-18628-39	SW-11	Total/NA	Solid	8015B NM	33345
880-18628-40	SW-12	Total/NA	Solid	8015B NM	33345

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

GC Semi VOA (Continued)

Analysis Batch: 33305 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-33345/1-A	Method Blank	Total/NA	Solid	8015B NM	33345
LCS 880-33345/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	33345
LCSD 880-33345/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	33345
880-18628-21 MS	CS-21	Total/NA	Solid	8015B NM	33345
880-18628-21 MSD	CS-21	Total/NA	Solid	8015B NM	33345

Analysis Batch: 33307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18628-1	CS-1	Total/NA	Solid	8015B NM	33320
880-18628-2	CS-2	Total/NA	Solid	8015B NM	33320
880-18628-3	CS-3	Total/NA	Solid	8015B NM	33320
880-18628-4	CS-4	Total/NA	Solid	8015B NM	33320
880-18628-5	CS-5	Total/NA	Solid	8015B NM	33320
880-18628-6	CS-6	Total/NA	Solid	8015B NM	33320
880-18628-7	CS-7	Total/NA	Solid	8015B NM	33320
880-18628-8	CS-8	Total/NA	Solid	8015B NM	33320
880-18628-9	CS-9	Total/NA	Solid	8015B NM	33320
880-18628-10	CS-10	Total/NA	Solid	8015B NM	33320
880-18628-11	CS-11	Total/NA	Solid	8015B NM	33320
880-18628-12	CS-12	Total/NA	Solid	8015B NM	33320
880-18628-13	CS-13	Total/NA	Solid	8015B NM	33320
880-18628-14	CS-14	Total/NA	Solid	8015B NM	33320
880-18628-15	CS-15	Total/NA	Solid	8015B NM	33320
880-18628-16	CS-16	Total/NA	Solid	8015B NM	33320
880-18628-17	CS-17	Total/NA	Solid	8015B NM	33320
880-18628-18	CS-18	Total/NA	Solid	8015B NM	33320
880-18628-19	CS-19	Total/NA	Solid	8015B NM	33320
880-18628-20	CS-20	Total/NA	Solid	8015B NM	33320
MB 880-33320/1-A	Method Blank	Total/NA	Solid	8015B NM	33320
LCS 880-33320/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	33320
LCSD 880-33320/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	33320
880-18628-1 MS	CS-1	Total/NA	Solid	8015B NM	33320
880-18628-1 MSD	CS-1	Total/NA	Solid	8015B NM	33320

Prep Batch: 33313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18628-41	SP-1	Total/NA	Solid	8015NM Prep	
MB 880-33313/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-33313/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-33313/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2851-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2851-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 33320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18628-1	CS-1	Total/NA	Solid	8015NM Prep	
880-18628-2	CS-2	Total/NA	Solid	8015NM Prep	
880-18628-3	CS-3	Total/NA	Solid	8015NM Prep	
880-18628-4	CS-4	Total/NA	Solid	8015NM Prep	
880-18628-5	CS-5	Total/NA	Solid	8015NM Prep	
880-18628-6	CS-6	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

GC Semi VOA (Continued)

Prep Batch: 33320 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18628-7	CS-7	Total/NA	Solid	8015NM Prep	
880-18628-8	CS-8	Total/NA	Solid	8015NM Prep	
880-18628-9	CS-9	Total/NA	Solid	8015NM Prep	
880-18628-10	CS-10	Total/NA	Solid	8015NM Prep	
880-18628-11	CS-11	Total/NA	Solid	8015NM Prep	
880-18628-12	CS-12	Total/NA	Solid	8015NM Prep	
880-18628-13	CS-13	Total/NA	Solid	8015NM Prep	
880-18628-14	CS-14	Total/NA	Solid	8015NM Prep	
880-18628-15	CS-15	Total/NA	Solid	8015NM Prep	
880-18628-16	CS-16	Total/NA	Solid	8015NM Prep	
880-18628-17	CS-17	Total/NA	Solid	8015NM Prep	
880-18628-18	CS-18	Total/NA	Solid	8015NM Prep	
880-18628-19	CS-19	Total/NA	Solid	8015NM Prep	
880-18628-20	CS-20	Total/NA	Solid	8015NM Prep	
MB 880-33320/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-33320/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-33320/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-18628-1 MS	CS-1	Total/NA	Solid	8015NM Prep	
880-18628-1 MSD	CS-1	Total/NA	Solid	8015NM Prep	

Prep Batch: 33345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18628-21	CS-21	Total/NA	Solid	8015NM Prep	
880-18628-22	CS-22	Total/NA	Solid	8015NM Prep	
880-18628-23	CS-23	Total/NA	Solid	8015NM Prep	
880-18628-24	CS-24	Total/NA	Solid	8015NM Prep	
880-18628-25	CS-25	Total/NA	Solid	8015NM Prep	
880-18628-26	CS-26	Total/NA	Solid	8015NM Prep	
880-18628-27	CS-27	Total/NA	Solid	8015NM Prep	
880-18628-28	CS-28	Total/NA	Solid	8015NM Prep	
880-18628-29	CS-29	Total/NA	Solid	8015NM Prep	
880-18628-30	CS-30	Total/NA	Solid	8015NM Prep	
880-18628-31	CS-31	Total/NA	Solid	8015NM Prep	
880-18628-32	CS-32	Total/NA	Solid	8015NM Prep	
880-18628-33	CS-33	Total/NA	Solid	8015NM Prep	
880-18628-34	CS-34	Total/NA	Solid	8015NM Prep	
880-18628-35	CS-35	Total/NA	Solid	8015NM Prep	
880-18628-36	CS-36	Total/NA	Solid	8015NM Prep	
880-18628-37	SW-9	Total/NA	Solid	8015NM Prep	
880-18628-38	SW-10	Total/NA	Solid	8015NM Prep	
880-18628-39	SW-11	Total/NA	Solid	8015NM Prep	
880-18628-40	SW-12	Total/NA	Solid	8015NM Prep	
MB 880-33345/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-33345/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-33345/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-18628-21 MS	CS-21	Total/NA	Solid	8015NM Prep	
880-18628-21 MSD	CS-21	Total/NA	Solid	8015NM Prep	

Analysis Batch: 33403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18628-41	SP-1	Total/NA	Solid	8015B NM	33313

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

GC Semi VOA (Continued)

Analysis Batch: 33403 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-33313/1-A	Method Blank	Total/NA	Solid	8015B NM	33313
LCS 880-33313/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	33313
LCSD 880-33313/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	33313
890-2851-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	33313
890-2851-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	33313

Analysis Batch: 33436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18628-1	CS-1	Total/NA	Solid	8015 NM	
880-18628-2	CS-2	Total/NA	Solid	8015 NM	
880-18628-3	CS-3	Total/NA	Solid	8015 NM	
880-18628-4	CS-4	Total/NA	Solid	8015 NM	
880-18628-5	CS-5	Total/NA	Solid	8015 NM	
880-18628-6	CS-6	Total/NA	Solid	8015 NM	
880-18628-7	CS-7	Total/NA	Solid	8015 NM	
880-18628-8	CS-8	Total/NA	Solid	8015 NM	
880-18628-9	CS-9	Total/NA	Solid	8015 NM	
880-18628-10	CS-10	Total/NA	Solid	8015 NM	
880-18628-11	CS-11	Total/NA	Solid	8015 NM	
880-18628-12	CS-12	Total/NA	Solid	8015 NM	
880-18628-13	CS-13	Total/NA	Solid	8015 NM	
880-18628-14	CS-14	Total/NA	Solid	8015 NM	
880-18628-15	CS-15	Total/NA	Solid	8015 NM	
880-18628-16	CS-16	Total/NA	Solid	8015 NM	
880-18628-17	CS-17	Total/NA	Solid	8015 NM	
880-18628-18	CS-18	Total/NA	Solid	8015 NM	
880-18628-19	CS-19	Total/NA	Solid	8015 NM	
880-18628-20	CS-20	Total/NA	Solid	8015 NM	
880-18628-21	CS-21	Total/NA	Solid	8015 NM	
880-18628-22	CS-22	Total/NA	Solid	8015 NM	
880-18628-23	CS-23	Total/NA	Solid	8015 NM	
880-18628-24	CS-24	Total/NA	Solid	8015 NM	
880-18628-25	CS-25	Total/NA	Solid	8015 NM	
880-18628-26	CS-26	Total/NA	Solid	8015 NM	
880-18628-27	CS-27	Total/NA	Solid	8015 NM	
880-18628-28	CS-28	Total/NA	Solid	8015 NM	
880-18628-29	CS-29	Total/NA	Solid	8015 NM	
880-18628-30	CS-30	Total/NA	Solid	8015 NM	
880-18628-31	CS-31	Total/NA	Solid	8015 NM	
880-18628-32	CS-32	Total/NA	Solid	8015 NM	
880-18628-33	CS-33	Total/NA	Solid	8015 NM	
880-18628-34	CS-34	Total/NA	Solid	8015 NM	
880-18628-35	CS-35	Total/NA	Solid	8015 NM	
880-18628-36	CS-36	Total/NA	Solid	8015 NM	
880-18628-37	SW-9	Total/NA	Solid	8015 NM	
880-18628-38	SW-10	Total/NA	Solid	8015 NM	
880-18628-39	SW-11	Total/NA	Solid	8015 NM	
880-18628-40	SW-12	Total/NA	Solid	8015 NM	
880-18628-41	SP-1	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

HPLC/IC

Leach Batch: 33237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18628-41	SP-1	Soluble	Solid	DI Leach	
MB 880-33237/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-33237/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-33237/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-18628-41 MS	SP-1	Soluble	Solid	DI Leach	
880-18628-41 MSD	SP-1	Soluble	Solid	DI Leach	

Leach Batch: 33302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18628-1	CS-1	Soluble	Solid	DI Leach	
880-18628-2	CS-2	Soluble	Solid	DI Leach	
880-18628-3	CS-3	Soluble	Solid	DI Leach	
880-18628-4	CS-4	Soluble	Solid	DI Leach	
880-18628-5	CS-5	Soluble	Solid	DI Leach	
880-18628-6	CS-6	Soluble	Solid	DI Leach	
880-18628-7	CS-7	Soluble	Solid	DI Leach	
880-18628-8	CS-8	Soluble	Solid	DI Leach	
880-18628-9	CS-9	Soluble	Solid	DI Leach	
880-18628-10	CS-10	Soluble	Solid	DI Leach	
880-18628-11	CS-11	Soluble	Solid	DI Leach	
880-18628-12	CS-12	Soluble	Solid	DI Leach	
880-18628-13	CS-13	Soluble	Solid	DI Leach	
880-18628-14	CS-14	Soluble	Solid	DI Leach	
880-18628-15	CS-15	Soluble	Solid	DI Leach	
880-18628-16	CS-16	Soluble	Solid	DI Leach	
880-18628-17	CS-17	Soluble	Solid	DI Leach	
880-18628-18	CS-18	Soluble	Solid	DI Leach	
880-18628-19	CS-19	Soluble	Solid	DI Leach	
880-18628-20	CS-20	Soluble	Solid	DI Leach	
MB 880-33302/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-33302/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-33302/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-18628-1 MS	CS-1	Soluble	Solid	DI Leach	
880-18628-1 MSD	CS-1	Soluble	Solid	DI Leach	
880-18628-11 MS	CS-11	Soluble	Solid	DI Leach	
880-18628-11 MSD	CS-11	Soluble	Solid	DI Leach	

Leach Batch: 33303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18628-21	CS-21	Soluble	Solid	DI Leach	
880-18628-22	CS-22	Soluble	Solid	DI Leach	
880-18628-23	CS-23	Soluble	Solid	DI Leach	
880-18628-24	CS-24	Soluble	Solid	DI Leach	
880-18628-25	CS-25	Soluble	Solid	DI Leach	
880-18628-26	CS-26	Soluble	Solid	DI Leach	
880-18628-27	CS-27	Soluble	Solid	DI Leach	
880-18628-28	CS-28	Soluble	Solid	DI Leach	
880-18628-29	CS-29	Soluble	Solid	DI Leach	
880-18628-30	CS-30	Soluble	Solid	DI Leach	
880-18628-31	CS-31	Soluble	Solid	DI Leach	
880-18628-32	CS-32	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

HPLC/IC (Continued)

Leach Batch: 33303 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18628-33	CS-33	Soluble	Solid	DI Leach	
880-18628-34	CS-34	Soluble	Solid	DI Leach	
880-18628-35	CS-35	Soluble	Solid	DI Leach	
880-18628-36	CS-36	Soluble	Solid	DI Leach	
880-18628-37	SW-9	Soluble	Solid	DI Leach	
880-18628-38	SW-10	Soluble	Solid	DI Leach	
880-18628-39	SW-11	Soluble	Solid	DI Leach	
880-18628-40	SW-12	Soluble	Solid	DI Leach	
MB 880-33303/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-33303/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-33303/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-18628-21 MS	CS-21	Soluble	Solid	DI Leach	
880-18628-21 MSD	CS-21	Soluble	Solid	DI Leach	
880-18628-31 MS	CS-31	Soluble	Solid	DI Leach	
880-18628-31 MSD	CS-31	Soluble	Solid	DI Leach	

Analysis Batch: 33359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18628-1	CS-1	Soluble	Solid	300.0	33302
880-18628-2	CS-2	Soluble	Solid	300.0	33302
880-18628-3	CS-3	Soluble	Solid	300.0	33302
880-18628-4	CS-4	Soluble	Solid	300.0	33302
880-18628-5	CS-5	Soluble	Solid	300.0	33302
880-18628-6	CS-6	Soluble	Solid	300.0	33302
880-18628-7	CS-7	Soluble	Solid	300.0	33302
880-18628-8	CS-8	Soluble	Solid	300.0	33302
880-18628-9	CS-9	Soluble	Solid	300.0	33302
880-18628-10	CS-10	Soluble	Solid	300.0	33302
880-18628-11	CS-11	Soluble	Solid	300.0	33302
880-18628-12	CS-12	Soluble	Solid	300.0	33302
880-18628-13	CS-13	Soluble	Solid	300.0	33302
880-18628-14	CS-14	Soluble	Solid	300.0	33302
880-18628-15	CS-15	Soluble	Solid	300.0	33302
880-18628-16	CS-16	Soluble	Solid	300.0	33302
880-18628-17	CS-17	Soluble	Solid	300.0	33302
880-18628-18	CS-18	Soluble	Solid	300.0	33302
880-18628-19	CS-19	Soluble	Solid	300.0	33302
880-18628-20	CS-20	Soluble	Solid	300.0	33302
MB 880-33302/1-A	Method Blank	Soluble	Solid	300.0	33302
LCS 880-33302/2-A	Lab Control Sample	Soluble	Solid	300.0	33302
LCSD 880-33302/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	33302
880-18628-1 MS	CS-1	Soluble	Solid	300.0	33302
880-18628-1 MSD	CS-1	Soluble	Solid	300.0	33302
880-18628-11 MS	CS-11	Soluble	Solid	300.0	33302
880-18628-11 MSD	CS-11	Soluble	Solid	300.0	33302

Analysis Batch: 33364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18628-21	CS-21	Soluble	Solid	300.0	33303
880-18628-22	CS-22	Soluble	Solid	300.0	33303
880-18628-23	CS-23	Soluble	Solid	300.0	33303

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

HPLC/IC (Continued)

Analysis Batch: 33364 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18628-24	CS-24	Soluble	Solid	300.0	33303
880-18628-25	CS-25	Soluble	Solid	300.0	33303
880-18628-26	CS-26	Soluble	Solid	300.0	33303
880-18628-27	CS-27	Soluble	Solid	300.0	33303
880-18628-28	CS-28	Soluble	Solid	300.0	33303
880-18628-29	CS-29	Soluble	Solid	300.0	33303
880-18628-30	CS-30	Soluble	Solid	300.0	33303
880-18628-31	CS-31	Soluble	Solid	300.0	33303
880-18628-32	CS-32	Soluble	Solid	300.0	33303
880-18628-33	CS-33	Soluble	Solid	300.0	33303
880-18628-34	CS-34	Soluble	Solid	300.0	33303
880-18628-35	CS-35	Soluble	Solid	300.0	33303
880-18628-36	CS-36	Soluble	Solid	300.0	33303
880-18628-37	SW-9	Soluble	Solid	300.0	33303
880-18628-38	SW-10	Soluble	Solid	300.0	33303
880-18628-39	SW-11	Soluble	Solid	300.0	33303
880-18628-40	SW-12	Soluble	Solid	300.0	33303
MB 880-33303/1-A	Method Blank	Soluble	Solid	300.0	33303
LCS 880-33303/2-A	Lab Control Sample	Soluble	Solid	300.0	33303
LCSD 880-33303/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	33303
880-18628-21 MS	CS-21	Soluble	Solid	300.0	33303
880-18628-21 MSD	CS-21	Soluble	Solid	300.0	33303
880-18628-31 MS	CS-31	Soluble	Solid	300.0	33303
880-18628-31 MSD	CS-31	Soluble	Solid	300.0	33303

Analysis Batch: 33366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18628-41	SP-1	Soluble	Solid	300.0	33237
MB 880-33237/1-A	Method Blank	Soluble	Solid	300.0	33237
LCS 880-33237/2-A	Lab Control Sample	Soluble	Solid	300.0	33237
LCSD 880-33237/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	33237
880-18628-41 MS	SP-1	Soluble	Solid	300.0	33237
880-18628-41 MSD	SP-1	Soluble	Solid	300.0	33237

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-1

Date Collected: 08/29/22 00:00

Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	33386	08/30/22 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33695	09/04/22 19:59	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33320	08/30/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33307	08/30/22 21:19	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	33302	08/30/22 09:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33359	08/31/22 04:07	CH	EET MID

Client Sample ID: CS-2

Date Collected: 08/29/22 00:00

Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-2

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	33386	08/30/22 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33695	09/04/22 20:19	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	33320	08/30/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33307	08/30/22 22:23	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	33302	08/30/22 09:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33359	08/31/22 04:28	CH	EET MID

Client Sample ID: CS-3

Date Collected: 08/29/22 00:00

Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	33386	08/30/22 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33695	09/04/22 20:40	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33320	08/30/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33307	08/30/22 22:45	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	33302	08/30/22 09:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33359	08/31/22 04:34	CH	EET MID

Client Sample ID: CS-4

Date Collected: 08/29/22 00:00

Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33386	08/30/22 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33695	09/04/22 21:00	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-4

Date Collected: 08/29/22 00:00

Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33320	08/30/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33307	08/30/22 23:06	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	33302	08/30/22 09:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33359	08/31/22 04:41	CH	EET MID

Client Sample ID: CS-5

Date Collected: 08/29/22 00:00

Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	33386	08/30/22 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33695	09/04/22 21:21	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33320	08/30/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33307	08/30/22 23:28	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	33302	08/30/22 09:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33359	08/31/22 04:48	CH	EET MID

Client Sample ID: CS-6

Date Collected: 08/29/22 00:00

Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33386	08/30/22 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33695	09/04/22 21:42	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33320	08/30/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33307	08/30/22 23:50	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	33302	08/30/22 09:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33359	08/31/22 05:09	CH	EET MID

Client Sample ID: CS-7

Date Collected: 08/29/22 00:00

Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	33386	08/30/22 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33695	09/04/22 22:02	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33320	08/30/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33307	08/31/22 00:12	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-7

Date Collected: 08/29/22 00:00

Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-7

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			4.97 g	50 mL	33302	08/30/22 09:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33359	08/31/22 05:16	CH	EET MID

Client Sample ID: CS-8

Date Collected: 08/29/22 00:00

Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33386	08/30/22 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33695	09/04/22 22:22	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	33320	08/30/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33307	08/31/22 00:34	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	33302	08/30/22 09:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33359	08/31/22 05:22	CH	EET MID

Client Sample ID: CS-9

Date Collected: 08/29/22 00:00

Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	33386	08/30/22 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33695	09/04/22 22:43	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33320	08/30/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33307	08/31/22 00:55	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	33302	08/30/22 09:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33359	08/31/22 05:29	CH	EET MID

Client Sample ID: CS-10

Date Collected: 08/29/22 00:00

Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-10

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	33386	08/30/22 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33695	09/04/22 23:03	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33320	08/30/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33307	08/31/22 01:17	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	33302	08/30/22 09:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33359	08/31/22 05:36	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-11

Lab Sample ID: 880-18628-11

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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	33386	08/30/22 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33695	09/05/22 00:25	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	33320	08/30/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33307	08/31/22 02:01	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	33302	08/30/22 09:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33359	08/31/22 05:43	CH	EET MID

Client Sample ID: CS-12

Lab Sample ID: 880-18628-12

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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	33386	08/30/22 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33695	09/05/22 00:46	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	33320	08/30/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33307	08/31/22 02:23	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	33302	08/30/22 09:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33359	08/31/22 06:04	CH	EET MID

Client Sample ID: CS-13

Lab Sample ID: 880-18628-13

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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	33386	08/30/22 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33695	09/05/22 01:06	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33320	08/30/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33307	08/31/22 02:45	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	33302	08/30/22 09:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33359	08/31/22 06:10	CH	EET MID

Client Sample ID: CS-14

Lab Sample ID: 880-18628-14

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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	33386	08/30/22 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33695	09/05/22 01:27	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-14

Lab Sample ID: 880-18628-14

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	33320	08/30/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33307	08/31/22 03:07	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	33302	08/30/22 09:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33359	08/31/22 06:31	CH	EET MID

Client Sample ID: CS-15

Lab Sample ID: 880-18628-15

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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	33386	08/30/22 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33695	09/05/22 01:47	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33320	08/30/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33307	08/31/22 03:28	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	33302	08/30/22 09:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33359	08/31/22 06:38	CH	EET MID

Client Sample ID: CS-16

Lab Sample ID: 880-18628-16

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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	33386	08/30/22 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33695	09/05/22 02:08	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	33320	08/30/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33307	08/31/22 03:50	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	33302	08/30/22 09:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33359	08/31/22 06:45	CH	EET MID

Client Sample ID: CS-17

Lab Sample ID: 880-18628-17

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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	33386	08/30/22 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33695	09/05/22 02:28	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33320	08/30/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33307	08/31/22 04:12	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-17

Date Collected: 08/29/22 00:00

Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	33302	08/30/22 09:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33359	08/31/22 06:51	CH	EET MID

Client Sample ID: CS-18

Date Collected: 08/29/22 00:00

Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	33386	08/30/22 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33695	09/05/22 02:48	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	33320	08/30/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33307	08/31/22 04:33	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	33302	08/30/22 09:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33359	08/31/22 06:58	CH	EET MID

Client Sample ID: CS-19

Date Collected: 08/29/22 00:00

Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	33386	08/30/22 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33695	09/05/22 03:09	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	33320	08/30/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33307	08/31/22 04:55	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	33302	08/30/22 09:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33359	08/31/22 07:05	CH	EET MID

Client Sample ID: CS-20

Date Collected: 08/29/22 00:00

Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33386	08/30/22 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33695	09/05/22 03:29	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33320	08/30/22 09:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33307	08/31/22 05:17	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	33302	08/30/22 09:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33359	08/31/22 07:12	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-21

Lab Sample ID: 880-18628-21

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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	33387	08/30/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/08/22 00:44	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33345	08/30/22 10:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/30/22 21:19	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	33303	08/30/22 09:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33364	08/30/22 20:46	CH	EET MID

Client Sample ID: CS-22

Lab Sample ID: 880-18628-22

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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	33387	08/30/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/08/22 01:05	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	33345	08/30/22 10:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/30/22 22:23	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	33303	08/30/22 09:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33364	08/30/22 21:14	CH	EET MID

Client Sample ID: CS-23

Lab Sample ID: 880-18628-23

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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	33387	08/30/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/08/22 01:25	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33345	08/30/22 10:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/30/22 22:45	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	33303	08/30/22 09:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33364	08/30/22 21:23	CH	EET MID

Client Sample ID: CS-24

Lab Sample ID: 880-18628-24

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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	33387	08/30/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/08/22 01:46	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-24

Lab Sample ID: 880-18628-24

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33345	08/30/22 10:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/30/22 23:06	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	33303	08/30/22 09:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33364	08/30/22 21:32	CH	EET MID

Client Sample ID: CS-25

Lab Sample ID: 880-18628-25

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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	33387	08/30/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/08/22 02:06	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33345	08/30/22 10:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/30/22 23:28	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	33303	08/30/22 09:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33364	08/30/22 21:42	CH	EET MID

Client Sample ID: CS-26

Lab Sample ID: 880-18628-26

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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	33387	08/30/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/08/22 02:26	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33345	08/30/22 10:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/30/22 23:50	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	33303	08/30/22 09:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33364	08/30/22 22:09	CH	EET MID

Client Sample ID: CS-27

Lab Sample ID: 880-18628-27

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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	33387	08/30/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/08/22 02:47	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33345	08/30/22 10:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/31/22 00:12	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-27

Lab Sample ID: 880-18628-27

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	33303	08/30/22 09:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33364	08/30/22 22:18	CH	EET MID

Client Sample ID: CS-28

Lab Sample ID: 880-18628-28

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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	33387	08/30/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/08/22 03:07	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	33345	08/30/22 10:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/31/22 00:34	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	33303	08/30/22 09:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33364	08/30/22 22:28	CH	EET MID

Client Sample ID: CS-29

Lab Sample ID: 880-18628-29

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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	33387	08/30/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/08/22 03:28	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33345	08/30/22 10:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/31/22 00:55	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	33303	08/30/22 09:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33364	08/30/22 22:37	CH	EET MID

Client Sample ID: CS-30

Lab Sample ID: 880-18628-30

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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	33387	08/30/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/08/22 03:48	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33345	08/30/22 10:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/31/22 01:17	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	33303	08/30/22 09:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33364	08/30/22 22:46	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-31

Lab Sample ID: 880-18628-31

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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	33387	08/30/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/08/22 05:37	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	33345	08/30/22 10:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/31/22 02:01	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	33303	08/30/22 09:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33364	08/30/22 22:55	CH	EET MID

Client Sample ID: CS-32

Lab Sample ID: 880-18628-32

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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	33387	08/30/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/08/22 05:58	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	33345	08/30/22 10:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/31/22 02:23	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	33303	08/30/22 09:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33364	08/30/22 23:23	CH	EET MID

Client Sample ID: CS-33

Lab Sample ID: 880-18628-33

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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	33387	08/30/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/08/22 06:18	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33345	08/30/22 10:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/31/22 02:45	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	33303	08/30/22 09:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33364	08/30/22 23:32	CH	EET MID

Client Sample ID: CS-34

Lab Sample ID: 880-18628-34

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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	33387	08/30/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/08/22 06:39	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: CS-34

Lab Sample ID: 880-18628-34

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	33345	08/30/22 10:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/31/22 03:07	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	33303	08/30/22 09:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33364	08/31/22 00:00	CH	EET MID

Client Sample ID: CS-35

Lab Sample ID: 880-18628-35

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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	33387	08/30/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/08/22 06:59	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33345	08/30/22 10:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/31/22 03:28	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	33303	08/30/22 09:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33364	08/31/22 00:09	CH	EET MID

Client Sample ID: CS-36

Lab Sample ID: 880-18628-36

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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	33387	08/30/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/08/22 07:20	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	33345	08/30/22 10:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/31/22 03:50	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	33303	08/30/22 09:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33364	08/31/22 00:18	CH	EET MID

Client Sample ID: SW-9

Lab Sample ID: 880-18628-37

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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	33387	08/30/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/08/22 07:40	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33345	08/30/22 10:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/31/22 04:12	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: SW-9

Lab Sample ID: 880-18628-37

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	33303	08/30/22 09:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33364	08/31/22 00:27	CH	EET MID

Client Sample ID: SW-10

Lab Sample ID: 880-18628-38

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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	33387	08/30/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/08/22 08:00	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	33345	08/30/22 10:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/31/22 04:33	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	33303	08/30/22 09:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33364	08/31/22 00:36	CH	EET MID

Client Sample ID: SW-11

Lab Sample ID: 880-18628-39

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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	33387	08/30/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/08/22 08:21	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	33345	08/30/22 10:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/31/22 04:55	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	33303	08/30/22 09:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33364	08/31/22 00:46	CH	EET MID

Client Sample ID: SW-12

Lab Sample ID: 880-18628-40

Date Collected: 08/29/22 00:00

Matrix: Solid

Date Received: 08/29/22 17:01

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	33387	08/30/22 16:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33897	09/08/22 08:41	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33345	08/30/22 10:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33305	08/31/22 05:17	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	33303	08/30/22 09:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33364	08/31/22 00:55	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Client Sample ID: SP-1
Date Collected: 08/29/22 00:00
Date Received: 08/29/22 17:01

Lab Sample ID: 880-18628-41
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	33466	08/31/22 14:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33557	09/02/22 02:25	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33643	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33436	08/31/22 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33313	08/30/22 09:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33403	08/31/22 13:19	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	33237	08/30/22 10:13	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33366	08/31/22 09:40	CH	EET MID

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

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

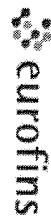
Eurofins Midland

Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-18628-1
SDG: 1246

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-18628-1	CS-1	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-2	CS-2	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-3	CS-3	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-4	CS-4	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-5	CS-5	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-6	CS-6	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-7	CS-7	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-8	CS-8	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-9	CS-9	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-10	CS-10	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-11	CS-11	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-12	CS-12	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-13	CS-13	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-14	CS-14	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-15	CS-15	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-16	CS-16	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-17	CS-17	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-18	CS-18	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-19	CS-19	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-20	CS-20	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-21	CS-21	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-22	CS-22	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-23	CS-23	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-24	CS-24	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-25	CS-25	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-26	CS-26	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-27	CS-27	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-28	CS-28	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-29	CS-29	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-30	CS-30	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-31	CS-31	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-32	CS-32	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-33	CS-33	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-34	CS-34	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-35	CS-35	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-36	CS-36	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-37	SW-9	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-38	SW-10	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-39	SW-11	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-40	SW-12	Solid	08/29/22 00:00	08/29/22 17:01
880-18628-41	SP-1	Solid	08/29/22 00:00	08/29/22 17:01



Environment
Xenon

Houston, TX (281) 240-4200 Dallas TX (214) 902-0330
Midland TX (432) 704-5440 San Antonio, TX (210) 508-3834
El Paso TX (915) 585-3443 Lubbock TX (806) 794 1286
Hobbs, NM (575) 392-7550 Carlsbad NM (575) 988-3199

Chain of Custody

Work Order No:

1000

www.xenco.com Page 1 of 5

Project Manager	Tom Carlson	Bill to: (if different)	ESRR
Company Name:	Earth Systems R&R	Company Name:	
Address:	4115 S CR 1297	Address:	
City, State ZIP:	Odessa, Texas, 79765	City, State ZIP:	
Phone:	432-894-6385	Email	Tcarlson@earthsys.net

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other	

Project Name:	CTR 130		Turn Around	
Project Number:	1246		☐ Routine	☒ Rush
Project Location:			Due Date:	2 day
Sampler's Name	Tom Carlson		TAT starts the day received by the lab, if received by 4:30pm	
PO #:				
SAMPLE RECEIPT	Temp Blank:	Yes ☒ No ☒	Yes ☒ No ☒	Water Ice: Yes ☒ No ☒
	Samples Received Intact:	Yes ☒ No ☒	Thermometer ID:	128
	Cooler Custody Seals:	Yes ☒ No ☒	Correction Factor:	0.2
	Sample Custody Seals:	Yes ☒ No ☒	Temperature Reading:	1.6
	Total Containers:		Corrected Temperature:	1.8

ANALYSIS REQUEST							Preservative Codes	
Pres. Code								
							None: NO	DI Water H ₂ O
							Coat: Coat	MeOH Me
							HCL HC	HNO ₃ HN
							H ₂ SO ₄ H ₂	NaOH Na
							H ₃ PO ₄ HP	
							NaHSO ₄ NABIS	
							Na ₂ S ₂ O ₃ NaSO ₃	
							Zn Acetate+NaOH Zn	
							NaOH+Ascorbic Acid, SAPC	

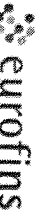
[illegible]

000-18628 Chain of Custody

Circle Method(s) and Metal(s) to be analyzed	200.7 / 6010	200.8 / 6020:
8RCRA	13PPM	Texas 11
TLCL / SPLP 6010	8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U
		Hg, 1631 / 245, 17, 7470 / 77471

Notice: Signature of this document is required for the assignment of samples constitutes a valid purchase order from client company to Eurofins Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xeno. A minimum charge of \$85.00 will be applied to each proper and a charge of \$5 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
		8/29/22			



Environment Testing
Xenoco

Houston TX (281) 240-4200 Dallas TX (214) 902-0300
Midland TX (432) 704-5440 San Antonio TX (210) 509-3334
El Paso TX (915) 595-3443 Lubbock TX (806) 794-1296
Hobbs NM (575) 382-7550 Carlsbad NM (575) 988-3199

Chain of Custody

Work Order No:

18428

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Page 2 of 5

Project Manager	Tom Carlson	Bill to: (if different)	ESRR
Company Name	Earth Systems R&R	Company Name:	
Address	4115 S CR 1297	Address:	
City, State ZIP	Odessa, Texas 79765	City, State ZIP	
Phone:	432-894-6385	Email	TCarlson@earthsys.net

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ Adapt ☐ Other	

Project Name	CTB 130	Turn Around	☐ Routine ☒ Rush	Pres. Code	ANALYSIS REQUEST																Preservative Codes	
Project Number	1246	Due Date	2 day																		None, NO	
Sampler's Name	Tom Carlson	TAT starts the day received by the lab if received by 4:30pm																				DI Water H ₂ O
PO #		Temp Blank	Yes ☒ No ☐	Wet Ice	Yes ☒ No ☐																	Cool Cool
SAMPLE RECEIPT		Samples Received Intact	Yes ☒ No ☐	Thermometer ID	0.2																	HCL HC
Cooler Custody Seals	Yes ☒ No ☐	Correction Factor																				H ₂ SO ₄ H ₂
Sample Custody Seals	Yes ☒ No ☐	Temperature Reading																				H ₄ PO ₃ HP
Total Containers		Corrected Temperature	1.8																			NaHSO ₄ NABIS
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grav/Comp	# of Cont	Chlorides	TPH 8015	BTEX 8021												Na ₂ S O ₃ NaSO ₃	
CS-11	S	8/29/2022		2 - 2.5	Comp	1	X	X	X								Zn Acetate+NaOH Zn					
CS-12	S	8/29/2022		2 - 2.5	Comp	1	X	X	X								NaOH+Ascorbic Acid SAPC					
CS-13	S	8/29/2022		2 - 2.5	Comp	1	X	X	X													
CS-14	S	8/29/2022		2 - 2.5	Comp	1	X	X	X													
CS-15	S	8/29/2022		2 - 2.5	Comp	1	X	X	X													
CS-16	S	8/29/2022		2 - 2.5	Comp	1	X	X	X													
CS-17	S	8/29/2022		2 - 2.5	Comp	1	X	X	X													
CS-18	S	8/29/2022		2 - 2.5	Comp	1	X	X	X													
CS-19	S	8/29/2022		2 - 2.5	Comp	1	X	X	X													
CS-20	S	8/29/2022		2 - 2.5	Comp	1	X	X	X													

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed

TCLP / SPLP 6010

8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

Hg 1631 / 2451 / 7470 / 7471

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		8/29/22			



Environment Testing
Xenco

Houston, TX (261) 240-4200 Dallas, TX (214) 902-0300
Midland TX (432) 704-5440, San Antonio, TX (210) 508-3333
El Paso TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392 7550 Carlsbad NM (575) 988-3199

Chain of Custody

Work Order No: 10680

www.xenco.com Page 2 of 2

Project Manager	Tom Carlson	Bill to: (if different)	ESRR
Company Name:	Earth Systems R&R	Company Name:	
Address:	4115 S CR 1297	Address:	
City, State Zip	Odessa, Texas, 79765	City, State Zip	
Phone:	432-894-6385	Email:	lcarlson@earthsys.net

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project.

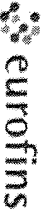
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADAPT ☐ Other

[illegible]

Total	200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Tl	Sn	U	V	Zn
Circle Method(s) and Metal(s)	to be analyzed		TCLP/SPLP 6010- 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 245 1 / 7470 / 7471																														

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		4
		1701
		6



Environment Testing
Kc, CO

Chain of Custody

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Midland, TX (432) 704-5440 San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550 Carlsbad, NM (575) 985-3199

Work Order No:

18028

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Page

41 of 5

Project Manager	Tom Carlson	Bill to: (if different)	ESRR
Company Name:	Earth Systems R&R	Company Name:	
Address:	4115 S CR 1297	Address:	
City, State ZIP	Odessa, Texas, 79765	City, State ZIP	
Phone	432-894-6385	Email:	Tcarlson@earthsys.net

Work Order Comments	
Program, UST/PST	☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting, Level II	☐ Level III ☐ PST/IST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD	☐ ADAPT ☐ Other

Project Name:	CTB 130	Turn Around	Pres. Code	ANALYSIS REQUEST																Preservative Codes																					
Project Number:	1246	☐ Routine ☒ Rush																		None NO DI Water H ₂ O Cooler Cool MeOH Me HCL, HC HNO ₃ HN H ₂ SO ₄ H ₂ H ₃ PO ₄ HP NaHSO ₄ NABIS Na ₂ S ₂ O ₃ NaSO- Zn Acetate+NaOH Zn NaOH+Ascorbic Acid SAPC																					
Project Location:		Due Date:	2 day																																						
Sampler's Name:	Tom Carlson	TAT starts the day received by the lab, if received by 4:30pm																																							
PO #:																																									
SAMPLE RECEIPT				Temp Blank	Yes (No)	Well Ice:	(Yes) No																																		
Samples Received Intact				Yes (No)	Thermometer ID																																				
Cooler Custody Seals				Yes (No)	Correction Factor																																				
Sample Custody Seals				Yes (No)	Temperature Reading																																				
Total Containers:				Yes (No)	Corrected Temperature																																				
Sample Identification				Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Chlorides	TPH 8015	BTEX 8021														Sample Comments															
CS-31				S	8/29/2022		2-2.5	Comp	1	X	X	X																													
CS-32				S	8/29/2022		2-2.5	Comp	1	X	X	X																													
CS-33				S	8/29/2022		2-2.5	Comp	1	X	X	X																													
CS-34				S	8/29/2022		2-2.5	Comp	1	X	X	X																													
CS-35				S	8/29/2022		2-2.5	Comp	1	X	X	X																													
CS-36				S	8/29/2022		2-2.5	Comp	1	X	X	X																													
SW-9				S	8/29/2022		1	Comp	1	X	X	X																													
SW-10				S	8/29/2022		1	Comp	1	X	X	X																													
SW-11				S	8/29/2022		1	Comp	1	X	X	X																													
SW-12				S	8/29/2022		1	Comp	1	X	X	X																													

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 245 / 7470 / 7471

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Erwin J. Kent Testifies
Xerox

Chain of Custody

Work Order No:

1842

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Project Manager	Tom Carlson	Bill to: (if different)	ESRR
Company Name	Earth Systems, R&R	Company Name:	
Address:	4115 S CR 1297	Address:	
City State ZIP	Odessa, Texas, 79765	City State ZIP	
Phone:	432-894-6385	Email	Tcarlson@earthsys.net

Work Order Comments

Program, USTYST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:

Reporting: Level II ☐ Level III ☐ PSTUST ☐ TRRP ☐ Level IV ☐
Deliverables, EDD ☐ ADAPT ☐ Other

Project Name		CTB 130		Turn Around		Project Number		1246		☐ Routine ☒ Rush		Due Date		2 day		Project Location:		Torn Carlson		Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm		PO #:		Pres. Code ANALYSIS REQUEST		Preservative Codes			
SAMPLE RECEIPT		Temp Blank:		Yes ☒ No ☐		Wet Ice:		Yes ☐ No ☒																							
Samples Received Intact:		☒ Yes ☐ No		Thermometer ID:																											
Cooler Custody Seals:		Yes ☐ No ☒		Correction Factor:																											
Sample Custody Seals:		Yes ☐ No ☒		Temperature Reading																											
Total Containers:				Corrected Temperature:																											
Sample Identification		Matrix		Date Sampled		Time Sampled		Depth		Grab/Comp		# of Cont																			
SP-1		S		8/29/2022				0-0.5		Comp		1																			
						</																									

[illegible]

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
		8/29/22			

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 880-18628-1

SDG Number: 1246

Login Number: 18628**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	



Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-19182-1
Laboratory Sample Delivery Group: 1246
Client Project/Site: CTB 130

For:
Earth Systems Response and Restoration
4115 South County Road 1297
Odessa, Texas 79765

Attn: Kris Williams

A handwritten signature in blue ink that reads "Brianna Teel".

Authorized for release by:
9/14/2022 10:53:43 AM

Brianna Teel, Project Manager
(432)704-5440
Brianna.Teel@et.eurofinsus.com

LINKS

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results through



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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Laboratory Job ID: 880-19182-1
SDG: 1246

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	13
Lab Chronicle	15
Certification Summary	16
Method Summary	17
Sample Summary	18
Chain of Custody	19
Receipt Checklists	20

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-19182-1
SDG: 1246

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, 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: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-19182-1
SDG: 1246

Job ID: 880-19182-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-19182-1**

Receipt

The samples were received on 9/13/2022 4:21 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.4°C

GC VOA

Method 8021B: The following samples were diluted because the initial analysis produced a significant negative result - the absolute value exceeded the reporting limit (RL): CS-17 (880-19182-1), CS-32 (880-19182-2) and SW-13 (880-19182-3). Reporting limits (RLs) are elevated as a result.

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-34396 and analytical batch 880-34334 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-19182-1
SDG: 1246

Client Sample ID: CS-17

Lab Sample ID: 880-19182-1

Date Collected: 09/13/22 00:00

Matrix: Solid

Date Received: 09/13/22 16:21

Sample Depth: 2.5 - 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0498	U	0.0498		mg/Kg		09/13/22 17:00	09/13/22 18:24	25
Toluene	<0.0498	U	0.0498		mg/Kg		09/13/22 17:00	09/13/22 18:24	25
Ethylbenzene	<0.0498	U	0.0498		mg/Kg		09/13/22 17:00	09/13/22 18:24	25
m-Xylene & p-Xylene	<0.0996	U	0.0996		mg/Kg		09/13/22 17:00	09/13/22 18:24	25
o-Xylene	<0.0498	U	0.0498		mg/Kg		09/13/22 17:00	09/13/22 18:24	25
Xylenes, Total	<0.0996	U	0.0996		mg/Kg		09/13/22 17:00	09/13/22 18:24	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	09/13/22 17:00	09/13/22 18:24	25
1,4-Difluorobenzene (Surr)	90		70 - 130	09/13/22 17:00	09/13/22 18:24	25

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0996	U	0.0996		mg/Kg			09/14/22 09:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/14/22 09:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/13/22 17:00	09/13/22 22:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/13/22 17:00	09/13/22 22:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/22 17:00	09/13/22 22:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	09/13/22 17:00	09/13/22 22:35	1
o-Terphenyl	88		70 - 130	09/13/22 17:00	09/13/22 22:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.3		4.95		mg/Kg			09/13/22 23:56	1

Client Sample ID: CS-32

Lab Sample ID: 880-19182-2

Date Collected: 09/13/22 00:00

Matrix: Solid

Date Received: 09/13/22 16:21

Sample Depth: 2.5 - 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0497	U	0.0497		mg/Kg		09/13/22 17:00	09/13/22 18:44	25
Toluene	<0.0497	U	0.0497		mg/Kg		09/13/22 17:00	09/13/22 18:44	25
Ethylbenzene	<0.0497	U	0.0497		mg/Kg		09/13/22 17:00	09/13/22 18:44	25
m-Xylene & p-Xylene	<0.0994	U	0.0994		mg/Kg		09/13/22 17:00	09/13/22 18:44	25
o-Xylene	<0.0497	U	0.0497		mg/Kg		09/13/22 17:00	09/13/22 18:44	25
Xylenes, Total	<0.0994	U	0.0994		mg/Kg		09/13/22 17:00	09/13/22 18:44	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	09/13/22 17:00	09/13/22 18:44	25

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-19182-1
SDG: 1246

Client Sample ID: CS-32

Lab Sample ID: 880-19182-2

Date Collected: 09/13/22 00:00

Matrix: Solid

Date Received: 09/13/22 16:21

Sample Depth: 2.5 - 3

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	82		70 - 130	09/13/22 17:00	09/13/22 18:44	25

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0994	U	0.0994		mg/Kg			09/14/22 09:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/14/22 09:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/13/22 17:00	09/13/22 22:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/13/22 17:00	09/13/22 22:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/13/22 17:00	09/13/22 22:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				09/13/22 17:00	09/13/22 22:57	1
o-Terphenyl	78		70 - 130				09/13/22 17:00	09/13/22 22:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.0		5.00		mg/Kg			09/14/22 08:33	1

Client Sample ID: SW-13

Lab Sample ID: 880-19182-3

Date Collected: 09/13/22 00:00

Matrix: Solid

Date Received: 09/13/22 16:21

Sample Depth: 0 - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0505	U	0.0505		mg/Kg		09/13/22 17:00	09/13/22 19:05	25
Toluene	<0.0505	U	0.0505		mg/Kg		09/13/22 17:00	09/13/22 19:05	25
Ethylbenzene	<0.0505	U	0.0505		mg/Kg		09/13/22 17:00	09/13/22 19:05	25
m-Xylene & p-Xylene	<0.101	U	0.101		mg/Kg		09/13/22 17:00	09/13/22 19:05	25
o-Xylene	<0.0505	U	0.0505		mg/Kg		09/13/22 17:00	09/13/22 19:05	25
Xylenes, Total	<0.101	U	0.101		mg/Kg		09/13/22 17:00	09/13/22 19:05	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	09/13/22 17:00	09/13/22 19:05	25
1,4-Difluorobenzene (Surr)	88		70 - 130	09/13/22 17:00	09/13/22 19:05	25

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.101	U	0.101		mg/Kg			09/14/22 09:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/14/22 09:33	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-19182-1
SDG: 1246

Client Sample ID: SW-13

Lab Sample ID: 880-19182-3

Date Collected: 09/13/22 00:00

Matrix: Solid

Date Received: 09/13/22 16:21

Sample Depth: 0 - 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/13/22 17:00	09/13/22 23:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/13/22 17:00	09/13/22 23:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/22 17:00	09/13/22 23:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				09/13/22 17:00	09/13/22 23:18	1
o-Terphenyl	99		70 - 130				09/13/22 17:00	09/13/22 23:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.9		4.96		mg/Kg			09/14/22 00:02	1

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-19182-1
SDG: 1246

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)
880-19182-1	CS-17	112	90
880-19182-2	CS-32	115	82
880-19182-3	SW-13	108	88
890-2883-A-18-E MS	Matrix Spike	113	102
890-2883-A-18-F MSD	Matrix Spike Duplicate	119	107
LCS 880-34351/1-A	Lab Control Sample	113	106
LCSD 880-34351/2-A	Lab Control Sample Dup	113	106
MB 880-34351/5-A	Method Blank	99	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)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-19130-A-8-B MS	Matrix Spike	97	86
880-19130-A-8-C MSD	Matrix Spike Duplicate	95	83
880-19182-1	CS-17	88	88
880-19182-2	CS-32	81	78
880-19182-3	SW-13	105	99
LCS 880-34396/2-A	Lab Control Sample	133 S1+	133 S1+
LCSD 880-34396/3-A	Lab Control Sample Dup	130	128
MB 880-34396/1-A	Method Blank	105	110
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-19182-1
SDG: 1246

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-34351/5-A

Matrix: Solid

Analysis Batch: 34340

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34351

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/13/22 09:09	09/13/22 11:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/22 09:09	09/13/22 11:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/13/22 09:09	09/13/22 11:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/13/22 09:09	09/13/22 11:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/13/22 09:09	09/13/22 11:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/13/22 09:09	09/13/22 11:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	09/13/22 09:09	09/13/22 11:13	1
1,4-Difluorobenzene (Surr)	90		70 - 130	09/13/22 09:09	09/13/22 11:13	1

Lab Sample ID: LCS 880-34351/1-A

Matrix: Solid

Analysis Batch: 34340

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34351

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08589		mg/Kg		86	70 - 130
Toluene	0.100	0.07897		mg/Kg		79	70 - 130
Ethylbenzene	0.100	0.08358		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	0.200	0.1728		mg/Kg		86	70 - 130
o-Xylene	0.100	0.1017		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-34351/2-A

Matrix: Solid

Analysis Batch: 34340

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34351

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.08544		mg/Kg		85	70 - 130	1	35
Toluene	0.100	0.08090		mg/Kg		81	70 - 130	2	35
Ethylbenzene	0.100	0.08428		mg/Kg		84	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1741		mg/Kg		87	70 - 130	1	35
o-Xylene	0.100	0.1008		mg/Kg		101	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 890-2883-A-18-E MS

Matrix: Solid

Analysis Batch: 34340

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 34351

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0998	0.07796		mg/Kg		78	70 - 130
Toluene	<0.00199	U	0.0998	0.07251		mg/Kg		73	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-19182-1
SDG: 1246

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

Lab Sample ID: 890-2883-A-18-E MS

Matrix: Solid

Analysis Batch: 34340

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 34351

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0998	0.07915		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1613		mg/Kg		81	70 - 130
o-Xylene	<0.00199	U	0.0998	0.09278		mg/Kg		93	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-2883-A-18-F MSD

Matrix: Solid

Analysis Batch: 34340

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 34351

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0996	0.08998		mg/Kg		90	70 - 130	14	35
Toluene	<0.00199	U	0.0996	0.08317		mg/Kg		84	70 - 130	14	35
Ethylbenzene	<0.00199	U	0.0996	0.09130		mg/Kg		92	70 - 130	14	35
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1882		mg/Kg		94	70 - 130	15	35
o-Xylene	<0.00199	U	0.0996	0.1079		mg/Kg		108	70 - 130	15	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

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

Lab Sample ID: MB 880-34396/1-A

Matrix: Solid

Analysis Batch: 34334

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34396

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/13/22 11:41	09/13/22 19:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/13/22 11:41	09/13/22 19:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/22 11:41	09/13/22 19:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	09/13/22 11:41	09/13/22 19:23	1
o-Terphenyl	110		70 - 130	09/13/22 11:41	09/13/22 19:23	1

Lab Sample ID: LCS 880-34396/2-A

Matrix: Solid

Analysis Batch: 34334

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34396

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	951.8		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	1000	917.8		mg/Kg		92	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-19182-1
SDG: 1246

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

Lab Sample ID: LCS 880-34396/2-A

Matrix: Solid

Analysis Batch: 34334

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34396

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	133	S1+	70 - 130
o-Terphenyl	133	S1+	70 - 130

Lab Sample ID: LCSD 880-34396/3-A

Matrix: Solid

Analysis Batch: 34334

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34396

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	842.1		mg/Kg		84	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	1000	981.9		mg/Kg		98	70 - 130	7	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	130		70 - 130
o-Terphenyl	128		70 - 130

Lab Sample ID: 880-19130-A-8-B MS

Matrix: Solid

Analysis Batch: 34334

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 34396

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 F1	996	630.3	F1	mg/Kg		62	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	996	913.7		mg/Kg		92	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	86		70 - 130

Lab Sample ID: 880-19130-A-8-C MSD

Matrix: Solid

Analysis Batch: 34334

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 34396

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 F1	999	645.9	F1	mg/Kg		63	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	899.8		mg/Kg		90	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	83		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-19182-1
SDG: 1246

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-34421/1-A

Matrix: Solid

Analysis Batch: 34451

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			09/13/22 21:59	1

Lab Sample ID: LCS 880-34421/2-A

Matrix: Solid

Analysis Batch: 34451

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	241.1		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-34421/3-A

Matrix: Solid

Analysis Batch: 34451

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	242.2		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 880-19171-A-4-D MS

Matrix: Solid

Analysis Batch: 34451

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2360		2500	4956		mg/Kg		104	90 - 110

Lab Sample ID: 880-19171-A-4-E MSD

Matrix: Solid

Analysis Batch: 34451

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2360		2500	4944		mg/Kg		103	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-19182-1
SDG: 1246

GC VOA

Analysis Batch: 34340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19182-1	CS-17	Total/NA	Solid	8021B	34351
880-19182-2	CS-32	Total/NA	Solid	8021B	34351
880-19182-3	SW-13	Total/NA	Solid	8021B	34351
MB 880-34351/5-A	Method Blank	Total/NA	Solid	8021B	34351
LCS 880-34351/1-A	Lab Control Sample	Total/NA	Solid	8021B	34351
LCSD 880-34351/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	34351
890-2883-A-18-E MS	Matrix Spike	Total/NA	Solid	8021B	34351
890-2883-A-18-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	34351

Prep Batch: 34351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19182-1	CS-17	Total/NA	Solid	5035	
880-19182-2	CS-32	Total/NA	Solid	5035	
880-19182-3	SW-13	Total/NA	Solid	5035	
MB 880-34351/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-34351/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-34351/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2883-A-18-E MS	Matrix Spike	Total/NA	Solid	5035	
890-2883-A-18-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 34468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19182-1	CS-17	Total/NA	Solid	Total BTEX	
880-19182-2	CS-32	Total/NA	Solid	Total BTEX	
880-19182-3	SW-13	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 34334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19182-1	CS-17	Total/NA	Solid	8015B NM	34396
880-19182-2	CS-32	Total/NA	Solid	8015B NM	34396
880-19182-3	SW-13	Total/NA	Solid	8015B NM	34396
MB 880-34396/1-A	Method Blank	Total/NA	Solid	8015B NM	34396
LCS 880-34396/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	34396
LCSD 880-34396/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	34396
880-19130-A-8-B MS	Matrix Spike	Total/NA	Solid	8015B NM	34396
880-19130-A-8-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	34396

Prep Batch: 34396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19182-1	CS-17	Total/NA	Solid	8015NM Prep	
880-19182-2	CS-32	Total/NA	Solid	8015NM Prep	
880-19182-3	SW-13	Total/NA	Solid	8015NM Prep	
MB 880-34396/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-34396/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-34396/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-19130-A-8-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-19130-A-8-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-19182-1
SDG: 1246

GC Semi VOA

Analysis Batch: 34477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19182-1	CS-17	Total/NA	Solid	8015 NM	
880-19182-2	CS-32	Total/NA	Solid	8015 NM	
880-19182-3	SW-13	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 34421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19182-1	CS-17	Soluble	Solid	DI Leach	
880-19182-2	CS-32	Soluble	Solid	DI Leach	
880-19182-3	SW-13	Soluble	Solid	DI Leach	
MB 880-34421/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34421/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34421/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-19171-A-4-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-19171-A-4-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 34451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19182-1	CS-17	Soluble	Solid	300.0	34421
880-19182-2	CS-32	Soluble	Solid	300.0	34421
880-19182-3	SW-13	Soluble	Solid	300.0	34421
MB 880-34421/1-A	Method Blank	Soluble	Solid	300.0	34421
LCS 880-34421/2-A	Lab Control Sample	Soluble	Solid	300.0	34421
LCSD 880-34421/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34421
880-19171-A-4-D MS	Matrix Spike	Soluble	Solid	300.0	34421
880-19171-A-4-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	34421

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-19182-1
SDG: 1246

Client Sample ID: CS-17

Lab Sample ID: 880-19182-1

Date Collected: 09/13/22 00:00

Matrix: Solid

Date Received: 09/13/22 16:21

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	34351	09/13/22 17:00	MR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	34340	09/13/22 18:24	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34468	09/14/22 09:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34477	09/14/22 09:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34396	09/13/22 17:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34334	09/13/22 22:35	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	34421	09/13/22 16:23	KS	EET MID
Soluble	Analysis	300.0		1			34451	09/13/22 23:56	CH	EET MID

Client Sample ID: CS-32

Lab Sample ID: 880-19182-2

Date Collected: 09/13/22 00:00

Matrix: Solid

Date Received: 09/13/22 16:21

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	34351	09/13/22 17:00	MR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	34340	09/13/22 18:44	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34468	09/14/22 09:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34477	09/14/22 09:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34396	09/13/22 17:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34334	09/13/22 22:57	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34421	09/13/22 16:23	KS	EET MID
Soluble	Analysis	300.0		1			34451	09/14/22 08:33	CH	EET MID

Client Sample ID: SW-13

Lab Sample ID: 880-19182-3

Date Collected: 09/13/22 00:00

Matrix: Solid

Date Received: 09/13/22 16:21

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	34351	09/13/22 17:00	MR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	34340	09/13/22 19:05	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			34468	09/14/22 09:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34477	09/14/22 09:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34396	09/13/22 17:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34334	09/13/22 23:18	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	34421	09/13/22 16:23	KS	EET MID
Soluble	Analysis	300.0		1			34451	09/14/22 00:02	CH	EET MID

Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-19182-1
SDG: 1246

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-19182-1
SDG: 1246

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: CTB 130

Job ID: 880-19182-1
SDG: 1246

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-19182-1	CS-17	Solid	09/13/22 00:00	09/13/22 16:21	2.5 - 3
880-19182-2	CS-32	Solid	09/13/22 00:00	09/13/22 16:21	2.5 - 3
880-19182-3	SW-13	Solid	09/13/22 00:00	09/13/22 16:21	0 - 0.5

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Environment Testing
Xenco

Houston TX (281) 240-4200 Dallas TX (214) 902-0300
Midland TX (432) 704-5440 San Antonio TX (210) 509-3334
El Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Chain of Custody

Work Order No: 19182

www.xenco.com Page of

Project Manager	Tom Carlson	Bill to (if different)	ESRR
Company Name	Earth Systems R&R	Company Name	
Address	4115 S CR 1297	Address	
City, State ZIP	Odessa, Texas, 79765	City, State ZIP	
Phone	432-310-4945	Email	tcarlson@earthsys.net

Work Order Comments	
Program: UST/PST ☐ PRF ☐ Brownfield ☐ RRD ☐ Superfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRF ☐ Level I ☐	
Deliverables EDD ☐ ADAPT ☐ Other	

Project Name	CTB 130	Turn Around	☐ Routine ☒ Rush	Pres. Code		ANALYSIS REQUEST		Preservative Codes
Project Number	1246	Due Date	24 Hours					None NO DI Water H ₂ O
Project Location		TAT starts the day received by the lab if received by 4:30pm						Cool Cool MeOH Me
Sample Name	Tom Carlson							HCL HC HNO ₃ HN
PO #								H ₂ SO ₄ H ₂ NaOH Na
SAMPLE RECEIPT	Temp Blank	Yes	No	Wet Ice	Yes	No		H ₃ PO ₄ HP
Samples Received Intact	Yes	No	Thermometer ID					NaHSO ₄ NABIS
Cooler Custody Seals	Yes	No	Correction Factor					Na ₂ S ₂ O ₃ NaSO ₃
Sample Custody Seals	Yes	No	Temperature Reading					Zn Acetate+NaOH Zn
Total Containers			Corrected Temperature					NaOH+Ascorbic Acid SACP
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Chlorides	Sample Comments
	CS-17	9/13/2022		2.5 - 3R	Comp	1	X	
	CS-32	9/13/2022		2.5 - 3R	Comp	1	X	
	SW-13	9/13/2022		0 - 0.5	Comp	1	X	



880-19182 Chain of Custody

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010	8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg 1631 / 245 1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
		9/13/22			
		10/21			

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 880-19182-1

SDG Number: 1246

Login Number: 19182

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	

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	nAPP2220866101
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	Western Refining Pipeline, LLC	OGRID	319135
Contact Name	Matthew Krakow	Contact Telephone	505-632-4169
Contact email	mjkrakow@marathonpetroleum.com	Incident # (assigned by OCD)	nAPP2220866101
Contact mailing address	111 CR 4990 Bloomfield, NM 87413		

Location of Release Source

Latitude 32.1197 Longitude -103.4578
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	CTB 130 Wild Weasel	Site Type	Crude Gathering
Date Release Discovered	7/27/2022	API# (if applicable)	

Unit Letter	Section	Township	Range	County
	22	25S	34E	LEA

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

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls) 29	Volume Recovered (bbls) 20
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Crude oil pump failure

Oil Conservation Division

Incident ID	nAPP2220866101
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? Crude oil spill exceeding 25 barrels
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, Matthew Krakow reported to Mike Bratcher via email on 7/27/2022. Also, a spill report was filed on the NMOCD website on 7/27/2022.	

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 <u>not</u> 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: <u>Matthew Krakow</u> Signature: <u></u> email: <u>mjkrakow@marathonpetroleum.com</u>	Title: <u>HES Professional</u> Date: <u>8/9/2022</u> Telephone: <u>505-632-4169</u>
<u>OCD Only</u> Received by: _____ Date: _____	

Incident ID	NAPP2220866101
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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?	<u>>160</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NAPP2220866101
District RP	
Facility ID	
Application ID	

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

Printed Name: Matthew Krakow Title: HES Professional
Signature: _____ Date: _____
email: MJKrakow@Marathonpetroleum.com Telephone: 505-632-4169

OCD Only

Received by: Jocelyn Harimon Date: 10/26/2022

Incident ID	NAPP2220866101
District RP	
Facility ID	
Application ID	

Closure

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 (electronic submittals in .pdf format are preferred) 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.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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.

Printed Name: Matthew Krakow Title: HES Professional

Signature: _____ Date: _____

email: MJKrakow@Marathonpetroleum.com Telephone: 505-632-4169

OCD Only

Received by: Jocelyn Harimon Date: 10/26/2022

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 154015

CONDITIONS

Operator: WESTERN REFINING PIPELINE LLC 200 E. Hardin Street Findlay, OH 45840	OGRID: 319135
	Action Number: 154015
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved. Going forward, please notify OCD two (2) business days notice of any field work and soil sample collection. Please include a copy of all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.	11/22/2022