Civil & Environmental Consultants, Inc.

December 17, 2024

Mr. Jim Raley
Environmental Professional
Devon Energy Production Company
5315 Buena Vista Dr.
Carlsbad, NM 88220

Subject: Remediation Closure Report
Devon Energy Production Company
Seawolf 1 12 Federal 94Y Release
Unit A, Section 1, T26S, R33E
Lea County, New Mexico
Date of Release: 1/9/2018
Incident: NOY1802642217
CEC Project 331-073

Dear Mr. Raley:

Civil & Environmental Consultants, Inc. (CEC) is submitting this Remediation Closure Report in connection with the January 9, 2018, release at the Seawolf 1 12 Federal 94Y well (Site). CEC was contracted by Devon to assess and characterize a release of oil-based mud at the subject Site. This Remediation Closure Report is being submitted to document site characterization and remedial actions that were completed in accordance with 19.15.29.12 of the New Mexico Administrative Code (NMAC) and to support Devon's request for Remediation Closure Request Approval (C-141-v-Remediation).

1.0 BACKGROUND

According to the Release Notification filed with the State of New Mexico Form C-141, a release of oil-based mud occurred on or around January 9, 2018 at the Seawolf 1 12 Federal 94Y well pad located in Public Land Survey System (PLSS) Unit Letter A, Section 1, Township 26 South, Range 33 East, in Lea County, New Mexico. The location of the well pad is shown on Figure 1.

The layout of the Site including the approximate location where the release occurred is shown on Figure 2. The approximate release point was at coordinates 32.0792704, -103.5200754. According to the initial Form C-141 Release Notification, the well overflowed the trip nipple while working casing and overflowed the well cellar. An estimated five barrels (bbls) of oil-based mud were released to the well pad surface. Approximately 3.5 bbls were recovered using a vacuum truck. According to the Form C-141, areas where the fluid soaked into the pad surface were immediately scraped up where accessible. The spill was reported on January 9, 2018 and assigned an incident number NOY1802642217.

The initial Form C-141 Release Notification that includes a description of initial response actions that were taken by Devon, and also OCD's directive in response to the notification, are included in Appendix A.

2.0 DESKTOP REVIEW

A desktop review was performed by CEC to (a) determine the wellhead protection area and distance to the nearest water source as required under 19.15.29.11 NMAC, (b) determine the distance to the nearest water course as required under 19.15.29.11 NMAC (c) preliminarily identify distances to sensitive receptors listed

under 19.15.29.12 Section C of NMAC, and (d) determine (if possible based on published information) depth to groundwater in the area.

A map identifying "Sensitive Receptors" in the area is provided as Figure B-1 in Appendix B. The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance. Similarly, the Site is not located within a 100-year floodplain, nor does it overlie a subsurface mine. Further, the Site is not located within the prescribed distances of the various sensitive receptors listed under Subsection C of 19.15.29.12 NMAC. The Site is in an area of low karst potential.

According to the New Mexico Office of the State Engineer (NMOSE) water rights reporting system, a temporary well (Temporary Well C-4628) was installed approximately 0.35 miles east of the Site in June 2022. The location of Temporary Well C-4628 is shown on Figure B-1. Temporary Well C-4628 was drilled to a depth of approximately 55 feet below ground surface (bgs). The well was determined to be dry after 24 hours. Depth to groundwater in the vicinity of the Site is therefore determined to be greater than 51 feet bgs. The well log is included in Appendix C.

3.0 REGULATORY LIMITS

Remediation Closure Criteria for soil impacted by oil-based drilling mud are established in Table 1, Subsection E of 19.15.29.12 NMAC. Based on the information obtained for the desktop survey and the groundwater depth of >50 feet, the Remediation Closure Criteria for this location are as follows:

Constituent	Remediation Closure Criteria
Chloride	10,000 mg/kg
TPH (GRO+DRO+MRO)	2,500 mg/kg
TPH (GRO+DRO)	1,000 mg/kg
Total BTEX	50 mg/kg
Benzene	10 mg/kg

Prior to mobilization, CEC confirmed with the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD) Oil Conservation Division that no additional constituents of concern were required to be analyzed. CEC also notified OCD via email of their intent to collect site characterization and confirmation soil samples prior to performing field work in accordance with Section D of 19.15.29.12 NMAC. Records documenting the required OCD notifications are included in Appendix D.

4.0 FIELD SITE ASSESSMENT ACTIVITIES

4.1 PHASE 1 SITE CHARACTERIZATION

CEC conducted initial site assessment activities on June 6, 2023, during which eighteen (18) exploratory test pits (SW 94Y-1 through SW 94Y-18) were installed. The locations of the test pits are shown on Figure 2. In general, excavator refusal was encountered at approximately four to five feet bgs at all test pits due to hard caliche with the exception of locations SW 94Y-6, SW 94Y-10, SW 94Y-11, SW 94Y-13, SW 94Y-14, and SW 94Y-18 (one foot), and SW 94Y-17 (three feet) where the caliche was shallower. While advancing the test pits, samples were collected at one-foot intervals for field screening. Each sample was screened for soil electrical conductivity (EC) using a FieldScout Soil Conductivity Probe with automatic temperature compensation, Total Petroleum Hydrocarbons (TPH) using a Dexsil PetroFLAG hydrocarbon

analyzer, Volatile Organic Compounds (VOC) using a RAE Photo-Ionization Detector (PID), and field chloride using Quantab® titration strips. CEC's standard operation procedures for conducting field screening are included in Appendix E. The results of the field screening are summarized on Table 1.

A total of thirty-four (34) samples were collected from the test pits and submitted for laboratory analysis to Eurofins Environment Testing South Central laboratory (Eurofins) in Midland, Texas. One background soil sample (SW 94Y-BG (0-1')) was also collected and submitted for laboratory analysis. The background sampling location is shown on Figure 2. The soil samples were analyzed for BTEX (by Method 8021B), TPH (by Method 8015B), and chloride (by EPA Method 300.0). Analytical results for the samples that were collected during the Phase 1 site characterization are summarized on Table 2. The corresponding laboratory analytical reports are included in Appendix F.

Referring to Table 2, none of the thirty-four (34) soil samples collected from the Phase 1 test pits contained constituents of concern at concentrations in excess of the Remediation Closure Criteria.

Following review of the results of the initial site characterization sampling, it was determined that additional delineation was warranted to meet the delineation requirements of 19.15.29.13 NMAC.

4.2 PHASE 2 SITE CHARACTERIZATION

Phase 2 of the site characterization was conducted on September 19, 2023, during which ten (10) exploratory test pits (SW 94Y-19 through SW 94Y-28) were installed to further delineate the extent of soil contamination. The locations of the test pits are shown on Figure 2.

Excavator refusal was encountered at approximately two feet bgs at all test pits due to hard caliche with the exception of locations SW 94Y-19 and SW 94Y-26 (four feet), SW 94Y-27 (three feet), and SW 94Y-28 (one foot) where the caliche was shallower. Field screening was conducted following the procedures outlined in Section 4.1, and the results are summarized on Table 1.

Based on the field screening results, nineteen (19) soil samples were submitted to Eurofins for laboratory analysis. Analytical results for the soil samples that were collected during the Phase 2 site characterization are summarized on Table 2. Analytical reports are included in Appendix F.

As shown on Table 2, none of the nineteen (19) soil samples collected from the Phase 2 test pits contained constituents of concern at concentrations in excess of the Remediation Closure Criteria.

Following review of the results of the Phase 2 site characterization sampling, it was determined that additional delineation was warranted to meet delineation requirements of 19.15.29.13 NMAC.

4.3 PHASE 3 SITE CHARACTERIZATION

Phase 3 of the site characterization was conducted on October 30, 2023. During Phase 3, two (2) exploratory test pits (FO 31H-29 and FO 31H-30) were installed to further delineate the extent of soil contamination. The locations of the test pits are shown on Figure 2.

Excavator refusal was encountered upon reaching caliche at approximately two feet bgs at both test pits. Field screening was conducted following the procedures outlined in Section 4.1, and the results are summarized on Table 1.

Based on the field screening results, four (4) soil samples were submitted to Eurofins for laboratory analysis. Analytical results for the soil samples that were collected during the Phase 3 site characterization are summarized on Table 2. Analytical reports are included in Appendix F.

As shown on Table 2, none of the four (4) soil samples collected from the Phase 3 test pits contained constituents of concern at concentrations in excess of the Remediation Closure Criteria. Further, the thirty (30) test pits installed during the Phase 1 through Phase 3 site characterization allowed for successful horizontal and vertical delineation of contamination as required under 19.15.29.12 and 19.15.2913 NMAC.

4.4 SURFICIAL SOIL CONFIRMATION SAMPLE COLLECTION

In accordance with the revised guidance for closing out incidents issued by the OCD in December 2023, CEC collected a total of eighty-eight (88) representative five-point composite surficial confirmation soil samples on June 25 and 26, 2024. The samples were collected on a 400 square foot grid in accordance with the variance granted by OCD (Appendix D). A grid showing the area represented by each confirmation sample is shown on Figure 3. Surficial soil confirmation samples were submitted for laboratory analysis to Eurofins in Midland, Texas. Consistent with site characterization investigations, the soil samples were analyzed for BTEX (by Method 8021B), TPH (by Method 8015B), and chloride (by EPA Method 300.0).

The results for the confirmation sampling are summarized on Table 3. Analytical reports are included in Appendix F. As shown on Table 3, twenty-nine (29) of the eighty-eight (88) samples were found to contain constituents of interest at concentrations in excess of the Remediation Closure Criteria.

5.0 SITE CHARACTERIZATION FINDINGS AND DEVELOPMENT OF REMEDIATION PLAN

Site characterization investigations, specifically the grid-based surficial soil confirmation sampling program conducted on June 25 and 26, 2024, identified an approximately 11,820-square-foot area over which Remediation Closure Criteria were exceeded in the soil. Within this area, the contaminated soil that exceeded Remediation Closure Criteria was found to extend to a depth of approximately 0.5 feet. A map showing areas targeted for remediation and projected remediation depths is shown on Figure 4. Based on results of site characterization, the total volume of soil to be removed was estimated at 220 cubic yards.

6.0 REMEDIATION ACTIVITIES

Initial remediation activities were completed between September 25 and October 1, 2024. In accordance with NMOCD regulatory guidelines, shallow impacted soil containing constituents of concern at concentrations in excess of the Remediation Closure Criteria was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal (R360 Antelope Ridge and Northern Delaware Basin Landfill). While undertaking the excavation, a FieldScout Soil Conductivity Probe with automatic temperature compensation, RAE Photo-Ionization Detector, and Dexsil PetroFLAG hydrocarbon analyzer were utilized to field-screen the horizontal extent of impacted soil and to guide the excavation. The floors of the excavation were deepened until field tests and field observations indicated that constituents of concern were less than the applicable remediation criteria. During the remediation activities, portions of the identified area were inaccessible due to the presence of aboveground process equipment and/or belowground utility lines. The soil screening grid orientations were modified from those used during the surficial soil confirmation sampling program to limit the inaccessible area within each grid. In addition, the screening areas of each grid were modified to include the sidewalls within the representative area. Soil

screening locations are shown on Figure 5. Photographs documenting the soil remediation efforts are included in the photographic log in Appendix G. Approximately 316 cubic yards of soil were removed over this period.

Upon making a determination based on field observations and field screening that there was a high likelihood that remediation goals had been achieved, CEC collected representative five-point composite post-excavation confirmation soil samples representative of each 400 square feet of the sidewalls and floor of the excavated area pursuant to Subsection C of 19.15.29.12 NMAC and the approved sampling variance (Appendix D).

A total of thirty (30) post-excavation confirmation soil samples were collected on October 1, 2024. No wet or discolored areas were encountered, and discrete grab samples were not required. The area represented by each confirmation sample is shown on Figure 5. Confirmation samples were submitted for laboratory analysis to Eurofins in Midland, Texas. The soil samples were analyzed for BTEX (by Method 8021B), TPH (by Method 8015B), and chloride (by EPA Method 300.0).

The results of the confirmation soil sampling are summarized on Table 4. Analytical reports are included in Appendix F. As shown on Table 4, one sample (CS-209) was found to contain TPH (GRO+DRO) at concentrations in excess of the Remediation Closure Criteria.

On October 22, 2024, additional remediation activities were conducted in the area of CS-209. Impacted soil in excess of the Remediation Closure Criteria was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste disposal facility (R360 Antelope Ridge). The floor of the excavation was deepened until field observations and field screening indicated a high likelihood that remediation goals had been achieved (to approximately 1 foot bgs). Approximately 4 additional cubic yards of soil were excavated from this area. CEC collected one composite sample (CS-209A) from the floor of the excavated area on October 28, 2024. The results of the additional confirmation soil sampling are presented on Table 4 (the sample dated October 28, 2024), and the analytical report is included in Appendix F. As shown on Table 4, none of the constituents of concern were detected at concentrations in excess of the Remediation Closure Criteria. Photographs documenting the additional remediation activities are included in Appendix G.

7.0 RESTORATION ACTIVITIES

As the spill area is actively used for oil and gas production, the areas where excavation was performed to remediate the Site were restored by backfilling with clean fill to stabilize the disturbed areas and return them to the existing grade, and provide a soil cover that prevents ponding of water and minimizes dust and erosion in accordance with Sections A., B. and C of 19.15.29.13 NMAC. Restoration activities were conducted on November 12 and 13, 2024. Photographs showing the disturbed areas upon completing restoration are included in the photographic log in Appendix G.

8.0 DISCUSSION AND CONCLUSIONS

Site characterization investigations, specifically the grid-based surficial soil confirmation sampling program conducted on June 25 and 26, 2024, identified an approximately 11,820-square-foot area over which Remediation Closure Criteria were exceeded in the soil. Exceedances of the Remediation Closure Criteria were confined to within the footprint of the well pad. Within this area, the contaminated soil that

exceeded the Remediation Closure Criteria was found to extend to a depth of 0.5 feet. Site characterization activities also successfully delineated affected soil as required under 19.15.29.13 NMAC.

In September and October 2024, the affected area was remediated by excavating the impacted soil in accordance with requirements of 19.15.29.12 NMAC. Most of the area was excavated to a depth of 0.5 feet bgs, with a limited area excavated to depths ranging from 0.8 and 1 feet bgs. Approximately 320 cubic yards of contaminated soil were excavated from this area and disposed at a NMOCD-permitted surface waste disposal facility.

Confirmation soil samples collected pursuant to Subsection C of 19.15.29.12 NMAC demonstrated that the soil remediation efforts were successful in meeting Remediation Closure Criteria. The disturbed area was restored by backfilling with clean fill to stabilize the disturbed areas and return them to existing grade and provide a soil cover that prevents ponding of water and minimizes dust and erosion in November 2024. In accordance with 19.15.29.12 and 19.15.29.13 NMAC, final reclamation of remaining impacted soil within the well pad area will take place once the Site is no longer used for oil and gas operations.

Based on results of the site investigations discussed above and the remedial actions completed, Incident NOY1802642217 qualifies for closure approval.

9.0 CLOSING

CEC appreciates the opportunity to assist Devon on this project. Please contact us if you need additional information.

Sincerely,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

Laura D. Campbell
Project Manager

Robert J. Valli
Principal

Enclosures:

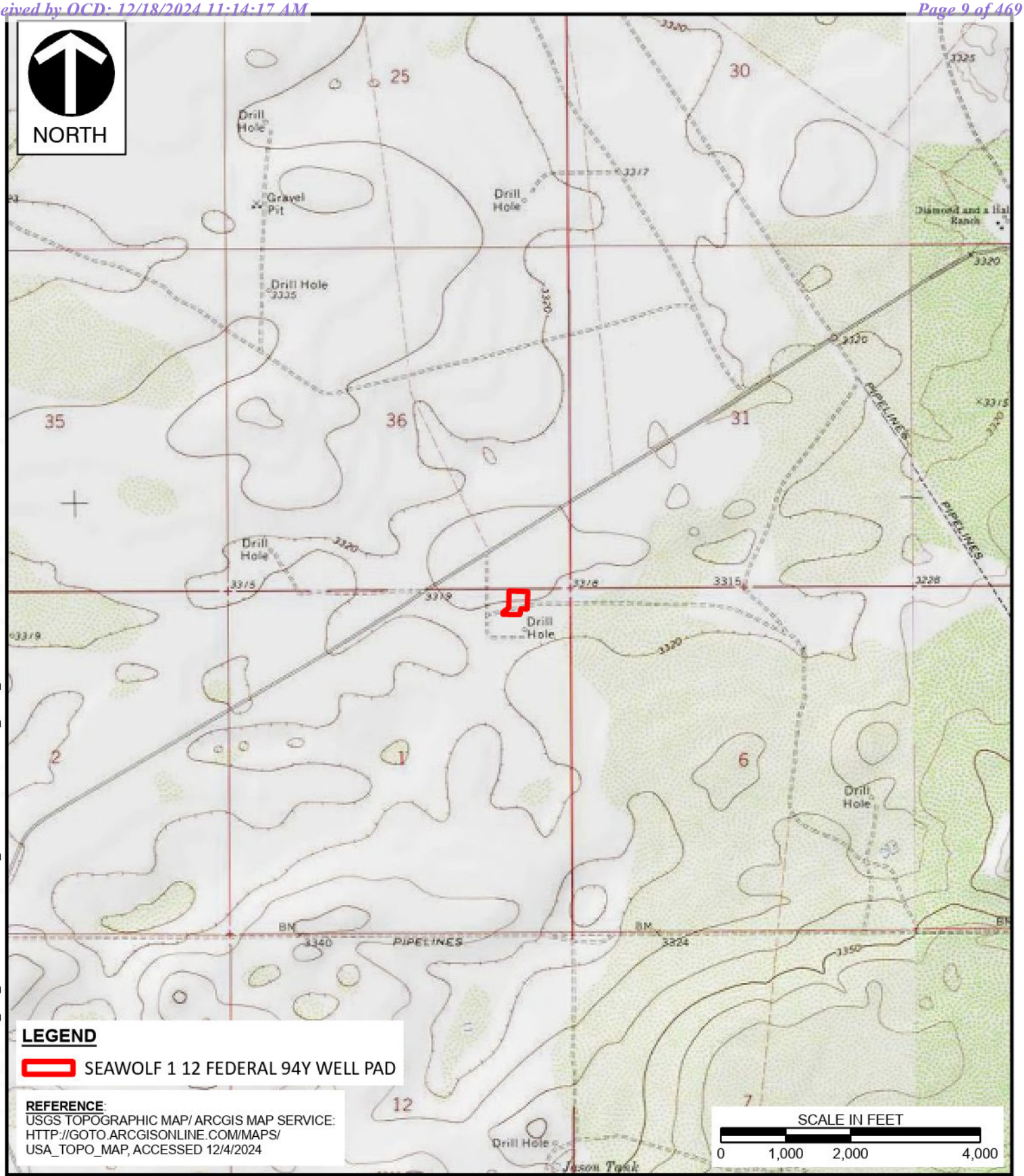
FIGURES
- Figure 1: Site Location Map
- Figure 2: Release Characterization Sample Locations
- Figure 3: Surficial Soil Confirmation Sample Locations
- Figure 4: Areas Targeted for Soil Remediation
- Figure 5: Final Soil Remediation Excavation Limits and Confirmation Sample Locations

TABLES
- Table 1: Summary of Field Screening Results – Release Characterization
- Table 2: Summary of Laboratory Analytical Results – Release Characterization
- Table 3: Summary of Laboratory Analytical Results – Surficial Soil Confirmation Sampling
- Table 4: Summary of Laboratory Analytical Results – Confirmation Sampling

APPENDICES

Appendix A: Initial Release Notification and OCD Response
Appendix B: Sensitive Receptors Map
Appendix C: Temporary Well C-4626 Records
Appendix D: NMOCD Correspondence
Appendix E: SOPs for Field Screening
Appendix F: Laboratory Analytical Reports
Appendix G: Photographic Log

FIGURES



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LEA COUNTY, NEW MEXICO

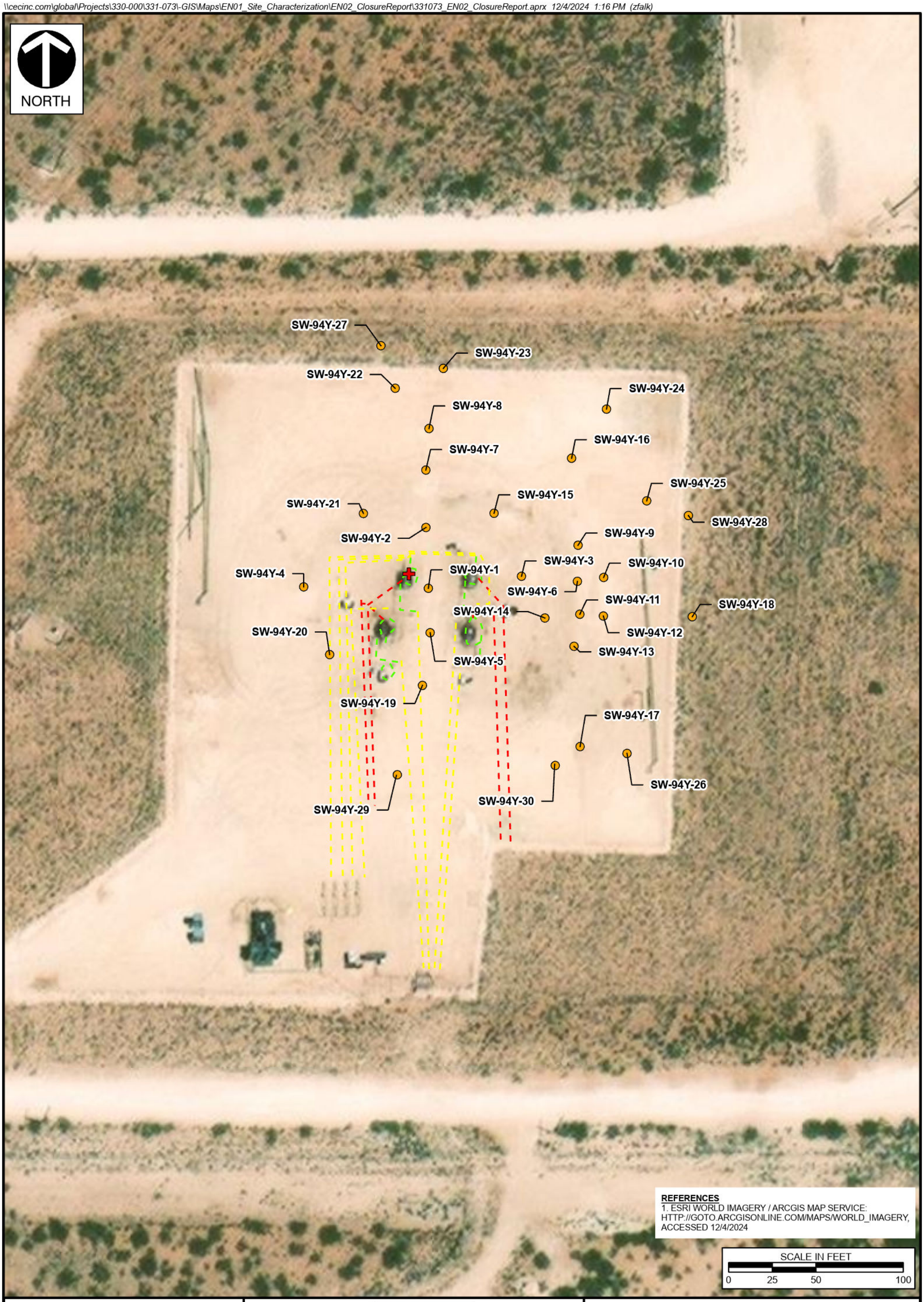
SITE LOCATION MAP

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LEGEND

- TEST PIT LOCATION
- APPROXIMATE POINT OF RELEASE
- ABOVE GROUND PROCESS EQUIPMENT
- SUBSURFACE ELECTRICAL LINES
- SUBSURFACE GAS LINES

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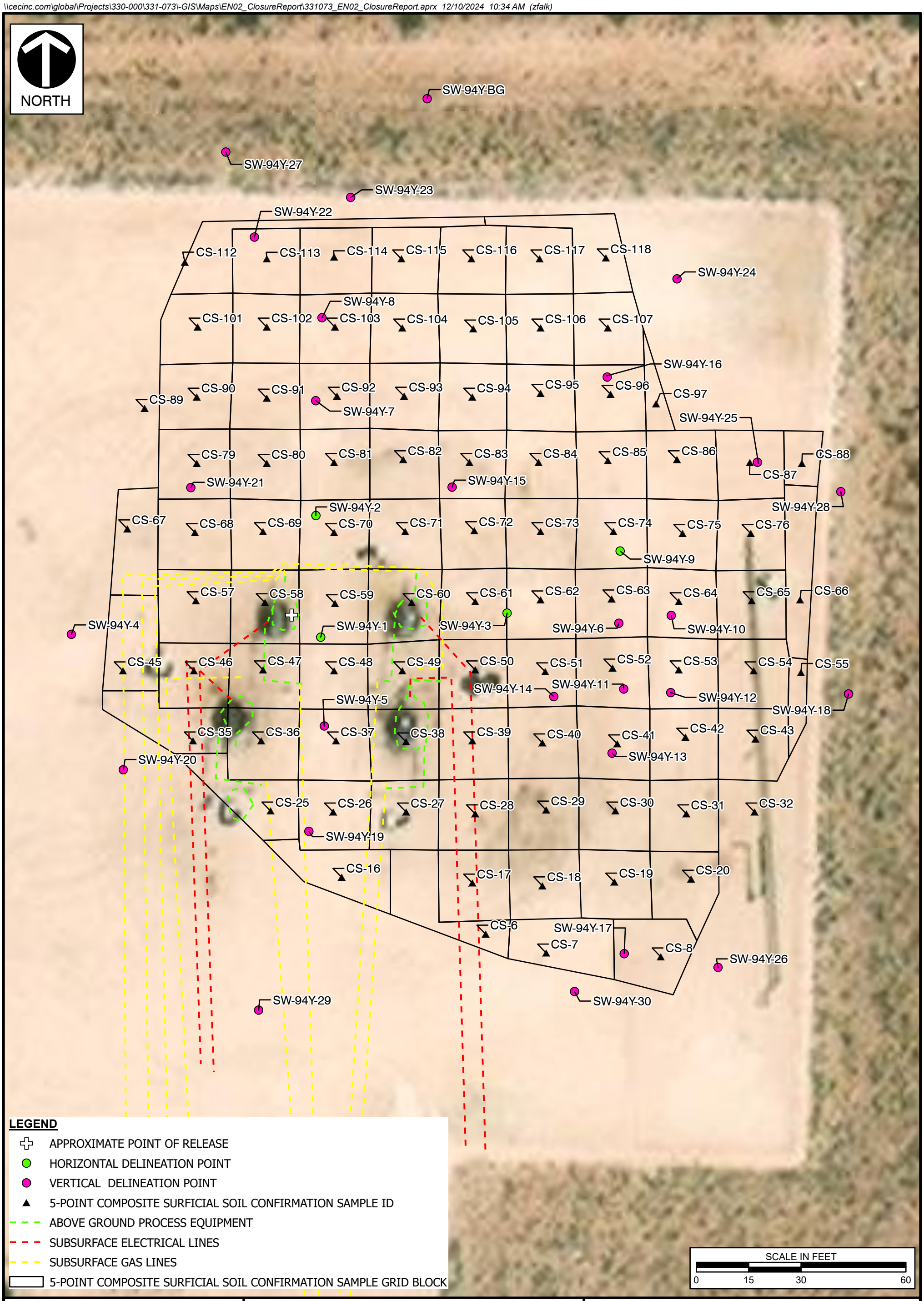
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RELEASE CHARACTERIZATION SAMPLE LOCATIONS

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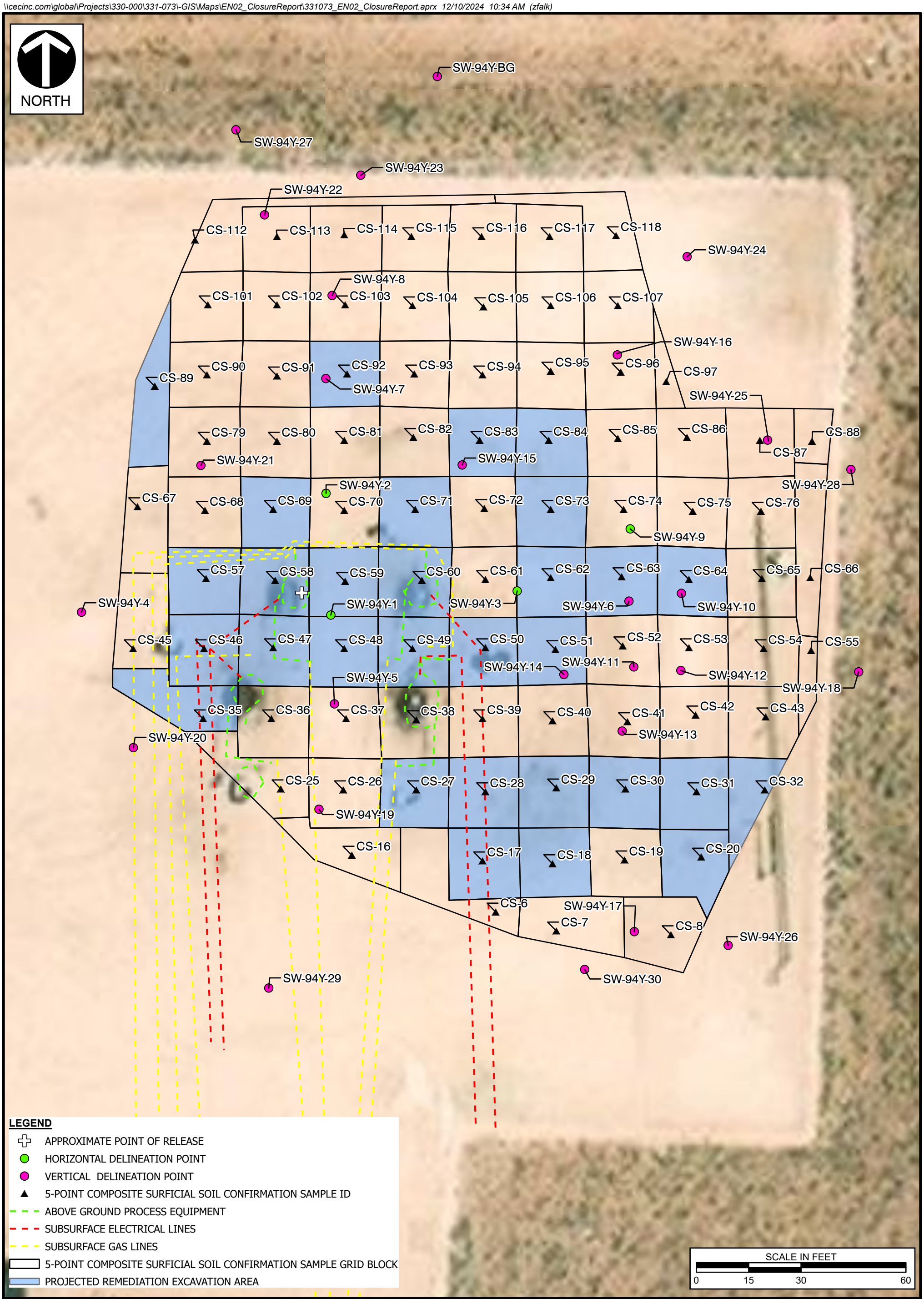
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SURFICIAL SOIL CONFIRMATION SAMPLE LOCATIONS

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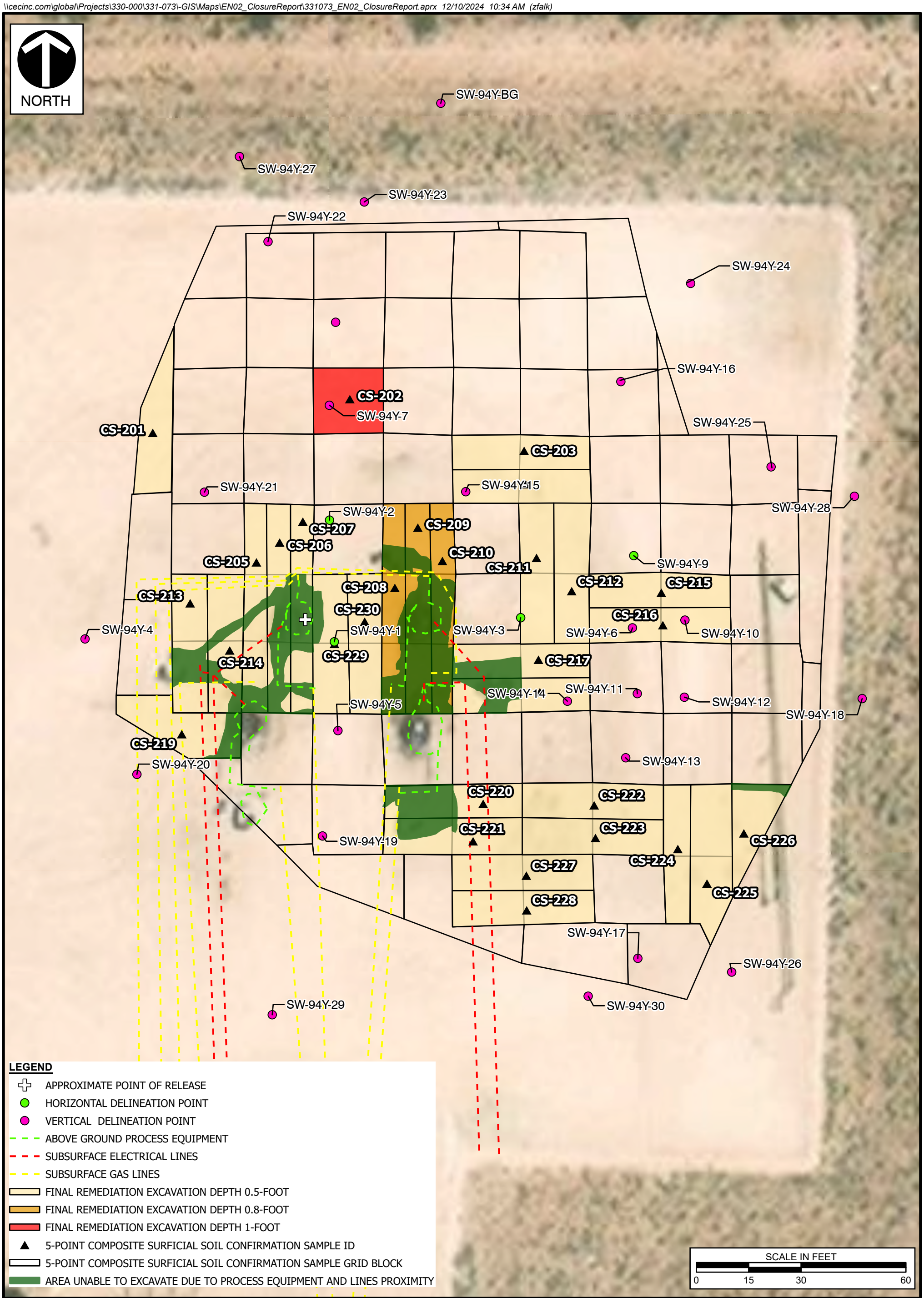
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AREAS TARGETED FOR SOIL REMEDIATION

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FINAL SOIL REMEDIATION EXCAVATION LIMITS AND CONFIRMATION SAMPLE LOCATIONS

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DATE:	12/17/2024	SCALE:	1"=25'	PROJECT NO:	331-073		

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TABLES

TABLE 1
SUMMARY OF FIELD SCREENING RESULTS - RELEASE CHARACTERIZATION
REMEDIATION CLOSURE REPORT
SEAWOLF 1 12 FEDERAL 94Y
DEVON ENERGY CORPORATION
CEC PROJECT NUMBER: 331-073

Sample ID	Sample Date	Depth	Field Site Assessment Phase	Field Screening Parameter			
				Electrical Conductivity (mS)[1]	Chloride (mg/kg)[2]	Volatile Organic Compounds (ppm)[3]	Total Petroleum Hydrocarbons (ppm)[4]
SW94Y-1	6/6/2023	0-1	Phase 1	8	2746	0.2	52
		1-2		10	3238	0.1	97
		2-3		8.5	3538	0.1	0
		3-4		10	3538	0.1	55
SW94Y-2	6/6/2023	0.5		--	--	3.6	>1000
		0-1		5	1476	0.1	94
		1-2		4.25	1169	0.2	--
		2-3		5.25	1476	0.3	--
		3-4		2.75	657	0.2	--
SW94Y-3	6/6/2023	0-1		0.75	--	0	50
		1-2		1.25	--	0.2	--
		2-3		2.5	528	0.2	59
		3-4		8	1858	0	--
SW94Y-4	6/6/2023	0-1		0.27	--	0.2	43
		1-2		0.35	31	0.2	--
		2-3		0.2	--	0	18
		3-4		0.35	43	0	--
SW94Y-5	6/6/2023	0-1		0.25	--	0.2	311
		1-2		0.2	--	0.1	--
		2-3		0.3	--	0.3	179
		3-4		0.3	--	0.1	--
		4-5		0.3	--	0.1	--
SW94Y-6	6/6/2023	0-1		12	--	0	--
SW94Y-7	6/6/2023	0-1		7.75	--	--	--
		4-5		2.8	--	--	--
SW94Y-8	6/6/2023	0-1		1.3	305	0.1	64
		1-2		0.7	--	--	--
		2-3		0.3	--	--	--
		3-4		0.3	43	0.2	--
SW94Y-9	6/6/2023	0-1		1.8	284	0	365
		2-3		2.75	1123	0.1	96
		4-5		1.75	429	0.1	78
SW94Y-10	6/6/2023	0-1		0.6	--	--	793
SW94Y-11	6/6/2023	0-1		5	--	--	101
SW94Y-12	6/6/2023	0-1		0.5	--	--	--
		3-4		4.5	--	--	--
		4-5		6.5	--	--	--
SW94Y-13	6/6/2023	0-1		4.5	--	--	--
SW94Y-14	6/6/2023	0-1		1.3	--	--	--
SW94Y-15	6/6/2023	0-1		3	--	--	--
		3-4		0.9	--	--	--
SW94Y-16	6/6/2023	0-1		0.9	-	0.2	87
		2-3		1.3	--	--	--
		3-4		1.1	102	0.3	86
SW94Y-17	6/6/2023	0-1		0.35	284	0.2	9
		1-2		0.2	--	0.2	--
		2-3		1	196	--	0
SW94Y-18	6/6/2023	0-1		0.5	--	0.2	180
SW94Y-BG	6/6/2023	0-1		0.2	--	0.1	81
SW94Y-19	9/19/2023	0-1	Phase 2	0.72	<62	0.1	102
		1-2		0.82	--	0.2	--
		2-3		1.01	--	0.2	--
		3-4		0.8	<62	0.1	61
		4-5		0.87	--	0.1	--
SW94Y-20	9/19/2023	0-1		1.14	228	0.3	41
		1-2		1.31	386	0.1	45
SW94Y-21	9/19/2023	0-1		1.24	524	0.2	59
		1-2		1.48	418	0.2	40
SW94Y-22	9/19/2023	0-1		1.47	328	0.2	67
		1-2		1.86	418	0.3	50
SW94Y-23	9/19/2023	0-1		1.08	168	0.1	116
		1-2		1.22	66	0.1	30
SW94Y-24	9/19/2023	0-1		0.85	<56	0	38
		1-2		1.16	186	0.2	75
SW94Y-25	9/19/2023	0-1		1.43	418	0.1	491
		1-2		3.35	972	0.2	71
		2-3		1.21	524	0.2	--
		3-4		0.46	--	0.3	--
		4-5		0.37	--	0.2	--
SW94Y-26	9/19/2023	0-1		0.27	--	0.1	40
		1-2		0.41	--	0.2	--
		2-3		0.38	--	0.3	--
		3-4		0.3	--	0	33
SW94Y-27	9/19/2023	0-1		0.23	--	0.2	37
		1-2		0.18	--	0.2	--
		2-3		0.6	--	0.7	--
SW94Y-28	9/19/2023	0-1		0.43	--	0.1	40
SW94Y-29	10/30/2023	0-1	Phase 3	0.27	--	0.1	40
		1-2		0.41	--	0.2	--
SW94Y-30	10/30/2023	0-1		0.38	--	0.3	--
		1-2		0.3	--	0	33

Notes:
1. Soil electrical conductivity collected using a FieldScout Soil Conductivity Probe with automatic temperature compensation.
2. Chloride readings collected from Quantab ® titrator strips by creating an aqueous solution of 50 grams of soil to 100 mL of distilled water.
For readings collected from 1:2 aqueous solution, actual titrator readings were doubled to calculate the actual chloride concentration.
3. Volatile Organic Compounds (VOCs) were measured in the headspace using a photoionization detector.
4. Total Petroleum Hydrocarbons (TPH) were measured using a Dexsil PetroFLAG meter with a response setting of 10.
-- Denotes parameter not analyzed.

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS-CHARACTERIZATION
REMEDIATION CLOSURE REPORT
SEAWOLF 1 12 FEDERAL 94Y
DEVON ENERGY CORPORATION
CEC PROJECT NUMBER: 331-073

Sample ID	Sample Date	Depth (ft-bgs)	Field Assessment Phase	Volatile Organic Compounds (mg/kg)		Total Petroleum Hydrocarbons (mg/kg)		Anions (mg/kg)
				Benzene	Total BTEX[1]	TPH (GRO+DRO)[2]	TPH (GRO+DRO+MRO)[3]	Chloride
SW 94Y-1	6/6/2023 9:40	0-1	Phase 1	< 0.000445	< 0.00117	46.5 J	46.5 J	7,330
	6/6/2023 9:45	1-2		**0.000455**	< 0.00119	27.4 J	27.4 J	2,980
	6/6/2023 9:47	2-3		< 0.000524	< 0.00138	59.9 J	59.9 J	3,270
	6/6/2023 9:50	3-4		< 0.000444	< 0.00117	44 J	44 J	6,640
SW 94Y-2	6/6/2023 9:53	0-1		< 0.000438	0.000415 J	**183**	**183**	6,230
	6/6/2023 9:58	1-2		< 0.000448	< 0.00118	82.9 J	82.9 J	2,190
	6/6/2023 10:01	2-3		< 0.000436	0.000716 J	68.8 J	68.8 J	2,310
	6/6/2023 10:05	3-4		< 0.000433	0.000956 J	35.6 J	35.6 J	991
SW 94Y-3	6/6/2023 10:10	0-1		< 0.000456	0.001517 J	43.3 J	43.3 J	191
	6/6/2023 10:14	1-2		< 0.000459	0.001146 J	57.9 J	57.9 J	427
	6/6/2023 10:18	2-3		0.00228 *+	0.00228 *+	47.9 J	47.9 J	784
	6/6/2023 10:20	3-4		0.0024 *+	0.0024 *+	49.5 J	49.5 J	3,600
SW 94Y-4	6/6/2023 10:22	0-1		0.00225 *+	0.00225 *+	28.6 J	28.6 J	104
	6/6/2023 10:25	1-2		0.00229 *+	0.00229 *+	32.5 J	32.5 J	116
	6/6/2023 10:28	2-3		0.00226 *+	0.00226 *+	32.3 J	32.3 J	70
	6/6/2023 10:31	3-4		0.00229 *+	0.00229 *+	42.6 J	42.6 J	121
SW 94Y-5	6/6/2023 10:35	0-1		0.0022 *+	0.0022 *+	**249**	**249**	63
	6/6/2023 10:40	1-2		0.00226 *+	0.00226 *+	**151.5**	**151.5**	78
	6/6/2023 10:45	2-3		0.00231 *+	0.00231 *+	86.6 J	86.6 J	86
	6/6/2023 10:48	3-4		0.00226 *+	0.00226 *+	49.1 J	49.1 J	63
	6/6/2023 10:50	4-5		0.00233 *+	0.00233 *+	76.5 J	76.5 J	101
SW 94Y-6	6/6/2023 11:05	0-1		0.00235 *+	0.00235 *+	62.8 J	62.8 J	3,980
SW 94Y-8	6/6/2023 12:10	0-1		0.00215 *+	0.00215 *+	**132**	**132**	520
	6/6/2023 12:15	3-4		0.00221 *+	0.00221 *+	**123.6**	**123.6**	106
SW 94Y-9	6/6/2023 12:20	0-1		0.00221 *+	0.00221 *+	**227.3**	**227.3**	587
	6/6/2023 12:25	2-3		0.0022 *+	0.0022 *+	**127.6**	**127.6**	1,520
	6/6/2023 12:30	4-5		0.00215 *+	0.00215 *+	**122.6**	**122.6**	478
SW 94Y-10	6/6/2023 12:35	0-1		0.00221 *+	0.00221 *+	**776.2**	**776.2**	152
SW 94Y-16	6/6/2023 14:00	0-1		0.00213 *+	0.00213 *+	**139**	**139**	324
	6/6/2023 14:05	3-4		0.00218 *+	0.00218 *+	18.1 J	18.1 J	569
SW 94Y-17	6/6/2023 14:10	0-1		0.0022 *+,F1	0.00331 *+,F1	21.9 J	21.9 J	85
	6/6/2023 14:12	1-2		0.00208 *+	0.00416 *+	**113.7**	**113.7**	54
	6/6/2023 14:16	2-3		0.00223 *+	0.00446 *+	**107**	**107**	349
SW 94Y-18	6/6/2023 14:30	0-1		0.00209 *+	0.00418 *+	42 J	42 J	45
SW 94Y-BG	6/6/2023 14:40	0-1		0.00204 *+	0.00336 *+,J	20.3 J	20.3 J	46
SW 94Y-19	9/19/2023	0-1	Phase 2	< 0.000419	0.00114 J	**108.7**	**108.7**	98
	9/19/2023	3-4		< 0.000434	0.00128 J	58.9 J	58.9 J	155
SW 94Y-20	9/19/2023	0-1		< 0.000412	0.00115 J	28.4 J	28.4 J	457
	9/19/2023	1-2		< 0.000413 *+	0.00136 J	44.9 J	44.9 J	562
SW 94Y-21	9/19/2023	0-1		< 0.000434	0.00115 J	63.1 J	63.1 J	1,160
	9/19/2023	1-2		< 0.000442	0.00148 J	39 J	39 J	702
SW 94Y-22	9/19/2023	0-1		< 0.000401	0.00116 J	54.5 J	54.5 J	867
	9/19/2023	1-2		0.000551 J	0.00113 J	61.1 J	61.1 J	1,070
SW 94Y-23	9/19/2023	0-1		< 0.000407	0.00109 J	76.1 J	76.1 J	397
	9/19/2023	1-2		< 0.000403	0.00112 J	20 J	20 J	256
SW 94Y-24	9/19/2023	0-1		< 0.0004	< 0.00105	26 J	26 J	242
	9/19/2023	1-2		< 0.000414	< 0.00108	53.9 J	53.9 J	340
SW 94Y-25	9/19/2023	0-1		< 0.00041	< 0.00107	**490.9**	**490.9**	724
	9/19/2023	1-2		< 0.000438	< 0.00115	61.7 J	61.7 J	1,180
SW 94Y-26	9/19/2023	0-1		< 0.000478	< 0.00125	35.3 J	35.3 J	108
	9/19/2023	3-4		< 0.00041	< 0.00108	33.4 J	33.4 J	64
SW 94Y-27	9/19/2023	0-1		< 0.00039	< 0.00102	42.1 J	42.1 J	119
	9/19/2023	2-3		< 0.000407	< 0.00107	**48.8**	**48.8**	186
SW 94Y-28	9/19/2023	0-1		< 0.000396	< 0.00104	42.1 J	42.1 J	88
SW 94Y-29	10/30/2023	0-1	Phase 3	< 0.000413	< 0.00108	20.6 J,B	20.6 J,B	95
	10/30/2023	1-2		< 0.000415	< 0.00109	< 16.2	< 16.2	147
SW 94Y-30	10/30/2023	0-1		< 0.000398	< 0.00104	< 15.6	< 15.6	87
	10/30/2023	1-2		< 0.00042	< 0.0011	17.1 J,B	17.1 J,B	165
Remediation Closure Criteria[4]				**10**	**50**	**1,000**	**2,500**	**10,000**

Notes:
1. Value is the sum of detected benzene, ethylbenzene, toluene, and total xylenes (BTEX). If no BTEX constituent was detected above the laboratory Method Detection Limit (MDL), the maximum MDL is reported.
2. Value is the sum of detected Gasoline Range Organics (GRO) and Diesel Range Organics (DRO). If GRO and DRO were not detected above the MDL, the maximum MDL is reported.
3. Value is the sum of detected GRO, DRO, and Oil Range Organics (MRO). If GRO, DRO, and MRO were not detected above the MDL, the maximum MDL is reported.
4. Remediation Closure Criteria for soils impacted by a release from Table I of 19.15.29 NMAC. Criteria are based on minimum depth to groundwater between 51 and 100 ft-bgs.

ft-bgs - Feet below ground surface.
NSE - Denotes no standard established.
mg/kg - Denotes milligram per kilogram.
Bolded values were detected above the laboratory Reporting Limit (RL).
Qualifier Definitions
< Denotes analyte not detected above laboratory Method Detection Limit (MDL).
*+ LCS and/or LCSD is outside acceptance limits, high biased.
J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B Compound was found in the blank and sample.
F1 MS and/or MSD recovery is outside acceptance limits.

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TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS - SURFICIAL SOIL CONFIRMATION SAMPLING
REMEDIATION CLOSURE REPORT
SEAWOLF 1 12 FEDERAL 94Y
DEVON ENERGY CORPORATION
CEC PROJECT NUMBER: 331-073

Sample ID	Sample Date	Depth (ft-bgs)	Volatile Organic Compounds (mg/kg)		Total Petroleum Hydrocarbons (mg/kg)				Anions (mg/kg)	
			Benzene	Total BTEX[1]	TPH (GRO+DRO)[2]		TPH (GRO+DRO+MRO)[3]		Chloride	
CS-7	6/25/2024	0.0	< 0.00143	< 0.00235	65.2	J,B	65.2	J,B	104	
CS-8	6/25/2024	0.0	< 0.00145	< 0.00239	64.8	J,B	64.8	J,B	155	
CS-15	6/26/2024	0.0	< 0.00141	< 0.00232	73.9	J,B	73.9	J,B	613	
CS-16	6/26/2024	0.0	< 0.00141	< 0.00231	95.1	B	95.1	B	402	
CS-17	6/26/2024	0.0	< 0.00139	< 0.00229	1,040		1,040		140	
CS-18	6/26/2024	0.0	< 0.00141	< 0.00232	1,810		1,810		217	
CS-19	6/26/2024	0.0	< 0.00143	< 0.00235	152.6	B	152.6	B	300	
CS-20	6/26/2024	0.0	< 0.00142	< 0.00234	2,973.30	B	2,973.30	B	205	
CS-25	6/26/2024	0.0	< 0.00144	< 0.00236	104.8	J,B	104.8	J,B	365	
CS-26	6/26/2024	0.0	< 0.00145	< 0.00239	96.1	J,B	96.1	J,B	1720	
CS-27	6/26/2024	0.0	< 0.00144	< 0.00237	1,314.4	B	1,314.40	B	12,200	
CS-28	6/26/2024	0.0	< 0.00141	< 0.00231	3,660		3,660		906	
CS-29	6/26/2024	0.0	< 0.00141	< 0.00231	4,304	B	4,304	B	1650	
CS-30	6/26/2024	0.0	< 0.00143	< 0.00234	1,112.2	B	1,112.2	B	2170	
CS-31	6/26/2024	0.0	< 0.00142	< 0.00233	2,558.3		3,718		1010	
CS-32	6/26/2024	0.0	< 0.00143	< 0.00235	7,060		7,060		120	
CS-35	6/26/2024	0.0	< 0.00148	< 0.00244	1,196	J,B	1,196	J,B	7,990	
CS-36	6/26/2024	0.0	< 0.00147	< 0.00241	137	F1	137	F1	5,360	
CS-37	6/26/2024	0.0	< 0.00146	< 0.0024	86.7		86.7		2,140	
CS-38	6/26/2024	0.0	< 0.00143	< 0.00235	246		246		9,150	
CS-39	6/26/2024	0.0	< 0.00142	< 0.00234	112		112		2,440	
CS-40	6/26/2024	0.0	< 0.00144	< 0.00236	58.9		58.9		2,660	
CS-41	6/26/2024	0.0	< 0.0014	< 0.00231	199		199		536	
CS-42	6/26/2024	0.0	< 0.0014	< 0.00229	480		480		323	
CS-43	6/26/2024	0.0	< 0.00178	0.00507 J	108		108		965	
CS-45	6/26/2024	0.0	< 0.00143	< 0.00235	158		158		4,640	F1
CS-46	6/26/2024	0.0	< 0.00142	< 0.00233	902		902		13,700	
CS-47	6/26/2024	0.0	< 0.00143	< 0.00235	317		317		10,800	
CS-48	6/26/2024	0.0	< 0.00146	< 0.00239	120		120		22,100	
CS-49	6/26/2024	0.0	< 0.00144	< 0.00236	3,530		3,530		6,170	
CS-50	6/26/2024	0.0	< 0.00141	< 0.00232	1,090		1,090		8,100	
CS-51	6/26/2024	0.0	< 0.00142	< 0.00233	3,720		3,720		5,930	
CS-52	6/26/2024	0.0	< 0.00141	< 0.00231	75.6		75.6		6,070	
CS-53	6/26/2024	0.0	< 0.00142	< 0.00233	20.9 J	J	20.9	J	6,340	
CS-54	6/26/2024	0.0	< 0.00143	< 0.00234	53.1		53.1		5,120	
CS-55	6/26/2024	0.0	< 0.00141	< 0.00231	15.3 J	J	15.3	J	376	
CS-57	6/26/2024	0.0	< 0.00145	< 0.00237	1,530		1,530		6,780	
CS-58	6/26/2024	0.0	< 0.00142	< 0.00234	1,370.5	B,F1	1,875.5	B,F1	16,600	
CS-60	6/26/2024	0.0	< 0.00147	< 0.00241	2,787	B	3,857	B	12,000	
CS-61	6/26/2024	0.0	< 0.00143	< 0.00235	335.9	B	503.9	B	9,970	
CS-62	6/26/2024	0.0	< 0.00142	< 0.00233	247.4	B	377.4	B	18,300	
CS-63	6/26/2024	0.0	< 0.00141	< 0.00232	313.5	B	471.5	J,B	12,900	
CS-64	6/26/2024	0.0	< 0.00141	< 0.00232	1,542	B	2,692	B	3,640	
CS-65	6/26/2024	0.0	< 0.00145	< 0.00237	122.6	B	166.3	B	8,400	
CS-66	6/26/2024	0.0	< 0.00144	< 0.00236	86.2	J,B	108.3	J,B	737	
CS-67	6/26/2024	0.0	< 0.00145	< 0.00238	226.6	B	278.2	B	3,810	F1
CS-68	6/26/2024	0.0	< 0.0018	< 0.00295	85.8	J,B	85.8	J,B	7,640	
CS-69	6/26/2024	0.0	< 0.00146	< 0.0024	1,676.6	B	2,158.6	B	565	
CS-70	6/26/2024	0.0	< 0.00154	< 0.00252	276	B	358.4	B	8,130	
CS-71	6/26/2024	0.0	< 0.0015	< 0.00246	1,943	B	2,385	B	9,270	
CS-72	6/26/2024	0.0	< 0.00152	< 0.0025	240.4	B	342.4	B	9,800	
CS-73	6/26/2024	0.0	< 0.00141	< 0.00232	845.1	B	1,272.1	B	20,900	
CS-74	6/26/2024	0.0	< 0.00147	< 0.00241	311.3	B	454.3	B	4,860	
CS-75	6/26/2024	0.0	< 0.00146	< 0.00239	132.3	B	185.9	B	2,220	
CS-76	6/26/2024	0.0	< 0.00145	< 0.00239	350.2	B	565.2	B	1,820	
CS-79	6/26/2024	0.0	< 0.00146	< 0.0024	321.5	B	383.6	B	639	
CS-80	6/26/2024	0.0	< 0.00145	< 0.00237	642.5	B	722.7	B	1,280	
CS-81	6/26/2024	0.0	< 0.00145	0.00237 J	735	B,F1	735	B,F1	4,580	
CS-82	6/26/2024	0.0	< 0.00142	< 0.00233	< 15.4		< 15.4		1,410	
CS-83	6/26/2024	0.0	< 0.00143	< 0.00235	1,250	B	1,250	B	3,270	
CS-84	6/26/2024	0.0	< 0.00143	< 0.00235	4,950	B	4,950	B	1,200	
CS-85	6/26/2024	0.0	< 0.0014	< 0.0023	95.6	B	95.6	B	1,050	
CS-86	6/26/2024	0.0	< 0.00143	< 0.00235	< 15.7		< 15.7		1,120	
CS-87	6/26/2024	0.0	< 0.00143	< 0.00235	< 15.4		< 15.4		1,190	
CS-88	6/26/2024	0.0	< 0.0014	< 0.0023	24.7	J,B	24.7	J,B	916	F1
CS-89	6/25/2024	0.0	< 0.00139	< 0.00228	< 15.1		< 15.1		13,300	
CS-90	6/25/2024	0.0	< 0.00145	< 0.00238	186	B	186	B	5,440	
CS-91	6/26/2024	0.0	< 0.00143	< 0.00235	703	B	703	B	8,310	
CS-92	6/26/2024	0.0	< 0.00142	< 0.00233	1,720	B	1,720	B	5,230	
CS-93	6/26/2024	0.0	< 0.00141	< 0.00232	328	B	328	B	1,880	
CS-94	6/26/2024	0.0	< 0.00143	< 0.00235	956	B	956	B	8,320	
CS-95	6/26/2024	0.0	< 0.00141	< 0.00232	35.8		35.8		1,930	
CS-96	6/26/2024	0.0	< 0.00142	< 0.00233	< 15.2		< 15.2		603	
CS-97	6/26/2024	0.0	< 0.00143	< 0.00235	< 15.4		< 15.4		1,890	
CS-101	6/26/2024	0.0	< 0.00144	< 0.00237	< 15.6		< 15.6		5,740	
CS-102	6/26/2024	0.0	< 0.00143	< 0.00234	< 15.3		< 15.3		4,430	
CS-103	6/26/2024	0.0	< 0.00141	< 0.00231	< 15.4		< 15.4		1,990	
CS-104	6/26/2024	0.0	< 0.00142	< 0.00233	19.7	J,B	19.7	J,B	2,180	
CS-105	6/26/2024	0.0	< 0.00142	< 0.00234	124.2	B, F1	124.2	B, F1	1,870	
CS-106	6/26/2024	0.0	< 0.00141	< 0.00231	200.2	B	200.2	B	1,880	
CS-107	6/25/2024	0.0	< 0.0014	< 0.0023	136.2	B	136.2	B	791	
CS-112	6/26/2024	0.0	< 0.00167	< 0.00275	20.5	B	20.5	B	537	
CS-113	6/25/2024	0.0	< 0.00146	< 0.0024	115	B	115	B	1,990	
CS-114	6/25/2024	0.0	< 0.00142	< 0.00234	102.1	B	102.1	B	1,460	
CS-115	6/25/2024	0.0	< 0.00147	< 0.00241	52.3	J	52.3	J	963	
CS-116	6/25/2024	0.0	< 0.00143	< 0.00235	42.9	J	42.9	J	1,880	
CS-117	6/25/2024	0.0	< 0.00142	< 0.00233	36.8	J,B,F1	36.8	J,B,F1	1,630	
CS-118	6/26/2024	0.0	< 0.00141	< 0.00232	65.2	J,B	65.2	J,B	678	
Remediation Closure Criteria[4]			10	50	1,000		2,500		10,000	

Notes:
1. Value is the sum of detected benzene, ethylbenzene, toluene, and total xylenes (BTEX). If no BTEX constituent was detected above the laboratory Method Detection Limit (MDL), the maximum MDL is reported.
2. Value is the sum of detected Gasoline Range Organics (GRO) and Diesel Range Organics (DRO). If GRO and DRO were not detected above the MDL, the maximum MDL is reported.
3. Value is the sum of detected GRO, DRO, and Oil Range Organics (MRO). If GRO, DRO, and MRO were not detected above the MDL, the maximum MDL is reported.
4. Remediation Closure Criteria for soils impacted by a release from Table I of 19.15.29 NMAC. Criteria are based on minimum depth to groundwater between 51 and 100 ft-bgs.
ft-bgs - Feet below ground surface.
NSE - No standard established.
mg/kg - Milligrams per kilogram.
Bolded values were detected above the laboratory Reporting Limit (RL).
Analyte exceeded the remediation criteria.
Qualifier Definitions
< Analyte not detected above laboratory Method Detection Limit (MDL).
*+ LCS and/or LCSD is outside acceptance limits, high biased.
J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1 MS and/or MSD recovery exceeds control limits.

TABLE 4
SUMMARY OF LABORATORY ANALYTICAL RESULTS - CONFIRMATION SAMPLING
REMEDIATION CLOSURE REPORT
SEAWOLF 1 12 FEDERAL 94Y
DEVON ENERGY CORPORATION
CEC PROJECT NUMBER: 331-073

Sample ID	Sample Date	Depth (ft-bgs)	Volatile Organic Compounds (mg/kg)		Total Petroleum Hydrocarbons (mg/kg)				Anions (mg/kg)	
			Benzene	Total BTEX[1]	TPH (GRO+DRO)[2]		TPH (GRO+DRO+MRO)[3]		Chloride	
CS-201	**10/1/2024**	**0.5**	< 0.00146	< 0.00240	< 15.8		< 15.8		**2,150**	
CS-202	**10/1/2024**	**1**	< 0.00144	< 0.00236	**99.7**		**99.7**		**2,930**	**F1**
CS-203	**10/1/2024**	**0.5**	< 0.00145	< 0.00237	**183**		**183**		**596**	
CS-204	**10/1/2024**	**0.5**	< 0.00149	< 0.00245	**555**		**555**		**2,610**	
CS-205	**10/1/2024**	**0.5**	< 0.00145	< 0.00238	**549**		**549**		**1,310**	
CS-206	**10/1/2024**	**0.5**	< 0.00146	< 0.00239	**297**		**297**		**3,360**	
CS-207	**10/1/2024**	**0.5**	< 0.00143	< 0.00235	**392**		**392**		**1,740**	
CS-208	**10/1/2024**	**0.8**	< 0.00144	< 0.00237	**137**		**137**		**6,590**	
CS-209	**10/1/2024**	**0.8**	< 0.00141	< 0.00231	**1,100**		**1,100**		**1,700**	
CS-209A	**10/28/2024**	**1**	< 0.00146	< 0.00240	**40.1**	**J**	**40.1**	**J**	**3,910**	
CS-210	**10/1/2024**	**0.8**	< 0.00145	< 0.00238	**470**		**470**		**2,400**	
CS-211	**10/1/2024**	**0.5**	< 0.00145	< 0.00238	**185**		**185**		**8,890**	
CS-212	**10/1/2024**	**0.5**	< 0.00145	< 0.00238	**54.6**		**54.6**		**6,900**	**F1**
CS-213	**10/1/2024**	**0.5**	< 0.00143	< 0.00235	**481**		**481**		**1,450**	
CS-214	**10/1/2024**	**0.5**	< 0.00181	< 0.00297	**289**		**289**		**1,440**	
CS-215	**10/1/2024**	**0.5**	< 0.00143	< 0.00234	< 15.5		< 15.5		**3,690**	
CS-216	**10/1/2024**	**0.5**	< 0.00144	< 0.00236	< 15.6		< 15.6		**4,910**	
CS-217	**10/1/2024**	**0.5**	< 0.00144	< 0.00236	**347**		**347**		**6,510**	
CS-218	**10/1/2024**	**0.5**	< 0.00143	< 0.00234	26	J	26	J	**2,090**	
CS-219	**10/1/2024**	**0.5**	< 0.00143	< 0.00235	**52.1**		**52.1**		**1,130**	
CS-220	**10/1/2024**	**0.5**	< 0.00142	< 0.00233	**206**		**206**		**2,130**	
CS-221	**10/1/2024**	**0.5**	< 0.00141	< 0.00232 F1	18	J	18	J	**594**	
CS-222	**10/1/2024**	**0.5**	< 0.00140	< 0.00230	**437**	*+	**437**	*+	**762**	**F1**
CS-223	**10/1/2024**	**0.5**	< 0.00141	< 0.00232	**54**	*+	**54**	*+	**398**	
CS-224	**10/1/2024**	**0.5**	< 0.00141	< 0.00231	< 15.3	*+	< 15.3	*+	**463**	
CS-225	**10/1/2024**	**0.5**	< 0.00142	< 0.00233	< 15.4	*+	< 15.4	*+	**91**	
CS-226	**10/1/2024**	**0.5**	< 0.00162	< 0.00266	**62.9**	*+	**62.9**	*+	**331**	
CS-227	**10/1/2024**	**0.5**	< 0.00140	< 0.00230	**135**	*+	**135**	*+	**515**	
CS-228	**10/1/2024**	**0.5**	< 0.00141	< 0.00231	28.1	J,*+	28.1	J,*+	**83**	
CS-229	**10/1/2024**	**0.5**	< 0.00141	< 0.00231	**260**	*+	**260**	*+	**3,950**	
CS-230	**10/1/2024**	**0.5**	< 0.00144	< 0.00236	**279**	*+	**279**	*+	**5,380**	
Remediation Closure Criteria[4]			**10**	**50**	**1,000**		**2,500**		**10,000**	

Notes:
1. Value is the sum of detected benzene, ethylbenzene, toluene, and total xylenes (BTEX). If no BTEX constituent was detected above the laboratory Method Detection Limit (MDL), the maximum MDL is reported.
2. Value is the sum of detected Gasoline Range Organics (GRO) and Diesel Range Organics (DRO). If GRO and DRO were not detected above the MDL, the maximum MDL is reported.
3. Value is the sum of detected GRO, DRO, and Oil Range Organics (MRO). If GRO, DRO, and MRO were not detected above the MDL, the maximum MDL is reported.
4. Remediation Closure Criteria for soils impacted by a release from Table I of 19.15.29 NMAC. Criteria are based on minimum depth to groundwater between 51 and 100 ft-bgs.
ft-bgs - Feet below ground surface.
NSE - No standard established.
mg/kg - Milligrams per kilogram.
Bolded values were detected above the laboratory Reporting Limit (RL).
Analyte exceeded the remediation criteria.
Qualifier Definitions
< Analyte not detected above laboratory Method Detection Limit (MDL).
*+ LCS and/or LCSD is outside acceptance limits, high biased.
J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1 MS and/or MSD recovery exceeds control limits.

Released to Imaging: 12/27/2024 8:50:37 AM

APPENDIX A
INITIAL RELEASE NOTIFICATION AND OCD RESPONSE

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

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

Form C-141
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Devon Energy Production Company	Contact Mark Kramer, Drilling Supervisor
Address 6488 Seven Rivers Hwy Artesia, NM 88210	Telephone No. 405-552-7820
Facility Name Seawolf 1 12 Federal 94Y	Facility Type Oil

Surface Owner Federal	Mineral Owner Federal	API No. 30-025-44138

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	01	26S	33E					Lea

Latitude_32.0792704_ **Longitude**_-103.5200754_ NAD83

NATURE OF RELEASE

Type of Release Oil Based Mud	Volume of Release 5bbls	Volume Recovered 3.5bbls
Source of Release Trip nipple overflowed	Date and Hour of Occurrence January 9, 2018 @ 3:30 AM MST	Date and Hour of Discovery January 9, 2018 @ 3:30 AM MST
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour N/A	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

RECEIVED
By Olivia Yu at 11:40 am, Jan 26, 2018

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
While working casing in tight hole and circulating with the CRT, the well began burping over the trip nipple filling and overflowing the cellar. Approximately 5 bbls of oil based mud was released on the ground.

Describe Area Affected and Cleanup Action Taken.*
Approximately 5 bbls of oil based mud was released on the ground. Approximately 3.5 bbls of oil based mud was recovered using a vacuum truck The remaining fluid soaked into the soil and was immediately scraped up where accessible. The remaining area will be scraped once the rig moves and the area is accessible.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Michael Shoemaker

Printed Name: Michael Shoemaker

Title: Environmental Professional

E-mail Address: mike.shoemaker@dvn.com

Date: 1/23/18 Phone: 575.748.3371

OIL CONSERVATION DIVISION

Approved by Environmental Specialist:

Approval Date: 1/26/2018 Expiration Date:

Conditions of Approval:
see attached directive

Attached ☑

* Attach Additional Sheets If Necessary

1RP-4943 nOY1802642217

pOY1802642561

Operator/Responsible Party,

The OCD has received the form C-141 you provided on _1/23/2018_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number _1RP-4943__ has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

> *The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC.* [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs____ on or before _2/26/2018_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

● Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C_6 thru C_{36}), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

● Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C_6 thru C_{36}), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

● Nominal detection limits for field and laboratory analyses must be provided.

● Composite sampling is not generally allowed.

● Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

●Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

● If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

● Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

Seawolf 1 12 Federal 94Y

5 bbls OBM

devon

This map is for illustrative purposes only and is neither a legally recorded map nor survey and is not intended to be used as one. Devon makes no warranty, representation, or guarantee of any kind regarding this map.

WGS_1984_Web_Mercator_Auxiliary_Sphere
Prepared by: Michael Shoemaker
Map is current as of: 23-Jan-2018

N

Miles
0 0.00 0.01 0.02 1: 889



APPENDIX B
SENSITIVE RECEPTORS MAP

P:\330-000\331-073\-GIS\Maps\EN01_Site_Characterization\331073_EN01_Site_Characterization\331073_EN01_Site_Characterization.aprx 4/1/2024 10:21 AM (ccyprych)



REFERENCES

ESRI WORLD IMAGERY / ARCGIS MAP SERVICE: HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD_IMAGERY, ACCESSED 4/1/2024.

NHD FLOWLINES NEW MEXICO, U.S. GEOLOGICAL SERVICE, NATIONAL HYDROGRAPHY DATASET (NHD) FLOWLINES FOR NEW MEXICO, 2022.

U.S. FISH & WILDLIFE SERVICE, NATIONAL WETLANDS INVENTORY (NWI) DATABASE FOR NEW MEXICO, 2021.

Civil & Environmental Consultants, Inc.
700 Cherrington Parkway· Moon Township, PA 15108
(412) 429-2324 · (800) 365-2324 · fax: (412) 429-2114
www.cecinc.com

DEVON ENERGY CORPORATION
REMEDIATION CLOSURE REPORT
SEAWOLF 1 12 FEDERAL 94Y
LEA COUNTY, NEW MEXICO

SENSITIVE RECEPTOR MAP

DRAWN BY:	JLR	CHECKED BY:	LDC	APPROVED BY:	RJV*	FIGURE NO:	B-1
DATE:	4/1/2024	SCALE:	1"=2 miles	PROJECT NO:	331-073		

*Hand signature on file

APPENDIX C
TEMPORARY WELL C-4626 RECORDS

Atkins ENGINEERING ASSOCIATES INC.
2904 W 2nd St.
Roswell, NM 88201
voice: 575.624.2420
fax: 575.624.2421
www.atkinseng.com

June 8, 2022

DII-NMOSE
1900 W 2nd Street
Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4628 Pod1at Seawolf 1-12 CTB 1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, C-4628 Pod1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

Lucas Middleton

Enclosures: as noted above

OSE DII JUN 16 2022 PM2:19

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 1 (TW-1)	N/A	C-4628

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

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

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	4	46.64	N
	LONGITUDE	103	31	34.28	W

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

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

NW NW NE Sec.1 T26S R33S NMPM

2. DRILLING & CASING INFORMATION

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

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
6/9/2022	6/9/2022	Temporary Well	±55	N/A

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

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

DATE STATIC MEASURED: 6/13/2022

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

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

CHECK HERE IF PITLESS ADAPTER IS INSTALLED ☐

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

3. ANNULAR MATERIAL

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

FOR OSE INTERNAL USE

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

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

OSE DII JUN 16 2022 PM 2:13

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	4	4	Sand, Fine-grained, poorly graded, unconsolidated 7.5 YR 5/4, Brown	Y ✓ N	
4	14	10	Sand, Fine-grained, poorly graded, semi-consolidated 7.5 YR 5/4, Brown	Y ✓ N	
14	19	5	Limestone, consolidated 10 YR 7/4. Pale Brown	Y ✓ N	
19	55	36	Sand, Fine-grained, poorly graded, 7.5 YR 6/8, Reddish Yellow	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

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

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

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

MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface.
27
Seawolf 1-12 CTB 1

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

Shane Eldridge, Cameron Pruitt

6. SIGNATURE

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

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

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

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

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

OSE DII JUN 16 2022 PM2:13

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C-4628

Well owner: Devon Energy Phone No.: 575-748-1838

Mailing address: 6488 7 Rivers Hwy

City: Artesia State: New Mexico Zip code: 88210

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Jackie D. Atkins (Atkins Engineering Associates Inc.)

2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Shane Eldridge, Cameron Pruitt

4) Date well plugging began: 6/13/2022 Date well plugging concluded: 6/13/2022

5) GPS Well Location: Latitude: 32 deg, 4 min, 46.64 sec
Longitude: 103 deg, 31 min, 34.28 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 55 ft below ground level (bgl), by the following manner: water level probe

7) Static water level measured at initiation of plugging: n/a ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 5/26/2022

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Version: September 8, 2009
Page 1 of 2

OSE DII JUN 16 2022 PM2:19

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	0-10' Hydrated Bentonite	Approx. 15 gallons	15 gallons	Augers	
	10'-55' Drill Cuttings	Approx. 71 gallons	71 gallons	Boring	

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Jackie D. Atkins, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Jack Atkins

Signature of Well Driller

6/16/2022

Date

Version: September 8, 2009
Page 2 of 2

OSE DIT JUN 16 2022 PM2:13

WR-20 Well Record and Log_2022-01-28-forsig n

Final Audit Report 2022-06-16

Created:	2022-06-16
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAA5h_Mq_hHlnyQhNrnN3hkX09Fm6A5MILxW

"WR-20 Well Record and Log_2022-01-28-forsign" History

Document created by Lucas Middleton (lucas@atkinseng.com)
2022-06-16 - 4:59:31 PM GMT- IP address: 24.49.110.136

Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2022-06-16 - 5:00:16 PM GMT

Email viewed by Jack Atkins (jack@atkinseng.com)
2022-06-16 - 5:04:06 PM GMT- IP address: 64.90.153.232

Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2022-06-16 - 5:05:04 PM GMT - Time Source: server- IP address: 64.90.153.232

Agreement completed.
2022-06-16 - 5:05:04 PM GMT

RECEIVED OCD JUN 16 2022 PM2:20

Adobe Acrobat Sign

APPENDIX D
NMOCD CORRESPONDENCE

From: Enviro, OCD, EMNRD
To: Campbell, Laura
Cc: Velez, Nelson, EMNRD
Subject: RE: [EXTERNAL] Devon Energy Seawolf 1 12 Fed 94Y (nOY1802642217) - 48 Hour Notification
Date: Tuesday, June 6, 2023 10:11:43 AM
Attachments: image003.jpg
image004.png
image005.png

Laura,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon ● Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
http:// **www.emnrd.nm.gov**

From: Campbell, Laura <lcampbell@cecinc.com>
Sent: Friday, June 2, 2023 1:52 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Subject: RE: [EXTERNAL] Devon Energy Seawolf 1 12 Fed 94Y (nOY1802642217) - 48 Hour Notification

Hello,

We were not able to access the site in May, and will be returning to collect the site characterization samples on Wednesday, June 7 around 8am.

Thank you,
Laura

Laura D. Campbell | *Project Manager*
Civil & Environmental Consultants, Inc.
700 Cherrington Parkway, Moon Township, PA 15108
direct 412.249.1547 **office** 412.429.2324 **mobile** 412.584.7176

www.cecinc.com

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Tuesday, May 2, 2023 10:49 AM
To: Campbell, Laura <lcampbell@cecinc.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Subject: RE: [EXTERNAL] Devon Energy Seawolf 1 12 Fed 94Y (nOY1802642217) - 48 Hour Notification

Laura,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon ● Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
http:// **www.emnrd.nm.gov**

From: Campbell, Laura <lcampbell@cecinc.com>
Sent: Sunday, April 30, 2023 9:53 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Devon Energy Seawolf 1 12 Fed 94Y (nOY1802642217) - 48 Hour Notification

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Hello,

On behalf of Devon Energy, CEC will be conducting sampling at the site referenced above beginning Wednesday, May 3 at noon or Thursday, May 4 at 9am either day. Site access is dependent on activity on site finishing early this week; if there are any delays that will postpone the sampling beyond Thursday I will submit a new 48 hour notice. The sampling is primarily intended for site assessment/characterization, but notification is being provided in the event that no remediation is

required and the samples are submitted as part of the closure report.

Please let me know if you any questions.
Thank you,
Laura

Laura D. Campbell | *Project Manager*
Civil & Environmental Consultants, Inc.
700 Cherrington Parkway, Moon Township, PA 15108
direct 412.249.1547 **office** 412.429.2324 **mobile** 412.584.7176
www.cecinc.com

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From: Wells, Shelly, EMNRD
To: Brittain, Brad; Bratcher, Michael, EMNRD; Hall, Brittany, EMNRD
Subject: RE: [EXTERNAL] Devon Energy Seawolf 1 12 Fed 94Y (nOY1802642217) - 48 Hour Notification
Date: Friday, October 27, 2023 10:46:22 AM
Attachments: image001.png

Good morning Brad,

The OCD has received your notification. Notification requirements are **two full business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Brittain, Brad <bbrittain@cecinc.com>
Sent: Thursday, October 26, 2023 4:50 PM
To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Devon Energy Seawolf 1 12 Fed 94Y (nOY1802642217) - 48 Hour Notification

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Hello:

CEC will be collecting additional site characterization/delineation samples at the Seawolf 1 12 Fed 94Y. We plan to start work on Monday, October 30 around 12 pm. My apologies, I'd typed these emails up this morning and thought I'd sent them.

Bradley Neal Brittain | *Senior Project Manager*
Civil & Environmental Consultants, Inc.
(Please note new address)
4700 Gaillardia Parkway, Suite 101, Oklahoma City, OK 73142
office 405.246.9411 Ext 7617 **direct** 405.463.7617 **mobile** 405.815.7664
bbrittain@cecinc.com | www.cecinc.com



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Montgomery, Travis

From: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>
Sent: Wednesday, June 5, 2024 9:56 AM
To: Campbell, Laura
Cc: Pike, Dan
Subject: RE: [EXTERNAL] Request for Sampling Variance - Incident ID NOY1802642217, Seawolf 1 12 Federal 94Y (CEC 331-073)

Good Morning,

Your variance request to collect closure confirmation samples every 400 square feet has been approved. Please include this correspondence in all subsequent reports.

Ashley Maxwell • Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.635.5000 | Ashley.Maxwell@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

Please be advised that the new Digital C-141 is live as of December 1, 2023. Please review the new Digital C-141 submission Dec 1, 2023 Guidance document posted on the EMRND Website prior to submitting any C-141s. The guidance documents can be found at https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/or https://www.emnrd.nm.gov/ocd/ocd-forms/.

From: Campbell, Laura <lcampbell@cecinc.com>
Sent: Wednesday, June 5, 2024 8:44 AM
To: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>
Cc: Pike, Dan <dpike@cecinc.com>
Subject: [EXTERNAL] Request for Sampling Variance - Incident ID NOY1802642217, Seawolf 1 12 Federal 94Y (CEC 331-073)

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

Good morning,

CEC would like to request a sampling variance for the Seawolf 1 12 Federal 94Y January 9, 2018 release (Incident ID NOY1802642217). Depth to groundwater at the Site was determined to be greater than 51 feet bgs (based upon temporary well C-4626). The site is in a low karst potential area and the distances to the nearest flowing water course, wetland, private water source, etc. are greater than the distances specified in in Subsection C of 19.15.29.12 NMAC.

The site characterization sampling did not identify any areas that exceeded the standards on Table I (10,000 mg/kg chloride, 2,500 mg/kg total TPH, 1,000 mg/kg GRO+DRO, 50 mg/kg BTEX, or 10 mg/kg benzene), and no remediation is required. However, we identified an area of approximately 36,830 square feet (5,235 cubic yards) that will require reclamation at a later date (i.e. exceeds the reclamation criteria of 600 mg/kg for chloride, 100 mg/kg for total TPH, etc. in the upper four feet of soil). CEC proposes to collect confirmation soil samples from the area that will require reclamation at a later date using 5-point composite samples representative of 400 square

feet, for a total of approximately 92 confirmation samples. Grab samples will be collected from wet or discolored areas, if identified during the confirmation sampling event.

If you need any additional information, please let me know.
Thanks,
Laura

Laura D. Campbell | *Project Manager*
Civil & Environmental Consultants, Inc.
700 Cherrington Parkway, Moon Township, PA 15108
direct 412.249.1547 **office** 412.429.2324 **mobile** 412.584.7176
www.cecinc.com

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From: Maxwell, Ashley, EMNRD
To: Pike, Dan
Cc: Valli, Bo; Campbell, Laura
Subject: RE: [EXTERNAL] Request for Sampling Variance - Incident ID NOY1802642217, Seawolf 1 12 Federal 94Y (CEC 331-073)
Date: Thursday, August 15, 2024 9:07:49 AM
Attachments: image001.png
image002.png

Good Morning,

Your sample variance has been approved. Please include this correspondence in subsequent reports.

Ashley Maxwell • Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.635.5000 | Ashley.Maxwell@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

Please be advised that the new Digital C-141 is live as of December 1, 2023. Please review the new Digital C-141 submission Dec 1, 2023 Guidance document posted on the EMRND Website prior to submitting any C-141s. The guidance documents can be found at https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/or https://www.emnrd.nm.gov/ocd/ocd-forms/.

From: Pike, Dan <dpike@cecinc.com>
Sent: Wednesday, August 14, 2024 4:42 PM
To: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>
Cc: Valli, Bo <bvalli@cecinc.com>; Campbell, Laura <lcampbell@cecinc.com>
Subject: [EXTERNAL] Request for Sampling Variance - Incident ID NOY1802642217, Seawolf 1 12 Federal 94Y (CEC 331-073)

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Good evening, Ashley-

CEC would like to request a sampling variance for the Seawolf 1 12 Federal 94Y January 9, 2018 release (Incident ID NOY1802642217). Depth to groundwater at the Site was determined to be greater than 51 feet bgs (based upon temporary well C-4626). The site is in a low karst potential area and the distances to the nearest flowing water course, wetland, private water source, etc. are greater than the distances specified in Subsection C of 19.15.29.12 NMAC. CEC also requests a reporting variance to extend the current report submittal date until after the remedial excavation and sampling activities described below are conducted.

CEC conducted surficial soil sampling activities at the release area at 400 square-feet intervals on June 25-26, 2024 pursuant to an approved variance on June 5, 2024. Prior site characterization sampling did not identify areas that exceeded the remediation standards on Table I (10,000 mg/kg chloride, 2,500 mg/kg total TPH, 1,000 mg/kg GRO+DRO, 50 mg/kg BTEX, or 10 mg/kg benzene). Laboratory analytical results of the samples collected during surficial soil sampling on June 25-26, 2024 identified an area of approximately 8,400 square feet (approximately 155 estimated cubic yards) that will require remediation (i.e. exceeds the remediation standards identified above).

CEC proposes to oversee the remedial scraping and removal of impacted surficial soils where previous sampling results indicated exceedances of remediation closure criteria using 5-point composite samples representative of 400 square-feet. CEC anticipates the submittal of a deferral request to OCD for impacted surficial soil near identified utilities and subsurface facilities. Grab samples will be collected from wet or discolored areas, if identified during the confirmation sampling event. CEC is coordinating with Devon Energy's remediation team to schedule the scraping and sample collection activities promptly.

If you need any additional information, please let me know.
Thanks,
Dan

Daniel Pike, P.E. | *Assistant Project Manager*
Civil & Environmental Consultants, Inc.
11811 N. Tatum Blvd., Suite 3057, Phoenix, AZ 85028
direct 602.644.2183 **office** 602.760.2324 **mobile** 480.254.7967
www.cecinc.com

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OCD Permitting

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

Submission Information

Submission ID:	386619	**Districts:**	Hobbs
Operator:	[6137] DEVON ENERGY PRODUCTION COMPANY, LP	**Counties:**	Lea
Description:	DEVON ENERGY PRODUCTION COMPANY, LP [6137] , SEAWOLF 1 12 FEDERAL #094Y , nOY1802642217		
Status:	APPROVED		
Status Date:	09/25/2024		
References (2):	30-025-44138, nOY1802642217		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	**nOY1802642217**
Incident Name	**NOY1802642217 SEAWOLF 1 12 FEDERAL #094Y @ 30-025-44138**
Incident Type	**Release Other**
Incident Status	**Initial C-141 Approved**
Incident Well	**[30-025-44138] SEAWOLF 1 12 FEDERAL #094Y**

Location of Release Source

Site Name	**SEAWOLF 1 12 FEDERAL #094Y**
Date Release Discovered	**01/09/2018**
Surface Owner	**Federal**

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	8,400
What is the estimated number of samples that will be gathered	23
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/27/2024
Time sampling will commence	08:30 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers	Travis Montgomery - Field Team Lead, Cell (918) 281-9663 Laura Campbell - Project Manager, Cell (412) 584 variance for 400-square foot composite samples approved by Ashley Maxwell, EMNRD on 8/15/2024 via emai

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

Comments

No comments found for this submission.

Conditions

Summary: *wdale (9/25/2024),* Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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OCD Permitting

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

Submission Information

Submission ID:	395307	**Districts:**	Hobbs
Operator:	[6137] DEVON ENERGY PRODUCTION COMPANY, LP	**Counties:**	Lea
Description:	DEVON ENERGY PRODUCTION COMPANY, LP [6137] , SEAWOLF 1 12 FEDERAL #094Y , nOY1802642217		
Status:	APPROVED		
Status Date:	10/23/2024		
References (2):	30-025-44138, nOY1802642217		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	**nOY1802642217**
Incident Name	**NOY1802642217 SEAWOLF 1 12 FEDERAL #094Y @ 30-025-44138**
Incident Type	**Release Other**
Incident Status	**Initial C-141 Approved**
Incident Well	**[30-025-44138] SEAWOLF 1 12 FEDERAL #094Y**

Location of Release Source

Site Name	**SEAWOLF 1 12 FEDERAL #094Y**
Date Release Discovered	**01/09/2018**
Surface Owner	**Federal**

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	100
What is the estimated number of samples that will be gathered	1
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/28/2024
Time sampling will commence	08:00 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers	Travis Montgomery - Field Team Lead, Cell (918) 281-9663 Laura Campbell - Project Manager, Cell (412) 584
Please provide any information necessary for navigation to sampling site	(32.078949, -103.520419) Jal, NM, W on NM-128 W for 13.8 mi to Battle Axe Road (Rt. 2); L on Battle Axe Rd L on unnamed access road for 0.2 mi (travelling east and south); L on unnamed access road to Seawolf 1 12 F

Comments

No comments found for this submission.

Conditions

Summary: *jraley (10/23/2024),* Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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APPENDIX E
SOPS FOR FIELD SCREENING

06-03-02 FIELD CHLORIDE CONCENTRATION SCREENING IN SOIL SAMPLES

I. SCOPE AND APPLICABILITY: This procedure is used for estimation of chloride concentrations in soil samples.

II. PROJECT-SPECIFIC REQUIREMENTS

A. SAMPLES TO BE SCREENED: Screening locations are described in the SQAPP.

B. MONITORING INSTRUMENTS: Screening will be conducted using Quantab® chloride titrators (or equivalent).

C. OTHER REQUIREMENTS: None

III. METHODOLOGY

A. Place split soil sample in a stainless steel mixing bowl, remove rock fragments and organic material and completely homogenize with a stainless steel spoon.

B. Using a portable battery operated scale, weigh 50 grams of soil and place into a plastic or glass container. Using a graduated cylinder, add distilled water to the container and shake for one minute or longer. In order to simplify the math, it is customary to add distilled water in quantities of either 50 mL (equivalent to 1 to 1 weight ratio of water to soil), 100 mL (equivalent to 2 to 1 weight ratio of water to soil), or 150 mL (equivalent to 3 to 1 weight ratio of water to soil). In highly cohesive soil, shaking may not completely disaggregate the soil. In this case, a gloved hand can be used to break up the soil to release the chloride from the soil provided that none of the soil and distilled water mixture splashes out of the container or is removed by cohesion to the glove. Once the soil is disaggregated, allow the sample mixture to settle so that heavy particles drop out.

C. Insert the lower end of a low-range chloride Quantab® titrator (or equivalent) in the aqueous solution that contains the disaggregated soil. The reaction is complete when the moisture sensitive yellow band across the top of the titrator turns dark. The length of the white chloride column on the strip represents the titrator unit value. If the white chloride column reaches the top of the strip, the chloride concentration in the solution exceeds the low-range titrator. If this exceedance occurs, use a high-range titrator strip.

D. Convert the unit value read on the titrator to chloride concentration in water in milligrams/Liter (mg/L) using the table provided on the titrator bottle. Multiply the chloride concentration in mg/L obtained from the table by the appropriate factor of 1, 2 or 3 based on the weight ratio of water to soil used in Section B. to calculate the chloride concentration in soil in milligrams per kilogram (mg/kg). Note that the soil chloride concentration calculated using this method is based on wet weight whereas laboratories typically report chloride concentrations in dry weight. The wet weight result is typically satisfactory for field screening. The wet weight soil chloride concentration reported using this method can be converted to a dry weight if the percent moisture content of the original soil sample is known. Simply multiply the calculated wet weight chloride result arrived at using this method by 1 + moisture content of the original soil sample.

E. Using the remaining aqueous solution, collect field parameter measurements including total dissolved solids (TDS) and specific conductance.

IV. PRECAUTIONS AND COMMON PROBLEMS

A. If laboratory analysis is to be performed, the material submitted for laboratory analysis should be similar to the sample selected for field chloride screening.

B. Turbid solutions will clog the capillary pores of the titrator and cause very slow or incomplete reactions.

C. Each Quantab® lot is calibrated independently. The chloride concentration table on the bottle from which the strip was removed must be used as values may differ from those of other bottles.

D. Dropping the titrator strip to the bottom of the container when taking readings should be avoided because the sediment on the bottom of the container often clogs the strip. It is customary to suspend the titrator strip off of the bottom of the container using a clothes pin or similar clipping device.

V. DOCUMENTATION: Record the readings on the **Field Screening Log**.

VI. REFERENCES: None.

06-03-01 ORGANIC VAPORS IN HEADSPACE OVER SOIL

I. SCOPE AND APPLICABILITY: This procedure is used to obtain field measurements of VOCs in the headspace above a soil sample.

II. PROJECT-SPECIFIC REQUIREMENTS

A. SAMPLES TO BE SCREENED: Screening locations are described in the SI-QAPP.

B. MONITORING INSTRUMENTS: Screening will be conducted using a photoionization detector (PID) with a 10.6 eV lamp.

C. OTHER REQUIREMENTS: PID is to be calibrated daily in the field with proper documentation. calibration records will be maintained on the daily field activity log.

III. METHODOLOGY

A. Use the non-viable split when performing field screening.

B. Break up cohesive samples inside the ziplock bag to expose additional surface area.

C. Allow to stand for at least 15 minutes. If temperatures are below 40 F, keep the samples in a warm place. Do not leave the samples in direct sunlight during hot weather.

D. To take the headspace reading, open the seal just enough to insert a probe, slip the probe in, and record the initial reading.

IV. PRECAUTIONS AND COMMON PROBLEMS

A. This screening does not replace any monitoring required by the Site Health and Safety Plan.

B. Do not expose samples to extreme temperatures.

V. DOCUMENTATION: Record the results of field screening along with ambient conditions on the Field Screening Log.

VI. REFERENCES: None.

06-03-02 FIELD CHLORIDE CONCENTRATION SCREENING IN SOIL

I. SCOPE AND APPLICABILITY: This procedure is used for estimation of chloride concentrations on aqueous extracts prepared from soil samples.

II. PROJECT-SPECIFIC REQUIREMENTS

A. SAMPLES TO BE SCREENED: Screening locations are described in the SQAPP.

B. MONITORING INSTRUMENTS: Screening will be conducted using Quantab® chloride titrators (or equivalent).

C. OTHER REQUIREMENTS: None

III. METHODOLOGY FOR WATER

A. Place the water sample into a container.

B. Insert the lower end of a low-range chloride Quantab® titrator (or equivalent) in the aqueous solution. The reaction is complete when the moisture sensitive yellow band across the top of the titrator turns dark. The length of the white chloride column on the strip represents the titrator unit value. If the white chloride column reaches the top of the strip, the chloride concentration in the solution exceeds the low-range titrator. If this exceedance occurs, use a high-range titrator strip.

C. Convert the unit value read on the titrator to chloride concentration in milligrams/Liter (mg/L) using the table provided on the titrator bottle.

IV. METHODOLOGY FOR SOIL

A. Place split soil sample in a stainless steel mixing bowl, remove rock fragments and organic material and completely homogenize with a stainless steel spoon.

B. Using a portable battery operated scale, weigh 50 grams of soil and place into a plastic or glass container. Using a graduated cylinder, add 100 milliliters (mL) of distilled water to the container and shake for one minute or longer. Allow the sample mixture to settle so that heavy particles drop out.

C. Insert the lower end of a low-range chloride Quantab® titrator (or equivalent) in the aqueous solution. The reaction is complete when the moisture sensitive yellow band across the top of the titrator turns dark. The length of the white chloride column on the strip represents the titrator unit value. If the white chloride column reaches the top of the strip, the chloride concentration in the solution exceeds the low-range titrator. If this exceedance occurs, use a high-range titrator strip.

D. Convert the unit value read on the titrator to chloride concentration in milligrams/Liter (mg/L) using the table provided on the titrator bottle. Multiply the chloride concentration in mg/L obtained from the table by two (2) to calculate the chloride concentration in soil in milligrams per kilogram (mg/kg).

E. Using the remaining aqueous solution, collect field parameter measurements including total dissolved solids (TDS) and specific conductance.

V. PRECAUTIONS AND COMMON PROBLEMS

A. If laboratory analysis is to be performed, the material submitted for laboratory analysis should be similar to the sample selected for field chloride screening.

B. Turbid solutions will clog the capillary pores of the titrator and cause very slow or incomplete reactions.

C. Each Quantab® lot is calibrated independently. The chloride concentration table on the bottle from which the strip was removed must be used as values may differ from those of other bottles.

VI. DOCUMENTATION: Record the readings on the **Field Screening Log**.

VI. REFERENCES: None.

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Ver.1 Rev. 1 04/09

Introduction to the PetroFLAG® Hydrocarbon Analysis System

NOTE: PLEASE READ THE ENTIRE MANUAL BEFORE ATTEMPTING TO RUN THIS TEST

The PetroFLAG hydrocarbon analysis system is a broad spectrum field analytical tool suitable for any type of hydrocarbon contamination regardless of the source or state of degradation[1]. Unlike other field screening methods, the PetroFLAG system does not target specific compounds such as BTEX (Benzene, Toluene, Methylbenzene and Xylene) or PNAs (Poly-Nuclear Aromatics) that may be part of some hydrocarbon mixture. This makes the PetroFLAG system a very versatile analytical method that can be used on most hydrocarbon spills without prior knowledge of the BTEX or PNA content of the contaminant. The PetroFLAG system uses patented chemistry to respond to the broadest range of hydrocarbons possible. The PetroFLAG system is most sensitive to heavier hydrocarbons such as oils and greases and less sensitive to the lighter more volatile hydrocarbon fuels. The specially designed PetroFLAG analyzer allows the user to select, in the field, the response factor that is appropriate for the suspected contaminant at each site. The response factors for a number of contaminants are listed in Table 1. Using the selected response factor, the analyzer compensates for the relative response of each analyte and displays the correct concentration in ppm. The response curves for some typical hydrocarbon contaminants are plotted in Appendix A.

All chemical methods for hydrocarbon analysis in soil that are currently in use, whether they be field screening or laboratory methods, depend on solvent extraction to remove the hydrocarbons from the soil sample. The extraction efficiency for each method is a function of the solvent used and the extraction procedure. This efficiency is also dependent on many other factors such as the soil type, water content, pH, etc. Many EPA SW-846 methods use chlorinated solvents or Freon as extraction solvents. These solvents were originally chosen for their extraction efficiency of polar organic compounds and may not be appropriate for hydrocarbons. Furthermore, special measures need to be taken with these lab methods when the soil is wet.[2] The extraction efficiencies may be as low as 1%[3] in some cases.

The extraction solvent used in the PetroFLAG system has been carefully developed to give consistent extraction efficiencies over the range of soil types and conditions most commonly encountered in the field. The PetroFLAG solvent system contains no chlorofluorocarbons or chlorinated solvents. The extraction efficiency is unaffected by soil moisture and, in most cases, is up to 15%(w/w).[4]

Because the PetroFLAG system has such a broad response spectrum, there are situations where it will indicate a higher hydrocarbon concentration than other methods. This can be due to the higher extraction efficiency of the PetroFLAG extraction solution or the broader response range of the detection system. SW-846 method 8015B, for example, targets only a very narrow range of

[1] Brake fluid, phosphate ester based hydraulic oil, and other soluble fluids, will not be detected by the PetroFLAG system.

[2] USEPA SW846 Method 3550A Ultrasonic Extraction Rev 1, November 1992

[3] Lee, W.E. III, Houchin, C.A. and Albergo, N., "TRPH Discrimination of Petroleum and Non-petroleum Organic Materials", *American Environmental Lab*, December 1993.

[4] The presence of water will cause a dilution effect resulting in a lower response. This effect can be corrected for, if the water content is known. (For a more complete discussion see "Using the PetroFLAG System: Effects of Soil Water Content on PetroFLAG Result")

hydrocarbons typically in the "Diesel" or "Gasoline" range (DRO or GRO). This method does not detect oils or greases unless the analyst changes the method and specifically looks for the heavier compounds. Requesting 8015B for diesel range hydrocarbons may result in under reporting of the actual total hydrocarbon contamination when oils or greases are present. Method 418.1 is a more general method and detects any Freon extractable compounds that contain a C-H bond. This method has relatively poor extraction efficiencies with many soil types. For a more complete discussion of the comparability of hydrocarbon methods see Appendix B.

Since the PetroFLAG system responds to the full range of hydrocarbons it will also detect some naturally occurring hydrocarbon-like compounds. (Method 418.1 uses a silica column to remove some of these compounds, but will still detect naturally occurring terpenes and creosotes, etc.) Therefore, in situations where high organic content is suspected, background levels outside the spill site should be determined. This will help to identify any naturally occurring sources of hydrocarbons that may cause a positive interference with the test. In cases where there exists a high natural organic background, a "Background Correction" can, in limited circumstances, be used to correct readings for this positive interference. Note: Because of the broad spectrum screening nature of the test, naturally occurring waxes and oils can cause high readings; however, false negatives or under-reported levels are very unlikely.

The PetroFLAG system is a valuable field analytical tool when used as part of a systematic sampling plan. As part of any site work, always have the hydrocarbon contamination characterized at some point during the project by for example, sending confirmation samples for closure to a certified laboratory. Since each laboratory method for petroleum hydrocarbons has a different target analyte and different response characteristics, use only appropriate methods for comparison. Furthermore, since the proficiency of laboratory methods for petroleum hydrocarbons varies from one laboratory to another; it is important to verify that the lab you use is proficient with the method you request. Always ask for QA/QC data and verify that the blanks, duplicates and spikes are within specification for the method. When using a lab that is new to you, send them proficiency samples of known concentrations and varying water content.

Lab results often contain one or more samples that are designated "ND" (none detected) without a qualifier. This type of reporting is misleading because information on the limit of quantification is not included. The designation "ND" never means zero ppm and should be followed by an indication of the detection limits of the method used to obtain the result, e.g., ND<40 ppm. In many cases the detection limits for a method will vary with sample size, dilution factors or extraction procedures and may not be the same for all samples in the sample batch. The detection limits for some of the common lab TPH methods are on the order of 40-50 ppm. Therefore, when comparing laboratory data it is important to know the realized detection limits implied in any "ND" results.

Using the PetroFLAG System

The PetroFLAG analyzer has been specifically designed to be used with the unique patented chemistry of the PetroFLAG system. The meter is shipped fully calibrated, preset with response factor 5. This calibration is sufficient to begin screening measurements; however, in order to achieve optimum performance we recommend that the analyzer be calibrated with each batch of samples, or at least daily. The PetroFLAG analyzeris easy to calibrate and a calibration standard is included with every refill pack.

The PetroFLAG analyzer stores two independent calibration equations in separate memory locations. Each calibration has a unique designation, "1C" or "2C". One way to effectively use this feature is to use one for a “low temp.” calibration and one for a “high temp.” calibration. This practice is very useful when working at field locations where the ambient temperature varies by more than 10°C over the course of the day. One calibration, run at the lower temperature in the morning, could be stored under “1C” and later as the temperature rises, triggering a temperature warning, a new calibration can be run and stored under “2C”. (See below under “Temperature Effects”)-

Table 1: Response Factors and Method Detection Limits for Common Hydrocarbons

Hydrocarbon Type	Method Detection Limit (ppm)	Response Setting
Transformer Oil	15	10
Grease	15	9
Hydraulic Fluid	10	8
Transmission Fluid	19	8
Motor Oil	19	7
#2 Fuel Oil	25	7
#6 Fuel Oil	18	6
Diesel Fuel	13	5
Gear Oil	22	5
Low Aromatic Diesel	27	4
Pennsylvania Crude Oil	20	4
Kerosene	28	4
Jet A	27	4
Weathered Gasoline	200*+	2

*See Appendix A
+Due to the non-linear response curve of Gasoline, quantification below 1000 ppm may underestimate the true contamination

Choosing the Correct Response Factor

The microprocessor in the PetroFLAG analyzer uses the calibration data to convert the optical reading into a preliminary concentration. The selected response factor is then used to calculate the correct concentration for the analyte of interest. Therefore, it is important to choose the response factor that is appropriate for the particular hydrocarbon or class of hydrocarbons present at the site. The response factor can be changed at any time without affecting the stored calibrations. (See “Analyzer Operation Examples: Standard Operation-Changing Response Factor Without Recalibrating”)

If the contaminant is known or suspected, choose the appropriate response factor from Table 1 and set that response factor on the analyzer. (See “Analyzer Operation” below.) If there is a mixture of hydrocarbons, use the most conservative response factor (i.e. the lowest) for the contaminants known to be present. If the contaminants are unknown, choose a conservative response factor based on those hydrocarbons that are likely to be on the site. Examination of Table 1, indicates that the majority of typical contaminants are in response category 5 or above.

Analyzing High Concentration Samples

The PetroFLAG Hydrocarbon Analyzer is pre-programmed to warn the user of an over-range condition. If the over-range reading is outside of the linear range (±10 precision), but still within the quantifiable range (±20% precision), the reading will be displayed blinking. This reading can be used as an indication that the concentration in the sample is not less than the displayed value. Since the response curve for most analytes is non-linear at high concentrations, the concentration in the sample may be higher than the displayed value. If the over-range condition is outside of the quantifiable range of the meter, the display will show a blinking "EEEE". Either error indication can be cleared by simply inserting the next vial and pressing the <READ/ON> key.

Accurate results can be difficult to obtain when 10 gram soil samples with high contaminant concentrations are used since they may cause a over-range condition on the PetroFLAG analyzer. To quantify these high contaminant samples, extract fresh soil samples of 1 gram size and reanalyze. Then multiply the result by 10 to obtain the concentration in the sample. Using this procedure, it is possible to measure oils containing up to 50,000 ppm of light hydrocarbon contamination or 10,000 ppm of a heavier hydrocarbon. For readings at higher concentrations, a “high range kit” is available.

NOTE: The use of either smaller samples or “high range kits” will affect the precision and accuracy of the method as well as raise the MDL (Minimum Detection Limit) in proportion to the dilution factor.

Converting Response Factors for Data Already Collected

Collected data can be easily converted to the correct reading when it has been determined that the wrong response factor has been used. To make this conversion, multiply the measured value by the response factor initially used to make the measurement and divide by the new response factor.

Temperature Effects on Measurements

The PetroFLAG analyzer is equipped with an onboard temperature sensor to measure the ambient temperature while measurements are being made. The software uses the temperature readings to correct the optical readings for drift caused by the temperature fluctuations. The corrections have been determined for their effects on the turbidity development and the temperature drift of the electronics.

The PetroFLAG analyzer can be used at temperatures from 4ºC to 45ºC. The temperature corrections are valid for temperatures within 10ºC of the calibration temperature. If a calibration is run with each batch of samples, the temperature correction is not significant and measurements can be made at any temperature within the usable range of the instrument. However, if no calibration is run and the ambient temperature deviates from the calibration temperature by more than 10ºC, an error condition will result. The analyzer will display "Err4" which can only be cleared by pressing the <NEXT> key. Pressing of the <NEXT> key will clear the error and display the current reading. This reading can be recorded but it should be noted that the ambient temperature was outside of the acceptable 10ºC window. Any other samples remaining in the series can be read, however, the same error condition will most likely occur. The meter must be recalibrated to eliminate this error condition.

The ambient temperature should be checked before starting to avoid a temperature error when a calibration is not run with the samples,. This can be

done by taking a reading without inserting a vial into the meter. If a reading is displayed, the temperature is within range and additional readings can proceed. If an error is displayed, the meter must be recalibrated before proceeding.

As previously mentioned, the storage of two calibrations, each at a different temperature, will reduce the number of recalibrations necessary as the temperature changes. If the two calibrations are stored under "1C" and "2C" and are run at temperatures levels 20°C apart, the effective temperature range for measurements now becomes 40°C.

Effects of Soil Water Content on PetroFLAG Result

The presence of water in a soil sample will have a definite effect on the reporting value in the final PetroFLAG result. As with all field measurements, the PetroFLAG system result is calculated based on the sample weight "as received". If there is water present in the sample, this will produce a "wet weight" result causing an apparent under reporting by the PetroFLAG technique when compared to a laboratory reporting on a "dry weight" basis.

To correct for the difference between "wet weight" vs. "dry weight" results, simply divide the PetroFLAG value by the "fraction solids" (FS), where fraction solids is:

FS = Dry Weight/Wet Weight

or:

FS = (100 - %water)/100

Furthermore, when reporting the wet weight vs. dry weight results, the presence of water in a soil sample will cause a "dilution effect". Since the PetroFLAG solvent system is miscible with water, the water in the soil will be extracted into the solvent phase. The aliquot filtered into the developer vial will, therefore, be diluted by the presence of the water. To a first approximation, the correction for this "dilution effect" is made by multiplying the PetroFLAG result by one plus the "fraction water" in the sample, R'=R(1+FW), where fraction water (FW) is:

FW=(Wet Weight - Dry Weight)/Wet Weight

or:

FW = %water/100

The equation below can be used to achieve an overall correction that includes both the conversion of the PetroFLAG result to a "dry weight" value and the correction for the dilution effect:

R'=R((2/FS) - 1)

where:

R' = "Dry Weight" Corrected Result
R = Result displayed by PetroFLAG unit
FS = Fraction Solids

where:

FS = (100 - %water)/100

The above correction is applicable for typical soil types containing up to approximately 15% water by weight. For heavy clays or samples with higher water content, the effect of water content will vary with the analyte and should be determined specifically for each site.

In many cases, the effects of water content can be overcome by using a smaller sample size. This approach is the simplest and can be used effectively when a reduction in precision resulting from a smaller sample size still satisfies the overall data quality objective.

In some soils with high water content, the PetroFLAG response will be reduced both by the poor extraction efficiency of the analyte and a simple dilution. In these soils, the effect of water content on the extraction efficiency can sometimes be reduced by the addition of anhydrous sodium sulfate.

To treat such soils with sodium sulfate, weigh out the appropriate amount of soil sample (10 grams for a standard analysis) followed by the addition of up to 10 grams of anhydrous sodium sulfate. Mix the system thoroughly by stirring and/or shaking the sample until a free-flowing mixture is formed. Add the extraction solvent from a break-top ampule and then, follow the standard analysis procedure.

Treatment with sodium sulfate can improve the extraction efficiency, but will not correct for either the dilution effect or the wet weight/dry weight reporting error. The actual water content in the sample should be determined at some point so that the above corrections for wet weight and the dilution effect can be applied to the final result.

Sample Preparation

Each 10-pack of soil reagents contains reagents and supplies for 10 tests. In addition, one blank and one calibration standard are included. Samples can be run individually or by batch. For optimum performance and throughput, samples should be run in groups of 10 samples, once the meter has been calibrated with a blank and a standard. The meter does not need to be recalibrated, provided that the operating conditions and reaction times are maintained. Total time to analyze 10-15 samples is approximately 20-25 minutes.

Calibration

To insure accurate quantification and repeatable results, it is recommended that the PetroFLAG meter be recalibrated with each batch of 10 samples or, at least, daily. The meter is easily calibrated using an extraction solvent ampule as a blank and the calibration standard (supplied with each ten-pack of reagents).

After exiting the calibration mode, all additional readings made by the PetroFLAG analyzer will automatically incorporate the selected response factor. Therefore, rereading of the calibration standard will result in an incorrect reading unless the response factor being used is 10 and within the correct development time of the sample.

NOTE: Once the *blank* and *calibration standard* have been read, discard them. They will fade with time and cannot be reused; DO NOT USE THEM TO RECALIBRATE THE METER OR TO CHECK THE EXISTING CALIBRATION.

Preparing Blanks and Standards

The following description summarizes the procedure for preparing the blank and calibration standard. Read the step-by-step instructions below completely before beginning the calibration process.

To prepare a *blank* and a *calibration standard*, first label two soil tubes, one as the "blank" and the other as the "standard". Add to the *blank* tube the contents of a break-top ampule labeled “Extraction Solvent”. Add the contents of the break-top ampule labeled "Calibration Standard" to the *standard* soil tube. Process the blank and standard exactly as soil samples as described below. (See “The PetroFLAG Test Procedure”)

QA/QC

Performing periodic calibrations of the PetroFLAG meter is one of the most important quality control checks that can be made. In addition to calibrating the PetroFLAG meter, performance of periodic calibration also serves as a quality control check of the entire analysis system. Each time a calibration is performed the individual operator needs to prepare a fresh set of standards following the entire analysis procedure. To complete a valid calibration, the resulting test standards must meet the QC acceptance criteria stored in the meter. Each time a calibration is carried out, the meter verifies if the operator is performing the test correctly, e.g., following the correct order of steps in sample preparation, holding to the timing requirements, operating the meter correctly, etc. while the meter checks its basic operation. As each calibration is made, the intensity of the test solution is compared to the stored values for acceptance. If the optics have degraded or the electronics are out of specification the calibration will be flagged as an error.

The most important factor affecting the accuracy of PetroFLAG measurements is operator error followed by the ambient temperature determination. If the temperature varies by more than 10ºC from the calibration temperature, the accuracy of the resulting measurement will be affected. Therefore, during each measurement made by the meter, the current ambient temperature is compared to the temperature determined at calibration. If the difference is more than 10ºC, a warning is flashed alerting the operator of the temperature drift. This QC check is transparent to the user unless an error condition exists.

The internal check of the optical system is also transparent to the user. The PetroFLAG meter is designed with two independent optical channels. If, during a measurement, both channels do not agree, an error condition will be generated.

Along with these QC checks, which are performed automatically by the PetroFLAG meter, additional QA/QC procedures should be developed to provide assurances that the data quality objectives for each project are met. The most important part of any SOP (Standard Operating Procedure) should include provisions for ensuring that confirmatory samples are sent to a qualified lab for verification as to the type of hydrocarbon contamination present. This will also serve as a check of the response factor being used. When PetroFLAG meter results are determined to be either high or low when correlated to laboratory data, then a new response factor should be calculated and used. If the PetroFLAG results are not well correlated with the lab, then the field techniques should be examined to determine possible sources of error. A lack of correlation may be the result of inhomogeneous samples or may be due to splitting technique, etc.

A program of field QA/QC should be developed that is compatible with the competing requirements of each user. It should include, a minimum of periodic soil blanks, equipment blanks, soil spikes, and dupes. Other procedures should be implemented depending on the specific requirements of each site.

The PetroFLAG Test Procedure

1) Label the soil extraction tubes (plastic tubes with colored caps) and developer vials (small glass vials with black caps) with the appropriate sample ID. Use the self-adhesive labels to label the screw cap of the developer vial. Do not write in the center 1/3 of the developer vial as this may obscure the optical path when the readings are made

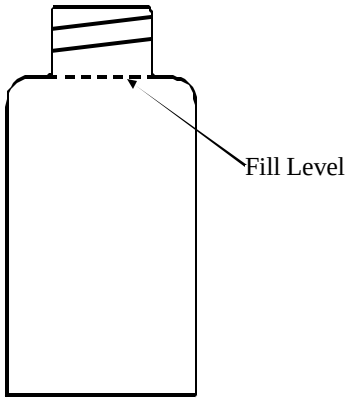
2) Weigh 10 grams (± 0.1 gram) samples of all unknown soils into each of the labeled color-capped polypropylene tubes.

3) Set timer for 5 minutes. Add one break-top ampule of extraction solvent (blue polypropylene top) to the first tube. Start 5 minute timer and shake for 15 seconds. A separate ampule of extraction solvent is added to each of the remaining sample tubes when additional samples are being analyzed. Shake each tube for 15 seconds ensuring that the soil samples are fully wet. Shake each tube intermittently for a total of 4 minutes, then allow each tube to stand for the remaining 1 minute.

4) Verify that the filter disk is firmly attached to the syringe barrel. Remove the cap from the first labeled developer vial. Carefully decant the liquid from the polypropylene soil tube into the syringe barrel minimizing the transfer of soil particles, as this may plug the filter. Insert the plunger into the syringe barrel. Discard the first few drops from the filter into a waste container by pressing the plunger. Next, add the soil extract drop-wise to the developer solution until the meniscus just enters the neck of the vial (see figure). Shake the vial for 10 seconds, start the 10 minute timer and proceed to the next sample. Read the samples as close to the 10 minute time period as possible. Record this reading. Do NOT attempt to reread the sample as sample variation will occur due to fading of the solution over time. Do not let the developer vials stand longer than 20 minutes before reading, as this may result in lower than actual values.

5) If meter is off, turn on the meter by pressing <READ/ON> key and calibrate (optional, see Analyzer Operation).

6) To read, wipe the vial, place into the meter and press the <READ/ON> key. Be sure that the outside of the vial is clean before reading. Record result on work sheet. Read vials in the same order as they were prepared.



6 mL Developer Vial

Analyzer Operation

The PetroFLAG analyzer is controlled by a low-power consumption micro-computer with a pre-loaded operating program which is stored in EEPROM memory. The program cannot be lost regardless of battery condition. The meter stores two calibration curves in separate memory locations. These calibration curves can be independently updated and the response factors can be changed without losing the calibrations.

The PetroFLAG meter is configured to allow easy access to the program modes. The currently active mode is indicated on the LCD display while a reading is in progress. The response factor and the active calibration can be changed from the MAIN MENU using the four keys on the keypad. The four keys are:

SCROLL	**Scrolls through menu choices.**
NEXT	**Exits the read mode or skips a menu option without changing or executing. (Also used to clear error conditions.)**
READ ON	**Turns the meter on and starts a reading.**
SELECT OFF	**Selects a menu choice. Manually turns meter off (only in the *read* mode).**

When the PetroFLAG analyzer is turned on, the unit will return to the last mode it was in prior to being shut down. Under normal operating conditions, the analyzer will power up in the *read* mode. When the analyzer powers up in the *read* mode, the screen will display the last measured value for two seconds, and then, display the currently selected calibration curve ("1C" or "2C") and response factor (1-15). The meter is now ready to resume measurement. Simply insert a new sample vial into the meter and push the <READ/ON> key. The display will initially indicate the calibration curve (either "1C" or "2C") and the response factor (1-15) that is currently selected. Next, the term "CALC" will flash on the screen and after 5 seconds, the measured concentration in ppm will be displayed.

NOTE: If the battery is disconnected and then reconnected, the meter will automatically return to the MAIN MENU. If the calibration curve and response factor displayed are the desired parameters, the MAIN MENU can be exited while retaining the calibration data by pushing the <NEXT> key. To return to the *read* mode, continue pressing the <NEXT> key until the display shows the calibration curve and the response factor continuously without blinking.

If you wish to exit the *read* mode, push the <NEXT> key and the operation is returned to the MAIN MENU. The <NEXT> key is also used to skip a step where a menu selection is required. To change a flashing menu option, push the <SCROLL> key while the option is flashing. To store the currently flashing menu choice, push the <SELECT> key. This stores the current choice and moves the flashing cursor to the next program mode.

Selecting a Calibration Curve

Either of the two calibration curves, identified as "1C" and "2C", can be selected from the MAIN MENU. From either calibration curve any response factor can be selected. To change the response factor or to re-calibrate the unit, use the <NEXT> key to enter the MAIN MENU screen. Immediately upon entering this menu three decimal points and the response factor are displayed. Next, the first two characters on the screen indicates the calibration curve that is currently selected ("1C" or "2C") is displayed. They will blink, indicating that a new curve may be selected. Use the <SCROLL> key to scroll to the next calibration curve. Push the <SELECT/OFF> key to select the curve.

The response factor will then blink. Use the <"SCROLL> key to scroll to the desired response factor for the target analyte and press the <SELECT/OFF> key.

Reading the Blank and Standard

After the response factor has been selected, the screen will read “CALC” for five seconds and then display the calibration temperature. This temperature will remain on the screen until either the <NEXT> key or the <READ/ON> key is pressed. The screen will then prompt you for the "blank" vial by displaying "-bL-". Insert the blank vial in the meter and press the <READ/ON> key (See "Preparing Blanks and Standards" under "Using the PetroFLAG Hydrocarbon Analysis System). After 5 seconds the screen display should read "0" for 2 seconds. The screen will then prompt for the calibration standard, "-CSd". Insert the calibration standard in the meter, press the <READ/ON> key and after 5 seconds, the calibration is complete. The meter will then re-read the calibration standard to verify a valid calibration and display "1000". If the concentration of the calibration standard is not correct using the newly calculated equation, an error message will flash until the <NEXT> key is pushed. If an error condition exists, the previously stored calibration constants will be retained until a valid calibration is completed (See Appendix C, Table 1: Error Conditions).

Taking a Reading

After calibration, the meter will then display the calibration curve in use (“1C” or “2C”) and the current response factor selected. The meter is ready to read the first sample by inserting the sample vial into the meter and pressing the <READ/ON> key. After reading the sample, the meter will display the concentration in parts per million (ppm) until either the <READ/ON> key or the <NEXT> key is pushed. If no key is pushed for a period of five minutes, the meter will turn off automatically. If the meter turns off automatically, the meter can be reactivated by pressing the <READ/ON> key and the unit will return to the operation mode last used. The meter can be turned off manually by using the <SELECT/OFF> key, while in the *read* mode only.

The optical system on the PetroFLAG analyzer is covered with a screw cap to keep out stray light. To remove this screw cap from the vial holder, simply unscrew it 1/4 of a turn counter-clockwise. To make a measurement, insert the developer vial into the unit, place the screw cap over the vial, and while pressing down on the cap (depressing the spring in the bottom of the vial holder), rotate the cap clockwise. Turn the cap until it is snug, but do not over-tighten.

Power Requirement

The PetroFLAG analyzer is powered by one 9V alkaline battery (included). This battery should last for several thousand readings. If a low battery condition exists "LP" will appear on the display.

Analyzer Operation Examples

Outlined below are step-by-step examples of how to use the PetroFLAG analyzer. Under normal operating conditions the meter will power up in the *read* mode. The examples given here categorized as "standard operation" assume that the meter was last operated in the *read* mode. If the meter was left in another mode for longer than five minutes or the batteries were removed, see below for special cases.

Standard Operation:

(Whenever the last operation mode was *read*, the calibration data is current and the last-used response factor is valid.)

1) Turn the meter on by pressing:

READ ON

The last reading will be displayed for 2 seconds. The display will show the calibration curve and response factor currently selected. The meter is now in the *read* mode.

2) Remove the screw cap, insert developer vial to be read and retighten cap.

3) To begin reading press:

READ ON

The display will show the calibration curve and response factor currently selected (blinking), the display will read "CALC" for 3 seconds, and the final result will be displayed.

4) The result will be displayed until the next reading is taken. To make the next reading: remove the vial and repeat steps 2 and 3 above.

Standard Operation/Changing Response Factor Without Recalibrating:

(Whenever the last operation mode was *read* and a different response factor is desired.)

1) Turn the meter on by pressing:

READ ON

The last reading will be displayed for 2 seconds. The display will show the calibration curve and response factor currently selected. The meter is now in the *read* mode.

2) Return the operation to the MAIN MENU by pressing:

NEXT

Three decimal points will be displayed along with the current response factor. The calibration curve designation will begin blinking.

3) The response factor entry mode is activated by pressing:

NEXT

The response factor will begin to blink indicating that it may be changed.

4) Scroll to the desired response factor by pressing:

SCROLL

The next response factor will be displayed. Continue pressing the < SCROLL > key until the desired response factor is displayed. (Response factors scroll in descending order, i.e., 15-1)

5) When the desired response factor is reached, select it by pressing:

SELECT OFF	**The new response factor has been selected. The meter will calculate and display the current temperature.**

6) Move to the next screen by pressing:

NEXT	**The meter will prompt for the blank to be entered and the calibration procedure to begin by displaying "-bL-".**

7) Skip this calibration procedure and move directly to the *read* mode, saving the new response factor but not recalibrating, by pressing (This exits the calibration mode without affecting the current calibration data):

NEXT	**The meter will display the current calibration curve and the selected response factor and is ready to read a sample using the new response factor.**

8) Proceed with the reading of a sample by following the above procedure for "Standard Operation" beginning at step 2.

Standard Operation With Recalibration:

(Where the last operational mode was the *read* mode and the meter is to be recalibrated.)

Prior to performing this calibration procedure, prepare the *blank* and *standard* as described in the manual under "Using the PetroFLAG Hydrocarbon Analysis System - Preparing Blanks and Standards". They may also be prepared along with the unknown samples in order to save time.

1) Turn the meter on by pressing:

READ ON	**The last reading will be displayed for 2 seconds. The display will show the calibration curve and response factor currently selected. The meter is now in the *read* mode.**

2) Return the operation to the MAIN MENU by pressing:

NEXT	**Three decimal points will be displayed along with the current response factor. The calibration curve designation will begin blinking, indicating that it may be changed.**

(If the displayed calibration curve is the one to be redetermined, skip directly to the response factor input by pressing the < NEXT> key.)

OTHERWISE

3) Scroll to the calibration curve that is to be redetermined by pressing:

SCROLL	**The display will show the next calibration curve designation.**

4) When the desired calibration curve is determined, select it by pressing:

SELECT OFF	**The calibration curve is selected and the meter will prompt for the input of the response factor.**

5) If the response factor displayed is not the desired one, use the <SCROLL> key as described the previous section above under "Standard Operation - Changing Response Factor Without Recalibrating". If the response factor is correct, skip this step by pressing:

NEXT	**The meter will calculate and display the current temperature.**

6) Move to the next screen by pressing:

NEXT

The meter will prompt for the blank to be entered and the calibration procedure to begin by displaying "-bL-".

7) Remove the screw cap and insert the prepared blank vial, replace the cap and begin calibration by pressing:

READ ON

The display will blink showing the selected calibration curve and response factor. The meter will display "0" for three seconds and prompt for the calibration standard by displaying "-CSd".

8) Remove the screw cap and blank vial and insert the calibration standard vial. Read the calibration standard by pressing:

READ ON

The display will blink showing the selected calibration curve and response factor. The display will read "1000" for three seconds and display the currently selected calibration curve and response factor continuously. The meter is now in the read mode.

9) Proceed with reading the unknown samples by following the procedure for "Standard Operation" above, beginning with step 2.

Special Operating Conditions:

Replacement of Battery:

***NOTE*: Use ONLY 9V Alkaline or 9V Lithium battery. Use of carbon/zinc battery will cause the PetroFLAG meter to malfunction.**

Open the battery compartment by sliding the compartment door back (indicated by the arrow on the back of the unit). Lift out the old battery from the compartment and carefully unsnap the battery from the wire harness/connector. Replace with a fresh alkaline battery by snapping the wire harness/connector onto the new battery making sure the polarity is correct (The snaps will only go on one way). Reinsert the battery and connector into the compartment being careful not to twist/ damage the connector wires. Replace compartment door by sliding the door forward until the latch clicks.

Operation of the Meter After the Battery has been Disconnected:

When the battery has been disconnected the micro-processor will automatically return to the MAIN MENU once the battery has been reconnected. The meter, however, will not be in a *read* mode but is calibrated for use, unless other factors warrant recalibration. The operations to be performed will determine the exact steps to be followed. The steps to follow are described above in the various sections of "Analyzer Operation Examples."

Meter Left to Turn Off in Other Mode:

When the meter is left in any "screen" for five minutes the meter will shut off automatically. The meter will return to last active screen when the <READ/ON> key is pressed.

Helpful Suggestions and Safety Precautions

When PetroFLAG test results indicate no hydrocarbons are present, the sample can be sent in for certified laboratory confirmatory analysis. All environmental soil sampling used for final closure should be performed using methods that are approved by the local regulating agency.

Personal protection should be worn during soil sampling and testing. A minimum of latex gloves and goggles should be worn.

Decontamination stations should be set up using appropriate cleaners and rinsing solutions. Soil sampling equipment not supplied with the reagent pack should be decontaminated between sampling locations to prevent the possibility of cross contamination.

All reagents and sampling scoops supplied with the kit are single-use disposable items. Therefore, *do not* reuse spoons, tubes, filters, or vials. The electronic balance is *NOT* disposable.

Check ambient temperature BEFORE extracting soils, when a calibration procedure is not planned for the current batch of test samples.

Make sure the filter disks are screwed on tightly before adding the soil extract to a filter syringe.

Do not leave the PetroFLAG analyzer in direct sunlight when not in use. Store the instrument in the protective carrying case with the lid closed.

Make sure that the contamination at the site is characterized at some time during the investigation.

Avoid sampling organic matter. Scrape away organic material (leaves, sticks, etc.) before sampling.

Avoid sampling directly under pine, cedar, and fir trees unless the sample is collected below the organic layer. Do not collect samples from areas where tree roots have been encountered.

Avoid sampling directly beneath creosote bushes, sage brush and other oil bearing plants.

Commonly Asked Questions

What are the response factors?

A response factor (RF) is the relationship between the analyte of interest and the calibration standard. The turbidity formed in the development solution by the sample is compared to the calibration standard followed by a calculation which determines the correct concentration for your contaminant. For Example: Equal concentrations of diesel and mineral oil do not produce the same level of turbidity. A RF value of 10 for mineral oil divided by the RF value of 5 for diesel produces a result of 2. This means that mineral oil forms twice the turbidity of diesel at the same concentration. Stated another way, 250ppm mineral oil forms the same turbidity as 500 ppm diesel. For more information please see Appendix A in the Manual.

Why doesn't my calibration standard read 1000ppm when I re-read it after calibrating?

This is directly related to the first question. The calibration standard is 1000 ppm mineral oil, therefore, if you read it on any RF other than 10 you will get a different number.

How long are my samples good for after they develop for 10 minutes?

The PetroFLAG development process is a temporary reaction, therefore, readings should be taken right at the end of the 10 minute development period. The turbidity will continue to develop for period of time, after which the solution will begin to fade. Do NOT attempt to reread the sample as results may vary due to these changes in the solution. No measurements should be taken after 20 minutes. This means you must record your data as it is generated because you cannot save your sample vials for future analysis.

After I prepare a set of calibration solutions how long are they good for?

Since the PetroFLAG development chemistry fades over time they are only good for a single use and the 10 minute time window should be adhered to.

The screen is displaying an error code, what does it mean?

See the reference table in Appendix D for a list of "Error Conditions".

What can I do if my reading is over-range?

Process a new sample using a 1 gram soil sample and multiply the end result by 10. This sample dilution will allow you to read up to 10,000-15,000 ppm on most samples (1-1.5%).

The meter is "stuck" in the calibration program mode with the "1C" or "2C" characters flashing?

The meter will not allow normal calibration procedure or sample measurement when the <READ/ON> key is pressed, but returns to a flashing "1C" or "2C" screen. This is usually caused by use of a non-alkaline battery. Replacement with a fresh 9V Alkaline battery should eliminate the problem and the meter should return to normal operation.

Caution

When opening the break-top ampules *DO NOT* remove the plastic sleeve from the top. It is there for your protection. Removing it may result in personal injury.

The Extraction Solvent and Calibration Standards contain methanol and are Flammable and Poisonous.

Wear rubber gloves and safety glasses while performing tests.

Dispose of all used reagents and soil properly.

Read the Material Safety Data Sheet before performing test.

Manufacturer's Warranty

The reagents and supplies used in the PetroFLAG test are warranted to be free of defects in material and workmanship until the expiration date stamped on the box. Manufacturer's sole and exclusive liability under this warranty shall be limited to replacement of any materials that are proved to be defective. Manufacturer shall not be liable for any incidental or consequential damages.

Reliable test results are highly dependent upon the care with which the directions are followed and, consequently, cannot be guaranteed.

Appendix A: PetroFLAG Response Curves

Most fuels, lubes and greases are complex mixtures of various hydrocarbons having a broad range of physical and chemical properties. The PetroFLAG system will detect a majority of the ecologically important hydrocarbon mixtures. The PetroFLAG responses to some typical hydrocarbon contaminants are plotted in figure 1[5].

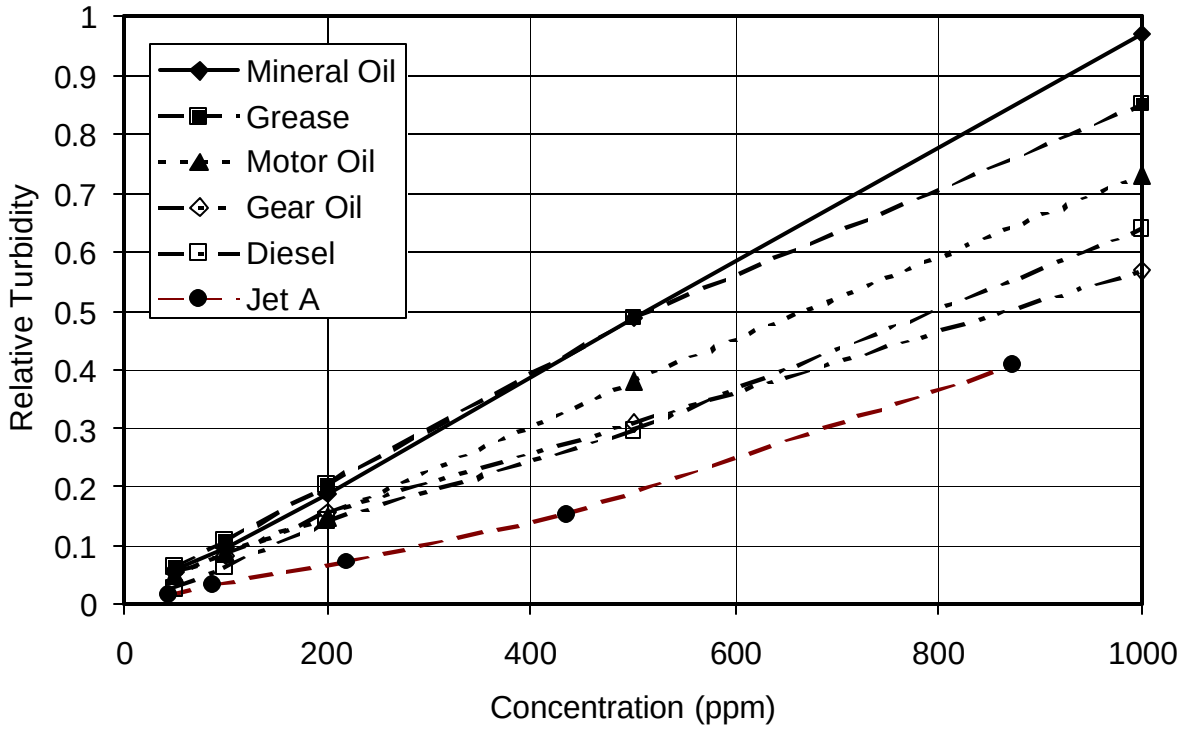


Figure 1: Relative Intensity Data for Common Analytes

[5]The lower limit of quantification, using a 10 gram sample size, is 1000 ppm for gasoline (linear range from 1000 ppm to 5,000 ppm). Brake fluid, phosphate ester based hydraulic oil, or other water soluble compounds will not be detected by the PetroFLAG system.

Appendix B: Comparison with Laboratory Methods

In field trials, the PetroFLAG system was used at sites contaminated with diesel fuel or with oil and grease. In both cases the PetroFLAG results correlated very well with EPA laboratory methods. Both EPA methods 8015B and 418.1 were used to analyze the samples from the diesel site. The resulting correlations were 89% and 92% respectively[6]. The samples from the oil and grease site were analyzed using EPA method 418.1 for soil. The lab results confirmed the PetroFLAG results with no false negatives and only 2 false positives (10%). When comparing the field results and the lab results for the field split samples, the correlation between the PetroFLAG data and EPA method 418.1 for the laboratory split samples was 90%[7].

When comparing the PetroFLAG field results with laboratory results using EPA methods it is important to keep in mind that EPA laboratory methods for TPH are known to have variable extraction efficiency. The extraction efficiency achieved using EPA laboratory methods varies with soil type and moisture content. In addition, the degree to which moisture affects the extraction is dependent on how the individual laboratory is implementing the method. It is, therefore, important to verify that the lab used for comparison is performing the method properly and that the recovery is known.

Another important factor affecting laboratory confirmation analysis is the inhomogeneous nature of soil samples. Whenever possible, homogenize samples using standard methods[8] before taking "splits" to send to the lab for confirmation.

[6]Wright, Keith A., "Evaluation of a New Field Test Kit for Determining Total Petroleum Hydrocarbon Concentrations in Soil at a Site Contaminated by Diesel Fuel", Presented at the AEHS Conference on "Hydrocarbon Contaminated Soils", January 11-13, 1995, New Orleans, LA.

[7]Wright, Keith A. and Jermstad, David B., "Evaluation of a Rapid Field Analytical Test Kit for Assessing Hydrocarbon Soil Contamination", Presented at the "Third International Conference On-Site Analysis", January 22-25, 1995 Houston, TX.

[8]See for example: Pitard, Francis F. , Pierre Gy's Sampling Theory and Sampling Practice, Volumes 1 and 2, CRC Press, Inc., Boca Raton, FL, 1992).

Appendix C: Determining the Response Factor for Hydrocarbons Not Listed in Table 1

The response factors listed in Table 1 are calculated from response curves similar to those in Figure 1 in Appendix A. The response factor is equal to the slope of the response curve multiplied by 10. The slope of the response curve for the analyte is calculated from the response of the specific analyte relative to the response of the calibration standard. The calibration standard has a slope of one and a response factor of 10 on the PetroFLAG meter. Multiplying the slope of a specific analyte's response curve by 10 yields the appropriate response factor for that analyte.

When a suspected contaminant is not listed in Table 1, there are a few methods that may be used to determine the response factor. The method used is determined by the information and facilities available. The most accurate method would be to replicate the data in Figure 1 for the specific analyte, and then calculate the response factor from the slope of the response curve.

Initially, prepare soil standards from a single homogeneous batch of clean soil spiked at a minimum of 5 different concentrations between 100 and 1000 ppm. (For light hydrocarbons, a higher concentration range can be used.) Next, analyze the soil standards in triplicate using a calibrated PetroFLAG meter set to a response factor of 10. Plot the results with the true spiked concentrations on the "X" axis and the meter readings on the "Y" axis. The slope of the regression line (least squares line) through the data points multiplied by 10 is the response factor that should be used for this analyte. To avoid a low bias and false negatives, round the resulting number down to the nearest whole number when selecting the response factor for the meter. This method can be used if either the contaminant is known or a sample of the neat product is available.

NOTE: When the soil used to prepare the spiked soil standards is not actually clean but contains some hydrocarbons, the curve will have a positive intercept. This result should not affect the calculated response factor provided that the highest spiked standard does not read higher than 1000 ppm on the PetroFLAG meter.

When the contaminant is unknown and a sample of the pure product is not available, then an alternative method can be used. The PetroFLAG results, with the meter set to response factor 10, can be compared with laboratory results from split samples analyzed in triplicate. This method requires extreme care in the homogenizing of the bulk material and also, the preparation of the split samples. Improper sample preparation can result in errors of 100 to 200% or greater. To minimize the effects of this sample variation, as many samples as possible should be analyzed (greater than 20) and the concentrations used should be evenly distributed over the range of 100 to 1000 ppm. Once the data has been collected, plot the data as described above using the laboratory reference method results as the known concentration. The slope of the regression line multiplied by 10 is then the response factor.

NOTE: This method is not as precise as the spike method and any bias in the laboratory method will result in an error in determining this response factor. It is important to check both the laboratory method and the lab performing the analysis thoroughly before using it as the reference method. (See Appendix B)

If the facilities are not available to perform these tests contact Dexsil for advice.

Appendix D: Error Conditions

Table 2: Error Conditions

Message	Cause	Solution
Flashing Concentration Reading [Applies to Unknown Measurements]	Over range condition. Sample concentration outside of linear range.	Use smaller sample (1 gram recommended) and rerun.
Flashing "EEEE" [Applies to Unknown Measurements]	Sensor over range condition. Sample concentration too high.	Use smaller sample (1 gram recommended) and rerun.
"Err0" [Applies to Calibration Mode]	Blank and Calibration Standard vials mixed up. Blank or Calibration Standard outside of QC window (bL too high or CSd too low).	Check calibration vials. Rerun and/or make up new ones.
"Err1" [Applies to All Modes]	Readings from the two optical channels do not agree.	Check vial and reread. If error remains, rerun using another vial.
"Err2" [Applies to Unknown Measurements]	Sample is reading lower than the blank, e.g., Calibration Blank soil unusually high background or not zero.	Recalibrate using true Blank soil.
"Err3" [Applies to Calibration Mode]	Blank or Calibration Standard outside of QC window (bL too low or CSd too high).	Recalibrate using fresh calibration solutions.
"Err4" [Applies to Unknown Measurements]	Absolute temperature difference between calibration and reading exceeds 10°C.	Recalibrate at current temperature.
"Err5" [Applies to All Modes]	Ambient temperature outside of operating range. (4°C - 45°C)	Remove meter and reagents to climate controlled environment to recalibrate/rerun.
"LP"	Low Power	Replace battery.

Appendix E: Meter Specifications

A/D Resolution:	0.5 ppm
Display Resolution:	1 ppm
Precision:	Analyte Dependent From MDL to Max Linear Range (MLR) ±10% +5 ppm From Max Linear Range to Max Quantifiable Range (MQR) ± 20%
Measurement Range:	10-10,000 ppm (linear range analyte dependent)
Operating Temperature:	4ºC to 45ºC

Quantification Limit:

Analyte Dependent Response Factor	Approx. MLR (ppm)*	Approx. MQR (ppm)*
15	730	1,460
10	1,000	2,000
5	2,000	4,000
2	5,000	10,000

*Actual limits realized in the field are temperature and device dependent. PetroFLAG meter automatically warns user when each limit has been reached.

Program Storage:	EEPROM
Calibration Storage:	EEPROM
Display:	4 digit ½ inch seven segment LCD
Batteries:	One 9V Alkaline (included) [Use only Alkaline or Lithium type]
Battery Life:	Approx. 4000 measurements or 1 year (using a 550 mAh alkaline battery)
Dimensions:	length=5.75" width=3.5" height=2"
Weight:	9.85 oz (280 g)

APPENDIX F
LABORATORY ANALYTICAL REPORTS

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Laura Campbell
Civil & Environmental Consultants Inc
700 Cherrington Parkway
Moon Township, Pennsylvania 15108

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JOB DESCRIPTION

Seawolf 1 12 Federal 94Y
SDG NUMBER Jal, NM

JOB NUMBER

880-29221-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

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my EOL

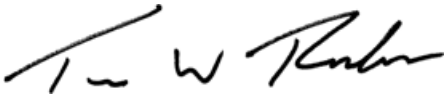
Eurofins Midland

Job Notes

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

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

Authorization



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Authorized for release by
Travis Richter, Project Manager
Travis.Richter@et.eurofinsus.com
(281)794-7216

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Definitions/Glossary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Job ID: 880-29221-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-29221-1

Receipt
The samples were received on 6/7/2023 9:36 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.3°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW94Y-1 (0-1) (880-29221-1), SW94Y-1 (1-2) (880-29221-2), SW94Y-1 (2-3) (880-29221-3), SW94Y-1 (3-4) (880-29221-4), SW94Y-2 (0-1) (880-29221-5), SW94Y-2 (1-2) (880-29221-6), SW94Y-2 (2-3) (880-29221-7), SW94Y-2 (3-4) (880-29221-8), SW94Y-3 (0-1) (880-29221-9), SW94Y-3 (1-2) (880-29221-10), SW94Y-3 (2-3) (880-29221-11), SW94Y-3 (3-4) (880-29221-12), SW94Y-4 (0-1) (880-29221-13), SW94Y-4 (1-2) (880-29221-14), SW94Y-4 (2-3) (880-29221-15), SW94Y-4 (3-4) (880-29221-16), SW94Y-5 (0-1) (880-29221-17), SW94Y-5 (1-2) (880-29221-18), SW94Y-5 (2-3) (880-29221-19), SW94Y-5 (3-4) (880-29221-20), SW94Y-5 (4-5) (880-29221-21), SW94Y-6 (0-1) (880-29221-22), SW94Y-8 (0-1) (880-29221-23), SW94Y-8 (3-4) (880-29221-24), SW94Y-9 (0-1) (880-29221-25), SW94Y-9 (2-3) (880-29221-26), SW94Y-9 (4-5) (880-29221-27), SW94Y-10 (0-1) (880-29221-28), SW94Y-16 (0-1) (880-29221-29), SW94Y-16 (3-4) (880-29221-30), SW94Y-17 (0-1) (880-29221-31), SW94Y-17 (1-2) (880-29221-32), SW94Y-17 (2-3) (880-29221-33), SW94Y-18 (0-1) (880-29221-34) and SW94Y-BG (0-1) (880-29221-35).

GC VOA
Method 8021B: The CCV was biased low for some analytes. However, since the internal standard recoveries were acceptable the data was qualified and reported.(CCV 880-55090/113) and (CCV 880-55090/64)

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW94Y-1 (2-3) (880-29221-3). Evidence of matrix interferences is not obvious.

Method 8021B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 880-55176 and analytical batch 880-55243 recovered outside control limits for the following analytes: Benzene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: CCV was biased low for o-xylene and m,p xylenes. Another CCV was analyzed and acceptable for the compounds within the 12 hour window; therefore, the associated data was qualified and reported.(CCV 880-55243/33)

Method 8021B: Surrogate recovery for the following samples were outside control limits: (MB 880-55176/5-A) and (880-29346-A-1-E MSD). Evidence of matrix interferences is not obvious.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-55345 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 880-55345/33), (CCV 880-55345/51) and (CCV 880-55345/64).

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-55211 and analytical batch 880-55345 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: The continuing calibration verification (CCV) associated with batch 880-55345 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-55345/82).

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW94Y-3 (3-4) (880-29221-12), SW94Y-4 (0-1) (880-29221-13), SW94Y-4 (1-2) (880-29221-14), SW94Y-4 (2-3) (880-29221-15), SW94Y-4 (3-4) (880-29221-16), SW94Y-5 (0-1) (880-29221-17), SW94Y-5 (1-2) (880-29221-18), SW94Y-5 (2-3) (880-29221-19), SW94Y-5 (3-4) (880-29221-20), SW94Y-5 (4-5) (880-29221-21), SW94Y-6 (0-1) (880-29221-22), SW94Y-8 (0-1) (880-29221-23), SW94Y-8 (3-4) (880-29221-24), SW94Y-9 (0-1)

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Case Narrative

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Job ID: 880-29221-1 (Continued)

Laboratory: Eurofins Midland (Continued)

(880-29221-25), SW94Y-9 (2-3) (880-29221-26), SW94Y-9 (4-5) (880-29221-27), SW94Y-10 (0-1) (880-29221-28), SW94Y-16 (0-1) (880-29221-29), SW94Y-16 (3-4) (880-29221-30), (LCSD 880-55211/2-A), (MB 880-55151/5-A), (MB 880-55211/5-A) and (880-29221-A-11-F MSD). Evidence of matrix interferences is not obvious.

Method 8021B: The laboratory control sample (LCS) for preparation batch 880-55214 and analytical batch 880-55553 recovered outside control limits for the following analytes: Benzene and Toluene. These analytes were acceptable in the LCSD, therefore, the data was qualified and reported.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-55214 and analytical batch 880-55553 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.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-55021/2-A), (LCSD 880-55021/3-A) and (MB 880-55021/1-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW94Y-1 (0-1) (880-29221-1), SW94Y-1 (1-2) (880-29221-2), SW94Y-1 (2-3) (880-29221-3), SW94Y-1 (3-4) (880-29221-4), SW94Y-2 (0-1) (880-29221-5), SW94Y-2 (1-2) (880-29221-6), SW94Y-2 (2-3) (880-29221-7), SW94Y-2 (3-4) (880-29221-8), SW94Y-3 (0-1) (880-29221-9), SW94Y-3 (1-2) (880-29221-10), SW94Y-3 (2-3) (880-29221-11), SW94Y-3 (3-4) (880-29221-12), SW94Y-4 (0-1) (880-29221-13), SW94Y-4 (1-2) (880-29221-14), SW94Y-4 (2-3) (880-29221-15), SW94Y-4 (3-4) (880-29221-16), SW94Y-5 (0-1) (880-29221-17), SW94Y-5 (1-2) (880-29221-18), SW94Y-5 (2-3) (880-29221-19), SW94Y-5 (3-4) (880-29221-20), (LCS 880-55017/2-A), (LCSD 880-55017/3-A), (MB 880-55017/1-A), (880-29221-A-1-E MS) and (880-29221-A-1-F MSD). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-54965 and analytical batch 880-55161 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 native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with preparation batch 880-54965 and analytical batch 880-55161 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of Chloride in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

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

General Chemistry

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

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-1 (0-1)

Date Collected: 06/06/23 09:40
Date Received: 06/07/23 09:36
Sample Depth: 0-1

Lab Sample ID: 880-29221-1
Matrix: Solid
Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000445	U	0.00231	0.000445	mg/Kg	☼	06/09/23 15:26	06/11/23 04:51	1
Toluene	<0.000527	U	0.00231	0.000527	mg/Kg	☼	06/09/23 15:26	06/11/23 04:51	1
Ethylbenzene	<0.000653	U	0.00231	0.000653	mg/Kg	☼	06/09/23 15:26	06/11/23 04:51	1
m-Xylene & p-Xylene	<0.00117	U	0.00462	0.00117	mg/Kg	☼	06/09/23 15:26	06/11/23 04:51	1
o-Xylene	<0.000398	U	0.00231	0.000398	mg/Kg	☼	06/09/23 15:26	06/11/23 04:51	1
Xylenes, Total	<0.00117	U	0.00462	0.00117	mg/Kg	☼	06/09/23 15:26	06/11/23 04:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*06/09/23 15:26*	*06/11/23 04:51*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*06/09/23 15:26*	*06/11/23 04:51*	*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	**46.5**	**J**	57.2	17.1	mg/Kg	☼	06/08/23 09:40	06/10/23 11:18	1
Diesel Range Organics (Over C10-C28)	<17.1	U	57.2	17.1	mg/Kg	☼	06/08/23 09:40	06/10/23 11:18	1
Oil Range Organics (Over C28-C36)	<17.1	U	57.2	17.1	mg/Kg	☼	06/08/23 09:40	06/10/23 11:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*157*	*S1+*	*70 - 130*	*06/08/23 09:40*	*06/10/23 11:18*	*1*
o-Terphenyl	*122*		*70 - 130*	*06/08/23 09:40*	*06/10/23 11:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7330**		57.7	4.56	mg/Kg	☼		06/09/23 01:20	10

Client Sample ID: SW94Y-1 (1-2)

Date Collected: 06/06/23 09:45
Date Received: 06/07/23 09:36
Sample Depth: 1-2

Lab Sample ID: 880-29221-2
Matrix: Solid
Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000455	U	0.00236	0.000455	mg/Kg	☼	06/09/23 15:26	06/11/23 05:11	1
Toluene	<0.000539	U	0.00236	0.000539	mg/Kg	☼	06/09/23 15:26	06/11/23 05:11	1
Ethylbenzene	<0.000667	U	0.00236	0.000667	mg/Kg	☼	06/09/23 15:26	06/11/23 05:11	1
m-Xylene & p-Xylene	<0.00119	U	0.00472	0.00119	mg/Kg	☼	06/09/23 15:26	06/11/23 05:11	1
o-Xylene	<0.000406	U	0.00236	0.000406	mg/Kg	☼	06/09/23 15:26	06/11/23 05:11	1
Xylenes, Total	<0.00119	U	0.00472	0.00119	mg/Kg	☼	06/09/23 15:26	06/11/23 05:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*06/09/23 15:26*	*06/11/23 05:11*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/09/23 15:26*	*06/11/23 05:11*	*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	**27.4**	**J**	59.2	17.8	mg/Kg	☼	06/08/23 09:40	06/10/23 12:24	1
Diesel Range Organics (Over C10-C28)	<17.8	U	59.2	17.8	mg/Kg	☼	06/08/23 09:40	06/10/23 12:24	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-1 (1-2)

Date Collected: 06/06/23 09:45
Date Received: 06/07/23 09:36
Sample Depth: 1-2

Lab Sample ID: 880-29221-2
Matrix: Solid
Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<17.8	U	59.2	17.8	mg/Kg	☼	06/08/23 09:40	06/10/23 12:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*152*	*S1+*	*70 - 130*	*06/08/23 09:40*	*06/10/23 12:24*	*1*
o-Terphenyl	*119*		*70 - 130*	*06/08/23 09:40*	*06/10/23 12:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2980**		29.6	2.34	mg/Kg	☼		06/09/23 01:36	5

Client Sample ID: SW94Y-1 (2-3)

Date Collected: 06/06/23 09:47
Date Received: 06/07/23 09:36
Sample Depth: 2-3

Lab Sample ID: 880-29221-3
Matrix: Solid
Percent Solids: 73.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000524	U	0.00272	0.000524	mg/Kg	☼	06/09/23 15:26	06/11/23 05:31	1
Toluene	<0.000621	U	0.00272	0.000621	mg/Kg	☼	06/09/23 15:26	06/11/23 05:31	1
Ethylbenzene	<0.000770	U	0.00272	0.000770	mg/Kg	☼	06/09/23 15:26	06/11/23 05:31	1
m-Xylene & p-Xylene	<0.00138	U	0.00545	0.00138	mg/Kg	☼	06/09/23 15:26	06/11/23 05:31	1
o-Xylene	<0.000469	U	0.00272	0.000469	mg/Kg	☼	06/09/23 15:26	06/11/23 05:31	1
Xylenes, Total	<0.00138	U	0.00545	0.00138	mg/Kg	☼	06/09/23 15:26	06/11/23 05:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*68*	*S1-*	*70 - 130*	*06/09/23 15:26*	*06/11/23 05:31*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/09/23 15:26*	*06/11/23 05:31*	*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	**59.9**	**J**	68.0	20.4	mg/Kg	☼	06/08/23 09:40	06/10/23 12:46	1
Diesel Range Organics (Over C10-C28)	<20.4	U	68.0	20.4	mg/Kg	☼	06/08/23 09:40	06/10/23 12:46	1
OII Range Organics (Over C28-C36)	<20.4	U	68.0	20.4	mg/Kg	☼	06/08/23 09:40	06/10/23 12:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*154*	*S1+*	*70 - 130*	*06/08/23 09:40*	*06/10/23 12:46*	*1*
o-Terphenyl	*121*		*70 - 130*	*06/08/23 09:40*	*06/10/23 12:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3270**		34.2	2.70	mg/Kg	☼		06/09/23 01:41	5

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-1 (3-4)

Date Collected: 06/06/23 09:50
Date Received: 06/07/23 09:36
Sample Depth: 3-4

Lab Sample ID: 880-29221-4
Matrix: Solid
Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000444	U	0.00231	0.000444	mg/Kg	☼	06/09/23 15:26	06/11/23 05:52	1
Toluene	<0.000526	U	0.00231	0.000526	mg/Kg	☼	06/09/23 15:26	06/11/23 05:52	1
Ethylbenzene	<0.000652	U	0.00231	0.000652	mg/Kg	☼	06/09/23 15:26	06/11/23 05:52	1
m-Xylene & p-Xylene	<0.00117	U	0.00461	0.00117	mg/Kg	☼	06/09/23 15:26	06/11/23 05:52	1
o-Xylene	<0.000397	U	0.00231	0.000397	mg/Kg	☼	06/09/23 15:26	06/11/23 05:52	1
Xylenes, Total	<0.00117	U	0.00461	0.00117	mg/Kg	☼	06/09/23 15:26	06/11/23 05:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*06/09/23 15:26*	*06/11/23 05:52*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/09/23 15:26*	*06/11/23 05:52*	*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	**44.0**	**J**	57.3	17.2	mg/Kg	☼	06/08/23 09:40	06/10/23 13:08	1
Diesel Range Organics (Over C10-C28)	<17.2	U	57.3	17.2	mg/Kg	☼	06/08/23 09:40	06/10/23 13:08	1
OII Range Organics (Over C28-C36)	<17.2	U	57.3	17.2	mg/Kg	☼	06/08/23 09:40	06/10/23 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*151*	*S1+*	*70 - 130*	*06/08/23 09:40*	*06/10/23 13:08*	*1*
o-Terphenyl	*118*		*70 - 130*	*06/08/23 09:40*	*06/10/23 13:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6640**		56.9	4.49	mg/Kg	☼		06/09/23 01:46	10

Client Sample ID: SW94Y-2 (0-1)

Date Collected: 06/06/23 09:53
Date Received: 06/07/23 09:36
Sample Depth: 0-1

Lab Sample ID: 880-29221-5
Matrix: Solid
Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000438	U	0.00227	0.000438	mg/Kg	☼	06/09/23 15:26	06/11/23 06:12	1
Toluene	<0.000519	U	0.00227	0.000519	mg/Kg	☼	06/09/23 15:26	06/11/23 06:12	1
Ethylbenzene	<0.000643	U	0.00227	0.000643	mg/Kg	☼	06/09/23 15:26	06/11/23 06:12	1
m-Xylene & p-Xylene	<0.00115	U	0.00455	0.00115	mg/Kg	☼	06/09/23 15:26	06/11/23 06:12	1
o-Xylene	**0.000415**	**J**	0.00227	0.000391	mg/Kg	☼	06/09/23 15:26	06/11/23 06:12	1
Xylenes, Total	<0.00115	U	0.00455	0.00115	mg/Kg	☼	06/09/23 15:26	06/11/23 06:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*06/09/23 15:26*	*06/11/23 06:12*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*06/09/23 15:26*	*06/11/23 06:12*	*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	**41.0**	**J**	56.7	17.0	mg/Kg	☼	06/08/23 09:40	06/10/23 13:30	1
Diesel Range Organics (Over C10-C28)	**142**		56.7	17.0	mg/Kg	☼	06/08/23 09:40	06/10/23 13:30	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-2 (0-1)

Lab Sample ID: 880-29221-5
Matrix: Solid
Percent Solids: 88.1
Date Collected: 06/06/23 09:53
Date Received: 06/07/23 09:36
Sample Depth: 0-1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<17.0	U	56.7	17.0	mg/Kg	☼	06/08/23 09:40	06/10/23 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*149*	*S1+*	*70 - 130*	*06/08/23 09:40*	*06/10/23 13:30*	*1*
o-Terphenyl	*117*		*70 - 130*	*06/08/23 09:40*	*06/10/23 13:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6230**		56.5	4.47	mg/Kg	☼		06/09/23 01:52	10

Client Sample ID: SW94Y-2 (1-2)

Lab Sample ID: 880-29221-6
Matrix: Solid
Percent Solids: 85.7
Date Collected: 06/06/23 09:58
Date Received: 06/07/23 09:36
Sample Depth: 1-2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000448	U	0.00233	0.000448	mg/Kg	☼	06/09/23 15:26	06/11/23 06:33	1
Toluene	<0.000531	U	0.00233	0.000531	mg/Kg	☼	06/09/23 15:26	06/11/23 06:33	1
Ethylbenzene	<0.000658	U	0.00233	0.000658	mg/Kg	☼	06/09/23 15:26	06/11/23 06:33	1
m-Xylene & p-Xylene	<0.00118	U	0.00466	0.00118	mg/Kg	☼	06/09/23 15:26	06/11/23 06:33	1
o-Xylene	<0.000400	U	0.00233	0.000400	mg/Kg	☼	06/09/23 15:26	06/11/23 06:33	1
Xylenes, Total	<0.00118	U	0.00466	0.00118	mg/Kg	☼	06/09/23 15:26	06/11/23 06:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*06/09/23 15:26*	*06/11/23 06:33*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*06/09/23 15:26*	*06/11/23 06:33*	*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	**43.0**	**J**	58.1	17.4	mg/Kg	☼	06/08/23 09:40	06/10/23 13:52	1
Diesel Range Organics (Over C10-C28)	**39.9**	**J**	58.1	17.4	mg/Kg	☼	06/08/23 09:40	06/10/23 13:52	1
OII Range Organics (Over C28-C36)	<17.4	U	58.1	17.4	mg/Kg	☼	06/08/23 09:40	06/10/23 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*153*	*S1+*	*70 - 130*	*06/08/23 09:40*	*06/10/23 13:52*	*1*
o-Terphenyl	*119*		*70 - 130*	*06/08/23 09:40*	*06/10/23 13:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2190**		29.2	2.30	mg/Kg	☼		06/09/23 02:08	5

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-2 (2-3)

Date Collected: 06/06/23 10:01
Date Received: 06/07/23 09:36
Sample Depth: 2-3

Lab Sample ID: 880-29221-7
Matrix: Solid
Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000436	U	0.00226	0.000436	mg/Kg	☼	06/09/23 15:26	06/11/23 06:53	1
Toluene	<0.000516	U	0.00226	0.000516	mg/Kg	☼	06/09/23 15:26	06/11/23 06:53	1
Ethylbenzene	<0.000639	U	0.00226	0.000639	mg/Kg	☼	06/09/23 15:26	06/11/23 06:53	1
m-Xylene & p-Xylene	<0.00114	U	0.00453	0.00114	mg/Kg	☼	06/09/23 15:26	06/11/23 06:53	1
o-Xylene	**0.000716**	**J**	0.00226	0.000389	mg/Kg	☼	06/09/23 15:26	06/11/23 06:53	1
Xylenes, Total	<0.00114	U	0.00453	0.00114	mg/Kg	☼	06/09/23 15:26	06/11/23 06:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*06/09/23 15:26*	*06/11/23 06:53*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*06/09/23 15:26*	*06/11/23 06:53*	*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	**29.9**	**J**	56.8	17.0	mg/Kg	☼	06/08/23 09:40	06/10/23 14:14	1
Diesel Range Organics (Over C10-C28)	**38.9**	**J**	56.8	17.0	mg/Kg	☼	06/08/23 09:40	06/10/23 14:14	1
OII Range Organics (Over C28-C36)	<17.0	U	56.8	17.0	mg/Kg	☼	06/08/23 09:40	06/10/23 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*153*	*S1+*	*70 - 130*	*06/08/23 09:40*	*06/10/23 14:14*	*1*
o-Terphenyl	*119*		*70 - 130*	*06/08/23 09:40*	*06/10/23 14:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2310**		28.3	2.24	mg/Kg	☼		06/09/23 02:13	5

Client Sample ID: SW94Y-2 (3-4)

Date Collected: 06/06/23 10:05
Date Received: 06/07/23 09:36
Sample Depth: 3-4

Lab Sample ID: 880-29221-8
Matrix: Solid
Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000433	U	0.00225	0.000433	mg/Kg	☼	06/09/23 15:26	06/11/23 07:14	1
Toluene	<0.000512	U	0.00225	0.000512	mg/Kg	☼	06/09/23 15:26	06/11/23 07:14	1
Ethylbenzene	**0.000956**	**J**	0.00225	0.000635	mg/Kg	☼	06/09/23 15:26	06/11/23 07:14	1
m-Xylene & p-Xylene	<0.00113	U	0.00449	0.00113	mg/Kg	☼	06/09/23 15:26	06/11/23 07:14	1
o-Xylene	<0.000387	U	0.00225	0.000387	mg/Kg	☼	06/09/23 15:26	06/11/23 07:14	1
Xylenes, Total	<0.00113	U	0.00449	0.00113	mg/Kg	☼	06/09/23 15:26	06/11/23 07:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*06/09/23 15:26*	*06/11/23 07:14*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/09/23 15:26*	*06/11/23 07:14*	*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	**35.6**	**J**	56.3	16.9	mg/Kg	☼	06/08/23 09:40	06/10/23 14:36	1
Diesel Range Organics (Over C10-C28)	<16.9	U	56.3	16.9	mg/Kg	☼	06/08/23 09:40	06/10/23 14:36	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-2 (3-4)

Lab Sample ID: 880-29221-8
Date Collected: 06/06/23 10:05
Matrix: Solid
Date Received: 06/07/23 09:36
Percent Solids: 88.6
Sample Depth: 3-4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<16.9	U	56.3	16.9	mg/Kg	☼	06/08/23 09:40	06/10/23 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*152*	*S1+*	*70 - 130*	*06/08/23 09:40*	*06/10/23 14:36*	*1*
o-Terphenyl	*118*		*70 - 130*	*06/08/23 09:40*	*06/10/23 14:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**991**		5.70	0.450	mg/Kg	☼		06/09/23 02:18	1

Client Sample ID: SW94Y-3 (0-1)

Lab Sample ID: 880-29221-9
Date Collected: 06/06/23 10:10
Matrix: Solid
Date Received: 06/07/23 09:36
Percent Solids: 84.4
Sample Depth: 0-1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000456	U	0.00237	0.000456	mg/Kg	☼	06/09/23 15:26	06/11/23 07:34	1
Toluene	<0.000540	U	0.00237	0.000540	mg/Kg	☼	06/09/23 15:26	06/11/23 07:34	1
Ethylbenzene	**0.000969**	**J**	0.00237	0.000669	mg/Kg	☼	06/09/23 15:26	06/11/23 07:34	1
m-Xylene & p-Xylene	<0.00120	U	0.00474	0.00120	mg/Kg	☼	06/09/23 15:26	06/11/23 07:34	1
o-Xylene	**0.000548**	**J**	0.00237	0.000407	mg/Kg	☼	06/09/23 15:26	06/11/23 07:34	1
Xylenes, Total	<0.00120	U	0.00474	0.00120	mg/Kg	☼	06/09/23 15:26	06/11/23 07:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*06/09/23 15:26*	*06/11/23 07:34*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*06/09/23 15:26*	*06/11/23 07:34*	*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	**43.3**	**J**	59.2	17.7	mg/Kg	☼	06/08/23 09:40	06/10/23 14:57	1
Diesel Range Organics (Over C10-C28)	<17.7	U	59.2	17.7	mg/Kg	☼	06/08/23 09:40	06/10/23 14:57	1
OII Range Organics (Over C28-C36)	<17.7	U	59.2	17.7	mg/Kg	☼	06/08/23 09:40	06/10/23 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*149*	*S1+*	*70 - 130*	*06/08/23 09:40*	*06/10/23 14:57*	*1*
o-Terphenyl	*117*		*70 - 130*	*06/08/23 09:40*	*06/10/23 14:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**191**		5.89	0.465	mg/Kg	☼		06/09/23 02:24	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-3 (1-2)

Date Collected: 06/06/23 10:14
Date Received: 06/07/23 09:36
Sample Depth: 1-2

Lab Sample ID: 880-29221-10
Matrix: Solid
Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000459	U	0.00238	0.000459	mg/Kg	☼	06/09/23 15:26	06/11/23 07:55	1
Toluene	<0.000544	U	0.00238	0.000544	mg/Kg	☼	06/09/23 15:26	06/11/23 07:55	1
Ethylbenzene	**0.000694**	**J**	0.00238	0.000674	mg/Kg	☼	06/09/23 15:26	06/11/23 07:55	1
m-Xylene & p-Xylene	<0.00120	U	0.00477	0.00120	mg/Kg	☼	06/09/23 15:26	06/11/23 07:55	1
o-Xylene	**0.000452**	**J**	0.00238	0.000410	mg/Kg	☼	06/09/23 15:26	06/11/23 07:55	1
Xylenes, Total	<0.00120	U	0.00477	0.00120	mg/Kg	☼	06/09/23 15:26	06/11/23 07:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*06/09/23 15:26*	*06/11/23 07:55*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/09/23 15:26*	*06/11/23 07:55*	*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	**57.9**	**J**	59.9	18.0	mg/Kg	☼	06/08/23 09:40	06/10/23 15:19	1
Diesel Range Organics (Over C10-C28)	<18.0	U	59.9	18.0	mg/Kg	☼	06/08/23 09:40	06/10/23 15:19	1
Oil Range Organics (Over C28-C36)	<18.0	U	59.9	18.0	mg/Kg	☼	06/08/23 09:40	06/10/23 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*150*	*S1+*	*70 - 130*	*06/08/23 09:40*	*06/10/23 15:19*	*1*
o-Terphenyl	*119*		*70 - 130*	*06/08/23 09:40*	*06/10/23 15:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**427**		6.00	0.474	mg/Kg	☼		06/09/23 02:29	1

Client Sample ID: SW94Y-3 (2-3)

Date Collected: 06/06/23 10:18
Date Received: 06/07/23 09:36
Sample Depth: 2-3

Lab Sample ID: 880-29221-11
Matrix: Solid
Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000440	U *+	0.00228	0.000440	mg/Kg	☼	06/10/23 13:37	06/13/23 23:13	1
Toluene	<0.000521	U	0.00228	0.000521	mg/Kg	☼	06/10/23 13:37	06/13/23 23:13	1
Ethylbenzene	<0.000645	U	0.00228	0.000645	mg/Kg	☼	06/10/23 13:37	06/13/23 23:13	1
m-Xylene & p-Xylene	<0.00115	U	0.00457	0.00115	mg/Kg	☼	06/10/23 13:37	06/13/23 23:13	1
o-Xylene	<0.000393	U	0.00228	0.000393	mg/Kg	☼	06/10/23 13:37	06/13/23 23:13	1
Xylenes, Total	<0.00115	U	0.00457	0.00115	mg/Kg	☼	06/10/23 13:37	06/13/23 23:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*06/10/23 13:37*	*06/13/23 23:13*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*06/10/23 13:37*	*06/13/23 23:13*	*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	**28.9**	**J**	57.7	17.3	mg/Kg	☼	06/08/23 09:40	06/10/23 16:03	1
Diesel Range Organics (Over C10-C28)	**19.0**	**J**	57.7	17.3	mg/Kg	☼	06/08/23 09:40	06/10/23 16:03	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-3 (2-3)

Lab Sample ID: 880-29221-11
Date Collected: 06/06/23 10:18
Matrix: Solid
Date Received: 06/07/23 09:36
Percent Solids: 86.7
Sample Depth: 2-3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<17.3	U	57.7	17.3	mg/Kg	☼	06/08/23 09:40	06/10/23 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*289*	*S1+*	*70 - 130*	*06/08/23 09:40*	*06/10/23 16:03*	*1*
o-Terphenyl	*223*	*S1+*	*70 - 130*	*06/08/23 09:40*	*06/10/23 16:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**784**		5.78	0.456	mg/Kg	☼		06/09/23 02:34	1

Client Sample ID: SW94Y-3 (3-4)

Lab Sample ID: 880-29221-12
Date Collected: 06/06/23 10:20
Matrix: Solid
Date Received: 06/07/23 09:36
Percent Solids: 83.9
Sample Depth: 3-4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000462	U *+	0.00240	0.000462	mg/Kg	☼	06/10/23 13:37	06/13/23 23:38	1
Toluene	<0.000547	U	0.00240	0.000547	mg/Kg	☼	06/10/23 13:37	06/13/23 23:38	1
Ethylbenzene	<0.000677	U	0.00240	0.000677	mg/Kg	☼	06/10/23 13:37	06/13/23 23:38	1
m-Xylene & p-Xylene	<0.00121	U	0.00480	0.00121	mg/Kg	☼	06/10/23 13:37	06/13/23 23:38	1
o-Xylene	<0.000412	U	0.00240	0.000412	mg/Kg	☼	06/10/23 13:37	06/13/23 23:38	1
Xylenes, Total	<0.00121	U	0.00480	0.00121	mg/Kg	☼	06/10/23 13:37	06/13/23 23:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*152*	*S1+*	*70 - 130*	*06/10/23 13:37*	*06/13/23 23:38*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*06/10/23 13:37*	*06/13/23 23:38*	*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	**49.5**	**J**	59.4	17.8	mg/Kg	☼	06/08/23 09:40	06/10/23 16:25	1
Diesel Range Organics (Over C10-C28)	<17.8	U	59.4	17.8	mg/Kg	☼	06/08/23 09:40	06/10/23 16:25	1
OII Range Organics (Over C28-C36)	<17.8	U	59.4	17.8	mg/Kg	☼	06/08/23 09:40	06/10/23 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*152*	*S1+*	*70 - 130*	*06/08/23 09:40*	*06/10/23 16:25*	*1*
o-Terphenyl	*121*		*70 - 130*	*06/08/23 09:40*	*06/10/23 16:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3600**		29.6	2.34	mg/Kg	☼		06/09/23 02:50	5

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-4 (0-1)

Date Collected: 06/06/23 10:22
Date Received: 06/07/23 09:36
Sample Depth: 0-1

Lab Sample ID: 880-29221-13
Matrix: Solid
Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000433	U *+	0.00225	0.000433	mg/Kg	☼	06/10/23 13:37	06/14/23 00:04	1
Toluene	<0.000513	U	0.00225	0.000513	mg/Kg	☼	06/10/23 13:37	06/14/23 00:04	1
Ethylbenzene	<0.000635	U	0.00225	0.000635	mg/Kg	☼	06/10/23 13:37	06/14/23 00:04	1
m-Xylene & p-Xylene	<0.00114	U	0.00450	0.00114	mg/Kg	☼	06/10/23 13:37	06/14/23 00:04	1
o-Xylene	<0.000387	U	0.00225	0.000387	mg/Kg	☼	06/10/23 13:37	06/14/23 00:04	1
Xylenes, Total	<0.00114	U	0.00450	0.00114	mg/Kg	☼	06/10/23 13:37	06/14/23 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*141*	*S1+*	*70 - 130*	*06/10/23 13:37*	*06/14/23 00:04*	*1*
1,4-Difluorobenzene (Surr)	*27*	*S1-*	*70 - 130*	*06/10/23 13:37*	*06/14/23 00:04*	*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	**28.6**	**J**	56.2	16.9	mg/Kg	☼	06/08/23 09:40	06/10/23 16:47	1
Diesel Range Organics (Over C10-C28)	<16.9	U	56.2	16.9	mg/Kg	☼	06/08/23 09:40	06/10/23 16:47	1
Oil Range Organics (Over C28-C36)	<16.9	U	56.2	16.9	mg/Kg	☼	06/08/23 09:40	06/10/23 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*147*	*S1+*	*70 - 130*	*06/08/23 09:40*	*06/10/23 16:47*	*1*
o-Terphenyl	*115*		*70 - 130*	*06/08/23 09:40*	*06/10/23 16:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**104**		5.69	0.449	mg/Kg	☼		06/09/23 02:56	1

Client Sample ID: SW94Y-4 (1-2)

Date Collected: 06/06/23 10:25
Date Received: 06/07/23 09:36
Sample Depth: 1-2

Lab Sample ID: 880-29221-14
Matrix: Solid
Percent Solids: 87.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000441	U *+	0.00229	0.000441	mg/Kg	☼	06/10/23 13:37	06/14/23 00:29	1
Toluene	<0.000523	U	0.00229	0.000523	mg/Kg	☼	06/10/23 13:37	06/14/23 00:29	1
Ethylbenzene	<0.000648	U	0.00229	0.000648	mg/Kg	☼	06/10/23 13:37	06/14/23 00:29	1
m-Xylene & p-Xylene	<0.00116	U	0.00458	0.00116	mg/Kg	☼	06/10/23 13:37	06/14/23 00:29	1
o-Xylene	<0.000394	U	0.00229	0.000394	mg/Kg	☼	06/10/23 13:37	06/14/23 00:29	1
Xylenes, Total	<0.00116	U	0.00458	0.00116	mg/Kg	☼	06/10/23 13:37	06/14/23 00:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*419*	*S1+*	*70 - 130*	*06/10/23 13:37*	*06/14/23 00:29*	*1*
1,4-Difluorobenzene (Surr)	*239*	*S1+*	*70 - 130*	*06/10/23 13:37*	*06/14/23 00:29*	*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	**32.5**	**J**	57.2	17.2	mg/Kg	☼	06/08/23 09:40	06/10/23 17:09	1
Diesel Range Organics (Over C10-C28)	<17.2	U	57.2	17.2	mg/Kg	☼	06/08/23 09:40	06/10/23 17:09	1

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Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-4 (1-2)

Date Collected: 06/06/23 10:25
Date Received: 06/07/23 09:36
Sample Depth: 1-2

Lab Sample ID: 880-29221-14
Matrix: Solid
Percent Solids: 87.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<17.2	U	57.2	17.2	mg/Kg	☼	06/08/23 09:40	06/10/23 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*150*	*S1+*	*70 - 130*	*06/08/23 09:40*	*06/10/23 17:09*	*1*
o-Terphenyl	*118*		*70 - 130*	*06/08/23 09:40*	*06/10/23 17:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**116**		5.71	0.451	mg/Kg	☼		06/09/23 03:12	1

Client Sample ID: SW94Y-4 (2-3)

Date Collected: 06/06/23 10:28
Date Received: 06/07/23 09:36
Sample Depth: 2-3

Lab Sample ID: 880-29221-15
Matrix: Solid
Percent Solids: 88.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000435	U *+	0.00226	0.000435	mg/Kg	☼	06/10/23 13:37	06/14/23 00:55	1
Toluene	<0.000515	U	0.00226	0.000515	mg/Kg	☼	06/10/23 13:37	06/14/23 00:55	1
Ethylbenzene	<0.000638	U	0.00226	0.000638	mg/Kg	☼	06/10/23 13:37	06/14/23 00:55	1
m-Xylene & p-Xylene	<0.00114	U	0.00452	0.00114	mg/Kg	☼	06/10/23 13:37	06/14/23 00:55	1
o-Xylene	<0.000389	U	0.00226	0.000389	mg/Kg	☼	06/10/23 13:37	06/14/23 00:55	1
Xylenes, Total	<0.00114	U	0.00452	0.00114	mg/Kg	☼	06/10/23 13:37	06/14/23 00:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*144*	*S1+*	*70 - 130*	*06/10/23 13:37*	*06/14/23 00:55*	*1*
1,4-Difluorobenzene (Surr)	*9*	*S1-*	*70 - 130*	*06/10/23 13:37*	*06/14/23 00:55*	*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	**32.3**	**J**	56.1	16.8	mg/Kg	☼	06/08/23 09:40	06/10/23 17:31	1
Diesel Range Organics (Over C10-C28)	<16.8	U	56.1	16.8	mg/Kg	☼	06/08/23 09:40	06/10/23 17:31	1
OII Range Organics (Over C28-C36)	<16.8	U	56.1	16.8	mg/Kg	☼	06/08/23 09:40	06/10/23 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*150*	*S1+*	*70 - 130*	*06/08/23 09:40*	*06/10/23 17:31*	*1*
o-Terphenyl	*117*		*70 - 130*	*06/08/23 09:40*	*06/10/23 17:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**70.1**		5.68	0.449	mg/Kg	☼		06/09/23 03:17	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-4 (3-4)

Date Collected: 06/06/23 10:31
Date Received: 06/07/23 09:36
Sample Depth: 3-4

Lab Sample ID: 880-29221-16
Matrix: Solid
Percent Solids: 87.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000441	U *+	0.00229	0.000441	mg/Kg	☼	06/10/23 13:37	06/14/23 01:20	1
Toluene	<0.000523	U	0.00229	0.000523	mg/Kg	☼	06/10/23 13:37	06/14/23 01:20	1
Ethylbenzene	<0.000648	U	0.00229	0.000648	mg/Kg	☼	06/10/23 13:37	06/14/23 01:20	1
m-Xylene & p-Xylene	<0.00116	U	0.00459	0.00116	mg/Kg	☼	06/10/23 13:37	06/14/23 01:20	1
o-Xylene	<0.000394	U	0.00229	0.000394	mg/Kg	☼	06/10/23 13:37	06/14/23 01:20	1
Xylenes, Total	<0.00116	U	0.00459	0.00116	mg/Kg	☼	06/10/23 13:37	06/14/23 01:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*141*	*S1+*	*70 - 130*	*06/10/23 13:37*	*06/14/23 01:20*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*06/10/23 13:37*	*06/14/23 01:20*	*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	**42.6**	**J**	57.0	17.1	mg/Kg	☼	06/08/23 09:40	06/10/23 17:53	1
Diesel Range Organics (Over C10-C28)	<17.1	U	57.0	17.1	mg/Kg	☼	06/08/23 09:40	06/10/23 17:53	1
Oil Range Organics (Over C28-C36)	<17.1	U	57.0	17.1	mg/Kg	☼	06/08/23 09:40	06/10/23 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*151*	*S1+*	*70 - 130*	*06/08/23 09:40*	*06/10/23 17:53*	*1*
o-Terphenyl	*119*		*70 - 130*	*06/08/23 09:40*	*06/10/23 17:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**121**		5.78	0.457	mg/Kg	☼		06/09/23 03:23	1

Client Sample ID: SW94Y-5 (0-1)

Date Collected: 06/06/23 10:35
Date Received: 06/07/23 09:36
Sample Depth: 0-1

Lab Sample ID: 880-29221-17
Matrix: Solid
Percent Solids: 89.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000424	U *+	0.00220	0.000424	mg/Kg	☼	06/10/23 13:37	06/14/23 01:46	1
Toluene	<0.000502	U	0.00220	0.000502	mg/Kg	☼	06/10/23 13:37	06/14/23 01:46	1
Ethylbenzene	<0.000622	U	0.00220	0.000622	mg/Kg	☼	06/10/23 13:37	06/14/23 01:46	1
m-Xylene & p-Xylene	<0.00111	U	0.00440	0.00111	mg/Kg	☼	06/10/23 13:37	06/14/23 01:46	1
o-Xylene	<0.000379	U	0.00220	0.000379	mg/Kg	☼	06/10/23 13:37	06/14/23 01:46	1
Xylenes, Total	<0.00111	U	0.00440	0.00111	mg/Kg	☼	06/10/23 13:37	06/14/23 01:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*140*	*S1+*	*70 - 130*	*06/10/23 13:37*	*06/14/23 01:46*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*06/10/23 13:37*	*06/14/23 01:46*	*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	**29.0**	**J**	55.6	16.7	mg/Kg	☼	06/08/23 09:40	06/10/23 18:14	1
Diesel Range Organics (Over C10-C28)	**220**		55.6	16.7	mg/Kg	☼	06/08/23 09:40	06/10/23 18:14	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-5 (0-1)

Lab Sample ID: 880-29221-17
Date Collected: 06/06/23 10:35
Matrix: Solid
Date Received: 06/07/23 09:36
Percent Solids: 89.9
Sample Depth: 0-1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<16.7	U	55.6	16.7	mg/Kg	☼	06/08/23 09:40	06/10/23 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*146*	*S1+*	*70 - 130*	*06/08/23 09:40*	*06/10/23 18:14*	*1*
o-Terphenyl	*115*		*70 - 130*	*06/08/23 09:40*	*06/10/23 18:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**63.4**		5.62	0.444	mg/Kg	☼		06/09/23 03:28	1

Client Sample ID: SW94Y-5 (1-2)

Lab Sample ID: 880-29221-18
Date Collected: 06/06/23 10:40
Matrix: Solid
Date Received: 06/07/23 09:36
Percent Solids: 88.1
Sample Depth: 1-2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000436	U *+	0.00226	0.000436	mg/Kg	☼	06/10/23 13:37	06/14/23 02:11	1
Toluene	<0.000516	U	0.00226	0.000516	mg/Kg	☼	06/10/23 13:37	06/14/23 02:11	1
Ethylbenzene	<0.000640	U	0.00226	0.000640	mg/Kg	☼	06/10/23 13:37	06/14/23 02:11	1
m-Xylene & p-Xylene	<0.00114	U	0.00453	0.00114	mg/Kg	☼	06/10/23 13:37	06/14/23 02:11	1
o-Xylene	<0.000390	U	0.00226	0.000390	mg/Kg	☼	06/10/23 13:37	06/14/23 02:11	1
Xylenes, Total	<0.00114	U	0.00453	0.00114	mg/Kg	☼	06/10/23 13:37	06/14/23 02:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*151*	*S1+*	*70 - 130*	*06/10/23 13:37*	*06/14/23 02:11*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*06/10/23 13:37*	*06/14/23 02:11*	*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	**44.5**	**J**	56.7	17.0	mg/Kg	☼	06/08/23 09:40	06/10/23 18:37	1
Diesel Range Organics (Over C10-C28)	**107**		56.7	17.0	mg/Kg	☼	06/08/23 09:40	06/10/23 18:37	1
OII Range Organics (Over C28-C36)	<17.0	U	56.7	17.0	mg/Kg	☼	06/08/23 09:40	06/10/23 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*148*	*S1+*	*70 - 130*	*06/08/23 09:40*	*06/10/23 18:37*	*1*
o-Terphenyl	*115*		*70 - 130*	*06/08/23 09:40*	*06/10/23 18:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**78.2**		5.65	0.446	mg/Kg	☼		06/09/23 03:33	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-5 (2-3)

Date Collected: 06/06/23 10:45
Date Received: 06/07/23 09:36
Sample Depth: 2-3

Lab Sample ID: 880-29221-19
Matrix: Solid
Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000445	U *+	0.00231	0.000445	mg/Kg	☼	06/10/23 13:37	06/14/23 02:36	1
Toluene	<0.000526	U	0.00231	0.000526	mg/Kg	☼	06/10/23 13:37	06/14/23 02:36	1
Ethylbenzene	<0.000652	U	0.00231	0.000652	mg/Kg	☼	06/10/23 13:37	06/14/23 02:36	1
m-Xylene & p-Xylene	<0.00117	U	0.00462	0.00117	mg/Kg	☼	06/10/23 13:37	06/14/23 02:36	1
o-Xylene	<0.000397	U	0.00231	0.000397	mg/Kg	☼	06/10/23 13:37	06/14/23 02:36	1
Xylenes, Total	<0.00117	U	0.00462	0.00117	mg/Kg	☼	06/10/23 13:37	06/14/23 02:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*150*	*S1+*	*70 - 130*	*06/10/23 13:37*	*06/14/23 02:36*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*06/10/23 13:37*	*06/14/23 02:36*	*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	**44.4**	**J**	57.9	17.4	mg/Kg	☼	06/08/23 09:40	06/10/23 18:59	1
Diesel Range Organics (Over C10-C28)	**42.2**	**J**	57.9	17.4	mg/Kg	☼	06/08/23 09:40	06/10/23 18:59	1
Oil Range Organics (Over C28-C36)	<17.4	U	57.9	17.4	mg/Kg	☼	06/08/23 09:40	06/10/23 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*152*	*S1+*	*70 - 130*	*06/08/23 09:40*	*06/10/23 18:59*	*1*
o-Terphenyl	*120*		*70 - 130*	*06/08/23 09:40*	*06/10/23 18:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**86.4**		5.82	0.460	mg/Kg	☼		06/09/23 03:39	1

Client Sample ID: SW94Y-5 (3-4)

Date Collected: 06/06/23 10:48
Date Received: 06/07/23 09:36
Sample Depth: 3-4

Lab Sample ID: 880-29221-20
Matrix: Solid
Percent Solids: 88.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000436	U *+	0.00226	0.000436	mg/Kg	☼	06/10/23 13:37	06/14/23 03:02	1
Toluene	<0.000516	U	0.00226	0.000516	mg/Kg	☼	06/10/23 13:37	06/14/23 03:02	1
Ethylbenzene	<0.000639	U	0.00226	0.000639	mg/Kg	☼	06/10/23 13:37	06/14/23 03:02	1
m-Xylene & p-Xylene	<0.00114	U	0.00453	0.00114	mg/Kg	☼	06/10/23 13:37	06/14/23 03:02	1
o-Xylene	<0.000389	U	0.00226	0.000389	mg/Kg	☼	06/10/23 13:37	06/14/23 03:02	1
Xylenes, Total	<0.00114	U	0.00453	0.00114	mg/Kg	☼	06/10/23 13:37	06/14/23 03:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*06/10/23 13:37*	*06/14/23 03:02*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*06/10/23 13:37*	*06/14/23 03:02*	*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	**26.9**	**J**	56.2	16.9	mg/Kg	☼	06/08/23 09:40	06/10/23 19:21	1
Diesel Range Organics (Over C10-C28)	**22.2**	**J**	56.2	16.9	mg/Kg	☼	06/08/23 09:40	06/10/23 19:21	1

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Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-5 (3-4)

Date Collected: 06/06/23 10:48
Date Received: 06/07/23 09:36
Sample Depth: 3-4

Lab Sample ID: 880-29221-20
Matrix: Solid
Percent Solids: 88.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<16.9	U	56.2	16.9	mg/Kg	☼	06/08/23 09:40	06/10/23 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*144*	*S1+*	*70 - 130*	*06/08/23 09:40*	*06/10/23 19:21*	*1*
o-Terphenyl	*113*		*70 - 130*	*06/08/23 09:40*	*06/10/23 19:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**63.3**		5.61	0.443	mg/Kg	☼		06/09/23 03:44	1

Client Sample ID: SW94Y-5 (4-5)

Date Collected: 06/06/23 10:50
Date Received: 06/07/23 09:36
Sample Depth: 4-5

Lab Sample ID: 880-29221-21
Matrix: Solid
Percent Solids: 86.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000448	U *+	0.00233	0.000448	mg/Kg	☼	06/10/23 13:37	06/14/23 04:44	1
Toluene	<0.000531	U	0.00233	0.000531	mg/Kg	☼	06/10/23 13:37	06/14/23 04:44	1
Ethylbenzene	<0.000658	U	0.00233	0.000658	mg/Kg	☼	06/10/23 13:37	06/14/23 04:44	1
m-Xylene & p-Xylene	<0.00118	U	0.00466	0.00118	mg/Kg	☼	06/10/23 13:37	06/14/23 04:44	1
o-Xylene	<0.000401	U	0.00233	0.000401	mg/Kg	☼	06/10/23 13:37	06/14/23 04:44	1
Xylenes, Total	<0.00118	U	0.00466	0.00118	mg/Kg	☼	06/10/23 13:37	06/14/23 04:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*	*06/10/23 13:37*	*06/14/23 04:44*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*06/10/23 13:37*	*06/14/23 04:44*	*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	**25.5**	**J**	57.8	17.3	mg/Kg	☼	06/08/23 09:44	06/09/23 10:55	1
Diesel Range Organics (Over C10-C28)	**51.0**	**J**	57.8	17.3	mg/Kg	☼	06/08/23 09:44	06/09/23 10:55	1
OII Range Organics (Over C28-C36)	<17.3	U	57.8	17.3	mg/Kg	☼	06/08/23 09:44	06/09/23 10:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*148*	*S1+*	*70 - 130*	*06/08/23 09:44*	*06/09/23 10:55*	*1*
o-Terphenyl	*116*		*70 - 130*	*06/08/23 09:44*	*06/09/23 10:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**101**		5.72	0.452	mg/Kg	☼		06/09/23 14:55	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-6 (0-1)

Date Collected: 06/06/23 11:05
Date Received: 06/07/23 09:36
Sample Depth: 0-1

Lab Sample ID: 880-29221-22
Matrix: Solid
Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000452	U *+	0.00235	0.000452	mg/Kg	☼	06/10/23 13:37	06/14/23 05:09	1
Toluene	<0.000536	U	0.00235	0.000536	mg/Kg	☼	06/10/23 13:37	06/14/23 05:09	1
Ethylbenzene	<0.000664	U	0.00235	0.000664	mg/Kg	☼	06/10/23 13:37	06/14/23 05:09	1
m-Xylene & p-Xylene	<0.00119	U	0.00470	0.00119	mg/Kg	☼	06/10/23 13:37	06/14/23 05:09	1
o-Xylene	<0.000404	U	0.00235	0.000404	mg/Kg	☼	06/10/23 13:37	06/14/23 05:09	1
Xylenes, Total	<0.00119	U	0.00470	0.00119	mg/Kg	☼	06/10/23 13:37	06/14/23 05:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*156*	*S1+*	*70 - 130*	*06/10/23 13:37*	*06/14/23 05:09*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*06/10/23 13:37*	*06/14/23 05:09*	*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	**43.9**	**J**	59.0	17.7	mg/Kg	☼	06/08/23 09:44	06/09/23 12:01	1
Diesel Range Organics (Over C10-C28)	**18.9**	**J**	59.0	17.7	mg/Kg	☼	06/08/23 09:44	06/09/23 12:01	1
Oil Range Organics (Over C28-C36)	<17.7	U	59.0	17.7	mg/Kg	☼	06/08/23 09:44	06/09/23 12:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*152*	*S1+*	*70 - 130*	*06/08/23 09:44*	*06/09/23 12:01*	*1*
o-Terphenyl	*118*		*70 - 130*	*06/08/23 09:44*	*06/09/23 12:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3980**		29.4	2.32	mg/Kg	☼		06/09/23 15:01	5

Client Sample ID: SW94Y-8 (0-1)

Date Collected: 06/06/23 12:10
Date Received: 06/07/23 09:36
Sample Depth: 0-1

Lab Sample ID: 880-29221-23
Matrix: Solid
Percent Solids: 93.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000413	U *+	0.00215	0.000413	mg/Kg	☼	06/10/23 13:37	06/14/23 05:35	1
Toluene	<0.000489	U	0.00215	0.000489	mg/Kg	☼	06/10/23 13:37	06/14/23 05:35	1
Ethylbenzene	<0.000606	U	0.00215	0.000606	mg/Kg	☼	06/10/23 13:37	06/14/23 05:35	1
m-Xylene & p-Xylene	<0.00108	U	0.00429	0.00108	mg/Kg	☼	06/10/23 13:37	06/14/23 05:35	1
o-Xylene	<0.000369	U	0.00215	0.000369	mg/Kg	☼	06/10/23 13:37	06/14/23 05:35	1
Xylenes, Total	<0.00108	U	0.00429	0.00108	mg/Kg	☼	06/10/23 13:37	06/14/23 05:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*06/10/23 13:37*	*06/14/23 05:35*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*06/10/23 13:37*	*06/14/23 05:35*	*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	**24.0**	**J**	53.6	16.1	mg/Kg	☼	06/08/23 09:44	06/09/23 14:13	1
Diesel Range Organics (Over C10-C28)	**108**		53.6	16.1	mg/Kg	☼	06/08/23 09:44	06/09/23 14:13	1

Eurofins Midland

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-8 (0-1)

Date Collected: 06/06/23 12:10
Date Received: 06/07/23 09:36
Sample Depth: 0-1

Lab Sample ID: 880-29221-23

Matrix: Solid
Percent Solids: 93.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<16.1	U	53.6	16.1	mg/Kg	☼	06/08/23 09:44	06/09/23 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*138*	*S1+*	*70 - 130*	*06/08/23 09:44*	*06/09/23 14:13*	*1*
o-Terphenyl	*0.2*	*S1-*	*70 - 130*	*06/08/23 09:44*	*06/09/23 14:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**520**		5.42	0.428	mg/Kg	☼		06/09/23 15:06	1

Client Sample ID: SW94Y-8 (3-4)

Date Collected: 06/06/23 12:15
Date Received: 06/07/23 09:36
Sample Depth: 3-4

Lab Sample ID: 880-29221-24

Matrix: Solid
Percent Solids: 90.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000425	U *+	0.00221	0.000425	mg/Kg	☼	06/10/23 13:37	06/14/23 06:00	1
Toluene	<0.000503	U	0.00221	0.000503	mg/Kg	☼	06/10/23 13:37	06/14/23 06:00	1
Ethylbenzene	<0.000623	U	0.00221	0.000623	mg/Kg	☼	06/10/23 13:37	06/14/23 06:00	1
m-Xylene & p-Xylene	<0.00111	U	0.00441	0.00111	mg/Kg	☼	06/10/23 13:37	06/14/23 06:00	1
o-Xylene	<0.000380	U	0.00221	0.000380	mg/Kg	☼	06/10/23 13:37	06/14/23 06:00	1
Xylenes, Total	<0.00111	U	0.00441	0.00111	mg/Kg	☼	06/10/23 13:37	06/14/23 06:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*147*	*S1+*	*70 - 130*	*06/10/23 13:37*	*06/14/23 06:00*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*06/10/23 13:37*	*06/14/23 06:00*	*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	**24.3**	**J**	55.1	16.5	mg/Kg	☼	06/08/23 09:44	06/09/23 14:35	1
Diesel Range Organics (Over C10-C28)	**99.3**		55.1	16.5	mg/Kg	☼	06/08/23 09:44	06/09/23 14:35	1
OII Range Organics (Over C28-C36)	<16.5	U	55.1	16.5	mg/Kg	☼	06/08/23 09:44	06/09/23 14:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*135*	*S1+*	*70 - 130*	*06/08/23 09:44*	*06/09/23 14:35*	*1*
o-Terphenyl	*0.1*	*S1-*	*70 - 130*	*06/08/23 09:44*	*06/09/23 14:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**106**		5.48	0.433	mg/Kg	☼		06/09/23 15:11	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-9 (0-1)

Date Collected: 06/06/23 12:20
Date Received: 06/07/23 09:36
Sample Depth: 0-1

Lab Sample ID: 880-29221-25
Matrix: Solid
Percent Solids: 90.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000425	U *+	0.00221	0.000425	mg/Kg	☼	06/10/23 13:37	06/14/23 06:25	1
Toluene	<0.000504	U	0.00221	0.000504	mg/Kg	☼	06/10/23 13:37	06/14/23 06:25	1
Ethylbenzene	<0.000624	U	0.00221	0.000624	mg/Kg	☼	06/10/23 13:37	06/14/23 06:25	1
m-Xylene & p-Xylene	<0.00112	U	0.00442	0.00112	mg/Kg	☼	06/10/23 13:37	06/14/23 06:25	1
o-Xylene	<0.000380	U	0.00221	0.000380	mg/Kg	☼	06/10/23 13:37	06/14/23 06:25	1
Xylenes, Total	<0.00112	U	0.00442	0.00112	mg/Kg	☼	06/10/23 13:37	06/14/23 06:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*151*	*S1+*	*70 - 130*	*06/10/23 13:37*	*06/14/23 06:25*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*06/10/23 13:37*	*06/14/23 06:25*	*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	42.3	J	55.0	16.5	mg/Kg	☼	06/08/23 09:44	06/09/23 14:57	1
Diesel Range Organics (Over C10-C28)	185		55.0	16.5	mg/Kg	☼	06/08/23 09:44	06/09/23 14:57	1
Oil Range Organics (Over C28-C36)	<16.5	U	55.0	16.5	mg/Kg	☼	06/08/23 09:44	06/09/23 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*144*	*S1+*	*70 - 130*	*06/08/23 09:44*	*06/09/23 14:57*	*1*
o-Terphenyl	*0.2*	*S1-*	*70 - 130*	*06/08/23 09:44*	*06/09/23 14:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	587		5.50	0.435	mg/Kg	☼		06/09/23 15:17	1

Client Sample ID: SW94Y-9 (2-3)

Date Collected: 06/06/23 12:25
Date Received: 06/07/23 09:36
Sample Depth: 2-3

Lab Sample ID: 880-29221-26
Matrix: Solid
Percent Solids: 90.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000423	U *+	0.00220	0.000423	mg/Kg	☼	06/10/23 13:37	06/14/23 06:51	1
Toluene	<0.000501	U	0.00220	0.000501	mg/Kg	☼	06/10/23 13:37	06/14/23 06:51	1
Ethylbenzene	<0.000620	U	0.00220	0.000620	mg/Kg	☼	06/10/23 13:37	06/14/23 06:51	1
m-Xylene & p-Xylene	<0.00111	U	0.00439	0.00111	mg/Kg	☼	06/10/23 13:37	06/14/23 06:51	1
o-Xylene	<0.000378	U	0.00220	0.000378	mg/Kg	☼	06/10/23 13:37	06/14/23 06:51	1
Xylenes, Total	<0.00111	U	0.00439	0.00111	mg/Kg	☼	06/10/23 13:37	06/14/23 06:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*140*	*S1+*	*70 - 130*	*06/10/23 13:37*	*06/14/23 06:51*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*06/10/23 13:37*	*06/14/23 06:51*	*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	27.7	J	55.2	16.6	mg/Kg	☼	06/08/23 09:44	06/09/23 15:41	1
Diesel Range Organics (Over C10-C28)	99.9		55.2	16.6	mg/Kg	☼	06/08/23 09:44	06/09/23 15:41	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-9 (2-3)

Date Collected: 06/06/23 12:25
Date Received: 06/07/23 09:36
Sample Depth: 2-3

Lab Sample ID: 880-29221-26
Matrix: Solid
Percent Solids: 90.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<16.6	U	55.2	16.6	mg/Kg	☼	06/08/23 09:44	06/09/23 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*134*	*S1+*	*70 - 130*	*06/08/23 09:44*	*06/09/23 15:41*	*1*
o-Terphenyl	*0.1*	*S1-*	*70 - 130*	*06/08/23 09:44*	*06/09/23 15:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1520**		5.55	0.438	mg/Kg	☼		06/09/23 15:22	1

Client Sample ID: SW94Y-9 (4-5)

Date Collected: 06/06/23 12:30
Date Received: 06/07/23 09:36
Sample Depth: 4-5

Lab Sample ID: 880-29221-27
Matrix: Solid
Percent Solids: 92.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000413	U *+	0.00215	0.000413	mg/Kg	☼	06/10/23 13:37	06/14/23 07:18	1
Toluene	<0.000490	U	0.00215	0.000490	mg/Kg	☼	06/10/23 13:37	06/14/23 07:18	1
Ethylbenzene	<0.000607	U	0.00215	0.000607	mg/Kg	☼	06/10/23 13:37	06/14/23 07:18	1
m-Xylene & p-Xylene	<0.00108	U	0.00429	0.00108	mg/Kg	☼	06/10/23 13:37	06/14/23 07:18	1
o-Xylene	<0.000369	U	0.00215	0.000369	mg/Kg	☼	06/10/23 13:37	06/14/23 07:18	1
Xylenes, Total	<0.00108	U	0.00429	0.00108	mg/Kg	☼	06/10/23 13:37	06/14/23 07:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*154*	*S1+*	*70 - 130*	*06/10/23 13:37*	*06/14/23 07:18*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*06/10/23 13:37*	*06/14/23 07:18*	*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	**27.8**	**J**	53.9	16.2	mg/Kg	☼	06/08/23 09:44	06/09/23 16:04	1
Diesel Range Organics (Over C10-C28)	**94.8**		53.9	16.2	mg/Kg	☼	06/08/23 09:44	06/09/23 16:04	1
OII Range Organics (Over C28-C36)	<16.2	U	53.9	16.2	mg/Kg	☼	06/08/23 09:44	06/09/23 16:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*135*	*S1+*	*70 - 130*	*06/08/23 09:44*	*06/09/23 16:04*	*1*
o-Terphenyl	*0.1*	*S1-*	*70 - 130*	*06/08/23 09:44*	*06/09/23 16:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**478**		5.41	0.427	mg/Kg	☼		06/09/23 15:38	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-10 (0-1)

Date Collected: 06/06/23 12:35
Date Received: 06/07/23 09:36
Sample Depth: 0-1

Lab Sample ID: 880-29221-28
Matrix: Solid
Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000425	U *+	0.00221	0.000425	mg/Kg	☼	06/10/23 13:37	06/14/23 07:45	1
Toluene	<0.000504	U	0.00221	0.000504	mg/Kg	☼	06/10/23 13:37	06/14/23 07:45	1
Ethylbenzene	<0.000624	U	0.00221	0.000624	mg/Kg	☼	06/10/23 13:37	06/14/23 07:45	1
m-Xylene & p-Xylene	<0.00112	U	0.00442	0.00112	mg/Kg	☼	06/10/23 13:37	06/14/23 07:45	1
o-Xylene	<0.000380	U	0.00221	0.000380	mg/Kg	☼	06/10/23 13:37	06/14/23 07:45	1
Xylenes, Total	<0.00112	U	0.00442	0.00112	mg/Kg	☼	06/10/23 13:37	06/14/23 07:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*148*	*S1+*	*70 - 130*	*06/10/23 13:37*	*06/14/23 07:45*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*06/10/23 13:37*	*06/14/23 07:45*	*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	**23.2**	**J**	55.5	16.6	mg/Kg	☼	06/08/23 09:44	06/09/23 16:26	1
Diesel Range Organics (Over C10-C28)	**753**		55.5	16.6	mg/Kg	☼	06/08/23 09:44	06/09/23 16:26	1
Oil Range Organics (Over C28-C36)	<16.6	U	55.5	16.6	mg/Kg	☼	06/08/23 09:44	06/09/23 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*134*	*S1+*	*70 - 130*	*06/08/23 09:44*	*06/09/23 16:26*	*1*
o-Terphenyl	*0.1*	*S1-*	*70 - 130*	*06/08/23 09:44*	*06/09/23 16:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**152**		5.49	0.434	mg/Kg	☼		06/09/23 15:44	1

Client Sample ID: SW94Y-16 (0-1)

Date Collected: 06/06/23 14:00
Date Received: 06/07/23 09:36
Sample Depth: 0-1

Lab Sample ID: 880-29221-29
Matrix: Solid
Percent Solids: 93.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000410	U *+	0.00213	0.000410	mg/Kg	☼	06/10/23 13:37	06/14/23 08:11	1
Toluene	<0.000485	U	0.00213	0.000485	mg/Kg	☼	06/10/23 13:37	06/14/23 08:11	1
Ethylbenzene	<0.000601	U	0.00213	0.000601	mg/Kg	☼	06/10/23 13:37	06/14/23 08:11	1
m-Xylene & p-Xylene	<0.00107	U	0.00426	0.00107	mg/Kg	☼	06/10/23 13:37	06/14/23 08:11	1
o-Xylene	<0.000366	U	0.00213	0.000366	mg/Kg	☼	06/10/23 13:37	06/14/23 08:11	1
Xylenes, Total	<0.00107	U	0.00426	0.00107	mg/Kg	☼	06/10/23 13:37	06/14/23 08:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*155*	*S1+*	*70 - 130*	*06/10/23 13:37*	*06/14/23 08:11*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*06/10/23 13:37*	*06/14/23 08:11*	*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	<16.0	U	53.4	16.0	mg/Kg	☼	06/08/23 09:44	06/09/23 16:48	1
Diesel Range Organics (Over C10-C28)	**139**		53.4	16.0	mg/Kg	☼	06/08/23 09:44	06/09/23 16:48	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-16 (0-1)

Date Collected: 06/06/23 14:00
Date Received: 06/07/23 09:36
Sample Depth: 0-1

Lab Sample ID: 880-29221-29
Matrix: Solid
Percent Solids: 93.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<16.0	U	53.4	16.0	mg/Kg	☼	06/08/23 09:44	06/09/23 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*129*		*70 - 130*	*06/08/23 09:44*	*06/09/23 16:48*	*1*
o-Terphenyl	*0.4*	*S1-*	*70 - 130*	*06/08/23 09:44*	*06/09/23 16:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**324**		5.33	0.421	mg/Kg	☼		06/09/23 16:01	1

Client Sample ID: SW94Y-16 (3-4)

Date Collected: 06/06/23 14:05
Date Received: 06/07/23 09:36
Sample Depth: 3-4

Lab Sample ID: 880-29221-30
Matrix: Solid
Percent Solids: 91.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000420	U *+	0.00218	0.000420	mg/Kg	☼	06/10/23 13:37	06/14/23 08:57	1
Toluene	<0.000497	U	0.00218	0.000497	mg/Kg	☼	06/10/23 13:37	06/14/23 08:57	1
Ethylbenzene	<0.000616	U	0.00218	0.000616	mg/Kg	☼	06/10/23 13:37	06/14/23 08:57	1
m-Xylene & p-Xylene	<0.00110	U	0.00436	0.00110	mg/Kg	☼	06/10/23 13:37	06/14/23 08:57	1
o-Xylene	<0.000375	U	0.00218	0.000375	mg/Kg	☼	06/10/23 13:37	06/14/23 08:57	1
Xylenes, Total	<0.00110	U	0.00436	0.00110	mg/Kg	☼	06/10/23 13:37	06/14/23 08:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*154*	*S1+*	*70 - 130*	*06/10/23 13:37*	*06/14/23 08:57*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*06/10/23 13:37*	*06/14/23 08:57*	*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	<16.3	U	54.4	16.3	mg/Kg	☼	06/08/23 09:44	06/09/23 17:10	1
Diesel Range Organics (Over C10-C28)	**18.1**	**J**	54.4	16.3	mg/Kg	☼	06/08/23 09:44	06/09/23 17:10	1
OII Range Organics (Over C28-C36)	<16.3	U	54.4	16.3	mg/Kg	☼	06/08/23 09:44	06/09/23 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*127*		*70 - 130*	*06/08/23 09:44*	*06/09/23 17:10*	*1*
o-Terphenyl	*99*		*70 - 130*	*06/08/23 09:44*	*06/09/23 17:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**569**		5.41	0.427	mg/Kg	☼		06/09/23 16:06	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-17 (0-1)

Date Collected: 06/06/23 14:10
Date Received: 06/07/23 09:36
Sample Depth: 0-1

Lab Sample ID: 880-29221-31
Matrix: Solid
Percent Solids: 91.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000424	U *+ F1	0.00220	0.000424	mg/Kg	☼	06/10/23 15:01	06/16/23 01:33	1
Toluene	<0.000502	U *+	0.00220	0.000502	mg/Kg	☼	06/10/23 15:01	06/16/23 01:33	1
Ethylbenzene	<0.000622	U	0.00220	0.000622	mg/Kg	☼	06/10/23 15:01	06/16/23 01:33	1
m-Xylene & p-Xylene	<0.00111	U	0.00441	0.00111	mg/Kg	☼	06/10/23 15:01	06/16/23 01:33	1
o-Xylene	<0.000379	U	0.00220	0.000379	mg/Kg	☼	06/10/23 15:01	06/16/23 01:33	1
Xylenes, Total	<0.00111	U	0.00441	0.00111	mg/Kg	☼	06/10/23 15:01	06/16/23 01:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*06/10/23 15:01*	*06/16/23 01:33*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*06/10/23 15:01*	*06/16/23 01:33*	*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	**21.9**	**J**	54.4	16.3	mg/Kg	☼	06/08/23 09:44	06/09/23 17:33	1
Diesel Range Organics (Over C10-C28)	<16.3	U	54.4	16.3	mg/Kg	☼	06/08/23 09:44	06/09/23 17:33	1
Oil Range Organics (Over C28-C36)	<16.3	U	54.4	16.3	mg/Kg	☼	06/08/23 09:44	06/09/23 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*134*	*S1+*	*70 - 130*	*06/08/23 09:44*	*06/09/23 17:33*	*1*
o-Terphenyl	*105*		*70 - 130*	*06/08/23 09:44*	*06/09/23 17:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**84.9**		5.42	0.428	mg/Kg	☼		06/09/23 16:11	1

Client Sample ID: SW94Y-17 (1-2)

Date Collected: 06/06/23 14:12
Date Received: 06/07/23 09:36
Sample Depth: 1-2

Lab Sample ID: 880-29221-32
Matrix: Solid
Percent Solids: 95.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000400	U *+	0.00208	0.000400	mg/Kg	☼	06/10/23 15:01	06/16/23 01:54	1
Toluene	<0.000474	U *+	0.00208	0.000474	mg/Kg	☼	06/10/23 15:01	06/16/23 01:54	1
Ethylbenzene	<0.000588	U	0.00208	0.000588	mg/Kg	☼	06/10/23 15:01	06/16/23 01:54	1
m-Xylene & p-Xylene	<0.00105	U	0.00416	0.00105	mg/Kg	☼	06/10/23 15:01	06/16/23 01:54	1
o-Xylene	<0.000358	U	0.00208	0.000358	mg/Kg	☼	06/10/23 15:01	06/16/23 01:54	1
Xylenes, Total	<0.00105	U	0.00416	0.00105	mg/Kg	☼	06/10/23 15:01	06/16/23 01:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*06/10/23 15:01*	*06/16/23 01:54*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/10/23 15:01*	*06/16/23 01:54*	*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	**20.4**	**J**	52.3	15.7	mg/Kg	☼	06/08/23 09:44	06/09/23 17:55	1
Diesel Range Organics (Over C10-C28)	**93.3**		52.3	15.7	mg/Kg	☼	06/08/23 09:44	06/09/23 17:55	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-17 (1-2)

Lab Sample ID: 880-29221-32
Date Collected: 06/06/23 14:12
Matrix: Solid
Date Received: 06/07/23 09:36
Percent Solids: 95.2
Sample Depth: 1-2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<15.7	U	52.3	15.7	mg/Kg	☼	06/08/23 09:44	06/09/23 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*134*	*S1+*	*70 - 130*	*06/08/23 09:44*	*06/09/23 17:55*	*1*
o-Terphenyl	*0.2*	*S1-*	*70 - 130*	*06/08/23 09:44*	*06/09/23 17:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**53.9**		5.29	0.418	mg/Kg	☼		06/09/23 16:17	1

Client Sample ID: SW94Y-17 (2-3)

Lab Sample ID: 880-29221-33
Date Collected: 06/06/23 14:16
Matrix: Solid
Date Received: 06/07/23 09:36
Percent Solids: 89.5
Sample Depth: 2-3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000429	U *+	0.00223	0.000429	mg/Kg	☼	06/10/23 15:01	06/16/23 02:14	1
Toluene	<0.000509	U *+	0.00223	0.000509	mg/Kg	☼	06/10/23 15:01	06/16/23 02:14	1
Ethylbenzene	<0.000630	U	0.00223	0.000630	mg/Kg	☼	06/10/23 15:01	06/16/23 02:14	1
m-Xylene & p-Xylene	<0.00113	U	0.00446	0.00113	mg/Kg	☼	06/10/23 15:01	06/16/23 02:14	1
o-Xylene	<0.000384	U	0.00223	0.000384	mg/Kg	☼	06/10/23 15:01	06/16/23 02:14	1
Xylenes, Total	<0.00113	U	0.00446	0.00113	mg/Kg	☼	06/10/23 15:01	06/16/23 02:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*06/10/23 15:01*	*06/16/23 02:14*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/10/23 15:01*	*06/16/23 02:14*	*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	<16.8	U	55.9	16.8	mg/Kg	☼	06/08/23 09:44	06/09/23 18:18	1
Diesel Range Organics (Over C10-C28)	**107**		55.9	16.8	mg/Kg	☼	06/08/23 09:44	06/09/23 18:18	1
OII Range Organics (Over C28-C36)	<16.8	U	55.9	16.8	mg/Kg	☼	06/08/23 09:44	06/09/23 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*145*	*S1+*	*70 - 130*	*06/08/23 09:44*	*06/09/23 18:18*	*1*
o-Terphenyl	*0.1*	*S1-*	*70 - 130*	*06/08/23 09:44*	*06/09/23 18:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**349**		5.60	0.442	mg/Kg	☼		06/09/23 16:22	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-18 (0-1)

Date Collected: 06/06/23 14:30
Date Received: 06/07/23 09:36
Sample Depth: 0-1

Lab Sample ID: 880-29221-34
Matrix: Solid
Percent Solids: 95.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000402	U *+	0.00209	0.000402	mg/Kg	☼	06/10/23 15:01	06/16/23 02:35	1
Toluene	<0.000477	U *+	0.00209	0.000477	mg/Kg	☼	06/10/23 15:01	06/16/23 02:35	1
Ethylbenzene	<0.000591	U	0.00209	0.000591	mg/Kg	☼	06/10/23 15:01	06/16/23 02:35	1
m-Xylene & p-Xylene	<0.00106	U	0.00418	0.00106	mg/Kg	☼	06/10/23 15:01	06/16/23 02:35	1
o-Xylene	<0.000360	U	0.00209	0.000360	mg/Kg	☼	06/10/23 15:01	06/16/23 02:35	1
Xylenes, Total	<0.00106	U	0.00418	0.00106	mg/Kg	☼	06/10/23 15:01	06/16/23 02:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*06/10/23 15:01*	*06/16/23 02:35*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*06/10/23 15:01*	*06/16/23 02:35*	*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	**21.4**	**J**	52.0	15.6	mg/Kg	☼	06/08/23 09:44	06/09/23 18:40	1
Diesel Range Organics (Over C10-C28)	**20.6**	**J**	52.0	15.6	mg/Kg	☼	06/08/23 09:44	06/09/23 18:40	1
Oil Range Organics (Over C28-C36)	<15.6	U	52.0	15.6	mg/Kg	☼	06/08/23 09:44	06/09/23 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*141*	*S1+*	*70 - 130*	*06/08/23 09:44*	*06/09/23 18:40*	*1*
o-Terphenyl	*110*		*70 - 130*	*06/08/23 09:44*	*06/09/23 18:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**44.8**		5.20	0.410	mg/Kg	☼		06/09/23 16:28	1

Client Sample ID: SW94Y-BG (0-1)

Date Collected: 06/06/23 14:40
Date Received: 06/07/23 09:36
Sample Depth: 0-1

Lab Sample ID: 880-29221-35
Matrix: Solid
Percent Solids: 97.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000394	U *+	0.00204	0.000394	mg/Kg	☼	06/09/23 16:35	06/12/23 18:16	1
Toluene	**0.00132**	**J**	0.00204	0.000466	mg/Kg	☼	06/09/23 16:35	06/12/23 18:16	1
Ethylbenzene	<0.000578	U	0.00204	0.000578	mg/Kg	☼	06/09/23 16:35	06/12/23 18:16	1
m-Xylene & p-Xylene	<0.00103	U	0.00409	0.00103	mg/Kg	☼	06/09/23 16:35	06/12/23 18:16	1
o-Xylene	<0.000352	U	0.00204	0.000352	mg/Kg	☼	06/09/23 16:35	06/12/23 18:16	1
Xylenes, Total	<0.00103	U	0.00409	0.00103	mg/Kg	☼	06/09/23 16:35	06/12/23 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*06/09/23 16:35*	*06/12/23 18:16*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*06/09/23 16:35*	*06/12/23 18:16*	*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	**20.3**	**J**	51.4	15.4	mg/Kg	☼	06/08/23 09:44	06/09/23 19:02	1
Diesel Range Organics (Over C10-C28)	<15.4	U	51.4	15.4	mg/Kg	☼	06/08/23 09:44	06/09/23 19:02	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-BG (0-1)
Date Collected: 06/06/23 14:40
Date Received: 06/07/23 09:36
Sample Depth: 0-1

Lab Sample ID: 880-29221-35
Matrix: Solid
Percent Solids: 97.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<15.4	U	51.4	15.4	mg/Kg	☼	06/08/23 09:44	06/09/23 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*133*	*S1+*	*70 - 130*	*06/08/23 09:44*	*06/09/23 19:02*	*1*
o-Terphenyl	*101*		*70 - 130*	*06/08/23 09:44*	*06/09/23 19:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**46.0**		5.14	0.406	mg/Kg	☼		06/09/23 16:33	1

Surrogate Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-29221-1	SW94Y-1 (0-1)	80	93
880-29221-2	SW94Y-1 (1-2)	86	94
880-29221-3	SW94Y-1 (2-3)	68 S1-	97
880-29221-4	SW94Y-1 (3-4)	80	95
880-29221-5	SW94Y-2 (0-1)	87	90
880-29221-6	SW94Y-2 (1-2)	89	93
880-29221-7	SW94Y-2 (2-3)	100	92
880-29221-8	SW94Y-2 (3-4)	104	99
880-29221-9	SW94Y-3 (0-1)	105	92
880-29221-10	SW94Y-3 (1-2)	95	97
880-29221-11	SW94Y-3 (2-3)	130	75
880-29221-11 MS	SW94Y-3 (2-3)	127	96
880-29221-11 MSD	SW94Y-3 (2-3)	133 S1+	88
880-29221-12	SW94Y-3 (3-4)	152 S1+	78
880-29221-13	SW94Y-4 (0-1)	141 S1+	27 S1-
880-29221-14	SW94Y-4 (1-2)	419 S1+	239 S1+
880-29221-15	SW94Y-4 (2-3)	144 S1+	9 S1-
880-29221-16	SW94Y-4 (3-4)	141 S1+	81
880-29221-17	SW94Y-5 (0-1)	140 S1+	85
880-29221-18	SW94Y-5 (1-2)	151 S1+	82
880-29221-19	SW94Y-5 (2-3)	150 S1+	80
880-29221-20	SW94Y-5 (3-4)	139 S1+	80
880-29221-21	SW94Y-5 (4-5)	134 S1+	77
880-29221-22	SW94Y-6 (0-1)	156 S1+	81
880-29221-23	SW94Y-8 (0-1)	139 S1+	76
880-29221-24	SW94Y-8 (3-4)	147 S1+	85
880-29221-25	SW94Y-9 (0-1)	151 S1+	79
880-29221-26	SW94Y-9 (2-3)	140 S1+	77
880-29221-27	SW94Y-9 (4-5)	154 S1+	84
880-29221-28	SW94Y-10 (0-1)	148 S1+	77
880-29221-29	SW94Y-16 (0-1)	155 S1+	86
880-29221-30	SW94Y-16 (3-4)	154 S1+	74
880-29221-31	SW94Y-17 (0-1)	86	93
880-29221-31 MS	SW94Y-17 (0-1)	109	96
880-29221-31 MSD	SW94Y-17 (0-1)	106	101
880-29221-32	SW94Y-17 (1-2)	87	96
880-29221-33	SW94Y-17 (2-3)	85	95
880-29221-34	SW94Y-18 (0-1)	89	93
880-29221-35	SW94Y-BG (0-1)	90	77
LCS 880-55169/1-A	Lab Control Sample	93	99
LCS 880-55176/1-A	Lab Control Sample	87	114
LCS 880-55211/1-A	Lab Control Sample	129	100
LCS 880-55214/1-A	Lab Control Sample	110	95
LCSD 880-55169/2-A	Lab Control Sample Dup	109	100
LCSD 880-55176/2-A	Lab Control Sample Dup	107	104
LCSD 880-55211/2-A	Lab Control Sample Dup	132 S1+	109
LCSD 880-55214/2-A	Lab Control Sample Dup	113	110
MB 880-55142/5-A	Method Blank	89	110
MB 880-55146/5-A	Method Blank	94	111

Surrogate Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

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

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) BFB1 (70-130)	DFBZ1 (70-130)
MB 880-55151/5-A	Method Blank	69 S1-	74
MB 880-55169/5-A	Method Blank	96	107
MB 880-55176/5-A	Method Blank	69 S1-	98
MB 880-55211/5-A	Method Blank	73	0.06 S1-
MB 880-55214/5-A	Method Blank	92	107

Surrogate Legend

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

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

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) 1CO1 (70-130)	OTPH1 (70-130)
880-29221-1	SW94Y-1 (0-1)	157 S1+	122
880-29221-1 MS	SW94Y-1 (0-1)	168 S1+	122
880-29221-1 MSD	SW94Y-1 (0-1)	165 S1+	120
880-29221-2	SW94Y-1 (1-2)	152 S1+	119
880-29221-3	SW94Y-1 (2-3)	154 S1+	121
880-29221-4	SW94Y-1 (3-4)	151 S1+	118
880-29221-5	SW94Y-2 (0-1)	149 S1+	117
880-29221-6	SW94Y-2 (1-2)	153 S1+	119
880-29221-7	SW94Y-2 (2-3)	153 S1+	119
880-29221-8	SW94Y-2 (3-4)	152 S1+	118
880-29221-9	SW94Y-3 (0-1)	149 S1+	117
880-29221-10	SW94Y-3 (1-2)	150 S1+	119
880-29221-11	SW94Y-3 (2-3)	289 S1+	223 S1+
880-29221-12	SW94Y-3 (3-4)	152 S1+	121
880-29221-13	SW94Y-4 (0-1)	147 S1+	115
880-29221-14	SW94Y-4 (1-2)	150 S1+	118
880-29221-15	SW94Y-4 (2-3)	150 S1+	117
880-29221-16	SW94Y-4 (3-4)	151 S1+	119
880-29221-17	SW94Y-5 (0-1)	146 S1+	115
880-29221-18	SW94Y-5 (1-2)	148 S1+	115
880-29221-19	SW94Y-5 (2-3)	152 S1+	120
880-29221-20	SW94Y-5 (3-4)	144 S1+	113
880-29221-21	SW94Y-5 (4-5)	148 S1+	116
880-29221-21 MS	SW94Y-5 (4-5)	164 S1+	119
880-29221-21 MSD	SW94Y-5 (4-5)	157 S1+	114
880-29221-22	SW94Y-6 (0-1)	152 S1+	118
880-29221-23	SW94Y-8 (0-1)	138 S1+	0.2 S1-
880-29221-24	SW94Y-8 (3-4)	135 S1+	0.1 S1-
880-29221-25	SW94Y-9 (0-1)	144 S1+	0.2 S1-
880-29221-26	SW94Y-9 (2-3)	134 S1+	0.1 S1-
880-29221-27	SW94Y-9 (4-5)	135 S1+	0.1 S1-
880-29221-28	SW94Y-10 (0-1)	134 S1+	0.1 S1-
880-29221-29	SW94Y-16 (0-1)	129	0.4 S1-
880-29221-30	SW94Y-16 (3-4)	127	99
880-29221-31	SW94Y-17 (0-1)	134 S1+	105

Surrogate Summary

Client: Civil & Environmental Consultants Inc
Job ID: 880-29221-1
Project/Site: Seawolf 1 12 Federal 94Y
SDG: Jal, NM

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-29221-32	SW94Y-17 (1-2)	134 S1+	0.2 S1-										
880-29221-33	SW94Y-17 (2-3)	145 S1+	0.1 S1-										
880-29221-34	SW94Y-18 (0-1)	141 S1+	110										
880-29221-35	SW94Y-BG (0-1)	133 S1+	101										
LCS 880-55017/2-A	Lab Control Sample	145 S1+	112										
LCS 880-55021/2-A	Lab Control Sample	149 S1+	117										
LCSD 880-55017/3-A	Lab Control Sample Dup	135 S1+	103										
LCSD 880-55021/3-A	Lab Control Sample Dup	131 S1+	100										
MB 880-55017/1-A	Method Blank	201 S1+	159 S1+										
MB 880-55021/1-A	Method Blank	179 S1+	143 S1+										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-55142/5-A
Matrix: Solid
Analysis Batch: 55090

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55142

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		06/09/23 12:15	06/10/23 11:02	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		06/09/23 12:15	06/10/23 11:02	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		06/09/23 12:15	06/10/23 11:02	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		06/09/23 12:15	06/10/23 11:02	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		06/09/23 12:15	06/10/23 11:02	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		06/09/23 12:15	06/10/23 11:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*06/09/23 12:15*	*06/10/23 11:02*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*06/09/23 12:15*	*06/10/23 11:02*	*1*

Lab Sample ID: MB 880-55146/5-A
Matrix: Solid
Analysis Batch: 55553

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55146

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		06/09/23 13:04	06/15/23 13:24	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		06/09/23 13:04	06/15/23 13:24	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		06/09/23 13:04	06/15/23 13:24	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		06/09/23 13:04	06/15/23 13:24	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		06/09/23 13:04	06/15/23 13:24	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		06/09/23 13:04	06/15/23 13:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*06/09/23 13:04*	*06/15/23 13:24*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*06/09/23 13:04*	*06/15/23 13:24*	*1*

Lab Sample ID: MB 880-55151/5-A
Matrix: Solid
Analysis Batch: 55345

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55151

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		06/09/23 13:11	06/13/23 09:24	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		06/09/23 13:11	06/13/23 09:24	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		06/09/23 13:11	06/13/23 09:24	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		06/09/23 13:11	06/13/23 09:24	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		06/09/23 13:11	06/13/23 09:24	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		06/09/23 13:11	06/13/23 09:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*69*	*S1-*	*70 - 130*	*06/09/23 13:11*	*06/13/23 09:24*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*06/09/23 13:11*	*06/13/23 09:24*	*1*

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

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

Lab Sample ID: MB 880-55169/5-A
Matrix: Solid
Analysis Batch: 55090

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55169

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		06/09/23 15:26	06/10/23 23:29	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		06/09/23 15:26	06/10/23 23:29	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		06/09/23 15:26	06/10/23 23:29	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		06/09/23 15:26	06/10/23 23:29	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		06/09/23 15:26	06/10/23 23:29	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		06/09/23 15:26	06/10/23 23:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*06/09/23 15:26*	*06/10/23 23:29*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*06/09/23 15:26*	*06/10/23 23:29*	*1*

Lab Sample ID: LCS 880-55169/1-A
Matrix: Solid
Analysis Batch: 55090

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55169

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1278		mg/Kg		128	70 - 130
Toluene	0.100	0.1208		mg/Kg		121	70 - 130
Ethylbenzene	0.100	0.1119		mg/Kg		112	70 - 130
m-Xylene & p-Xylene	0.200	0.1968		mg/Kg		98	70 - 130
o-Xylene	0.100	0.08978		mg/Kg		90	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-55169/2-A
Matrix: Solid
Analysis Batch: 55090

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 55169

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1275		mg/Kg		127	70 - 130	0	35
Toluene	0.100	0.1293		mg/Kg		129	70 - 130	7	35
Ethylbenzene	0.100	0.1022		mg/Kg		102	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.1801		mg/Kg		90	70 - 130	9	35
o-Xylene	0.100	0.09593		mg/Kg		96	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: MB 880-55176/5-A
Matrix: Solid
Analysis Batch: 55243

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55176

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		06/09/23 16:35	06/12/23 12:26	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		06/09/23 16:35	06/12/23 12:26	1

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

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

Lab Sample ID: MB 880-55176/5-A
Matrix: Solid
Analysis Batch: 55243

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55176

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		06/09/23 16:35	06/12/23 12:26	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		06/09/23 16:35	06/12/23 12:26	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		06/09/23 16:35	06/12/23 12:26	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		06/09/23 16:35	06/12/23 12:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*69*	*S1-*	*70 - 130*	*06/09/23 16:35*	*06/12/23 12:26*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*06/09/23 16:35*	*06/12/23 12:26*	*1*

Lab Sample ID: LCS 880-55176/1-A
Matrix: Solid
Analysis Batch: 55243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55176

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1446	*+	mg/Kg		145	70 - 130
Toluene	0.100	0.1111		mg/Kg		111	70 - 130
Ethylbenzene	0.100	0.1029		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.2023		mg/Kg		101	70 - 130
o-Xylene	0.100	0.09782		mg/Kg		98	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*

Lab Sample ID: LCSD 880-55176/2-A
Matrix: Solid
Analysis Batch: 55243

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 55176

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1033		mg/Kg		103	70 - 130	33	35
Toluene	0.100	0.09007		mg/Kg		90	70 - 130	21	35
Ethylbenzene	0.100	0.09515		mg/Kg		95	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1922		mg/Kg		96	70 - 130	5	35
o-Xylene	0.100	0.09316		mg/Kg		93	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: MB 880-55211/5-A
Matrix: Solid
Analysis Batch: 55345

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55211

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		06/10/23 13:37	06/13/23 22:48	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		06/10/23 13:37	06/13/23 22:48	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		06/10/23 13:37	06/13/23 22:48	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		06/10/23 13:37	06/13/23 22:48	1

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

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

Lab Sample ID: MB 880-55211/5-A
Matrix: Solid
Analysis Batch: 55345

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55211

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		06/10/23 13:37	06/13/23 22:48	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		06/10/23 13:37	06/13/23 22:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*73*		*70 - 130*	*06/10/23 13:37*	*06/13/23 22:48*	*1*
1,4-Difluorobenzene (Surr)	*0.06*	*S1-*	*70 - 130*	*06/10/23 13:37*	*06/13/23 22:48*	*1*

Lab Sample ID: LCS 880-55211/1-A
Matrix: Solid
Analysis Batch: 55345

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55211

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1285		mg/Kg		129	70 - 130
Toluene	0.100	0.1160		mg/Kg		116	70 - 130
Ethylbenzene	0.100	0.1150		mg/Kg		115	70 - 130
m-Xylene & p-Xylene	0.200	0.2284		mg/Kg		114	70 - 130
o-Xylene	0.100	0.1178		mg/Kg		118	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-55211/2-A
Matrix: Solid
Analysis Batch: 55345

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 55211

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1388	*+	mg/Kg		139	70 - 130	8	35
Toluene	0.100	0.1227		mg/Kg		123	70 - 130	6	35
Ethylbenzene	0.100	0.1231		mg/Kg		123	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2454		mg/Kg		123	70 - 130	7	35
o-Xylene	0.100	0.1273		mg/Kg		127	70 - 130	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: 880-29221-11 MS
Matrix: Solid
Analysis Batch: 55345

Client Sample ID: SW94Y-3 (2-3)
Prep Type: Total/NA
Prep Batch: 55211

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000440	U *+	0.116	0.1496		mg/Kg	☼	129	70 - 130
Toluene	<0.000521	U	0.116	0.1324		mg/Kg	☼	115	70 - 130
Ethylbenzene	<0.000645	U	0.116	0.1303		mg/Kg	☼	113	70 - 130
m-Xylene & p-Xylene	<0.00115	U	0.231	0.2589		mg/Kg	☼	112	70 - 130
o-Xylene	<0.000393	U	0.116	0.1361		mg/Kg	☼	118	70 - 130

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

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

Lab Sample ID: 880-29221-11 MS
Matrix: Solid
Analysis Batch: 55345

Client Sample ID: SW94Y-3 (2-3)
Prep Type: Total/NA
Prep Batch: 55211

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 880-29221-11 MSD
Matrix: Solid
Analysis Batch: 55345

Client Sample ID: SW94Y-3 (2-3)
Prep Type: Total/NA
Prep Batch: 55211

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000440	U *+	0.116	0.1512		mg/Kg	☼	130	70 - 130	1	35
Toluene	<0.000521	U	0.116	0.1357		mg/Kg	☼	116	70 - 130	2	35
Ethylbenzene	<0.000645	U	0.116	0.1323		mg/Kg	☼	114	70 - 130	2	35
m-Xylene & p-Xylene	<0.00115	U	0.233	0.2626		mg/Kg	☼	113	70 - 130	1	35
o-Xylene	<0.000393	U	0.116	0.1370		mg/Kg	☼	118	70 - 130	1	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: MB 880-55214/5-A
Matrix: Solid
Analysis Batch: 55553

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55214

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		06/10/23 15:01	06/16/23 01:04	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		06/10/23 15:01	06/16/23 01:04	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		06/10/23 15:01	06/16/23 01:04	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		06/10/23 15:01	06/16/23 01:04	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		06/10/23 15:01	06/16/23 01:04	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		06/10/23 15:01	06/16/23 01:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	06/10/23 15:01	06/16/23 01:04	1
1,4-Difluorobenzene (Surr)	107		70 - 130	06/10/23 15:01	06/16/23 01:04	1

Lab Sample ID: LCS 880-55214/1-A
Matrix: Solid
Analysis Batch: 55553

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55214

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1382	*+	mg/Kg		138	70 - 130
Toluene	0.100	0.1322	*+	mg/Kg		132	70 - 130
Ethylbenzene	0.100	0.1213		mg/Kg		121	70 - 130
m-Xylene & p-Xylene	0.200	0.2309		mg/Kg		115	70 - 130
o-Xylene	0.100	0.1089		mg/Kg		109	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

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

Lab Sample ID: LCS 880-55214/1-A
Matrix: Solid
Analysis Batch: 55553

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55214

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

Lab Sample ID: LCSD 880-55214/2-A
Matrix: Solid
Analysis Batch: 55553

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 55214

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1298		mg/Kg		130	70 - 130	6	35
Toluene			0.100	0.1222		mg/Kg		122	70 - 130	8	35
Ethylbenzene			0.100	0.1107		mg/Kg		111	70 - 130	9	35
m-Xylene & p-Xylene			0.200	0.2176		mg/Kg		109	70 - 130	6	35
o-Xylene			0.100	0.1045		mg/Kg		105	70 - 130	4	35

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

Lab Sample ID: 880-29221-31 MS
Matrix: Solid
Analysis Batch: 55553

Client Sample ID: SW94Y-17 (0-1)
Prep Type: Total/NA
Prep Batch: 55214

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000424	U *+ F1	0.109	0.1411		mg/Kg	☼	130	70 - 130
Toluene	<0.000502	U *+	0.109	0.1354		mg/Kg	☼	125	70 - 130
Ethylbenzene	<0.000622	U	0.109	0.1234		mg/Kg	☼	114	70 - 130
m-Xylene & p-Xylene	<0.00111	U	0.217	0.2325		mg/Kg	☼	107	70 - 130
o-Xylene	<0.000379	U	0.109	0.1099		mg/Kg	☼	101	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 880-29221-31 MSD
Matrix: Solid
Analysis Batch: 55553

Client Sample ID: SW94Y-17 (0-1)
Prep Type: Total/NA
Prep Batch: 55214

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000424	U *+ F1	0.108	0.1421	F1	mg/Kg	☼	131	70 - 130	1	35
Toluene	<0.000502	U *+	0.108	0.1374		mg/Kg	☼	127	70 - 130	1	35
Ethylbenzene	<0.000622	U	0.108	0.1191		mg/Kg	☼	110	70 - 130	4	35
m-Xylene & p-Xylene	<0.00111	U	0.216	0.2283		mg/Kg	☼	106	70 - 130	2	35
o-Xylene	<0.000379	U	0.108	0.1083		mg/Kg	☼	100	70 - 130	2	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

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

Lab Sample ID: MB 880-55017/1-A
Matrix: Solid
Analysis Batch: 55207

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55017

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		06/08/23 09:40	06/10/23 08:23	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/08/23 09:40	06/10/23 08:23	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/08/23 09:40	06/10/23 08:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*201*	*S1+*	*70 - 130*	*06/08/23 09:40*	*06/10/23 08:23*	*1*
o-Terphenyl	*159*	*S1+*	*70 - 130*	*06/08/23 09:40*	*06/10/23 08:23*	*1*

Lab Sample ID: LCS 880-55017/2-A
Matrix: Solid
Analysis Batch: 55207

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55017

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	992.3		mg/Kg		99	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1025		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*145*	*S1+*	*70 - 130*
o-Terphenyl	*112*		*70 - 130*

Lab Sample ID: LCSD 880-55017/3-A
Matrix: Solid
Analysis Batch: 55207

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 55017

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1031		mg/Kg		103	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	1040		mg/Kg		104	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*135*	*S1+*	*70 - 130*
o-Terphenyl	*103*		*70 - 130*

Lab Sample ID: 880-29221-1 MS
Matrix: Solid
Analysis Batch: 55207

Client Sample ID: SW94Y-1 (0-1)
Prep Type: Total/NA
Prep Batch: 55017

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	46.5	J	1150	1507		mg/Kg	☼	127	70 - 130		
Diesel Range Organics (Over C10-C28)	<17.1	U	1150	1266		mg/Kg	☼	110	70 - 130		

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

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

Lab Sample ID: 880-29221-1 MS
Matrix: Solid
Analysis Batch: 55207

Client Sample ID: SW94Y-1 (0-1)
Prep Type: Total/NA
Prep Batch: 55017

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	168	S1+	70 - 130
o-Terphenyl	122		70 - 130

Lab Sample ID: 880-29221-1 MSD
Matrix: Solid
Analysis Batch: 55207

Client Sample ID: SW94Y-1 (0-1)
Prep Type: Total/NA
Prep Batch: 55017

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	46.5	J	1140	1485		mg/Kg	☼	126	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<17.1	U	1140	1239		mg/Kg	☼	108	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	165	S1+	70 - 130
o-Terphenyl	120		70 - 130

Lab Sample ID: MB 880-55021/1-A
Matrix: Solid
Analysis Batch: 55082

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55021

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		06/08/23 09:44	06/09/23 08:19	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/08/23 09:44	06/09/23 08:19	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/08/23 09:44	06/09/23 08:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	179	S1+	70 - 130	06/08/23 09:44	06/09/23 08:19	1
o-Terphenyl	143	S1+	70 - 130	06/08/23 09:44	06/09/23 08:19	1

Lab Sample ID: LCS 880-55021/2-A
Matrix: Solid
Analysis Batch: 55082

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55021

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1081		mg/Kg		108	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1049		mg/Kg		105	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	149	S1+	70 - 130
o-Terphenyl	117		70 - 130

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

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

Lab Sample ID: LCSD 880-55021/3-A
Matrix: Solid
Analysis Batch: 55082

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 55021

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1045		mg/Kg		104	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1006		mg/Kg		101	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*131*	*S1+*	*70 - 130*
o-Terphenyl	*100*		*70 - 130*

Lab Sample ID: 880-29221-21 MS
Matrix: Solid
Analysis Batch: 55082

Client Sample ID: SW94Y-5 (4-5)
Prep Type: Total/NA
Prep Batch: 55021

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.5	J	1150	1409		mg/Kg	☼	120	70 - 130
Diesel Range Organics (Over C10-C28)	51.0	J	1150	1127		mg/Kg	☼	93	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*164*	*S1+*	*70 - 130*
o-Terphenyl	*119*		*70 - 130*

Lab Sample ID: 880-29221-21 MSD
Matrix: Solid
Analysis Batch: 55082

Client Sample ID: SW94Y-5 (4-5)
Prep Type: Total/NA
Prep Batch: 55021

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	25.5	J	1150	1337		mg/Kg	☼	114	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	51.0	J	1150	1068		mg/Kg	☼	88	70 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*157*	*S1+*	*70 - 130*
o-Terphenyl	*114*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-54964/1-A
Matrix: Solid
Analysis Batch: 55057

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			06/09/23 01:04	1

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-54964/2-A
Matrix: Solid
Analysis Batch: 55057

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	263.7		mg/Kg		105	90 - 110		

Lab Sample ID: LCSD 880-54964/3-A
Matrix: Solid
Analysis Batch: 55057

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	264.2		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 880-29221-1 MS
Matrix: Solid
Analysis Batch: 55057

Client Sample ID: SW94Y-1 (0-1)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	7330		2880	10360		mg/Kg	☼	105	90 - 110		

Lab Sample ID: 880-29221-1 MSD
Matrix: Solid
Analysis Batch: 55057

Client Sample ID: SW94Y-1 (0-1)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	7330		2880	10350		mg/Kg	☼	105	90 - 110	0	20

Lab Sample ID: 880-29221-11 MS
Matrix: Solid
Analysis Batch: 55057

Client Sample ID: SW94Y-3 (2-3)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	784		289	1045		mg/Kg	☼	91	90 - 110		

Lab Sample ID: 880-29221-11 MSD
Matrix: Solid
Analysis Batch: 55057

Client Sample ID: SW94Y-3 (2-3)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	784		289	1044		mg/Kg	☼	90	90 - 110	0	20

Lab Sample ID: MB 880-54965/1-A
Matrix: Solid
Analysis Batch: 55161

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			06/09/23 13:50	1

Lab Sample ID: LCS 880-54965/2-A
Matrix: Solid
Analysis Batch: 55161

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	248.7		mg/Kg		99	90 - 110		

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-54965/3-A
Matrix: Solid
Analysis Batch: 55161

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	247.9		mg/Kg		99	90 - 110	0	20

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

GC VOA

Analysis Batch: 55090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29221-1	SW94Y-1 (0-1)	Total/NA	Solid	8021B	55169
880-29221-2	SW94Y-1 (1-2)	Total/NA	Solid	8021B	55169
880-29221-3	SW94Y-1 (2-3)	Total/NA	Solid	8021B	55169
880-29221-4	SW94Y-1 (3-4)	Total/NA	Solid	8021B	55169
880-29221-5	SW94Y-2 (0-1)	Total/NA	Solid	8021B	55169
880-29221-6	SW94Y-2 (1-2)	Total/NA	Solid	8021B	55169
880-29221-7	SW94Y-2 (2-3)	Total/NA	Solid	8021B	55169
880-29221-8	SW94Y-2 (3-4)	Total/NA	Solid	8021B	55169
880-29221-9	SW94Y-3 (0-1)	Total/NA	Solid	8021B	55169
880-29221-10	SW94Y-3 (1-2)	Total/NA	Solid	8021B	55169
MB 880-55142/5-A	Method Blank	Total/NA	Solid	8021B	55142
MB 880-55169/5-A	Method Blank	Total/NA	Solid	8021B	55169
LCS 880-55169/1-A	Lab Control Sample	Total/NA	Solid	8021B	55169
LCSD 880-55169/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	55169

Prep Batch: 55142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-55142/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 55146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-55146/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 55151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-55151/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 55169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29221-1	SW94Y-1 (0-1)	Total/NA	Solid	5035	
880-29221-2	SW94Y-1 (1-2)	Total/NA	Solid	5035	
880-29221-3	SW94Y-1 (2-3)	Total/NA	Solid	5035	
880-29221-4	SW94Y-1 (3-4)	Total/NA	Solid	5035	
880-29221-5	SW94Y-2 (0-1)	Total/NA	Solid	5035	
880-29221-6	SW94Y-2 (1-2)	Total/NA	Solid	5035	
880-29221-7	SW94Y-2 (2-3)	Total/NA	Solid	5035	
880-29221-8	SW94Y-2 (3-4)	Total/NA	Solid	5035	
880-29221-9	SW94Y-3 (0-1)	Total/NA	Solid	5035	
880-29221-10	SW94Y-3 (1-2)	Total/NA	Solid	5035	
MB 880-55169/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-55169/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-55169/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 55176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29221-35	SW94Y-BG (0-1)	Total/NA	Solid	5035	
MB 880-55176/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-55176/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-55176/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

GC VOA

Prep Batch: 55211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29221-11	SW94Y-3 (2-3)	Total/NA	Solid	5035	
880-29221-12	SW94Y-3 (3-4)	Total/NA	Solid	5035	
880-29221-13	SW94Y-4 (0-1)	Total/NA	Solid	5035	
880-29221-14	SW94Y-4 (1-2)	Total/NA	Solid	5035	
880-29221-15	SW94Y-4 (2-3)	Total/NA	Solid	5035	
880-29221-16	SW94Y-4 (3-4)	Total/NA	Solid	5035	
880-29221-17	SW94Y-5 (0-1)	Total/NA	Solid	5035	
880-29221-18	SW94Y-5 (1-2)	Total/NA	Solid	5035	
880-29221-19	SW94Y-5 (2-3)	Total/NA	Solid	5035	
880-29221-20	SW94Y-5 (3-4)	Total/NA	Solid	5035	
880-29221-21	SW94Y-5 (4-5)	Total/NA	Solid	5035	
880-29221-22	SW94Y-6 (0-1)	Total/NA	Solid	5035	
880-29221-23	SW94Y-8 (0-1)	Total/NA	Solid	5035	
880-29221-24	SW94Y-8 (3-4)	Total/NA	Solid	5035	
880-29221-25	SW94Y-9 (0-1)	Total/NA	Solid	5035	
880-29221-26	SW94Y-9 (2-3)	Total/NA	Solid	5035	
880-29221-27	SW94Y-9 (4-5)	Total/NA	Solid	5035	
880-29221-28	SW94Y-10 (0-1)	Total/NA	Solid	5035	
880-29221-29	SW94Y-16 (0-1)	Total/NA	Solid	5035	
880-29221-30	SW94Y-16 (3-4)	Total/NA	Solid	5035	
MB 880-55211/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-55211/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-55211/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-29221-11 MS	SW94Y-3 (2-3)	Total/NA	Solid	5035	
880-29221-11 MSD	SW94Y-3 (2-3)	Total/NA	Solid	5035	

Prep Batch: 55214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29221-31	SW94Y-17 (0-1)	Total/NA	Solid	5035	
880-29221-32	SW94Y-17 (1-2)	Total/NA	Solid	5035	
880-29221-33	SW94Y-17 (2-3)	Total/NA	Solid	5035	
880-29221-34	SW94Y-18 (0-1)	Total/NA	Solid	5035	
MB 880-55214/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-55214/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-55214/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-29221-31 MS	SW94Y-17 (0-1)	Total/NA	Solid	5035	
880-29221-31 MSD	SW94Y-17 (0-1)	Total/NA	Solid	5035	

Analysis Batch: 55243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29221-35	SW94Y-BG (0-1)	Total/NA	Solid	8021B	55176
MB 880-55176/5-A	Method Blank	Total/NA	Solid	8021B	55176
LCS 880-55176/1-A	Lab Control Sample	Total/NA	Solid	8021B	55176
LCSD 880-55176/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	55176

Analysis Batch: 55345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29221-11	SW94Y-3 (2-3)	Total/NA	Solid	8021B	55211
880-29221-12	SW94Y-3 (3-4)	Total/NA	Solid	8021B	55211
880-29221-13	SW94Y-4 (0-1)	Total/NA	Solid	8021B	55211
880-29221-14	SW94Y-4 (1-2)	Total/NA	Solid	8021B	55211

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

GC VOA (Continued)

Analysis Batch: 55345 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29221-15	SW94Y-4 (2-3)	Total/NA	Solid	8021B	55211
880-29221-16	SW94Y-4 (3-4)	Total/NA	Solid	8021B	55211
880-29221-17	SW94Y-5 (0-1)	Total/NA	Solid	8021B	55211
880-29221-18	SW94Y-5 (1-2)	Total/NA	Solid	8021B	55211
880-29221-19	SW94Y-5 (2-3)	Total/NA	Solid	8021B	55211
880-29221-20	SW94Y-5 (3-4)	Total/NA	Solid	8021B	55211
880-29221-21	SW94Y-5 (4-5)	Total/NA	Solid	8021B	55211
880-29221-22	SW94Y-6 (0-1)	Total/NA	Solid	8021B	55211
880-29221-23	SW94Y-8 (0-1)	Total/NA	Solid	8021B	55211
880-29221-24	SW94Y-8 (3-4)	Total/NA	Solid	8021B	55211
880-29221-25	SW94Y-9 (0-1)	Total/NA	Solid	8021B	55211
880-29221-26	SW94Y-9 (2-3)	Total/NA	Solid	8021B	55211
880-29221-27	SW94Y-9 (4-5)	Total/NA	Solid	8021B	55211
880-29221-28	SW94Y-10 (0-1)	Total/NA	Solid	8021B	55211
880-29221-29	SW94Y-16 (0-1)	Total/NA	Solid	8021B	55211
880-29221-30	SW94Y-16 (3-4)	Total/NA	Solid	8021B	55211
MB 880-55151/5-A	Method Blank	Total/NA	Solid	8021B	55151
MB 880-55211/5-A	Method Blank	Total/NA	Solid	8021B	55211
LCS 880-55211/1-A	Lab Control Sample	Total/NA	Solid	8021B	55211
LCSD 880-55211/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	55211
880-29221-11 MS	SW94Y-3 (2-3)	Total/NA	Solid	8021B	55211
880-29221-11 MSD	SW94Y-3 (2-3)	Total/NA	Solid	8021B	55211

Analysis Batch: 55553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29221-31	SW94Y-17 (0-1)	Total/NA	Solid	8021B	55214
880-29221-32	SW94Y-17 (1-2)	Total/NA	Solid	8021B	55214
880-29221-33	SW94Y-17 (2-3)	Total/NA	Solid	8021B	55214
880-29221-34	SW94Y-18 (0-1)	Total/NA	Solid	8021B	55214
MB 880-55146/5-A	Method Blank	Total/NA	Solid	8021B	55146
MB 880-55214/5-A	Method Blank	Total/NA	Solid	8021B	55214
LCS 880-55214/1-A	Lab Control Sample	Total/NA	Solid	8021B	55214
LCSD 880-55214/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	55214
880-29221-31 MS	SW94Y-17 (0-1)	Total/NA	Solid	8021B	55214
880-29221-31 MSD	SW94Y-17 (0-1)	Total/NA	Solid	8021B	55214

GC Semi VOA

Prep Batch: 55017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29221-1	SW94Y-1 (0-1)	Total/NA	Solid	8015NM Prep	
880-29221-2	SW94Y-1 (1-2)	Total/NA	Solid	8015NM Prep	
880-29221-3	SW94Y-1 (2-3)	Total/NA	Solid	8015NM Prep	
880-29221-4	SW94Y-1 (3-4)	Total/NA	Solid	8015NM Prep	
880-29221-5	SW94Y-2 (0-1)	Total/NA	Solid	8015NM Prep	
880-29221-6	SW94Y-2 (1-2)	Total/NA	Solid	8015NM Prep	
880-29221-7	SW94Y-2 (2-3)	Total/NA	Solid	8015NM Prep	
880-29221-8	SW94Y-2 (3-4)	Total/NA	Solid	8015NM Prep	
880-29221-9	SW94Y-3 (0-1)	Total/NA	Solid	8015NM Prep	
880-29221-10	SW94Y-3 (1-2)	Total/NA	Solid	8015NM Prep	
880-29221-11	SW94Y-3 (2-3)	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

GC Semi VOA (Continued)

Prep Batch: 55017 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29221-12	SW94Y-3 (3-4)	Total/NA	Solid	8015NM Prep	
880-29221-13	SW94Y-4 (0-1)	Total/NA	Solid	8015NM Prep	
880-29221-14	SW94Y-4 (1-2)	Total/NA	Solid	8015NM Prep	
880-29221-15	SW94Y-4 (2-3)	Total/NA	Solid	8015NM Prep	
880-29221-16	SW94Y-4 (3-4)	Total/NA	Solid	8015NM Prep	
880-29221-17	SW94Y-5 (0-1)	Total/NA	Solid	8015NM Prep	
880-29221-18	SW94Y-5 (1-2)	Total/NA	Solid	8015NM Prep	
880-29221-19	SW94Y-5 (2-3)	Total/NA	Solid	8015NM Prep	
880-29221-20	SW94Y-5 (3-4)	Total/NA	Solid	8015NM Prep	
MB 880-55017/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-55017/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-55017/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-29221-1 MS	SW94Y-1 (0-1)	Total/NA	Solid	8015NM Prep	
880-29221-1 MSD	SW94Y-1 (0-1)	Total/NA	Solid	8015NM Prep	

Prep Batch: 55021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29221-21	SW94Y-5 (4-5)	Total/NA	Solid	8015NM Prep	
880-29221-22	SW94Y-6 (0-1)	Total/NA	Solid	8015NM Prep	
880-29221-23	SW94Y-8 (0-1)	Total/NA	Solid	8015NM Prep	
880-29221-24	SW94Y-8 (3-4)	Total/NA	Solid	8015NM Prep	
880-29221-25	SW94Y-9 (0-1)	Total/NA	Solid	8015NM Prep	
880-29221-26	SW94Y-9 (2-3)	Total/NA	Solid	8015NM Prep	
880-29221-27	SW94Y-9 (4-5)	Total/NA	Solid	8015NM Prep	
880-29221-28	SW94Y-10 (0-1)	Total/NA	Solid	8015NM Prep	
880-29221-29	SW94Y-16 (0-1)	Total/NA	Solid	8015NM Prep	
880-29221-30	SW94Y-16 (3-4)	Total/NA	Solid	8015NM Prep	
880-29221-31	SW94Y-17 (0-1)	Total/NA	Solid	8015NM Prep	
880-29221-32	SW94Y-17 (1-2)	Total/NA	Solid	8015NM Prep	
880-29221-33	SW94Y-17 (2-3)	Total/NA	Solid	8015NM Prep	
880-29221-34	SW94Y-18 (0-1)	Total/NA	Solid	8015NM Prep	
880-29221-35	SW94Y-BG (0-1)	Total/NA	Solid	8015NM Prep	
MB 880-55021/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-55021/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-55021/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-29221-21 MS	SW94Y-5 (4-5)	Total/NA	Solid	8015NM Prep	
880-29221-21 MSD	SW94Y-5 (4-5)	Total/NA	Solid	8015NM Prep	

Analysis Batch: 55082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29221-21	SW94Y-5 (4-5)	Total/NA	Solid	8015B NM	55021
880-29221-22	SW94Y-6 (0-1)	Total/NA	Solid	8015B NM	55021
880-29221-23	SW94Y-8 (0-1)	Total/NA	Solid	8015B NM	55021
880-29221-24	SW94Y-8 (3-4)	Total/NA	Solid	8015B NM	55021
880-29221-25	SW94Y-9 (0-1)	Total/NA	Solid	8015B NM	55021
880-29221-26	SW94Y-9 (2-3)	Total/NA	Solid	8015B NM	55021
880-29221-27	SW94Y-9 (4-5)	Total/NA	Solid	8015B NM	55021
880-29221-28	SW94Y-10 (0-1)	Total/NA	Solid	8015B NM	55021
880-29221-29	SW94Y-16 (0-1)	Total/NA	Solid	8015B NM	55021
880-29221-30	SW94Y-16 (3-4)	Total/NA	Solid	8015B NM	55021
880-29221-31	SW94Y-17 (0-1)	Total/NA	Solid	8015B NM	55021

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

GC Semi VOA (Continued)

Analysis Batch: 55082 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29221-32	SW94Y-17 (1-2)	Total/NA	Solid	8015B NM	55021
880-29221-33	SW94Y-17 (2-3)	Total/NA	Solid	8015B NM	55021
880-29221-34	SW94Y-18 (0-1)	Total/NA	Solid	8015B NM	55021
880-29221-35	SW94Y-BG (0-1)	Total/NA	Solid	8015B NM	55021
MB 880-55021/1-A	Method Blank	Total/NA	Solid	8015B NM	55021
LCS 880-55021/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	55021
LCSD 880-55021/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	55021
880-29221-21 MS	SW94Y-5 (4-5)	Total/NA	Solid	8015B NM	55021
880-29221-21 MSD	SW94Y-5 (4-5)	Total/NA	Solid	8015B NM	55021

Analysis Batch: 55207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29221-1	SW94Y-1 (0-1)	Total/NA	Solid	8015B NM	55017
880-29221-2	SW94Y-1 (1-2)	Total/NA	Solid	8015B NM	55017
880-29221-3	SW94Y-1 (2-3)	Total/NA	Solid	8015B NM	55017
880-29221-4	SW94Y-1 (3-4)	Total/NA	Solid	8015B NM	55017
880-29221-5	SW94Y-2 (0-1)	Total/NA	Solid	8015B NM	55017
880-29221-6	SW94Y-2 (1-2)	Total/NA	Solid	8015B NM	55017
880-29221-7	SW94Y-2 (2-3)	Total/NA	Solid	8015B NM	55017
880-29221-8	SW94Y-2 (3-4)	Total/NA	Solid	8015B NM	55017
880-29221-9	SW94Y-3 (0-1)	Total/NA	Solid	8015B NM	55017
880-29221-10	SW94Y-3 (1-2)	Total/NA	Solid	8015B NM	55017
880-29221-11	SW94Y-3 (2-3)	Total/NA	Solid	8015B NM	55017
880-29221-12	SW94Y-3 (3-4)	Total/NA	Solid	8015B NM	55017
880-29221-13	SW94Y-4 (0-1)	Total/NA	Solid	8015B NM	55017
880-29221-14	SW94Y-4 (1-2)	Total/NA	Solid	8015B NM	55017
880-29221-15	SW94Y-4 (2-3)	Total/NA	Solid	8015B NM	55017
880-29221-16	SW94Y-4 (3-4)	Total/NA	Solid	8015B NM	55017
880-29221-17	SW94Y-5 (0-1)	Total/NA	Solid	8015B NM	55017
880-29221-18	SW94Y-5 (1-2)	Total/NA	Solid	8015B NM	55017
880-29221-19	SW94Y-5 (2-3)	Total/NA	Solid	8015B NM	55017
880-29221-20	SW94Y-5 (3-4)	Total/NA	Solid	8015B NM	55017
MB 880-55017/1-A	Method Blank	Total/NA	Solid	8015B NM	55017
LCS 880-55017/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	55017
LCSD 880-55017/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	55017
880-29221-1 MS	SW94Y-1 (0-1)	Total/NA	Solid	8015B NM	55017
880-29221-1 MSD	SW94Y-1 (0-1)	Total/NA	Solid	8015B NM	55017

HPLC/IC

Leach Batch: 54964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29221-1	SW94Y-1 (0-1)	Soluble	Solid	DI Leach	
880-29221-2	SW94Y-1 (1-2)	Soluble	Solid	DI Leach	
880-29221-3	SW94Y-1 (2-3)	Soluble	Solid	DI Leach	
880-29221-4	SW94Y-1 (3-4)	Soluble	Solid	DI Leach	
880-29221-5	SW94Y-2 (0-1)	Soluble	Solid	DI Leach	
880-29221-6	SW94Y-2 (1-2)	Soluble	Solid	DI Leach	
880-29221-7	SW94Y-2 (2-3)	Soluble	Solid	DI Leach	
880-29221-8	SW94Y-2 (3-4)	Soluble	Solid	DI Leach	
880-29221-9	SW94Y-3 (0-1)	Soluble	Solid	DI Leach	

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

HPLC/IC (Continued)

Leach Batch: 54964 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29221-10	SW94Y-3 (1-2)	Soluble	Solid	DI Leach	
880-29221-11	SW94Y-3 (2-3)	Soluble	Solid	DI Leach	
880-29221-12	SW94Y-3 (3-4)	Soluble	Solid	DI Leach	
880-29221-13	SW94Y-4 (0-1)	Soluble	Solid	DI Leach	
880-29221-14	SW94Y-4 (1-2)	Soluble	Solid	DI Leach	
880-29221-15	SW94Y-4 (2-3)	Soluble	Solid	DI Leach	
880-29221-16	SW94Y-4 (3-4)	Soluble	Solid	DI Leach	
880-29221-17	SW94Y-5 (0-1)	Soluble	Solid	DI Leach	
880-29221-18	SW94Y-5 (1-2)	Soluble	Solid	DI Leach	
880-29221-19	SW94Y-5 (2-3)	Soluble	Solid	DI Leach	
880-29221-20	SW94Y-5 (3-4)	Soluble	Solid	DI Leach	
MB 880-54964/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-54964/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-54964/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-29221-1 MS	SW94Y-1 (0-1)	Soluble	Solid	DI Leach	
880-29221-1 MSD	SW94Y-1 (0-1)	Soluble	Solid	DI Leach	
880-29221-11 MS	SW94Y-3 (2-3)	Soluble	Solid	DI Leach	
880-29221-11 MSD	SW94Y-3 (2-3)	Soluble	Solid	DI Leach	

Leach Batch: 54965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29221-21	SW94Y-5 (4-5)	Soluble	Solid	DI Leach	
880-29221-22	SW94Y-6 (0-1)	Soluble	Solid	DI Leach	
880-29221-23	SW94Y-8 (0-1)	Soluble	Solid	DI Leach	
880-29221-24	SW94Y-8 (3-4)	Soluble	Solid	DI Leach	
880-29221-25	SW94Y-9 (0-1)	Soluble	Solid	DI Leach	
880-29221-26	SW94Y-9 (2-3)	Soluble	Solid	DI Leach	
880-29221-27	SW94Y-9 (4-5)	Soluble	Solid	DI Leach	
880-29221-28	SW94Y-10 (0-1)	Soluble	Solid	DI Leach	
880-29221-29	SW94Y-16 (0-1)	Soluble	Solid	DI Leach	
880-29221-30	SW94Y-16 (3-4)	Soluble	Solid	DI Leach	
880-29221-31	SW94Y-17 (0-1)	Soluble	Solid	DI Leach	
880-29221-32	SW94Y-17 (1-2)	Soluble	Solid	DI Leach	
880-29221-33	SW94Y-17 (2-3)	Soluble	Solid	DI Leach	
880-29221-34	SW94Y-18 (0-1)	Soluble	Solid	DI Leach	
880-29221-35	SW94Y-BG (0-1)	Soluble	Solid	DI Leach	
MB 880-54965/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-54965/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-54965/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 55057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29221-1	SW94Y-1 (0-1)	Soluble	Solid	300.0	54964
880-29221-2	SW94Y-1 (1-2)	Soluble	Solid	300.0	54964
880-29221-3	SW94Y-1 (2-3)	Soluble	Solid	300.0	54964
880-29221-4	SW94Y-1 (3-4)	Soluble	Solid	300.0	54964
880-29221-5	SW94Y-2 (0-1)	Soluble	Solid	300.0	54964
880-29221-6	SW94Y-2 (1-2)	Soluble	Solid	300.0	54964
880-29221-7	SW94Y-2 (2-3)	Soluble	Solid	300.0	54964
880-29221-8	SW94Y-2 (3-4)	Soluble	Solid	300.0	54964
880-29221-9	SW94Y-3 (0-1)	Soluble	Solid	300.0	54964

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

HPLC/IC (Continued)

Analysis Batch: 55057 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29221-10	SW94Y-3 (1-2)	Soluble	Solid	300.0	54964
880-29221-11	SW94Y-3 (2-3)	Soluble	Solid	300.0	54964
880-29221-12	SW94Y-3 (3-4)	Soluble	Solid	300.0	54964
880-29221-13	SW94Y-4 (0-1)	Soluble	Solid	300.0	54964
880-29221-14	SW94Y-4 (1-2)	Soluble	Solid	300.0	54964
880-29221-15	SW94Y-4 (2-3)	Soluble	Solid	300.0	54964
880-29221-16	SW94Y-4 (3-4)	Soluble	Solid	300.0	54964
880-29221-17	SW94Y-5 (0-1)	Soluble	Solid	300.0	54964
880-29221-18	SW94Y-5 (1-2)	Soluble	Solid	300.0	54964
880-29221-19	SW94Y-5 (2-3)	Soluble	Solid	300.0	54964
880-29221-20	SW94Y-5 (3-4)	Soluble	Solid	300.0	54964
MB 880-54964/1-A	Method Blank	Soluble	Solid	300.0	54964
LCS 880-54964/2-A	Lab Control Sample	Soluble	Solid	300.0	54964
LCSD 880-54964/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	54964
880-29221-1 MS	SW94Y-1 (0-1)	Soluble	Solid	300.0	54964
880-29221-1 MSD	SW94Y-1 (0-1)	Soluble	Solid	300.0	54964
880-29221-11 MS	SW94Y-3 (2-3)	Soluble	Solid	300.0	54964
880-29221-11 MSD	SW94Y-3 (2-3)	Soluble	Solid	300.0	54964

Analysis Batch: 55161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29221-21	SW94Y-5 (4-5)	Soluble	Solid	300.0	54965
880-29221-22	SW94Y-6 (0-1)	Soluble	Solid	300.0	54965
880-29221-23	SW94Y-8 (0-1)	Soluble	Solid	300.0	54965
880-29221-24	SW94Y-8 (3-4)	Soluble	Solid	300.0	54965
880-29221-25	SW94Y-9 (0-1)	Soluble	Solid	300.0	54965
880-29221-26	SW94Y-9 (2-3)	Soluble	Solid	300.0	54965
880-29221-27	SW94Y-9 (4-5)	Soluble	Solid	300.0	54965
880-29221-28	SW94Y-10 (0-1)	Soluble	Solid	300.0	54965
880-29221-29	SW94Y-16 (0-1)	Soluble	Solid	300.0	54965
880-29221-30	SW94Y-16 (3-4)	Soluble	Solid	300.0	54965
880-29221-31	SW94Y-17 (0-1)	Soluble	Solid	300.0	54965
880-29221-32	SW94Y-17 (1-2)	Soluble	Solid	300.0	54965
880-29221-33	SW94Y-17 (2-3)	Soluble	Solid	300.0	54965
880-29221-34	SW94Y-18 (0-1)	Soluble	Solid	300.0	54965
880-29221-35	SW94Y-BG (0-1)	Soluble	Solid	300.0	54965
MB 880-54965/1-A	Method Blank	Soluble	Solid	300.0	54965
LCS 880-54965/2-A	Lab Control Sample	Soluble	Solid	300.0	54965
LCSD 880-54965/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	54965

General Chemistry

Analysis Batch: 55178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29221-21	SW94Y-5 (4-5)	Total/NA	Solid	D2216	
880-29221-22	SW94Y-6 (0-1)	Total/NA	Solid	D2216	
880-29221-23	SW94Y-8 (0-1)	Total/NA	Solid	D2216	
880-29221-24	SW94Y-8 (3-4)	Total/NA	Solid	D2216	
880-29221-25	SW94Y-9 (0-1)	Total/NA	Solid	D2216	
880-29221-26	SW94Y-9 (2-3)	Total/NA	Solid	D2216	
880-29221-27	SW94Y-9 (4-5)	Total/NA	Solid	D2216	

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

General Chemistry (Continued)

Analysis Batch: 55178 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29221-28	SW94Y-10 (0-1)	Total/NA	Solid	D2216	
880-29221-29	SW94Y-16 (0-1)	Total/NA	Solid	D2216	
880-29221-30	SW94Y-16 (3-4)	Total/NA	Solid	D2216	
880-29221-31	SW94Y-17 (0-1)	Total/NA	Solid	D2216	
880-29221-32	SW94Y-17 (1-2)	Total/NA	Solid	D2216	
880-29221-33	SW94Y-17 (2-3)	Total/NA	Solid	D2216	
880-29221-34	SW94Y-18 (0-1)	Total/NA	Solid	D2216	
880-29221-35	SW94Y-BG (0-1)	Total/NA	Solid	D2216	
MB 880-55178/1	Method Blank	Total/NA	Solid	D2216	
880-29221-21 DU	SW94Y-5 (4-5)	Total/NA	Solid	D2216	
880-29221-31 DU	SW94Y-17 (0-1)	Total/NA	Solid	D2216	

Analysis Batch: 55182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29221-1	SW94Y-1 (0-1)	Total/NA	Solid	D2216	
880-29221-2	SW94Y-1 (1-2)	Total/NA	Solid	D2216	
880-29221-3	SW94Y-1 (2-3)	Total/NA	Solid	D2216	
880-29221-4	SW94Y-1 (3-4)	Total/NA	Solid	D2216	
880-29221-5	SW94Y-2 (0-1)	Total/NA	Solid	D2216	
880-29221-6	SW94Y-2 (1-2)	Total/NA	Solid	D2216	
880-29221-7	SW94Y-2 (2-3)	Total/NA	Solid	D2216	
880-29221-8	SW94Y-2 (3-4)	Total/NA	Solid	D2216	
880-29221-9	SW94Y-3 (0-1)	Total/NA	Solid	D2216	
880-29221-10	SW94Y-3 (1-2)	Total/NA	Solid	D2216	
880-29221-11	SW94Y-3 (2-3)	Total/NA	Solid	D2216	
880-29221-12	SW94Y-3 (3-4)	Total/NA	Solid	D2216	
880-29221-13	SW94Y-4 (0-1)	Total/NA	Solid	D2216	
880-29221-14	SW94Y-4 (1-2)	Total/NA	Solid	D2216	
880-29221-15	SW94Y-4 (2-3)	Total/NA	Solid	D2216	
880-29221-16	SW94Y-4 (3-4)	Total/NA	Solid	D2216	
880-29221-17	SW94Y-5 (0-1)	Total/NA	Solid	D2216	
880-29221-18	SW94Y-5 (1-2)	Total/NA	Solid	D2216	
880-29221-19	SW94Y-5 (2-3)	Total/NA	Solid	D2216	
880-29221-20	SW94Y-5 (3-4)	Total/NA	Solid	D2216	
MB 880-55182/1	Method Blank	Total/NA	Solid	D2216	
880-29221-1 DU	SW94Y-1 (0-1)	Total/NA	Solid	D2216	
880-29221-11 DU	SW94Y-3 (2-3)	Total/NA	Solid	D2216	

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-1 (0-1)
Date Collected: 06/06/23 09:40
Date Received: 06/07/23 09:36

Lab Sample ID: 880-29221-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			55182	06/09/23 17:05	KS	EET MID

Client Sample ID: SW94Y-1 (0-1)
Date Collected: 06/06/23 09:40
Date Received: 06/07/23 09:36

Lab Sample ID: 880-29221-1
Matrix: Solid
Percent Solids: 87.2

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	55169	06/09/23 15:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55090	06/11/23 04:51	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	55017	06/08/23 09:40	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55207	06/10/23 11:18	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	54964	06/07/23 12:24	KS	EET MID
Soluble	Analysis	300.0		10			55057	06/09/23 01:20	CH	EET MID

Client Sample ID: SW94Y-1 (1-2)
Date Collected: 06/06/23 09:45
Date Received: 06/07/23 09:36

Lab Sample ID: 880-29221-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			55182	06/09/23 17:05	KS	EET MID

Client Sample ID: SW94Y-1 (1-2)
Date Collected: 06/06/23 09:45
Date Received: 06/07/23 09:36

Lab Sample ID: 880-29221-2
Matrix: Solid
Percent Solids: 84.3

Prep 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	55169	06/09/23 15:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55090	06/11/23 05:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	55017	06/08/23 09:40	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55207	06/10/23 12:24	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	54964	06/07/23 12:24	KS	EET MID
Soluble	Analysis	300.0		5			55057	06/09/23 01:36	CH	EET MID

Client Sample ID: SW94Y-1 (2-3)
Date Collected: 06/06/23 09:47
Date Received: 06/07/23 09:36

Lab Sample ID: 880-29221-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			55182	06/09/23 17:05	KS	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-1 (2-3)

Lab Sample ID: 880-29221-3
Date Collected: 06/06/23 09:47
Matrix: Solid
Date Received: 06/07/23 09:36
Percent Solids: 73.3

Prep 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	55169	06/09/23 15:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55090	06/11/23 05:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	55017	06/08/23 09:40	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55207	06/10/23 12:46	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	54964	06/07/23 12:24	KS	EET MID
Soluble	Analysis	300.0		5			55057	06/09/23 01:41	CH	EET MID

Client Sample ID: SW94Y-1 (3-4)

Lab Sample ID: 880-29221-4
Date Collected: 06/06/23 09:50
Matrix: Solid
Date Received: 06/07/23 09:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			55182	06/09/23 17:05	KS	EET MID

Client Sample ID: SW94Y-1 (3-4)

Lab Sample ID: 880-29221-4
Date Collected: 06/06/23 09:50
Matrix: Solid
Date Received: 06/07/23 09:36
Percent Solids: 87.2

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	55169	06/09/23 15:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55090	06/11/23 05:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	55017	06/08/23 09:40	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55207	06/10/23 13:08	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	54964	06/07/23 12:24	KS	EET MID
Soluble	Analysis	300.0		10			55057	06/09/23 01:46	CH	EET MID

Client Sample ID: SW94Y-2 (0-1)

Lab Sample ID: 880-29221-5
Date Collected: 06/06/23 09:53
Matrix: Solid
Date Received: 06/07/23 09:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			55182	06/09/23 17:05	KS	EET MID

Client Sample ID: SW94Y-2 (0-1)

Lab Sample ID: 880-29221-5
Date Collected: 06/06/23 09:53
Matrix: Solid
Date Received: 06/07/23 09:36
Percent Solids: 88.1

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	55169	06/09/23 15:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55090	06/11/23 06:12	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	55017	06/08/23 09:40	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55207	06/10/23 13:30	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	54964	06/07/23 12:24	KS	EET MID
Soluble	Analysis	300.0		10			55057	06/09/23 01:52	CH	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-2 (1-2)

Lab Sample ID: 880-29221-6
Date Collected: 06/06/23 09:58
Matrix: Solid
Date Received: 06/07/23 09:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			55182	06/09/23 17:05	KS	EET MID

Client Sample ID: SW94Y-2 (1-2)

Lab Sample ID: 880-29221-6
Date Collected: 06/06/23 09:58
Matrix: Solid
Date Received: 06/07/23 09:36
Percent Solids: 85.7

Prep 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	55169	06/09/23 15:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55090	06/11/23 06:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	55017	06/08/23 09:40	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55207	06/10/23 13:52	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	54964	06/07/23 12:24	KS	EET MID
Soluble	Analysis	300.0		5			55057	06/09/23 02:08	CH	EET MID

Client Sample ID: SW94Y-2 (2-3)

Lab Sample ID: 880-29221-7
Date Collected: 06/06/23 10:01
Matrix: Solid
Date Received: 06/07/23 09:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			55182	06/09/23 17:05	KS	EET MID

Client Sample ID: SW94Y-2 (2-3)

Lab Sample ID: 880-29221-7
Date Collected: 06/06/23 10:01
Matrix: Solid
Date Received: 06/07/23 09:36
Percent Solids: 87.8

Prep 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	55169	06/09/23 15:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55090	06/11/23 06:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	55017	06/08/23 09:40	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55207	06/10/23 14:14	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	54964	06/07/23 12:24	KS	EET MID
Soluble	Analysis	300.0		5			55057	06/09/23 02:13	CH	EET MID

Client Sample ID: SW94Y-2 (3-4)

Lab Sample ID: 880-29221-8
Date Collected: 06/06/23 10:05
Matrix: Solid
Date Received: 06/07/23 09:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			55182	06/09/23 17:05	KS	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-2 (3-4)

Lab Sample ID: 880-29221-8
Date Collected: 06/06/23 10:05
Matrix: Solid
Date Received: 06/07/23 09:36
Percent Solids: 88.6

Prep 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	55169	06/09/23 15:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55090	06/11/23 07:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	55017	06/08/23 09:40	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55207	06/10/23 14:36	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	54964	06/07/23 12:24	KS	EET MID
Soluble	Analysis	300.0		1			55057	06/09/23 02:18	CH	EET MID

Client Sample ID: SW94Y-3 (0-1)

Lab Sample ID: 880-29221-9
Date Collected: 06/06/23 10:10
Matrix: Solid
Date Received: 06/07/23 09:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			55182	06/09/23 17:05	KS	EET MID

Client Sample ID: SW94Y-3 (0-1)

Lab Sample ID: 880-29221-9
Date Collected: 06/06/23 10:10
Matrix: Solid
Date Received: 06/07/23 09:36
Percent Solids: 84.4

Prep 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	55169	06/09/23 15:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55090	06/11/23 07:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	55017	06/08/23 09:40	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55207	06/10/23 14:57	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	54964	06/07/23 12:24	KS	EET MID
Soluble	Analysis	300.0		1			55057	06/09/23 02:24	CH	EET MID

Client Sample ID: SW94Y-3 (1-2)

Lab Sample ID: 880-29221-10
Date Collected: 06/06/23 10:14
Matrix: Solid
Date Received: 06/07/23 09:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			55182	06/09/23 17:05	KS	EET MID

Client Sample ID: SW94Y-3 (1-2)

Lab Sample ID: 880-29221-10
Date Collected: 06/06/23 10:14
Matrix: Solid
Date Received: 06/07/23 09:36
Percent Solids: 83.2

Prep 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	55169	06/09/23 15:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55090	06/11/23 07:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	55017	06/08/23 09:40	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55207	06/10/23 15:19	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	54964	06/07/23 12:24	KS	EET MID
Soluble	Analysis	300.0		1			55057	06/09/23 02:29	CH	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-3 (2-3)
Date Collected: 06/06/23 10:18
Date Received: 06/07/23 09:36

Lab Sample ID: 880-29221-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			55182	06/09/23 17:05	KS	EET MID

Client Sample ID: SW94Y-3 (2-3)
Date Collected: 06/06/23 10:18
Date Received: 06/07/23 09:36

Lab Sample ID: 880-29221-11
Matrix: Solid
Percent Solids: 86.7

Prep 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	55211	06/10/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55345	06/13/23 23:13	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	55017	06/08/23 09:40	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55207	06/10/23 16:03	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	54964	06/07/23 12:24	KS	EET MID
Soluble	Analysis	300.0		1			55057	06/09/23 02:34	CH	EET MID

Client Sample ID: SW94Y-3 (3-4)
Date Collected: 06/06/23 10:20
Date Received: 06/07/23 09:36

Lab Sample ID: 880-29221-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			55182	06/09/23 17:05	KS	EET MID

Client Sample ID: SW94Y-3 (3-4)
Date Collected: 06/06/23 10:20
Date Received: 06/07/23 09:36

Lab Sample ID: 880-29221-12
Matrix: Solid
Percent Solids: 83.9

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	55211	06/10/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55345	06/13/23 23:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	55017	06/08/23 09:40	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55207	06/10/23 16:25	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	54964	06/07/23 12:24	KS	EET MID
Soluble	Analysis	300.0		5			55057	06/09/23 02:50	CH	EET MID

Client Sample ID: SW94Y-4 (0-1)
Date Collected: 06/06/23 10:22
Date Received: 06/07/23 09:36

Lab Sample ID: 880-29221-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			55182	06/09/23 17:05	KS	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-4 (0-1)

Lab Sample ID: 880-29221-13
Date Collected: 06/06/23 10:22
Matrix: Solid
Date Received: 06/07/23 09:36
Percent Solids: 88.6

Prep 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	55211	06/10/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55345	06/14/23 00:04	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	55017	06/08/23 09:40	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55207	06/10/23 16:47	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	54964	06/07/23 12:24	KS	EET MID
Soluble	Analysis	300.0		1			55057	06/09/23 02:56	CH	EET MID

Client Sample ID: SW94Y-4 (1-2)

Lab Sample ID: 880-29221-14
Date Collected: 06/06/23 10:25
Matrix: Solid
Date Received: 06/07/23 09:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			55182	06/09/23 17:05	KS	EET MID

Client Sample ID: SW94Y-4 (1-2)

Lab Sample ID: 880-29221-14
Date Collected: 06/06/23 10:25
Matrix: Solid
Date Received: 06/07/23 09:36
Percent Solids: 87.3

Prep 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	55211	06/10/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55345	06/14/23 00:29	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	55017	06/08/23 09:40	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55207	06/10/23 17:09	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	54964	06/07/23 12:24	KS	EET MID
Soluble	Analysis	300.0		1			55057	06/09/23 03:12	CH	EET MID

Client Sample ID: SW94Y-4 (2-3)

Lab Sample ID: 880-29221-15
Date Collected: 06/06/23 10:28
Matrix: Solid
Date Received: 06/07/23 09:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			55182	06/09/23 17:05	KS	EET MID

Client Sample ID: SW94Y-4 (2-3)

Lab Sample ID: 880-29221-15
Date Collected: 06/06/23 10:28
Matrix: Solid
Date Received: 06/07/23 09:36
Percent Solids: 88.9

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	55211	06/10/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55345	06/14/23 00:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	55017	06/08/23 09:40	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55207	06/10/23 17:31	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	54964	06/07/23 12:24	KS	EET MID
Soluble	Analysis	300.0		1			55057	06/09/23 03:17	CH	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-4 (3-4)
Date Collected: 06/06/23 10:31
Date Received: 06/07/23 09:36

Lab Sample ID: 880-29221-16
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	D2216		1			55182	06/09/23 17:05	KS	EET MID

Client Sample ID: SW94Y-4 (3-4)
Date Collected: 06/06/23 10:31
Date Received: 06/07/23 09:36

Lab Sample ID: 880-29221-16
Matrix: Solid
Percent Solids: 87.4

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	55211	06/10/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55345	06/14/23 01:20	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	55017	06/08/23 09:40	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55207	06/10/23 17:53	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	54964	06/07/23 12:24	KS	EET MID
Soluble	Analysis	300.0		1			55057	06/09/23 03:23	CH	EET MID

Client Sample ID: SW94Y-5 (0-1)
Date Collected: 06/06/23 10:35
Date Received: 06/07/23 09:36

Lab Sample ID: 880-29221-17
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	D2216		1			55182	06/09/23 17:05	KS	EET MID

Client Sample ID: SW94Y-5 (0-1)
Date Collected: 06/06/23 10:35
Date Received: 06/07/23 09:36

Lab Sample ID: 880-29221-17
Matrix: Solid
Percent Solids: 89.9

Prep 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	55211	06/10/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55345	06/14/23 01:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	55017	06/08/23 09:40	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55207	06/10/23 18:14	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	54964	06/07/23 12:24	KS	EET MID
Soluble	Analysis	300.0		1			55057	06/09/23 03:28	CH	EET MID

Client Sample ID: SW94Y-5 (1-2)
Date Collected: 06/06/23 10:40
Date Received: 06/07/23 09:36

Lab Sample ID: 880-29221-18
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	D2216		1			55182	06/09/23 17:05	KS	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-5 (1-2)

Lab Sample ID: 880-29221-18
Date Collected: 06/06/23 10:40
Matrix: Solid
Date Received: 06/07/23 09:36
Percent Solids: 88.1

Prep 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	55211	06/10/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55345	06/14/23 02:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	55017	06/08/23 09:40	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55207	06/10/23 18:37	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	54964	06/07/23 12:24	KS	EET MID
Soluble	Analysis	300.0		1			55057	06/09/23 03:33	CH	EET MID

Client Sample ID: SW94Y-5 (2-3)

Lab Sample ID: 880-29221-19
Date Collected: 06/06/23 10:45
Matrix: Solid
Date Received: 06/07/23 09:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			55182	06/09/23 17:06	KS	EET MID

Client Sample ID: SW94Y-5 (2-3)

Lab Sample ID: 880-29221-19
Date Collected: 06/06/23 10:45
Matrix: Solid
Date Received: 06/07/23 09:36
Percent Solids: 86.1

Prep 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	55211	06/10/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55345	06/14/23 02:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	55017	06/08/23 09:40	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55207	06/10/23 18:59	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	54964	06/07/23 12:24	KS	EET MID
Soluble	Analysis	300.0		1			55057	06/09/23 03:39	CH	EET MID

Client Sample ID: SW94Y-5 (3-4)

Lab Sample ID: 880-29221-20
Date Collected: 06/06/23 10:48
Matrix: Solid
Date Received: 06/07/23 09:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			55182	06/09/23 17:06	KS	EET MID

Client Sample ID: SW94Y-5 (3-4)

Lab Sample ID: 880-29221-20
Date Collected: 06/06/23 10:48
Matrix: Solid
Date Received: 06/07/23 09:36
Percent Solids: 88.9

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	55211	06/10/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55345	06/14/23 03:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.010 g	10 mL	55017	06/08/23 09:40	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55207	06/10/23 19:21	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	54964	06/07/23 12:24	KS	EET MID
Soluble	Analysis	300.0		1			55057	06/09/23 03:44	CH	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-5 (4-5)
Date Collected: 06/06/23 10:50
Date Received: 06/07/23 09:36

Lab Sample ID: 880-29221-21
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	D2216		1			55178	06/09/23 16:56	KS	EET MID

Client Sample ID: SW94Y-5 (4-5)
Date Collected: 06/06/23 10:50
Date Received: 06/07/23 09:36

Lab Sample ID: 880-29221-21
Matrix: Solid
Percent Solids: 86.6

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	55211	06/10/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55345	06/14/23 04:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	55021	06/08/23 09:44	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55082	06/09/23 10:55	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	54965	06/07/23 12:25	KS	EET MID
Soluble	Analysis	300.0		1			55161	06/09/23 14:55	CH	EET MID

Client Sample ID: SW94Y-6 (0-1)
Date Collected: 06/06/23 11:05
Date Received: 06/07/23 09:36

Lab Sample ID: 880-29221-22
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	D2216		1			55178	06/09/23 16:56	KS	EET MID

Client Sample ID: SW94Y-6 (0-1)
Date Collected: 06/06/23 11:05
Date Received: 06/07/23 09:36

Lab Sample ID: 880-29221-22
Matrix: Solid
Percent Solids: 84.6

Prep 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	55211	06/10/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55345	06/14/23 05:09	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	55021	06/08/23 09:44	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55082	06/09/23 12:01	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	54965	06/07/23 12:25	KS	EET MID
Soluble	Analysis	300.0		5			55161	06/09/23 15:01	CH	EET MID

Client Sample ID: SW94Y-8 (0-1)
Date Collected: 06/06/23 12:10
Date Received: 06/07/23 09:36

Lab Sample ID: 880-29221-23
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	D2216		1			55178	06/09/23 16:56	KS	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-8 (0-1)

Date Collected: 06/06/23 12:10
Date Received: 06/07/23 09:36

Lab Sample ID: 880-29221-23

Matrix: Solid
Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	55211	06/10/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55345	06/14/23 05:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	55021	06/08/23 09:44	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55082	06/09/23 14:13	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	54965	06/07/23 12:25	KS	EET MID
Soluble	Analysis	300.0		1			55161	06/09/23 15:06	CH	EET MID

Client Sample ID: SW94Y-8 (3-4)

Date Collected: 06/06/23 12:15
Date Received: 06/07/23 09:36

Lab Sample ID: 880-29221-24

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	D2216		1			55178	06/09/23 16:56	KS	EET MID

Client Sample ID: SW94Y-8 (3-4)

Date Collected: 06/06/23 12:15
Date Received: 06/07/23 09:36

Lab Sample ID: 880-29221-24

Matrix: Solid
Percent Solids: 90.6

Prep 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	55211	06/10/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55345	06/14/23 06:00	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	55021	06/08/23 09:44	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55082	06/09/23 14:35	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	54965	06/07/23 12:25	KS	EET MID
Soluble	Analysis	300.0		1			55161	06/09/23 15:11	CH	EET MID

Client Sample ID: SW94Y-9 (0-1)

Date Collected: 06/06/23 12:20
Date Received: 06/07/23 09:36

Lab Sample ID: 880-29221-25

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	D2216		1			55178	06/09/23 16:56	KS	EET MID

Client Sample ID: SW94Y-9 (0-1)

Date Collected: 06/06/23 12:20
Date Received: 06/07/23 09:36

Lab Sample ID: 880-29221-25

Matrix: Solid
Percent Solids: 90.7

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	55211	06/10/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55345	06/14/23 06:25	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	55021	06/08/23 09:44	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55082	06/09/23 14:57	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	54965	06/07/23 12:25	KS	EET MID
Soluble	Analysis	300.0		1			55161	06/09/23 15:17	CH	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-9 (2-3)
Date Collected: 06/06/23 12:25
Date Received: 06/07/23 09:36

Lab Sample ID: 880-29221-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			55178	06/09/23 16:56	KS	EET MID

Client Sample ID: SW94Y-9 (2-3)
Date Collected: 06/06/23 12:25
Date Received: 06/07/23 09:36

Lab Sample ID: 880-29221-26
Matrix: Solid
Percent Solids: 90.2

Prep 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	55211	06/10/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55345	06/14/23 06:51	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	55021	06/08/23 09:44	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55082	06/09/23 15:41	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	54965	06/07/23 12:25	KS	EET MID
Soluble	Analysis	300.0		1			55161	06/09/23 15:22	CH	EET MID

Client Sample ID: SW94Y-9 (4-5)
Date Collected: 06/06/23 12:30
Date Received: 06/07/23 09:36

Lab Sample ID: 880-29221-27
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	D2216		1			55178	06/09/23 16:56	KS	EET MID

Client Sample ID: SW94Y-9 (4-5)
Date Collected: 06/06/23 12:30
Date Received: 06/07/23 09:36

Lab Sample ID: 880-29221-27
Matrix: Solid
Percent Solids: 92.4

Prep 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	55211	06/10/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55345	06/14/23 07:18	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	55021	06/08/23 09:44	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55082	06/09/23 16:04	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	54965	06/07/23 12:25	KS	EET MID
Soluble	Analysis	300.0		1			55161	06/09/23 15:38	CH	EET MID

Client Sample ID: SW94Y-10 (0-1)
Date Collected: 06/06/23 12:35
Date Received: 06/07/23 09:36

Lab Sample ID: 880-29221-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			55178	06/09/23 16:56	KS	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-10 (0-1)

Lab Sample ID: 880-29221-28
Date Collected: 06/06/23 12:35
Matrix: Solid
Date Received: 06/07/23 09:36
Percent Solids: 90.1

Prep 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	55211	06/10/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55345	06/14/23 07:45	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	55021	06/08/23 09:44	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55082	06/09/23 16:26	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	54965	06/07/23 12:25	KS	EET MID
Soluble	Analysis	300.0		1			55161	06/09/23 15:44	CH	EET MID

Client Sample ID: SW94Y-16 (0-1)

Lab Sample ID: 880-29221-29
Date Collected: 06/06/23 14:00
Matrix: Solid
Date Received: 06/07/23 09:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			55178	06/09/23 16:56	KS	EET MID

Client Sample ID: SW94Y-16 (0-1)

Lab Sample ID: 880-29221-29
Date Collected: 06/06/23 14:00
Matrix: Solid
Date Received: 06/07/23 09:36
Percent Solids: 93.4

Prep 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	55211	06/10/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55345	06/14/23 08:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	55021	06/08/23 09:44	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55082	06/09/23 16:48	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	54965	06/07/23 12:25	KS	EET MID
Soluble	Analysis	300.0		1			55161	06/09/23 16:01	CH	EET MID

Client Sample ID: SW94Y-16 (3-4)

Lab Sample ID: 880-29221-30
Date Collected: 06/06/23 14:05
Matrix: Solid
Date Received: 06/07/23 09:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			55178	06/09/23 16:56	KS	EET MID

Client Sample ID: SW94Y-16 (3-4)

Lab Sample ID: 880-29221-30
Date Collected: 06/06/23 14:05
Matrix: Solid
Date Received: 06/07/23 09:36
Percent Solids: 91.6

Prep 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	55211	06/10/23 13:37	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55345	06/14/23 08:57	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	55021	06/08/23 09:44	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55082	06/09/23 17:10	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	54965	06/07/23 12:25	KS	EET MID
Soluble	Analysis	300.0		1			55161	06/09/23 16:06	CH	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-17 (0-1)
Date Collected: 06/06/23 14:10
Date Received: 06/07/23 09:36

Lab Sample ID: 880-29221-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			55178	06/09/23 16:56	KS	EET MID

Client Sample ID: SW94Y-17 (0-1)
Date Collected: 06/06/23 14:10
Date Received: 06/07/23 09:36

Lab Sample ID: 880-29221-31
Matrix: Solid
Percent Solids: 91.5

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	55214	06/10/23 15:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55553	06/16/23 01:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	55021	06/08/23 09:44	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55082	06/09/23 17:33	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	54965	06/07/23 12:25	KS	EET MID
Soluble	Analysis	300.0		1			55161	06/09/23 16:11	CH	EET MID

Client Sample ID: SW94Y-17 (1-2)
Date Collected: 06/06/23 14:12
Date Received: 06/07/23 09:36

Lab Sample ID: 880-29221-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			55178	06/09/23 16:56	KS	EET MID

Client Sample ID: SW94Y-17 (1-2)
Date Collected: 06/06/23 14:12
Date Received: 06/07/23 09:36

Lab Sample ID: 880-29221-32
Matrix: Solid
Percent Solids: 95.2

Prep 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	55214	06/10/23 15:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55553	06/16/23 01:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	55021	06/08/23 09:44	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55082	06/09/23 17:55	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	54965	06/07/23 12:25	KS	EET MID
Soluble	Analysis	300.0		1			55161	06/09/23 16:17	CH	EET MID

Client Sample ID: SW94Y-17 (2-3)
Date Collected: 06/06/23 14:16
Date Received: 06/07/23 09:36

Lab Sample ID: 880-29221-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			55178	06/09/23 16:56	KS	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Client Sample ID: SW94Y-17 (2-3)

Lab Sample ID: 880-29221-33
Date Collected: 06/06/23 14:16
Matrix: Solid
Date Received: 06/07/23 09:36
Percent Solids: 89.5

Prep 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	55214	06/10/23 15:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55553	06/16/23 02:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	55021	06/08/23 09:44	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55082	06/09/23 18:18	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	54965	06/07/23 12:25	KS	EET MID
Soluble	Analysis	300.0		1			55161	06/09/23 16:22	CH	EET MID

Client Sample ID: SW94Y-18 (0-1)

Lab Sample ID: 880-29221-34
Date Collected: 06/06/23 14:30
Matrix: Solid
Date Received: 06/07/23 09:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			55178	06/09/23 16:56	KS	EET MID

Client Sample ID: SW94Y-18 (0-1)

Lab Sample ID: 880-29221-34
Date Collected: 06/06/23 14:30
Matrix: Solid
Date Received: 06/07/23 09:36
Percent Solids: 95.9

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	55214	06/10/23 15:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55553	06/16/23 02:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	55021	06/08/23 09:44	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55082	06/09/23 18:40	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	54965	06/07/23 12:25	KS	EET MID
Soluble	Analysis	300.0		1			55161	06/09/23 16:28	CH	EET MID

Client Sample ID: SW94Y-BG (0-1)

Lab Sample ID: 880-29221-35
Date Collected: 06/06/23 14:40
Matrix: Solid
Date Received: 06/07/23 09:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			55178	06/09/23 16:56	KS	EET MID

Client Sample ID: SW94Y-BG (0-1)

Lab Sample ID: 880-29221-35
Date Collected: 06/06/23 14:40
Matrix: Solid
Date Received: 06/07/23 09:36
Percent Solids: 97.2

Prep 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	55176	06/09/23 16:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55243	06/12/23 18:16	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	55021	06/08/23 09:44	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55082	06/09/23 19:02	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	54965	06/07/23 12:25	KS	EET MID
Soluble	Analysis	300.0		1			55161	06/09/23 16:33	CH	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Laboratory References:

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

Accreditation/Certification Summary

Client: Civil & Environmental Consultants Inc
Job ID: 880-29221-1
Project/Site: Seawolf 1 12 Federal 94Y
SDG: Jal, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

Method Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
D2216	Percent Moisture	ASTM	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal 94Y

Job ID: 880-29221-1
SDG: Jal, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-29221-1	SW94Y-1 (0-1)	Solid	06/06/23 09:40	06/07/23 09:36	0-1
880-29221-2	SW94Y-1 (1-2)	Solid	06/06/23 09:45	06/07/23 09:36	1-2
880-29221-3	SW94Y-1 (2-3)	Solid	06/06/23 09:47	06/07/23 09:36	2-3
880-29221-4	SW94Y-1 (3-4)	Solid	06/06/23 09:50	06/07/23 09:36	3-4
880-29221-5	SW94Y-2 (0-1)	Solid	06/06/23 09:53	06/07/23 09:36	0-1
880-29221-6	SW94Y-2 (1-2)	Solid	06/06/23 09:58	06/07/23 09:36	1-2
880-29221-7	SW94Y-2 (2-3)	Solid	06/06/23 10:01	06/07/23 09:36	2-3
880-29221-8	SW94Y-2 (3-4)	Solid	06/06/23 10:05	06/07/23 09:36	3-4
880-29221-9	SW94Y-3 (0-1)	Solid	06/06/23 10:10	06/07/23 09:36	0-1
880-29221-10	SW94Y-3 (1-2)	Solid	06/06/23 10:14	06/07/23 09:36	1-2
880-29221-11	SW94Y-3 (2-3)	Solid	06/06/23 10:18	06/07/23 09:36	2-3
880-29221-12	SW94Y-3 (3-4)	Solid	06/06/23 10:20	06/07/23 09:36	3-4
880-29221-13	SW94Y-4 (0-1)	Solid	06/06/23 10:22	06/07/23 09:36	0-1
880-29221-14	SW94Y-4 (1-2)	Solid	06/06/23 10:25	06/07/23 09:36	1-2
880-29221-15	SW94Y-4 (2-3)	Solid	06/06/23 10:28	06/07/23 09:36	2-3
880-29221-16	SW94Y-4 (3-4)	Solid	06/06/23 10:31	06/07/23 09:36	3-4
880-29221-17	SW94Y-5 (0-1)	Solid	06/06/23 10:35	06/07/23 09:36	0-1
880-29221-18	SW94Y-5 (1-2)	Solid	06/06/23 10:40	06/07/23 09:36	1-2
880-29221-19	SW94Y-5 (2-3)	Solid	06/06/23 10:45	06/07/23 09:36	2-3
880-29221-20	SW94Y-5 (3-4)	Solid	06/06/23 10:48	06/07/23 09:36	3-4
880-29221-21	SW94Y-5 (4-5)	Solid	06/06/23 10:50	06/07/23 09:36	4-5
880-29221-22	SW94Y-6 (0-1)	Solid	06/06/23 11:05	06/07/23 09:36	0-1
880-29221-23	SW94Y-8 (0-1)	Solid	06/06/23 12:10	06/07/23 09:36	0-1
880-29221-24	SW94Y-8 (3-4)	Solid	06/06/23 12:15	06/07/23 09:36	3-4
880-29221-25	SW94Y-9 (0-1)	Solid	06/06/23 12:20	06/07/23 09:36	0-1
880-29221-26	SW94Y-9 (2-3)	Solid	06/06/23 12:25	06/07/23 09:36	2-3
880-29221-27	SW94Y-9 (4-5)	Solid	06/06/23 12:30	06/07/23 09:36	4-5
880-29221-28	SW94Y-10 (0-1)	Solid	06/06/23 12:35	06/07/23 09:36	0-1
880-29221-29	SW94Y-16 (0-1)	Solid	06/06/23 14:00	06/07/23 09:36	0-1
880-29221-30	SW94Y-16 (3-4)	Solid	06/06/23 14:05	06/07/23 09:36	3-4
880-29221-31	SW94Y-17 (0-1)	Solid	06/06/23 14:10	06/07/23 09:36	0-1
880-29221-32	SW94Y-17 (1-2)	Solid	06/06/23 14:12	06/07/23 09:36	1-2
880-29221-33	SW94Y-17 (2-3)	Solid	06/06/23 14:16	06/07/23 09:36	2-3
880-29221-34	SW94Y-18 (0-1)	Solid	06/06/23 14:30	06/07/23 09:36	0-1
880-29221-35	SW94Y-BG (0-1)	Solid	06/06/23 14:40	06/07/23 09:36	0-1

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Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

880-29221 Chain of Custody

Work Order No: 21126164
Eurofins 8800 1737

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Project Manager	Laura Campbell lcampbell@cecinc.com	Bill to (if different)	Dale Woodall
Company Name	Civil & Environmental Consultants, Inc	Company Name	Devon Energy
Address	700 Cherrington Parkway	Address	
City, State ZIP	Moon Twp, PA, 15108	City, State ZIP	Hobbs NM 88240
Phone	412-249-1547 Email	Dale woodall@dvn.com	Reference project name and Devon WO on invoice

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	Seawolf 1 12 Federal 94Y	Turn Around	
Project Number	CEC 331-073	☒ Routine ☐ Rush	
Project Location	Jal NM	Due Date	
Sampler's Name	L. Campbell	TAT starts the day received by the lab if received by 4 30pm	
PO #	Devon WO 21126164		

SAMPLE RECEIPT			
Temp Blank	Yes (No)	Wet Ice	(Yes) No
Samples Received Intact	(Yes) No	Thermometer ID	T8
Cooler Custody Seals	Yes No (N/A)	Correction Factor	-.30
Sample Custody Seals	Yes No (N/A)	Temperature Reading	0.6
Total Containers		Corrected Temperature	0.3

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chloride by Method 300 0 (NO)	8015Mod-NM Full TPH (NO)	BTEXT by 8021 (NO)	Moisture (NO)
SW944-1 (0-1)	S	6/6/23	0940	0-1	G	2		X	X	X	X
SW944-1 (1-2)			0945	1-2							
SW944-1 (2-3)			0947	2-3							
SW944-1 (3-4)			0950	3-4							
SW-944-2 (0-1)			0953	0-1							
SW-944-2 (1-2)			0958	1-2							
SW944-2 (2-3)			1001	2-3							
SW944-2 (3-4)			1005	3-4							
SW944-3 (0-1)			1010	0-1							
SW944-3 (1-2)			~~1015~~ 1014	1-2							

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL HC HNO_3 HN
H_2SO_4 H_2 NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Comments

All times are MST

4oz

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 Tl 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.

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Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Work Order No: 29221

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Project Manager	Laura Campbell lcampbell@cecinc.com	Bill to (if different)	Dale Woodall
Company Name	Civil & Environmental Consultants, Inc	Company Name	Devon Energy
Address	700 Cherrington Parkway	Address	
City, State ZIP	Moon Twp, PA, 15108	City, State ZIP	Hobbs NM 88240
Phone	412-249-1547	Email	Dale.woodall@dvn.com

Reference project name and Devon WO on invoice

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:	Seawolf 1-12 Federal 94Y	Turn Around	
Project Number	CEC 331-073	☒ Routine ☐ Rush	
Project Location	Jal NM	Due Date	
Sampler's Name	L. Campbell	TAT starts the day received by the lab if received by 4 30pm	
PO #	Devon WO 21126164		

SAMPLE RECEIPT				
Temp Blank	Yes No	Wet Ice	Yes No	
Samples Received Intact	Yes No	Thermometer ID		
Cooler Custody Seals	Yes No N/A	Correction Factor		
Sample Custody Seals	Yes No N/A	Temperature Reading		
Total Containers		Corrected Temperature		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chloride by Method 300 0 (NO)	8015Mod-NM Full TPH (NO)	BTEXT by 8021 (NO)	Moisture (NO)
SW94Y-3 (2-3)	S	6/6/23	1018	2-3	G	2		X	X	X	X
SW94Y-3 (3-4)			1020	3-4							
SW94Y-4 (0-1)			1022	0-1							
SW94Y-4 (1-2)			1025	1-2							
SW94Y-4 (2-3)			1028	2-3							
SW94Y-4 (3-4)			1031	3-4							
SW94Y-5 (0-1)			1035	0-1							
SW94Y-5 (1-2)			1040	1-2							
SW94Y-5 (2-3)			1045	2-3							
SW94-5 (3-4)			1048	3-4							

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL HC HNO_3 HN
H_2SO_4 H_2 NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Comments

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 Tl U Hg 1631 / 245.1 / 7470 / 7471

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Work Order No: 29221

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Project Manager	Laura Campbell lcampbell@cecinc.com	Bill to (if different)	Dale Woodall
Company Name	Civil & Environmental Consultants, Inc	Company Name	Devon Energy
Address	700 Cherrington Parkway	Address	
City, State ZIP	Moon Twp, PA, 15108	City, State ZIP	Hobbs NM 88240
Phone	412-249-1547 Email	Dale woodall@dvn.com	Reference project name and Devon WO on invoice

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	Seawolf 1-12 Federal 94Y	Turn Around	
Project Number	CEC 331-073	☒ Routine ☐ Rush	
Project Location	Jal NM	Due Date	
Sampler's Name	L Campbell	TAT starts the day received by the lab if received by 4:30pm	
PO #	Devon WO 21126164		

SAMPLE RECEIPT	Temp Blank	Yes No	Wet Ice	Yes No
Samples Received Intact	Yes No		Thermometer ID	
Cooler Custody Seals	Yes No N/A		Correction Factor	
Sample Custody Seals	Yes No N/A		Temperature Reading	
Total Containers			Corrected Temperature	

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL HC HNO_3 HN
H_2S0_4 H_2 NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chloride by Method 300.0	8015Mod-NM Full TPH	BTEXT by 8021	Moisture	Sample Comments
SW944-5 (4-5)	S	6/6/23	1050	4-5	G	2	NO	X	X	X	X	
SW944-6 (0-1)			1105	0-1								
SW944-8 (0-1)			1210	0-1								
SW944-8 (3-4)			1215	3-4								
SW944-9 (0-1)			1220	0-1								
SW944-9 (2-3)			1225	2-3								
SW944-9 (4-5)			1230	4-5								
SW944-10 (0-1)			1235	0-1								
SW944-16 (0-1)			1400	0-1								
SW944-16 (3-4)			1405	3-4								

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 Tl U Hg 1631 / 245.1 / 7470 / 7471

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Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Work Order No: 29221

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Project Manager	Laura Campbell lcampbell@cecinc.com	Bill to (if different)	Dale Woodall
Company Name	Civil & Environmental Consultants, Inc	Company Name	Devon Energy
Address	700 Cherrington Parkway	Address	
City, State ZIP	Moon Twp, PA, 15108	City, State ZIP	Hobbs NM 88240
Phone	412-249-1547 Email	Dale woodall@dvn.com	Reference project name and Devon WO on invoice

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	~~Seawolf 1-12 Federal 94Y~~	Turn Around	
Project Number	CEC 331-073	☒ Routine ☐ Rush	
Project Location	Jal NM	Due Date	
Sampler's Name	L Campbell	TAT starts the day received by the lab if received by 4 30pm	
PO #	Devon WO 21126164		

SAMPLE RECEIPT	Temp Blank	Yes No	Wet Ice	Yes No
Samples Received Intact	Yes No		Thermometer ID	
Cooler Custody Seals	Yes No N/A		Correction Factor	
Sample Custody Seals	Yes No N/A		Temperature Reading	
Total Containers			Corrected Temperature	

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL HC HNO_3 HN
H_2SO_4 H_2 NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chloride by Method 300 0 (NO)	8015Mod-NM Full TPH (NO)	BTEXT by 8021 (NO)	Moisture (NO)	Sample Comments
SW944-17 (0-1)	S	6/6/23	1410	0-1	G	2		X	X	X	X	
SW944-17 (1-2)			1412	1-2								
SW944-17 (2-3)			1416	2-3								
SW944-18 (0-1)			1430	0-1								
SW944-BG (0-1)			1440	0-1								

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 Tl 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.

Released to Imaging: 12/27/2024 8:50:37 AM
Received by OCD: 12/18/2024 11:14:17 AM

29221 ~~Page 8 of 8~~

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1		6/7/23 0935	2		
3			4		
5			6		

Revised Date 08/25/2020 Rev 2020.2

Loc. 880
29221

Login Sample Receipt Checklist

Client: Civil & Environmental Consultants Inc

Job Number: 880-29221-1
SDG Number: Jal, NM

Login Number: 29221
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Laura Campbell
Civil & Environmental Consultants Inc
700 Cherrington Parkway
Moon Township, Pennsylvania 15108

Generated 9/27/2023 10:58:49 AM

JOB DESCRIPTION

Seawolf 1 12 Federal #094Y

JOB NUMBER

880-33482-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 12/27/2024 8:30:37 AM

my EOL

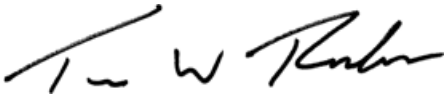
Eurofins Midland

Job Notes

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

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

Authorization



Generated
9/27/2023 10:58:49 AM

Authorized for release by
Travis Richter, Project Manager
Travis.Richter@et.eurofinsus.com
(281)794-7216

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal #094Y

Laboratory Job ID: 880-33482-1

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Definitions/Glossary

Client: Civil & Environmental Consultants Inc Job ID: 880-33482-1
Project/Site: Seawolf 1 12 Federal #094Y

Qualifiers

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, 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: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal #094Y

Job ID: 880-33482-1

Job ID: 880-33482-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-33482-1

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

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

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

Receipt
The samples were received on 9/21/2023 11:46 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BH 19 @ 0-1' (880-33482-1), BH 19 @ 3-4' (880-33482-2), BH-20 @ 0-1' (880-33482-3), BH-20 @ 1-2' (880-33482-4), BH-21 @ 0-1' (880-33482-5), BH-21 @ 1-2' (880-33482-6), BH-22 @ 0-1' (880-33482-7), BH-22 @ 1-2' (880-33482-8), BH-23 @ 0-1' (880-33482-9), BH-23 @ 1-2' (880-33482-10), BH-24 @ 0-1' (880-33482-11), BH-24 @ 1-2' (880-33482-12), BH-25 @ 0-1' (880-33482-13), BH-25 @ 1-2' (880-33482-14), BH-26 @ 0-1' (880-33482-15), BH-26 @ 3-4' (880-33482-16), BH-27 @ 0-1' (880-33482-17), BH-27 @ 2-3' (880-33482-18) and BH-28 @ 0-1' (880-33482-19).

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-63094 and analytical batch 880-63185 was outside the control limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-63185 recovered above the upper control limit for Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported

Method 8021B: Surrogate recovery for the following sample was outside control limits: BH-23 @ 1-2' (880-33482-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-63019 and analytical batch 880-63150 was outside the control limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-63203 and analytical batch 880-63185 was outside the control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-24 @ 0-1' (880-33482-11), BH-24 @ 1-2' (880-33482-12), BH-25 @ 0-1' (880-33482-13) and BH-27 @ 0-1' (880-33482-17). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-63005 and analytical batch 880-63030 was outside the upper control limits.

Case Narrative

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal #094Y

Job ID: 880-33482-1

Job ID: 880-33482-1 (Continued)

Laboratory: Eurofins Midland (Continued)

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-63030/20), (CCV 880-63030/31), (CCV 880-63030/5) and (LCS 880-63005/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH-20 @ 1-2' (880-33482-4), BH-21 @ 1-2' (880-33482-6), BH-27 @ 0-1' (880-33482-17) and BH-28 @ 0-1' (880-33482-19). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

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

General Chemistry

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

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal #094Y

Job ID: 880-33482-1

Client Sample ID: BH 19 @ 0-1'

Lab Sample ID: 880-33482-1
Date Collected: 09/19/23 13:21
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 91.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000419	U	0.00217	0.000419	mg/Kg	☼	09/21/23 16:51	09/24/23 18:06	1
Toluene	<0.000496	U	0.00217	0.000496	mg/Kg	☼	09/21/23 16:51	09/24/23 18:06	1
Ethylbenzene	**0.00114**	**J**	0.00217	0.000614	mg/Kg	☼	09/21/23 16:51	09/24/23 18:06	1
m-Xylene & p-Xylene	<0.00110	U	0.00435	0.00110	mg/Kg	☼	09/21/23 16:51	09/24/23 18:06	1
o-Xylene	<0.000374	U	0.00217	0.000374	mg/Kg	☼	09/21/23 16:51	09/24/23 18:06	1
Xylenes, Total	<0.00110	U	0.00435	0.00110	mg/Kg	☼	09/21/23 16:51	09/24/23 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*09/21/23 16:51*	*09/24/23 18:06*	*1*
1,4-Difluorobenzene (Surr)	*122*		*70 - 130*	*09/21/23 16:51*	*09/24/23 18:06*	*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	**35.2**	**J**	54.5	16.4	mg/Kg	☼	09/21/23 14:31	09/22/23 11:45	1
Diesel Range Organics (Over C10-C28)	**73.5**		54.5	16.4	mg/Kg	☼	09/21/23 14:31	09/22/23 11:45	1
Oll Range Organics (Over C28-C36)	<16.4	U	54.5	16.4	mg/Kg	☼	09/21/23 14:31	09/22/23 11:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*09/21/23 14:31*	*09/22/23 11:45*	*1*
o-Terphenyl	*110*		*70 - 130*	*09/21/23 14:31*	*09/22/23 11:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**97.6**		5.05	0.399	mg/Kg			09/25/23 23:09	1

Client Sample ID: BH 19 @ 3-4'

Lab Sample ID: 880-33482-2
Date Collected: 09/19/23 13:23
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 88.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000434	U	0.00225	0.000434	mg/Kg	☼	09/21/23 16:51	09/24/23 18:32	1
Toluene	<0.000514	U	0.00225	0.000514	mg/Kg	☼	09/21/23 16:51	09/24/23 18:32	1
Ethylbenzene	**0.00128**	**J**	0.00225	0.000637	mg/Kg	☼	09/21/23 16:51	09/24/23 18:32	1
m-Xylene & p-Xylene	<0.00114	U	0.00451	0.00114	mg/Kg	☼	09/21/23 16:51	09/24/23 18:32	1
o-Xylene	<0.000388	U	0.00225	0.000388	mg/Kg	☼	09/21/23 16:51	09/24/23 18:32	1
Xylenes, Total	<0.00114	U	0.00451	0.00114	mg/Kg	☼	09/21/23 16:51	09/24/23 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*09/21/23 16:51*	*09/24/23 18:32*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*09/21/23 16:51*	*09/24/23 18:32*	*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	**31.4**	**J**	56.5	17.0	mg/Kg	☼	09/21/23 14:31	09/22/23 12:06	1
Diesel Range Organics (Over C10-C28)	**27.5**	**J**	56.5	17.0	mg/Kg	☼	09/21/23 14:31	09/22/23 12:06	1
Oll Range Organics (Over C28-C36)	<17.0	U	56.5	17.0	mg/Kg	☼	09/21/23 14:31	09/22/23 12:06	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal #094Y

Job ID: 880-33482-1

Client Sample ID: BH 19 @ 3-4'

Lab Sample ID: 880-33482-2
Date Collected: 09/19/23 13:23
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 88.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130	09/21/23 14:31	09/22/23 12:06	1
o-Terphenyl	116		70 - 130	09/21/23 14:31	09/22/23 12:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	155		5.03	0.397	mg/Kg			09/25/23 23:16	1

Client Sample ID: BH-20 @ 0-1'

Lab Sample ID: 880-33482-3
Date Collected: 09/19/23 13:31
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 93.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000412	U	0.00214	0.000412	mg/Kg	☼	09/21/23 16:51	09/24/23 18:58	1
Toluene	<0.000488	U	0.00214	0.000488	mg/Kg	☼	09/21/23 16:51	09/24/23 18:58	1
Ethylbenzene	0.00115	J	0.00214	0.000604	mg/Kg	☼	09/21/23 16:51	09/24/23 18:58	1
m-Xylene & p-Xylene	<0.00108	U	0.00428	0.00108	mg/Kg	☼	09/21/23 16:51	09/24/23 18:58	1
o-Xylene	0.000433	J	0.00214	0.000368	mg/Kg	☼	09/21/23 16:51	09/24/23 18:58	1
Xylenes, Total	<0.00108	U	0.00428	0.00108	mg/Kg	☼	09/21/23 16:51	09/24/23 18:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	09/21/23 16:51	09/24/23 18:58	1
1,4-Difluorobenzene (Surr)	93		70 - 130	09/21/23 16:51	09/24/23 18:58	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	28.4	J	53.7	16.1	mg/Kg	☼	09/21/23 14:31	09/22/23 12:28	1
Diesel Range Organics (Over C10-C28)	<16.1	U	53.7	16.1	mg/Kg	☼	09/21/23 14:31	09/22/23 12:28	1
Oil Range Organics (Over C28-C36)	<16.1	U	53.7	16.1	mg/Kg	☼	09/21/23 14:31	09/22/23 12:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130	09/21/23 14:31	09/22/23 12:28	1
o-Terphenyl	115		70 - 130	09/21/23 14:31	09/22/23 12:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	457		5.02	0.397	mg/Kg			09/25/23 23:22	1

Client Sample ID: BH-20 @ 1-2'

Lab Sample ID: 880-33482-4
Date Collected: 09/19/23 13:34
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 93.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000413	U	0.00215	0.000413	mg/Kg	☼	09/21/23 16:51	09/24/23 19:23	1
Toluene	<0.000489	U	0.00215	0.000489	mg/Kg	☼	09/21/23 16:51	09/24/23 19:23	1
Ethylbenzene	0.00136	J	0.00215	0.000606	mg/Kg	☼	09/21/23 16:51	09/24/23 19:23	1
m-Xylene & p-Xylene	<0.00108	U	0.00429	0.00108	mg/Kg	☼	09/21/23 16:51	09/24/23 19:23	1
o-Xylene	<0.000369	U	0.00215	0.000369	mg/Kg	☼	09/21/23 16:51	09/24/23 19:23	1
Xylenes, Total	<0.00108	U	0.00429	0.00108	mg/Kg	☼	09/21/23 16:51	09/24/23 19:23	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-33482-1
Project/Site: Seawolf 1 12 Federal #094Y

Client Sample ID: BH-20 @ 1-2'
Lab Sample ID: 880-33482-4
Date Collected: 09/19/23 13:34
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 93.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*09/21/23 16:51*	*09/24/23 19:23*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*09/21/23 16:51*	*09/24/23 19:23*	*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	**44.9**	**J**	53.4	16.0	mg/Kg	☼	09/21/23 14:31	09/22/23 12:50	1
Diesel Range Organics (Over C10-C28)	<16.0	U	53.4	16.0	mg/Kg	☼	09/21/23 14:31	09/22/23 12:50	1
OII Range Organics (Over C28-C36)	<16.0	U	53.4	16.0	mg/Kg	☼	09/21/23 14:31	09/22/23 12:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*131*	*S1+*	*70 - 130*	*09/21/23 14:31*	*09/22/23 12:50*	*1*
o-Terphenyl	*116*		*70 - 130*	*09/21/23 14:31*	*09/22/23 12:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**562**		4.98	0.393	mg/Kg			09/25/23 23:29	1

Client Sample ID: BH-21 @ 0-1'
Lab Sample ID: 880-33482-5
Date Collected: 09/19/23 13:37
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000434	U	0.00226	0.000434	mg/Kg	☼	09/21/23 16:51	09/24/23 19:49	1
Toluene	<0.000514	U	0.00226	0.000514	mg/Kg	☼	09/21/23 16:51	09/24/23 19:49	1
Ethylbenzene	**0.00115**	**J**	0.00226	0.000637	mg/Kg	☼	09/21/23 16:51	09/24/23 19:49	1
m-Xylene & p-Xylene	<0.00114	U	0.00451	0.00114	mg/Kg	☼	09/21/23 16:51	09/24/23 19:49	1
o-Xylene	<0.000388	U	0.00226	0.000388	mg/Kg	☼	09/21/23 16:51	09/24/23 19:49	1
Xylenes, Total	<0.00114	U	0.00451	0.00114	mg/Kg	☼	09/21/23 16:51	09/24/23 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*09/21/23 16:51*	*09/24/23 19:49*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*09/21/23 16:51*	*09/24/23 19:49*	*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	**28.8**	**J**	55.5	16.6	mg/Kg	☼	09/21/23 14:31	09/22/23 13:13	1
Diesel Range Organics (Over C10-C28)	**34.3**	**J**	55.5	16.6	mg/Kg	☼	09/21/23 14:31	09/22/23 13:13	1
OII Range Organics (Over C28-C36)	<16.6	U	55.5	16.6	mg/Kg	☼	09/21/23 14:31	09/22/23 13:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*111*		*70 - 130*	*09/21/23 14:31*	*09/22/23 13:13*	*1*
o-Terphenyl	*98*		*70 - 130*	*09/21/23 14:31*	*09/22/23 13:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1160**		4.99	0.394	mg/Kg			09/25/23 23:49	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal #094Y

Job ID: 880-33482-1

Client Sample ID: BH-21 @ 1-2'

Lab Sample ID: 880-33482-6
Date Collected: 09/19/23 13:40
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000442	U	0.00230	0.000442	mg/Kg	☼	09/21/23 16:51	09/24/23 20:15	1
Toluene	<0.000524	U	0.00230	0.000524	mg/Kg	☼	09/21/23 16:51	09/24/23 20:15	1
Ethylbenzene	**0.00148**	**J**	0.00230	0.000649	mg/Kg	☼	09/21/23 16:51	09/24/23 20:15	1
m-Xylene & p-Xylene	<0.00116	U	0.00460	0.00116	mg/Kg	☼	09/21/23 16:51	09/24/23 20:15	1
o-Xylene	<0.000395	U	0.00230	0.000395	mg/Kg	☼	09/21/23 16:51	09/24/23 20:15	1
Xylenes, Total	<0.00116	U	0.00460	0.00116	mg/Kg	☼	09/21/23 16:51	09/24/23 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*09/21/23 16:51*	*09/24/23 20:15*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*09/21/23 16:51*	*09/24/23 20:15*	*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	**39.0**	**J**	57.3	17.2	mg/Kg	☼	09/21/23 14:31	09/22/23 13:35	1
Diesel Range Organics (Over C10-C28)	<17.2	U	57.3	17.2	mg/Kg	☼	09/21/23 14:31	09/22/23 13:35	1
OII Range Organics (Over C28-C36)	<17.2	U	57.3	17.2	mg/Kg	☼	09/21/23 14:31	09/22/23 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*144*	*S1+*	*70 - 130*	*09/21/23 14:31*	*09/22/23 13:35*	*1*
o-Terphenyl	*126*		*70 - 130*	*09/21/23 14:31*	*09/22/23 13:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**702**		4.99	0.394	mg/Kg			09/25/23 23:56	1

Client Sample ID: BH-22 @ 0-1'

Lab Sample ID: 880-33482-7
Date Collected: 09/19/23 13:44
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 95.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000401	U	0.00208	0.000401	mg/Kg	☼	09/21/23 16:51	09/24/23 20:41	1
Toluene	<0.000475	U	0.00208	0.000475	mg/Kg	☼	09/21/23 16:51	09/24/23 20:41	1
Ethylbenzene	**0.00116**	**J**	0.00208	0.000589	mg/Kg	☼	09/21/23 16:51	09/24/23 20:41	1
m-Xylene & p-Xylene	<0.00105	U	0.00417	0.00105	mg/Kg	☼	09/21/23 16:51	09/24/23 20:41	1
o-Xylene	<0.000359	U	0.00208	0.000359	mg/Kg	☼	09/21/23 16:51	09/24/23 20:41	1
Xylenes, Total	<0.00105	U	0.00417	0.00105	mg/Kg	☼	09/21/23 16:51	09/24/23 20:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*09/21/23 16:51*	*09/24/23 20:41*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*09/21/23 16:51*	*09/24/23 20:41*	*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	**27.0**	**J**	52.7	15.8	mg/Kg	☼	09/21/23 14:31	09/22/23 13:57	1
Diesel Range Organics (Over C10-C28)	**27.5**	**J**	52.7	15.8	mg/Kg	☼	09/21/23 14:31	09/22/23 13:57	1
OII Range Organics (Over C28-C36)	<15.8	U	52.7	15.8	mg/Kg	☼	09/21/23 14:31	09/22/23 13:57	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal #094Y

Job ID: 880-33482-1

Client Sample ID: BH-22 @ 0-1'

Lab Sample ID: 880-33482-7
Date Collected: 09/19/23 13:44
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 95.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	09/21/23 14:31	09/22/23 13:57	1
o-Terphenyl	105		70 - 130	09/21/23 14:31	09/22/23 13:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	867		5.01	0.396	mg/Kg			09/26/23 00:03	1

Client Sample ID: BH-22 @ 1-2'

Lab Sample ID: 880-33482-8
Date Collected: 09/19/23 13:47
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 92.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000551	J	0.00217	0.000417	mg/Kg	☼	09/21/23 16:51	09/24/23 21:07	1
Toluene	<0.000494	U	0.00217	0.000494	mg/Kg	☼	09/21/23 16:51	09/24/23 21:07	1
Ethylbenzene	0.00113	J	0.00217	0.000613	mg/Kg	☼	09/21/23 16:51	09/24/23 21:07	1
m-Xylene & p-Xylene	<0.00109	U	0.00434	0.00109	mg/Kg	☼	09/21/23 16:51	09/24/23 21:07	1
o-Xylene	<0.000373	U	0.00217	0.000373	mg/Kg	☼	09/21/23 16:51	09/24/23 21:07	1
Xylenes, Total	<0.00109	U	0.00434	0.00109	mg/Kg	☼	09/21/23 16:51	09/24/23 21:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	09/21/23 16:51	09/24/23 21:07	1
1,4-Difluorobenzene (Surr)	99		70 - 130	09/21/23 16:51	09/24/23 21:07	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	31.1	J	54.8	16.4	mg/Kg	☼	09/21/23 14:31	09/22/23 14:20	1
Diesel Range Organics (Over C10-C28)	30.0	J	54.8	16.4	mg/Kg	☼	09/21/23 14:31	09/22/23 14:20	1
Oil Range Organics (Over C28-C36)	<16.4	U	54.8	16.4	mg/Kg	☼	09/21/23 14:31	09/22/23 14:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130	09/21/23 14:31	09/22/23 14:20	1
o-Terphenyl	113		70 - 130	09/21/23 14:31	09/22/23 14:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1070		5.02	0.397	mg/Kg			09/26/23 00:09	1

Client Sample ID: BH-23 @ 0-1'

Lab Sample ID: 880-33482-9
Date Collected: 09/19/23 13:54
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 94.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000407	U	0.00211	0.000407	mg/Kg	☼	09/21/23 16:51	09/24/23 21:32	1
Toluene	<0.000482	U	0.00211	0.000482	mg/Kg	☼	09/21/23 16:51	09/24/23 21:32	1
Ethylbenzene	0.00109	J	0.00211	0.000597	mg/Kg	☼	09/21/23 16:51	09/24/23 21:32	1
m-Xylene & p-Xylene	<0.00107	U	0.00423	0.00107	mg/Kg	☼	09/21/23 16:51	09/24/23 21:32	1
o-Xylene	<0.000363	U	0.00211	0.000363	mg/Kg	☼	09/21/23 16:51	09/24/23 21:32	1
Xylenes, Total	<0.00107	U	0.00423	0.00107	mg/Kg	☼	09/21/23 16:51	09/24/23 21:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-33482-1
Project/Site: Seawolf 1 12 Federal #094Y

Client Sample ID: BH-23 @ 0-1'
Lab Sample ID: 880-33482-9
Date Collected: 09/19/23 13:54
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 94.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	09/21/23 16:51	09/24/23 21:32	1
1,4-Difluorobenzene (Surr)	77		70 - 130	09/21/23 16:51	09/24/23 21:32	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	25.8	J	52.9	15.9	mg/Kg	☼	09/21/23 14:31	09/22/23 14:42	1
Diesel Range Organics (Over C10-C28)	50.3	J	52.9	15.9	mg/Kg	☼	09/21/23 14:31	09/22/23 14:42	1
OII Range Organics (Over C28-C36)	<15.9	U	52.9	15.9	mg/Kg	☼	09/21/23 14:31	09/22/23 14:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	09/21/23 14:31	09/22/23 14:42	1
o-Terphenyl	100		70 - 130	09/21/23 14:31	09/22/23 14:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	397		4.99	0.394	mg/Kg			09/26/23 00:16	1

Client Sample ID: BH-23 @ 1-2'
Lab Sample ID: 880-33482-10
Date Collected: 09/19/23 13:52
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 94.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000403	U	0.00209	0.000403	mg/Kg	☼	09/21/23 16:51	09/24/23 21:58	1
Toluene	<0.000477	U	0.00209	0.000477	mg/Kg	☼	09/21/23 16:51	09/24/23 21:58	1
Ethylbenzene	0.00112	J	0.00209	0.000592	mg/Kg	☼	09/21/23 16:51	09/24/23 21:58	1
m-Xylene & p-Xylene	<0.00106	U	0.00419	0.00106	mg/Kg	☼	09/21/23 16:51	09/24/23 21:58	1
o-Xylene	<0.000360	U	0.00209	0.000360	mg/Kg	☼	09/21/23 16:51	09/24/23 21:58	1
Xylenes, Total	<0.00106	U	0.00419	0.00106	mg/Kg	☼	09/21/23 16:51	09/24/23 21:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	09/21/23 16:51	09/24/23 21:58	1
1,4-Difluorobenzene (Surr)	107		70 - 130	09/21/23 16:51	09/24/23 21:58	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	20.0	J	52.3	15.7	mg/Kg	☼	09/21/23 14:31	09/22/23 15:28	1
Diesel Range Organics (Over C10-C28)	<15.7	U	52.3	15.7	mg/Kg	☼	09/21/23 14:31	09/22/23 15:28	1
OII Range Organics (Over C28-C36)	<15.7	U	52.3	15.7	mg/Kg	☼	09/21/23 14:31	09/22/23 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	09/21/23 14:31	09/22/23 15:28	1
o-Terphenyl	107		70 - 130	09/21/23 14:31	09/22/23 15:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	256		4.96	0.392	mg/Kg			09/26/23 00:23	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-33482-1
Project/Site: Seawolf 1 12 Federal #094Y

Client Sample ID: BH-24 @ 0-1'
Lab Sample ID: 880-33482-11
Date Collected: 09/19/23 13:51
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 95.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000400	U	0.00208	0.000400	mg/Kg	☼	09/25/23 09:44	09/26/23 04:05	1
Toluene	<0.000473	U	0.00208	0.000473	mg/Kg	☼	09/25/23 09:44	09/26/23 04:05	1
Ethylbenzene	<0.000587	U	0.00208	0.000587	mg/Kg	☼	09/25/23 09:44	09/26/23 04:05	1
m-Xylene & p-Xylene	<0.00105	U	0.00415	0.00105	mg/Kg	☼	09/25/23 09:44	09/26/23 04:05	1
o-Xylene	<0.000357	U	0.00208	0.000357	mg/Kg	☼	09/25/23 09:44	09/26/23 04:05	1
Xylenes, Total	<0.00105	U	0.00415	0.00105	mg/Kg	☼	09/25/23 09:44	09/26/23 04:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*09/25/23 09:44*	*09/26/23 04:05*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*09/25/23 09:44*	*09/26/23 04:05*	*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	**26.0**	**J**	52.0	15.6	mg/Kg	☼	09/21/23 14:31	09/22/23 15:50	1
Diesel Range Organics (Over C10-C28)	<15.6	U	52.0	15.6	mg/Kg	☼	09/21/23 14:31	09/22/23 15:50	1
OII Range Organics (Over C28-C36)	<15.6	U	52.0	15.6	mg/Kg	☼	09/21/23 14:31	09/22/23 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*09/21/23 14:31*	*09/22/23 15:50*	*1*
o-Terphenyl	*104*		*70 - 130*	*09/21/23 14:31*	*09/22/23 15:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**242**		5.04	0.398	mg/Kg			09/26/23 00:43	1

Client Sample ID: BH-24 @ 1-2'
Lab Sample ID: 880-33482-12
Date Collected: 09/19/23 13:54
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 92.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000414	U	0.00215	0.000414	mg/Kg	☼	09/25/23 09:44	09/26/23 04:30	1
Toluene	<0.000490	U	0.00215	0.000490	mg/Kg	☼	09/25/23 09:44	09/26/23 04:30	1
Ethylbenzene	<0.000607	U	0.00215	0.000607	mg/Kg	☼	09/25/23 09:44	09/26/23 04:30	1
m-Xylene & p-Xylene	<0.00108	U	0.00430	0.00108	mg/Kg	☼	09/25/23 09:44	09/26/23 04:30	1
o-Xylene	<0.000369	U	0.00215	0.000369	mg/Kg	☼	09/25/23 09:44	09/26/23 04:30	1
Xylenes, Total	<0.00108	U	0.00430	0.00108	mg/Kg	☼	09/25/23 09:44	09/26/23 04:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*09/25/23 09:44*	*09/26/23 04:30*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*09/25/23 09:44*	*09/26/23 04:30*	*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	**27.7**	**J**	54.4	16.3	mg/Kg	☼	09/21/23 14:31	09/22/23 16:12	1
Diesel Range Organics (Over C10-C28)	**26.2**	**J**	54.4	16.3	mg/Kg	☼	09/21/23 14:31	09/22/23 16:12	1
OII Range Organics (Over C28-C36)	<16.3	U	54.4	16.3	mg/Kg	☼	09/21/23 14:31	09/22/23 16:12	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal #094Y

Job ID: 880-33482-1

Client Sample ID: BH-24 @ 1-2'

Lab Sample ID: 880-33482-12
Date Collected: 09/19/23 13:54
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 92.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130	09/21/23 14:31	09/22/23 16:12	1
o-Terphenyl	110		70 - 130	09/21/23 14:31	09/22/23 16:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	340		5.05	0.399	mg/Kg			09/26/23 00:49	1

Client Sample ID: BH-25 @ 0-1'

Lab Sample ID: 880-33482-13
Date Collected: 09/19/23 13:59
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 94.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000410	U	0.00213	0.000410	mg/Kg	☼	09/25/23 09:44	09/26/23 04:56	1
Toluene	<0.000485	U	0.00213	0.000485	mg/Kg	☼	09/25/23 09:44	09/26/23 04:56	1
Ethylbenzene	<0.000601	U	0.00213	0.000601	mg/Kg	☼	09/25/23 09:44	09/26/23 04:56	1
m-Xylene & p-Xylene	<0.00107	U	0.00426	0.00107	mg/Kg	☼	09/25/23 09:44	09/26/23 04:56	1
o-Xylene	<0.000366	U	0.00213	0.000366	mg/Kg	☼	09/25/23 09:44	09/26/23 04:56	1
Xylenes, Total	<0.00107	U	0.00426	0.00107	mg/Kg	☼	09/25/23 09:44	09/26/23 04:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130	09/25/23 09:44	09/26/23 04:56	1
1,4-Difluorobenzene (Surr)	100		70 - 130	09/25/23 09:44	09/26/23 04:56	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	25.9	J	53.2	16.0	mg/Kg	☼	09/21/23 14:31	09/22/23 16:34	1
Diesel Range Organics (Over C10-C28)	465		53.2	16.0	mg/Kg	☼	09/21/23 14:31	09/22/23 16:34	1
Oil Range Organics (Over C28-C36)	<16.0	U	53.2	16.0	mg/Kg	☼	09/21/23 14:31	09/22/23 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	09/21/23 14:31	09/22/23 16:34	1
o-Terphenyl	106		70 - 130	09/21/23 14:31	09/22/23 16:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	724		5.00	0.395	mg/Kg			09/26/23 01:09	1

Client Sample ID: BH-25 @ 1-2'

Lab Sample ID: 880-33482-14
Date Collected: 09/19/23 13:59
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 88.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000438	U	0.00228	0.000438	mg/Kg	☼	09/25/23 09:44	09/26/23 05:22	1
Toluene	<0.000519	U	0.00228	0.000519	mg/Kg	☼	09/25/23 09:44	09/26/23 05:22	1
Ethylbenzene	<0.000643	U	0.00228	0.000643	mg/Kg	☼	09/25/23 09:44	09/26/23 05:22	1
m-Xylene & p-Xylene	<0.00115	U	0.00455	0.00115	mg/Kg	☼	09/25/23 09:44	09/26/23 05:22	1
o-Xylene	<0.000391	U	0.00228	0.000391	mg/Kg	☼	09/25/23 09:44	09/26/23 05:22	1
Xylenes, Total	<0.00115	U	0.00455	0.00115	mg/Kg	☼	09/25/23 09:44	09/26/23 05:22	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal #094Y

Job ID: 880-33482-1

Client Sample ID: BH-25 @ 1-2'

Lab Sample ID: 880-33482-14
Date Collected: 09/19/23 13:59
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 88.8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*09/25/23 09:44*	*09/26/23 05:22*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/25/23 09:44*	*09/26/23 05:22*	*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	**36.9**	**J**	56.8	17.0	mg/Kg	☼	09/21/23 14:31	09/22/23 16:56	1
Diesel Range Organics (Over C10-C28)	**24.8**	**J**	56.8	17.0	mg/Kg	☼	09/21/23 14:31	09/22/23 16:56	1
OII Range Organics (Over C28-C36)	<17.0	U	56.8	17.0	mg/Kg	☼	09/21/23 14:31	09/22/23 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*09/21/23 14:31*	*09/22/23 16:56*	*1*
o-Terphenyl	*114*		*70 - 130*	*09/21/23 14:31*	*09/22/23 16:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1180**		4.99	0.394	mg/Kg			09/26/23 01:16	1

Client Sample ID: BH-26 @ 0-1'

Lab Sample ID: 880-33482-15
Date Collected: 09/19/23 14:09
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000478	U	0.00248	0.000478	mg/Kg	☼	09/25/23 09:44	09/26/23 07:07	1
Toluene	<0.000566	U	0.00248	0.000566	mg/Kg	☼	09/25/23 09:44	09/26/23 07:07	1
Ethylbenzene	<0.000701	U	0.00248	0.000701	mg/Kg	☼	09/25/23 09:44	09/26/23 07:07	1
m-Xylene & p-Xylene	<0.00125	U	0.00496	0.00125	mg/Kg	☼	09/25/23 09:44	09/26/23 07:07	1
o-Xylene	<0.000427	U	0.00248	0.000427	mg/Kg	☼	09/25/23 09:44	09/26/23 07:07	1
Xylenes, Total	<0.00125	U	0.00496	0.00125	mg/Kg	☼	09/25/23 09:44	09/26/23 07:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*09/25/23 09:44*	*09/26/23 07:07*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/25/23 09:44*	*09/26/23 07:07*	*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	**35.3**	**J**	62.5	18.8	mg/Kg	☼	09/21/23 14:31	09/22/23 17:18	1
Diesel Range Organics (Over C10-C28)	<18.8	U	62.5	18.8	mg/Kg	☼	09/21/23 14:31	09/22/23 17:18	1
OII Range Organics (Over C28-C36)	<18.8	U	62.5	18.8	mg/Kg	☼	09/21/23 14:31	09/22/23 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*09/21/23 14:31*	*09/22/23 17:18*	*1*
o-Terphenyl	*109*		*70 - 130*	*09/21/23 14:31*	*09/22/23 17:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**108**		5.03	0.397	mg/Kg			09/26/23 01:23	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-33482-1
Project/Site: Seawolf 1 12 Federal #094Y

Client Sample ID: BH-26 @ 3-4'
Lab Sample ID: 880-33482-16
Date Collected: 09/19/23 14:12
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 93.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000410	U	0.00213	0.000410	mg/Kg	☼	09/25/23 09:44	09/26/23 07:34	1
Toluene	<0.000485	U	0.00213	0.000485	mg/Kg	☼	09/25/23 09:44	09/26/23 07:34	1
Ethylbenzene	<0.000601	U	0.00213	0.000601	mg/Kg	☼	09/25/23 09:44	09/26/23 07:34	1
m-Xylene & p-Xylene	<0.00108	U	0.00426	0.00108	mg/Kg	☼	09/25/23 09:44	09/26/23 07:34	1
o-Xylene	<0.000366	U	0.00213	0.000366	mg/Kg	☼	09/25/23 09:44	09/26/23 07:34	1
Xylenes, Total	<0.00108	U	0.00426	0.00108	mg/Kg	☼	09/25/23 09:44	09/26/23 07:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*09/25/23 09:44*	*09/26/23 07:34*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*09/25/23 09:44*	*09/26/23 07:34*	*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	**33.4**	**J**	53.3	16.0	mg/Kg	☼	09/21/23 14:31	09/22/23 17:39	1
Diesel Range Organics (Over C10-C28)	<16.0	U	53.3	16.0	mg/Kg	☼	09/21/23 14:31	09/22/23 17:39	1
OII Range Organics (Over C28-C36)	<16.0	U	53.3	16.0	mg/Kg	☼	09/21/23 14:31	09/22/23 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*09/21/23 14:31*	*09/22/23 17:39*	*1*
o-Terphenyl	*107*		*70 - 130*	*09/21/23 14:31*	*09/22/23 17:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**64.1**		4.98	0.393	mg/Kg			09/26/23 01:29	1

Client Sample ID: BH-27 @ 0-1'
Lab Sample ID: 880-33482-17
Date Collected: 09/19/23 15:21
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 98.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000390	U	0.00203	0.000390	mg/Kg	☼	09/25/23 09:44	09/26/23 08:01	1
Toluene	<0.000462	U	0.00203	0.000462	mg/Kg	☼	09/25/23 09:44	09/26/23 08:01	1
Ethylbenzene	<0.000573	U	0.00203	0.000573	mg/Kg	☼	09/25/23 09:44	09/26/23 08:01	1
m-Xylene & p-Xylene	<0.00102	U	0.00406	0.00102	mg/Kg	☼	09/25/23 09:44	09/26/23 08:01	1
o-Xylene	<0.000349	U	0.00203	0.000349	mg/Kg	☼	09/25/23 09:44	09/26/23 08:01	1
Xylenes, Total	<0.00102	U	0.00406	0.00102	mg/Kg	☼	09/25/23 09:44	09/26/23 08:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*143*	*S1+*	*70 - 130*	*09/25/23 09:44*	*09/26/23 08:01*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*09/25/23 09:44*	*09/26/23 08:01*	*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	**42.1**	**J**	50.6	15.2	mg/Kg	☼	09/21/23 14:31	09/22/23 18:01	1
Diesel Range Organics (Over C10-C28)	<15.2	U	50.6	15.2	mg/Kg	☼	09/21/23 14:31	09/22/23 18:01	1
OII Range Organics (Over C28-C36)	<15.2	U	50.6	15.2	mg/Kg	☼	09/21/23 14:31	09/22/23 18:01	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal #094Y

Job ID: 880-33482-1

Client Sample ID: BH-27 @ 0-1'

Lab Sample ID: 880-33482-17
Date Collected: 09/19/23 15:21
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 98.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130	09/21/23 14:31	09/22/23 18:01	1
o-Terphenyl	111		70 - 130	09/21/23 14:31	09/22/23 18:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	119		4.96	0.392	mg/Kg			09/26/23 01:36	1

Client Sample ID: BH-27 @ 2-3'

Lab Sample ID: 880-33482-18
Date Collected: 09/19/23 16:08
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 95.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000407	U	0.00211	0.000407	mg/Kg	☼	09/25/23 09:44	09/26/23 08:27	1
Toluene	<0.000482	U	0.00211	0.000482	mg/Kg	☼	09/25/23 09:44	09/26/23 08:27	1
Ethylbenzene	<0.000597	U	0.00211	0.000597	mg/Kg	☼	09/25/23 09:44	09/26/23 08:27	1
m-Xylene & p-Xylene	<0.00107	U	0.00423	0.00107	mg/Kg	☼	09/25/23 09:44	09/26/23 08:27	1
o-Xylene	<0.000364	U	0.00211	0.000364	mg/Kg	☼	09/25/23 09:44	09/26/23 08:27	1
Xylenes, Total	<0.00107	U	0.00423	0.00107	mg/Kg	☼	09/25/23 09:44	09/26/23 08:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	09/25/23 09:44	09/26/23 08:27	1
1,4-Difluorobenzene (Surr)	74		70 - 130	09/25/23 09:44	09/26/23 08:27	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	30.4	J	52.6	15.8	mg/Kg	☼	09/21/23 14:31	09/22/23 18:23	1
Diesel Range Organics (Over C10-C28)	18.4	J	52.6	15.8	mg/Kg	☼	09/21/23 14:31	09/22/23 18:23	1
Oil Range Organics (Over C28-C36)	<15.8	U	52.6	15.8	mg/Kg	☼	09/21/23 14:31	09/22/23 18:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130	09/21/23 14:31	09/22/23 18:23	1
o-Terphenyl	117		70 - 130	09/21/23 14:31	09/22/23 18:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	186		5.00	0.395	mg/Kg			09/26/23 13:34	1

Client Sample ID: BH-28 @ 0-1'

Lab Sample ID: 880-33482-19
Date Collected: 09/19/23 16:12
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 97.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000396	U	0.00206	0.000396	mg/Kg	☼	09/25/23 09:44	09/26/23 08:53	1
Toluene	<0.000469	U	0.00206	0.000469	mg/Kg	☼	09/25/23 09:44	09/26/23 08:53	1
Ethylbenzene	<0.000581	U	0.00206	0.000581	mg/Kg	☼	09/25/23 09:44	09/26/23 08:53	1
m-Xylene & p-Xylene	<0.00104	U	0.00412	0.00104	mg/Kg	☼	09/25/23 09:44	09/26/23 08:53	1
o-Xylene	<0.000354	U	0.00206	0.000354	mg/Kg	☼	09/25/23 09:44	09/26/23 08:53	1
Xylenes, Total	<0.00104	U	0.00412	0.00104	mg/Kg	☼	09/25/23 09:44	09/26/23 08:53	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal #094Y

Job ID: 880-33482-1

Client Sample ID: BH-28 @ 0-1'

Date Collected: 09/19/23 16:12
Date Received: 09/21/23 11:46

Lab Sample ID: 880-33482-19

Matrix: Solid
Percent Solids: 97.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*09/25/23 09:44*	*09/26/23 08:53*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*09/25/23 09:44*	*09/26/23 08:53*	*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	**42.1**	**J**	50.9	15.3	mg/Kg	☼	09/21/23 14:31	09/22/23 18:44	1
Diesel Range Organics (Over C10-C28)	<15.3	U	50.9	15.3	mg/Kg	☼	09/21/23 14:31	09/22/23 18:44	1
OII Range Organics (Over C28-C36)	<15.3	U	50.9	15.3	mg/Kg	☼	09/21/23 14:31	09/22/23 18:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*134*	*S1+*	*70 - 130*	*09/21/23 14:31*	*09/22/23 18:44*	*1*
o-Terphenyl	*120*		*70 - 130*	*09/21/23 14:31*	*09/22/23 18:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**87.7**		4.95	0.391	mg/Kg			09/26/23 13:54	1

Surrogate Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal #094Y

Job ID: 880-33482-1

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)										
880-33482-1	BH 19 @ 0-1'	121	122										
880-33482-1 MS	BH 19 @ 0-1'	107	86										
880-33482-1 MSD	BH 19 @ 0-1'	116	103										
880-33482-2	BH 19 @ 3-4'	106	82										
880-33482-3	BH-20 @ 0-1'	118	93										
880-33482-4	BH-20 @ 1-2'	107	98										
880-33482-5	BH-21 @ 0-1'	113	108										
880-33482-6	BH-21 @ 1-2'	124	93										
880-33482-7	BH-22 @ 0-1'	101	92										
880-33482-8	BH-22 @ 1-2'	115	99										
880-33482-9	BH-23 @ 0-1'	85	77										
880-33482-10	BH-23 @ 1-2'	134 S1+	107										
880-33482-11	BH-24 @ 0-1'	133 S1+	102										
880-33482-12	BH-24 @ 1-2'	132 S1+	93										
880-33482-13	BH-25 @ 0-1'	139 S1+	100										
880-33482-14	BH-25 @ 1-2'	126	101										
880-33482-15	BH-26 @ 0-1'	120	100										
880-33482-16	BH-26 @ 3-4'	113	79										
880-33482-17	BH-27 @ 0-1'	143 S1+	90										
880-33482-18	BH-27 @ 2-3'	119	74										
880-33482-19	BH-28 @ 0-1'	127	84										
LCS 880-63019/1-A	Lab Control Sample	103	88										
LCS 880-63203/1-A	Lab Control Sample	121	102										
LCSD 880-63019/2-A	Lab Control Sample Dup	90	80										
LCSD 880-63203/2-A	Lab Control Sample Dup	129	110										
MB 880-63019/5-A	Method Blank	69 S1-	94										
MB 880-63094/5-A	Method Blank	68 S1-	90										
MB 880-63203/5-A	Method Blank	68 S1-	92										

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)										
880-33482-1	BH 19 @ 0-1'	124	110										
880-33482-2	BH 19 @ 3-4'	130	116										
880-33482-3	BH-20 @ 0-1'	130	115										
880-33482-4	BH-20 @ 1-2'	131 S1+	116										
880-33482-5	BH-21 @ 0-1'	111	98										
880-33482-6	BH-21 @ 1-2'	144 S1+	126										
880-33482-7	BH-22 @ 0-1'	118	105										
880-33482-8	BH-22 @ 1-2'	126	113										
880-33482-9	BH-23 @ 0-1'	114	100										
880-33482-10	BH-23 @ 1-2'	120	107										
880-33482-11	BH-24 @ 0-1'	116	104										

Surrogate Summary

Client: Civil & Environmental Consultants Inc Job ID: 880-33482-1
Project/Site: Seawolf 1 12 Federal #094Y

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-33482-12	BH-24 @ 1-2'	122	110										
880-33482-13	BH-25 @ 0-1'	121	106										
880-33482-14	BH-25 @ 1-2'	126	114										
880-33482-15	BH-26 @ 0-1'	121	109										
880-33482-16	BH-26 @ 3-4'	118	107										
880-33482-17	BH-27 @ 0-1'	131 S1+	111										
880-33482-18	BH-27 @ 2-3'	125	117										
880-33482-19	BH-28 @ 0-1'	134 S1+	120										
LCS 880-63005/2-A	Lab Control Sample	117	151 S1+										
LCSD 880-63005/3-A	Lab Control Sample Dup	111	111										
MB 880-63005/1-A	Method Blank	191 S1+	182 S1+										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal #094Y

Job ID: 880-33482-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-63019/5-A
Matrix: Solid
Analysis Batch: 63150

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 63019

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		09/21/23 16:51	09/24/23 17:40	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		09/21/23 16:51	09/24/23 17:40	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		09/21/23 16:51	09/24/23 17:40	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		09/21/23 16:51	09/24/23 17:40	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		09/21/23 16:51	09/24/23 17:40	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		09/21/23 16:51	09/24/23 17:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*69*	*S1-*	*70 - 130*	*09/21/23 16:51*	*09/24/23 17:40*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*09/21/23 16:51*	*09/24/23 17:40*	*1*

Lab Sample ID: LCS 880-63019/1-A
Matrix: Solid
Analysis Batch: 63150

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 63019

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09185		mg/Kg		92	70 - 130		
Toluene			0.100	0.09352		mg/Kg		94	70 - 130		
Ethylbenzene			0.100	0.09521		mg/Kg		95	70 - 130		
m-Xylene & p-Xylene			0.200	0.1878		mg/Kg		94	70 - 130		
o-Xylene			0.100	0.09787		mg/Kg		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*

Lab Sample ID: LCSD 880-63019/2-A
Matrix: Solid
Analysis Batch: 63150

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 63019

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08113		mg/Kg		81	70 - 130	12	35
Toluene			0.100	0.08454		mg/Kg		85	70 - 130	10	35
Ethylbenzene			0.100	0.07322		mg/Kg		73	70 - 130	26	35
m-Xylene & p-Xylene			0.200	0.1454		mg/Kg		73	70 - 130	25	35
o-Xylene			0.100	0.07254		mg/Kg		73	70 - 130	30	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*

Lab Sample ID: 880-33482-1 MS
Matrix: Solid
Analysis Batch: 63150

Client Sample ID: BH 19 @ 0-1'
Prep Type: Total/NA
Prep Batch: 63019

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.000419	U	0.109	0.08654		mg/Kg	☼	79	70 - 130		
Toluene	<0.000496	U	0.109	0.09547		mg/Kg	☼	88	70 - 130		

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal #094Y

Job ID: 880-33482-1

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

Lab Sample ID: 880-33482-1 MS
Matrix: Solid
Analysis Batch: 63150

Client Sample ID: BH 19 @ 0-1'
Prep Type: Total/NA
Prep Batch: 63019

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.00114	J	0.109	0.08682		mg/Kg	☼	79	70 - 130
m-Xylene & p-Xylene	<0.00110	U	0.218	0.1768		mg/Kg	☼	81	70 - 130
o-Xylene	<0.000374	U	0.109	0.08839		mg/Kg	☼	81	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*

Lab Sample ID: 880-33482-1 MSD
Matrix: Solid
Analysis Batch: 63150

Client Sample ID: BH 19 @ 0-1'
Prep Type: Total/NA
Prep Batch: 63019

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000419	U	0.109	0.1089		mg/Kg	☼	100	70 - 130	23	35
Toluene	<0.000496	U	0.109	0.1121		mg/Kg	☼	103	70 - 130	16	35
Ethylbenzene	0.00114	J	0.109	0.09721		mg/Kg	☼	88	70 - 130	11	35
m-Xylene & p-Xylene	<0.00110	U	0.219	0.1892		mg/Kg	☼	86	70 - 130	7	35
o-Xylene	<0.000374	U	0.109	0.09560		mg/Kg	☼	87	70 - 130	8	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 880-63094/5-A
Matrix: Solid
Analysis Batch: 63185

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 63094

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		09/22/23 14:56	09/25/23 11:44	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		09/22/23 14:56	09/25/23 11:44	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		09/22/23 14:56	09/25/23 11:44	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		09/22/23 14:56	09/25/23 11:44	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		09/22/23 14:56	09/25/23 11:44	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		09/22/23 14:56	09/25/23 11:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*68*	*S1-*	*70 - 130*	*09/22/23 14:56*	*09/25/23 11:44*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*09/22/23 14:56*	*09/25/23 11:44*	*1*

Lab Sample ID: MB 880-63203/5-A
Matrix: Solid
Analysis Batch: 63185

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 63203

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		09/25/23 09:44	09/26/23 01:06	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		09/25/23 09:44	09/26/23 01:06	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		09/25/23 09:44	09/26/23 01:06	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		09/25/23 09:44	09/26/23 01:06	1

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal #094Y

Job ID: 880-33482-1

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

Lab Sample ID: MB 880-63203/5-A
Matrix: Solid
Analysis Batch: 63185

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 63203

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		09/25/23 09:44	09/26/23 01:06	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		09/25/23 09:44	09/26/23 01:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*68*	*S1-*	*70 - 130*	*09/25/23 09:44*	*09/26/23 01:06*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*09/25/23 09:44*	*09/26/23 01:06*	*1*

Lab Sample ID: LCS 880-63203/1-A
Matrix: Solid
Analysis Batch: 63185

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 63203

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09860		mg/Kg		99	70 - 130
Toluene	0.100	0.1098		mg/Kg		110	70 - 130
Ethylbenzene	0.100	0.1004		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.2062		mg/Kg		103	70 - 130
o-Xylene	0.100	0.1076		mg/Kg		108	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-63203/2-A
Matrix: Solid
Analysis Batch: 63185

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 63203

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1215		mg/Kg		122	70 - 130	21	35
Toluene	0.100	0.1272		mg/Kg		127	70 - 130	15	35
Ethylbenzene	0.100	0.1187		mg/Kg		119	70 - 130	17	35
m-Xylene & p-Xylene	0.200	0.2358		mg/Kg		118	70 - 130	13	35
o-Xylene	0.100	0.1280		mg/Kg		128	70 - 130	17	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

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

Lab Sample ID: MB 880-63005/1-A
Matrix: Solid
Analysis Batch: 63030

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 63005

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		09/21/23 14:31	09/22/23 08:05	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		09/21/23 14:31	09/22/23 08:05	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		09/21/23 14:31	09/22/23 08:05	1

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal #094Y

Job ID: 880-33482-1

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	191	S1+	70 - 130	09/21/23 14:31	09/22/23 08:05	1
o-Terphenyl	182	S1+	70 - 130	09/21/23 14:31	09/22/23 08:05	1

Lab Sample ID: LCS 880-63005/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 63030 — **Prep Batch: 63005**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1005		mg/Kg		101	70 - 130
Diesel Range Organics (Over C10-C28)	1000	997.6		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	151	S1+	70 - 130

Lab Sample ID: LCSD 880-63005/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 63030 — **Prep Batch: 63005**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1031		mg/Kg		103	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	1015		mg/Kg		101	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	111		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-63036/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 63236

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			09/25/23 22:29	1

Lab Sample ID: LCS 880-63036/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 63236

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	250.6		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-63036/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 63236

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	250.6		mg/Kg		100	90 - 110	0	20

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal #094Y

Job ID: 880-33482-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-33482-10 MS
Matrix: Solid
Analysis Batch: 63236

Client Sample ID: BH-23 @ 1-2'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	256		248	498.8		mg/Kg		98	90 - 110

Lab Sample ID: 880-33482-10 MSD
Matrix: Solid
Analysis Batch: 63236

Client Sample ID: BH-23 @ 1-2'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	256		248	498.7		mg/Kg		98	90 - 110	0	20

Lab Sample ID: MB 880-63037/1-A
Matrix: Solid
Analysis Batch: 63319

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			09/26/23 11:56	1

Lab Sample ID: LCS 880-63037/2-A
Matrix: Solid
Analysis Batch: 63319

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	200	195.4		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-63037/3-A
Matrix: Solid
Analysis Batch: 63319

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	200	194.5		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 880-33482-18 MS
Matrix: Solid
Analysis Batch: 63319

Client Sample ID: BH-27 @ 2-3'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	186		250	423.8		mg/Kg		95	90 - 110

Lab Sample ID: 880-33482-18 MSD
Matrix: Solid
Analysis Batch: 63319

Client Sample ID: BH-27 @ 2-3'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	186		250	424.6		mg/Kg		96	90 - 110	0	20

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal #094Y

Job ID: 880-33482-1

GC VOA

Prep Batch: 63019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33482-1	BH 19 @ 0-1'	Total/NA	Solid	5035	
880-33482-2	BH 19 @ 3-4'	Total/NA	Solid	5035	
880-33482-3	BH-20 @ 0-1'	Total/NA	Solid	5035	
880-33482-4	BH-20 @ 1-2'	Total/NA	Solid	5035	
880-33482-5	BH-21 @ 0-1'	Total/NA	Solid	5035	
880-33482-6	BH-21 @ 1-2'	Total/NA	Solid	5035	
880-33482-7	BH-22 @ 0-1'	Total/NA	Solid	5035	
880-33482-8	BH-22 @ 1-2'	Total/NA	Solid	5035	
880-33482-9	BH-23 @ 0-1'	Total/NA	Solid	5035	
880-33482-10	BH-23 @ 1-2'	Total/NA	Solid	5035	
MB 880-63019/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-63019/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-63019/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-33482-1 MS	BH 19 @ 0-1'	Total/NA	Solid	5035	
880-33482-1 MSD	BH 19 @ 0-1'	Total/NA	Solid	5035	

Prep Batch: 63094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-63094/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 63150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33482-1	BH 19 @ 0-1'	Total/NA	Solid	8021B	63019
880-33482-2	BH 19 @ 3-4'	Total/NA	Solid	8021B	63019
880-33482-3	BH-20 @ 0-1'	Total/NA	Solid	8021B	63019
880-33482-4	BH-20 @ 1-2'	Total/NA	Solid	8021B	63019
880-33482-5	BH-21 @ 0-1'	Total/NA	Solid	8021B	63019
880-33482-6	BH-21 @ 1-2'	Total/NA	Solid	8021B	63019
880-33482-7	BH-22 @ 0-1'	Total/NA	Solid	8021B	63019
880-33482-8	BH-22 @ 1-2'	Total/NA	Solid	8021B	63019
880-33482-9	BH-23 @ 0-1'	Total/NA	Solid	8021B	63019
880-33482-10	BH-23 @ 1-2'	Total/NA	Solid	8021B	63019
MB 880-63019/5-A	Method Blank	Total/NA	Solid	8021B	63019
LCS 880-63019/1-A	Lab Control Sample	Total/NA	Solid	8021B	63019
LCSD 880-63019/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	63019
880-33482-1 MS	BH 19 @ 0-1'	Total/NA	Solid	8021B	63019
880-33482-1 MSD	BH 19 @ 0-1'	Total/NA	Solid	8021B	63019

Analysis Batch: 63185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33482-11	BH-24 @ 0-1'	Total/NA	Solid	8021B	63203
880-33482-12	BH-24 @ 1-2'	Total/NA	Solid	8021B	63203
880-33482-13	BH-25 @ 0-1'	Total/NA	Solid	8021B	63203
880-33482-14	BH-25 @ 1-2'	Total/NA	Solid	8021B	63203
880-33482-15	BH-26 @ 0-1'	Total/NA	Solid	8021B	63203
880-33482-16	BH-26 @ 3-4'	Total/NA	Solid	8021B	63203
880-33482-17	BH-27 @ 0-1'	Total/NA	Solid	8021B	63203
880-33482-18	BH-27 @ 2-3'	Total/NA	Solid	8021B	63203
880-33482-19	BH-28 @ 0-1'	Total/NA	Solid	8021B	63203
MB 880-63094/5-A	Method Blank	Total/NA	Solid	8021B	63094
MB 880-63203/5-A	Method Blank	Total/NA	Solid	8021B	63203

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal #094Y

Job ID: 880-33482-1

GC VOA (Continued)

Analysis Batch: 63185 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-63203/1-A	Lab Control Sample	Total/NA	Solid	8021B	63203
LCSD 880-63203/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	63203

Prep Batch: 63203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33482-11	BH-24 @ 0-1'	Total/NA	Solid	5035	
880-33482-12	BH-24 @ 1-2'	Total/NA	Solid	5035	
880-33482-13	BH-25 @ 0-1'	Total/NA	Solid	5035	
880-33482-14	BH-25 @ 1-2'	Total/NA	Solid	5035	
880-33482-15	BH-26 @ 0-1'	Total/NA	Solid	5035	
880-33482-16	BH-26 @ 3-4'	Total/NA	Solid	5035	
880-33482-17	BH-27 @ 0-1'	Total/NA	Solid	5035	
880-33482-18	BH-27 @ 2-3'	Total/NA	Solid	5035	
880-33482-19	BH-28 @ 0-1'	Total/NA	Solid	5035	
MB 880-63203/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-63203/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-63203/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 63005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33482-1	BH 19 @ 0-1'	Total/NA	Solid	8015NM Prep	
880-33482-2	BH 19 @ 3-4'	Total/NA	Solid	8015NM Prep	
880-33482-3	BH-20 @ 0-1'	Total/NA	Solid	8015NM Prep	
880-33482-4	BH-20 @ 1-2'	Total/NA	Solid	8015NM Prep	
880-33482-5	BH-21 @ 0-1'	Total/NA	Solid	8015NM Prep	
880-33482-6	BH-21 @ 1-2'	Total/NA	Solid	8015NM Prep	
880-33482-7	BH-22 @ 0-1'	Total/NA	Solid	8015NM Prep	
880-33482-8	BH-22 @ 1-2'	Total/NA	Solid	8015NM Prep	
880-33482-9	BH-23 @ 0-1'	Total/NA	Solid	8015NM Prep	
880-33482-10	BH-23 @ 1-2'	Total/NA	Solid	8015NM Prep	
880-33482-11	BH-24 @ 0-1'	Total/NA	Solid	8015NM Prep	
880-33482-12	BH-24 @ 1-2'	Total/NA	Solid	8015NM Prep	
880-33482-13	BH-25 @ 0-1'	Total/NA	Solid	8015NM Prep	
880-33482-14	BH-25 @ 1-2'	Total/NA	Solid	8015NM Prep	
880-33482-15	BH-26 @ 0-1'	Total/NA	Solid	8015NM Prep	
880-33482-16	BH-26 @ 3-4'	Total/NA	Solid	8015NM Prep	
880-33482-17	BH-27 @ 0-1'	Total/NA	Solid	8015NM Prep	
880-33482-18	BH-27 @ 2-3'	Total/NA	Solid	8015NM Prep	
880-33482-19	BH-28 @ 0-1'	Total/NA	Solid	8015NM Prep	
MB 880-63005/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-63005/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-63005/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 63030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33482-1	BH 19 @ 0-1'	Total/NA	Solid	8015B NM	63005
880-33482-2	BH 19 @ 3-4'	Total/NA	Solid	8015B NM	63005
880-33482-3	BH-20 @ 0-1'	Total/NA	Solid	8015B NM	63005
880-33482-4	BH-20 @ 1-2'	Total/NA	Solid	8015B NM	63005

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal #094Y

Job ID: 880-33482-1

GC Semi VOA (Continued)

Analysis Batch: 63030 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33482-5	BH-21 @ 0-1'	Total/NA	Solid	8015B NM	63005
880-33482-6	BH-21 @ 1-2'	Total/NA	Solid	8015B NM	63005
880-33482-7	BH-22 @ 0-1'	Total/NA	Solid	8015B NM	63005
880-33482-8	BH-22 @ 1-2'	Total/NA	Solid	8015B NM	63005
880-33482-9	BH-23 @ 0-1'	Total/NA	Solid	8015B NM	63005
880-33482-10	BH-23 @ 1-2'	Total/NA	Solid	8015B NM	63005
880-33482-11	BH-24 @ 0-1'	Total/NA	Solid	8015B NM	63005
880-33482-12	BH-24 @ 1-2'	Total/NA	Solid	8015B NM	63005
880-33482-13	BH-25 @ 0-1'	Total/NA	Solid	8015B NM	63005
880-33482-14	BH-25 @ 1-2'	Total/NA	Solid	8015B NM	63005
880-33482-15	BH-26 @ 0-1'	Total/NA	Solid	8015B NM	63005
880-33482-16	BH-26 @ 3-4'	Total/NA	Solid	8015B NM	63005
880-33482-17	BH-27 @ 0-1'	Total/NA	Solid	8015B NM	63005
880-33482-18	BH-27 @ 2-3'	Total/NA	Solid	8015B NM	63005
880-33482-19	BH-28 @ 0-1'	Total/NA	Solid	8015B NM	63005
MB 880-63005/1-A	Method Blank	Total/NA	Solid	8015B NM	63005
LCS 880-63005/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	63005
LCSD 880-63005/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	63005

HPLC/IC

Leach Batch: 63036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33482-1	BH 19 @ 0-1'	Soluble	Solid	DI Leach	
880-33482-2	BH 19 @ 3-4'	Soluble	Solid	DI Leach	
880-33482-3	BH-20 @ 0-1'	Soluble	Solid	DI Leach	
880-33482-4	BH-20 @ 1-2'	Soluble	Solid	DI Leach	
880-33482-5	BH-21 @ 0-1'	Soluble	Solid	DI Leach	
880-33482-6	BH-21 @ 1-2'	Soluble	Solid	DI Leach	
880-33482-7	BH-22 @ 0-1'	Soluble	Solid	DI Leach	
880-33482-8	BH-22 @ 1-2'	Soluble	Solid	DI Leach	
880-33482-9	BH-23 @ 0-1'	Soluble	Solid	DI Leach	
880-33482-10	BH-23 @ 1-2'	Soluble	Solid	DI Leach	
880-33482-11	BH-24 @ 0-1'	Soluble	Solid	DI Leach	
880-33482-12	BH-24 @ 1-2'	Soluble	Solid	DI Leach	
880-33482-13	BH-25 @ 0-1'	Soluble	Solid	DI Leach	
880-33482-14	BH-25 @ 1-2'	Soluble	Solid	DI Leach	
880-33482-15	BH-26 @ 0-1'	Soluble	Solid	DI Leach	
880-33482-16	BH-26 @ 3-4'	Soluble	Solid	DI Leach	
880-33482-17	BH-27 @ 0-1'	Soluble	Solid	DI Leach	
MB 880-63036/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-63036/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-63036/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-33482-10 MS	BH-23 @ 1-2'	Soluble	Solid	DI Leach	
880-33482-10 MSD	BH-23 @ 1-2'	Soluble	Solid	DI Leach	

Leach Batch: 63037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33482-18	BH-27 @ 2-3'	Soluble	Solid	DI Leach	
880-33482-19	BH-28 @ 0-1'	Soluble	Solid	DI Leach	
MB 880-63037/1-A	Method Blank	Soluble	Solid	DI Leach	

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal #094Y

Job ID: 880-33482-1

HPLC/IC (Continued)

Leach Batch: 63037 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-63037/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-63037/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-33482-18 MS	BH-27 @ 2-3'	Soluble	Solid	DI Leach	
880-33482-18 MSD	BH-27 @ 2-3'	Soluble	Solid	DI Leach	

Analysis Batch: 63236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33482-1	BH 19 @ 0-1'	Soluble	Solid	300.0	63036
880-33482-2	BH 19 @ 3-4'	Soluble	Solid	300.0	63036
880-33482-3	BH-20 @ 0-1'	Soluble	Solid	300.0	63036
880-33482-4	BH-20 @ 1-2'	Soluble	Solid	300.0	63036
880-33482-5	BH-21 @ 0-1'	Soluble	Solid	300.0	63036
880-33482-6	BH-21 @ 1-2'	Soluble	Solid	300.0	63036
880-33482-7	BH-22 @ 0-1'	Soluble	Solid	300.0	63036
880-33482-8	BH-22 @ 1-2'	Soluble	Solid	300.0	63036
880-33482-9	BH-23 @ 0-1'	Soluble	Solid	300.0	63036
880-33482-10	BH-23 @ 1-2'	Soluble	Solid	300.0	63036
880-33482-11	BH-24 @ 0-1'	Soluble	Solid	300.0	63036
880-33482-12	BH-24 @ 1-2'	Soluble	Solid	300.0	63036
880-33482-13	BH-25 @ 0-1'	Soluble	Solid	300.0	63036
880-33482-14	BH-25 @ 1-2'	Soluble	Solid	300.0	63036
880-33482-15	BH-26 @ 0-1'	Soluble	Solid	300.0	63036
880-33482-16	BH-26 @ 3-4'	Soluble	Solid	300.0	63036
880-33482-17	BH-27 @ 0-1'	Soluble	Solid	300.0	63036
MB 880-63036/1-A	Method Blank	Soluble	Solid	300.0	63036
LCS 880-63036/2-A	Lab Control Sample	Soluble	Solid	300.0	63036
LCSD 880-63036/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	63036
880-33482-10 MS	BH-23 @ 1-2'	Soluble	Solid	300.0	63036
880-33482-10 MSD	BH-23 @ 1-2'	Soluble	Solid	300.0	63036

Analysis Batch: 63319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33482-18	BH-27 @ 2-3'	Soluble	Solid	300.0	63037
880-33482-19	BH-28 @ 0-1'	Soluble	Solid	300.0	63037
MB 880-63037/1-A	Method Blank	Soluble	Solid	300.0	63037
LCS 880-63037/2-A	Lab Control Sample	Soluble	Solid	300.0	63037
LCSD 880-63037/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	63037
880-33482-18 MS	BH-27 @ 2-3'	Soluble	Solid	300.0	63037
880-33482-18 MSD	BH-27 @ 2-3'	Soluble	Solid	300.0	63037

General Chemistry

Analysis Batch: 63044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33482-1	BH 19 @ 0-1'	Total/NA	Solid	D2216	
880-33482-2	BH 19 @ 3-4'	Total/NA	Solid	D2216	
880-33482-3	BH-20 @ 0-1'	Total/NA	Solid	D2216	
880-33482-4	BH-20 @ 1-2'	Total/NA	Solid	D2216	
880-33482-5	BH-21 @ 0-1'	Total/NA	Solid	D2216	
880-33482-6	BH-21 @ 1-2'	Total/NA	Solid	D2216	
880-33482-7	BH-22 @ 0-1'	Total/NA	Solid	D2216	

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal #094Y

Job ID: 880-33482-1

General Chemistry (Continued)

Analysis Batch: 63044 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33482-8	BH-22 @ 1-2'	Total/NA	Solid	D2216	
880-33482-9	BH-23 @ 0-1'	Total/NA	Solid	D2216	
880-33482-10	BH-23 @ 1-2'	Total/NA	Solid	D2216	
880-33482-11	BH-24 @ 0-1'	Total/NA	Solid	D2216	
880-33482-12	BH-24 @ 1-2'	Total/NA	Solid	D2216	
880-33482-13	BH-25 @ 0-1'	Total/NA	Solid	D2216	
880-33482-14	BH-25 @ 1-2'	Total/NA	Solid	D2216	
880-33482-15	BH-26 @ 0-1'	Total/NA	Solid	D2216	
880-33482-16	BH-26 @ 3-4'	Total/NA	Solid	D2216	
880-33482-17	BH-27 @ 0-1'	Total/NA	Solid	D2216	
880-33482-18	BH-27 @ 2-3'	Total/NA	Solid	D2216	
880-33482-19	BH-28 @ 0-1'	Total/NA	Solid	D2216	
MB 880-63044/1	Method Blank	Total/NA	Solid	D2216	
880-33482-10 DU	BH-23 @ 1-2'	Total/NA	Solid	D2216	

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-33482-1
Project/Site: Seawolf 1 12 Federal #094Y

Client Sample ID: BH 19 @ 0-1'
Lab Sample ID: 880-33482-1
Date Collected: 09/19/23 13:21
Matrix: Solid
Date Received: 09/21/23 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	63036	09/22/23 08:16	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63236	09/25/23 23:09	CH	EET MID
Total/NA	Analysis	D2216		1			63044	09/22/23 10:12	SMC	EET MID

Client Sample ID: BH 19 @ 0-1'
Lab Sample ID: 880-33482-1
Date Collected: 09/19/23 13:21
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 91.6

Prep 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	63019	09/21/23 16:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63150	09/24/23 18:06	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	63005	09/21/23 14:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63030	09/22/23 11:45	SM	EET MID

Client Sample ID: BH 19 @ 3-4'
Lab Sample ID: 880-33482-2
Date Collected: 09/19/23 13:23
Matrix: Solid
Date Received: 09/21/23 11:46

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	63036	09/22/23 08:16	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63236	09/25/23 23:16	CH	EET MID
Total/NA	Analysis	D2216		1			63044	09/22/23 10:12	SMC	EET MID

Client Sample ID: BH 19 @ 3-4'
Lab Sample ID: 880-33482-2
Date Collected: 09/19/23 13:23
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 88.2

Prep 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	63019	09/21/23 16:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63150	09/24/23 18:32	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	63005	09/21/23 14:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63030	09/22/23 12:06	SM	EET MID

Client Sample ID: BH-20 @ 0-1'
Lab Sample ID: 880-33482-3
Date Collected: 09/19/23 13:31
Matrix: Solid
Date Received: 09/21/23 11:46

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	63036	09/22/23 08:16	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63236	09/25/23 23:22	CH	EET MID
Total/NA	Analysis	D2216		1			63044	09/22/23 10:12	SMC	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-33482-1
Project/Site: Seawolf 1 12 Federal #094Y

Client Sample ID: BH-20 @ 0-1'
Lab Sample ID: 880-33482-3
Date Collected: 09/19/23 13:31
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 93.3

Prep 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	63019	09/21/23 16:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63150	09/24/23 18:58	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	63005	09/21/23 14:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63030	09/22/23 12:28	SM	EET MID

Client Sample ID: BH-20 @ 1-2'
Lab Sample ID: 880-33482-4
Date Collected: 09/19/23 13:34
Matrix: Solid
Date Received: 09/21/23 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	63036	09/22/23 08:16	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63236	09/25/23 23:29	CH	EET MID
Total/NA	Analysis	D2216		1			63044	09/22/23 10:12	SMC	EET MID

Client Sample ID: BH-20 @ 1-2'
Lab Sample ID: 880-33482-4
Date Collected: 09/19/23 13:34
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 93.7

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	63019	09/21/23 16:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63150	09/24/23 19:23	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	63005	09/21/23 14:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63030	09/22/23 12:50	SM	EET MID

Client Sample ID: BH-21 @ 0-1'
Lab Sample ID: 880-33482-5
Date Collected: 09/19/23 13:37
Matrix: Solid
Date Received: 09/21/23 11:46

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	63036	09/22/23 08:16	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63236	09/25/23 23:49	CH	EET MID
Total/NA	Analysis	D2216		1			63044	09/22/23 10:12	SMC	EET MID

Client Sample ID: BH-21 @ 0-1'
Lab Sample ID: 880-33482-5
Date Collected: 09/19/23 13:37
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 89.6

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	63019	09/21/23 16:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63150	09/24/23 19:49	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	63005	09/21/23 14:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63030	09/22/23 13:13	SM	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-33482-1
Project/Site: Seawolf 1 12 Federal #094Y

Client Sample ID: BH-21 @ 1-2'
Lab Sample ID: 880-33482-6
Date Collected: 09/19/23 13:40
Matrix: Solid
Date Received: 09/21/23 11:46

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	63036	09/22/23 08:16	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63236	09/25/23 23:56	CH	EET MID
Total/NA	Analysis	D2216		1			63044	09/22/23 10:12	SMC	EET MID

Client Sample ID: BH-21 @ 1-2'
Lab Sample ID: 880-33482-6
Date Collected: 09/19/23 13:40
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 86.7

Prep 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	63019	09/21/23 16:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63150	09/24/23 20:15	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	63005	09/21/23 14:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63030	09/22/23 13:35	SM	EET MID

Client Sample ID: BH-22 @ 0-1'
Lab Sample ID: 880-33482-7
Date Collected: 09/19/23 13:44
Matrix: Solid
Date Received: 09/21/23 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	63036	09/22/23 08:16	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63236	09/26/23 00:03	CH	EET MID
Total/NA	Analysis	D2216		1			63044	09/22/23 10:12	SMC	EET MID

Client Sample ID: BH-22 @ 0-1'
Lab Sample ID: 880-33482-7
Date Collected: 09/19/23 13:44
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 95.4

Prep 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	63019	09/21/23 16:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63150	09/24/23 20:41	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	63005	09/21/23 14:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63030	09/22/23 13:57	SM	EET MID

Client Sample ID: BH-22 @ 1-2'
Lab Sample ID: 880-33482-8
Date Collected: 09/19/23 13:47
Matrix: Solid
Date Received: 09/21/23 11:46

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	63036	09/22/23 08:16	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63236	09/26/23 00:09	CH	EET MID
Total/NA	Analysis	D2216		1			63044	09/22/23 10:12	SMC	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal #094Y

Job ID: 880-33482-1

Client Sample ID: BH-22 @ 1-2'

Lab Sample ID: 880-33482-8
Date Collected: 09/19/23 13:47
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 92.1

Prep 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	63019	09/21/23 16:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63150	09/24/23 21:07	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	63005	09/21/23 14:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63030	09/22/23 14:20	SM	EET MID

Client Sample ID: BH-23 @ 0-1'

Lab Sample ID: 880-33482-9
Date Collected: 09/19/23 13:54
Matrix: Solid
Date Received: 09/21/23 11:46

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	63036	09/22/23 08:16	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63236	09/26/23 00:16	CH	EET MID
Total/NA	Analysis	D2216		1			63044	09/22/23 10:12	SMC	EET MID

Client Sample ID: BH-23 @ 0-1'

Lab Sample ID: 880-33482-9
Date Collected: 09/19/23 13:54
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 94.3

Prep 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	63019	09/21/23 16:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63150	09/24/23 21:32	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	63005	09/21/23 14:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63030	09/22/23 14:42	SM	EET MID

Client Sample ID: BH-23 @ 1-2'

Lab Sample ID: 880-33482-10
Date Collected: 09/19/23 13:52
Matrix: Solid
Date Received: 09/21/23 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	63036	09/22/23 08:16	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63236	09/26/23 00:23	CH	EET MID
Total/NA	Analysis	D2216		1			63044	09/22/23 10:12	SMC	EET MID

Client Sample ID: BH-23 @ 1-2'

Lab Sample ID: 880-33482-10
Date Collected: 09/19/23 13:52
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 94.9

Prep 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	63019	09/21/23 16:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63150	09/24/23 21:58	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	63005	09/21/23 14:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63030	09/22/23 15:28	SM	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal #094Y

Job ID: 880-33482-1

Client Sample ID: BH-24 @ 0-1'
Date Collected: 09/19/23 13:51
Date Received: 09/21/23 11:46

Lab Sample ID: 880-33482-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	63036	09/22/23 08:16	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63236	09/26/23 00:43	CH	EET MID
Total/NA	Analysis	D2216		1			63044	09/22/23 10:12	SMC	EET MID

Client Sample ID: BH-24 @ 0-1'
Date Collected: 09/19/23 13:51
Date Received: 09/21/23 11:46

Lab Sample ID: 880-33482-11
Matrix: Solid
Percent Solids: 95.4

Prep 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	63203	09/25/23 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63185	09/26/23 04:05	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	63005	09/21/23 14:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63030	09/22/23 15:50	SM	EET MID

Client Sample ID: BH-24 @ 1-2'
Date Collected: 09/19/23 13:54
Date Received: 09/21/23 11:46

Lab Sample ID: 880-33482-12
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			4.95 g	50 mL	63036	09/22/23 08:16	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63236	09/26/23 00:49	CH	EET MID
Total/NA	Analysis	D2216		1			63044	09/22/23 10:12	SMC	EET MID

Client Sample ID: BH-24 @ 1-2'
Date Collected: 09/19/23 13:54
Date Received: 09/21/23 11:46

Lab Sample ID: 880-33482-12
Matrix: Solid
Percent Solids: 92.5

Prep 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	63203	09/25/23 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63185	09/26/23 04:30	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	63005	09/21/23 14:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63030	09/22/23 16:12	SM	EET MID

Client Sample ID: BH-25 @ 0-1'
Date Collected: 09/19/23 13:59
Date Received: 09/21/23 11:46

Lab Sample ID: 880-33482-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	63036	09/22/23 08:16	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63236	09/26/23 01:09	CH	EET MID
Total/NA	Analysis	D2216		1			63044	09/22/23 10:12	SMC	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-33482-1
Project/Site: Seawolf 1 12 Federal #094Y

Client Sample ID: BH-25 @ 0-1'
Lab Sample ID: 880-33482-13
Date Collected: 09/19/23 13:59
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 94.2

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	63203	09/25/23 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63185	09/26/23 04:56	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	63005	09/21/23 14:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63030	09/22/23 16:34	SM	EET MID

Client Sample ID: BH-25 @ 1-2'
Lab Sample ID: 880-33482-14
Date Collected: 09/19/23 13:59
Matrix: Solid
Date Received: 09/21/23 11:46

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	63036	09/22/23 08:16	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63236	09/26/23 01:16	CH	EET MID
Total/NA	Analysis	D2216		1			63044	09/22/23 10:12	SMC	EET MID

Client Sample ID: BH-25 @ 1-2'
Lab Sample ID: 880-33482-14
Date Collected: 09/19/23 13:59
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 88.8

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	63203	09/25/23 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63185	09/26/23 05:22	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	63005	09/21/23 14:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63030	09/22/23 16:56	SM	EET MID

Client Sample ID: BH-26 @ 0-1'
Lab Sample ID: 880-33482-15
Date Collected: 09/19/23 14:09
Matrix: Solid
Date Received: 09/21/23 11:46

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	63036	09/22/23 08:16	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63236	09/26/23 01:23	CH	EET MID
Total/NA	Analysis	D2216		1			63044	09/22/23 10:12	SMC	EET MID

Client Sample ID: BH-26 @ 0-1'
Lab Sample ID: 880-33482-15
Date Collected: 09/19/23 14:09
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 80.3

Prep 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	63203	09/25/23 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63185	09/26/23 07:07	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	63005	09/21/23 14:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63030	09/22/23 17:18	SM	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-33482-1
Project/Site: Seawolf 1 12 Federal #094Y

Client Sample ID: BH-26 @ 3-4'
Lab Sample ID: 880-33482-16
Date Collected: 09/19/23 14:12
Matrix: Solid
Date Received: 09/21/23 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	63036	09/22/23 08:16	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63236	09/26/23 01:29	CH	EET MID
Total/NA	Analysis	D2216		1			63044	09/22/23 10:12	SMC	EET MID

Client Sample ID: BH-26 @ 3-4'
Lab Sample ID: 880-33482-16
Date Collected: 09/19/23 14:12
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 93.4

Prep 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	63203	09/25/23 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63185	09/26/23 07:34	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	63005	09/21/23 14:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63030	09/22/23 17:39	SM	EET MID

Client Sample ID: BH-27 @ 0-1'
Lab Sample ID: 880-33482-17
Date Collected: 09/19/23 15:21
Matrix: Solid
Date Received: 09/21/23 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	63036	09/22/23 08:16	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63236	09/26/23 01:36	CH	EET MID
Total/NA	Analysis	D2216		1			63044	09/22/23 10:12	SMC	EET MID

Client Sample ID: BH-27 @ 0-1'
Lab Sample ID: 880-33482-17
Date Collected: 09/19/23 15:21
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 98.4

Prep 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	63203	09/25/23 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63185	09/26/23 08:01	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	63005	09/21/23 14:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63030	09/22/23 18:01	SM	EET MID

Client Sample ID: BH-27 @ 2-3'
Lab Sample ID: 880-33482-18
Date Collected: 09/19/23 16:08
Matrix: Solid
Date Received: 09/21/23 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	63037	09/22/23 08:18	AG	EET MID
Soluble	Analysis	300.0		1			63319	09/26/23 13:34	CH	EET MID
Total/NA	Analysis	D2216		1			63044	09/22/23 10:12	SMC	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-33482-1
Project/Site: Seawolf 1 12 Federal #094Y

Client Sample ID: BH-27 @ 2-3'
Lab Sample ID: 880-33482-18
Date Collected: 09/19/23 16:08
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 95.2

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	63203	09/25/23 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63185	09/26/23 08:27	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	63005	09/21/23 14:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63030	09/22/23 18:23	SM	EET MID

Client Sample ID: BH-28 @ 0-1'
Lab Sample ID: 880-33482-19
Date Collected: 09/19/23 16:12
Matrix: Solid
Date Received: 09/21/23 11:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	63037	09/22/23 08:18	AG	EET MID
Soluble	Analysis	300.0		1			63319	09/26/23 13:54	CH	EET MID
Total/NA	Analysis	D2216		1			63044	09/22/23 10:12	SMC	EET MID

Client Sample ID: BH-28 @ 0-1'
Lab Sample ID: 880-33482-19
Date Collected: 09/19/23 16:12
Matrix: Solid
Date Received: 09/21/23 11:46
Percent Solids: 97.4

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	63203	09/25/23 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63185	09/26/23 08:53	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	63005	09/21/23 14:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63030	09/22/23 18:44	SM	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Civil & Environmental Consultants Inc
Job ID: 880-33482-1
Project/Site: Seawolf 1 12 Federal #094Y

Laboratory: Eurofins Midland

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

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

Method Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal #094Y

Job ID: 880-33482-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
D2216	Percent Moisture	ASTM	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal #094Y

Job ID: 880-33482-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-33482-1	BH 19 @ 0-1'	Solid	09/19/23 13:21	09/21/23 11:46
880-33482-2	BH 19 @ 3-4'	Solid	09/19/23 13:23	09/21/23 11:46
880-33482-3	BH-20 @ 0-1'	Solid	09/19/23 13:31	09/21/23 11:46
880-33482-4	BH-20 @ 1-2'	Solid	09/19/23 13:34	09/21/23 11:46
880-33482-5	BH-21 @ 0-1'	Solid	09/19/23 13:37	09/21/23 11:46
880-33482-6	BH-21 @ 1-2'	Solid	09/19/23 13:40	09/21/23 11:46
880-33482-7	BH-22 @ 0-1'	Solid	09/19/23 13:44	09/21/23 11:46
880-33482-8	BH-22 @ 1-2'	Solid	09/19/23 13:47	09/21/23 11:46
880-33482-9	BH-23 @ 0-1'	Solid	09/19/23 13:54	09/21/23 11:46
880-33482-10	BH-23 @ 1-2'	Solid	09/19/23 13:52	09/21/23 11:46
880-33482-11	BH-24 @ 0-1'	Solid	09/19/23 13:51	09/21/23 11:46
880-33482-12	BH-24 @ 1-2'	Solid	09/19/23 13:54	09/21/23 11:46
880-33482-13	BH-25 @ 0-1'	Solid	09/19/23 13:59	09/21/23 11:46
880-33482-14	BH-25 @ 1-2'	Solid	09/19/23 13:59	09/21/23 11:46
880-33482-15	BH-26 @ 0-1'	Solid	09/19/23 14:09	09/21/23 11:46
880-33482-16	BH-26 @ 3-4'	Solid	09/19/23 14:12	09/21/23 11:46
880-33482-17	BH-27 @ 0-1'	Solid	09/19/23 15:21	09/21/23 11:46
880-33482-18	BH-27 @ 2-3'	Solid	09/19/23 16:08	09/21/23 11:46
880-33482-19	BH-28 @ 0-1'	Solid	09/19/23 16:12	09/21/23 11:46

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Eurofins Midland
1211 W Florida Ave
Midland, TX 79701
Phone (432) 704-5440

Chain of Custody Record

880-33482 Chain of Custody

Client Information	Sampler: N, SHEPHERD	Lab PM: Richter, Travis W	Carrier Tracking No:	Job #:
Client Contact: Ms Laura Campbell / BRAD BRITAIN	Phone: 405 815 7664	E-Mail: Travis Richter@et.eurofinsus com	State of Origin: N M	
Company: Civil & Environmental Consultants Inc	PWSID:			
Address: 700 Cherrington Parkway	Due Date Requested			
City: Moon Township	TAT Requested (days)			
State, Zip: PA, 15108	Compliance Project: Δ Yes Δ No			
Phone: 800-365-2324(Tel)	PO #:			
Email: lcampbell@cecinc.com; bbritain@cecinc.com	WO #: DENVER WO 21126164			
Project Name: SEAWOLF 1 12 FEDERAL #094Y	Project #: 88001737			
Site	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D - Chloride	8015MOD_NM - Full TPH	8021B - BTEX	MOISTURE_2540G - Local Method	Total Number of containers	Special Instructions/Note
			Preservation Code:				N	N	N	N		
BH 19 @ 0-1'	9/19/23	1324	G	Solid			X	X	X	X	2	4 oz
BH 19 @ 3-4'	9/19/23	1323	G	Solid			X	X	X	X	2	
BH-20 @ 0-1'	9/19/23	1331	G	Solid			X	X	X	X	2	
BH-20 @ 1-2'	9/19/23	1334	G	Solid			X	X	X	X	2	
BH-21 @ 0-1'	9/19/23	1337	G	Solid			X	X	X	X	2	
BH-21 @ 1-2'	9/19/23	1340	G	Solid			X	X	X	X	2	
BH-22 @ 0-1'	9/19/23	1344	G	Solid			X	X	X	X	2	
BH-22 @ 1-2'	9/19/23	1347	G	Solid			X	X	X	X	2	
BH-23 @ 0-1'	9/19/23	1354	G	Solid			X	X	X	X	2	
BH-23 @ 1-2'	9/19/23	1352	G	Solid			X	X	X	X	2	
BH-24 @ 0-1'	9/19/23	1351	G	Solid			X	X	X	X	2	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify) II

Special Instructions/QC Requirements: EDD

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		9/20/23 1000	CEC		9/21/23	
2	Relinquished by	Date/Time	Company	Received by	Date/Time: 1113	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 2.5 | 2.2

Ver: 01/16/2019

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9/27/2023

Received by OCD: 12/18/2024 11:14:17 AM

Released to Imaging: 12/27/2024 8:50:37 AM

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Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone (432) 704-5440

Chain of Custody Record

Loc: 880
33482

Environment Testing

2

Client Information	Sampler	Lab PM: Richter Travis W	Carrier Tracking No(s)
Client Contact: Ms Laura Campbell / Brad Bentaw	Phone	E-Mail: Travis Richter@et.eurofinsus com	State of Origin:
Company: Civil & Environmental Consultants Inc	PWSID:		Job #
Address: 700 Cherrington Parkway	Due Date Requested		
City: Moon Township	TAT Requested (days)		
State Zip: PA 15108	Compliance Project: Δ Yes Δ No		
Phone: 800-365-2324(Tel)	PO #:		
Email: lcampbell@cecinc.com; bbritain@cecinc.com	WO #: DENOV WO-21126164		
Project Name: SEAWOLF 1 12 FEDERAL #094Y	Project #: 88001737		
Site	SSOW#:		

Analysis Requested

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D - Chloride	8015MOD_NM - Full TPH	8021B - BTEX	MOISTURE_2540G - Local Method	Total Number of containers	Special Instructions/Note.
			Preservation Code:				N	N	N	N		
BH-24 @ 1-2'	9/19/23	1354	G	Solid			X	X	X	X	2	4oz ↓
BH-25 @ ~~0~~ 0-1'	9/19/23	1359	G	Solid			X	X	X	X	2	
BH-25 @ 1-2'	9/19/23	1359	G	Solid			X	X	X	X	2	
~~BH-25 @~~ BH-26 @ 0-1'	9/19/23	1409	G	Solid			X	X	X	X	2	
BH-26 @ 3-4'	9/19/23	1412	G	Solid			X	X	X	X	2	
BH-27 @ 0-1'	9/19/23	1521	G	Solid			X	X	X	X	2	
BH-27 @ 2-3'	9/19/23	1808	G	Solid			X	X	X	X	2	
BH-28 @ 0-1'	9/19/23	1612	G	Solid			X	X	X	X	2	
				Solid								

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify): I I

Special Instructions/QC Requirements: EDD

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	9/20/23	CEC	[signature]	9/21/23	
2					11:13	
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks.

Ver: 01/16/2019

Received by OCD: 12/18/2024 11:14:17 AM

Released to Imaging: 12/27/2024 8:50:37 AM

9/27/2023

Login Sample Receipt Checklist

Client: Civil & Environmental Consultants Inc

Job Number: 880-33482-1

Login Number: 33482

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Laura Campbell
Civil & Environmental Consultants Inc
700 Cherrington Parkway
Moon Township, Pennsylvania 15108

Generated 7/5/2024 4:50:13 PM

JOB DESCRIPTION

Seawolf 1 12 Fed #094Y

JOB NUMBER

880-45368-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 12/27/2024 8:30:37 AM

my EOL

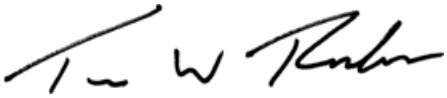
Eurofins Midland

Job Notes

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

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

Authorization



Generated
7/5/2024 4:50:13 PM

Authorized for release by
Travis Richter, Project Manager
Travis.Richter@et.eurofinsus.com
(281)794-7216

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Definitions/Glossary

Client: Civil & Environmental Consultants Inc Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Definitions/Glossary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Civil & Environmental Consultants Inc
Project: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

Job ID: 880-45368-1 Eurofins Midland

Job Narrative
880-45368-1

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

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

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

Receipt
The samples were received on 6/27/2024 5:40 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 3.1°C.

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-84486 and analytical batch 880-84450 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-84417, 880-84485 and 880-84486 and analytical batch 880-84450 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS 43 (880-45368-28), CS 50 (880-45368-34), CS 52 (880-45368-36), CS 55 (880-45368-39), CS 67 (880-45368-50) and CS 76 (880-45368-59). 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: CS 19 (880-45368-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-84630 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-84630/33).

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS 118 (880-45368-5) and CS 30 (880-45368-17). Evidence of matrix interferences is not obvious.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-84630 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-84630/20).

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-84945 and analytical batch 880-84941 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS 53 (880-45368-37), CS 66 (880-45368-49), CS 72 (880-45368-55) and CS 74 (880-45368-57). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-84488 and analytical batch 880-84448 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Diesel Range Organics

Case Narrative

Client: Civil & Environmental Consultants Inc
Project: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

Job ID: 880-45368-1 (Continued) Eurofins Midland

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-84585 and analytical batch 880-84626 was outside the upper control limits.

Method 8015MOD_NM: The method blank for preparation batch 880-84585 and analytical batch 880-84626 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-84626 recovered below the lower control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-84626/20).

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-84446 and analytical batch 880-84620 was outside the upper control limits.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-84594 and analytical batch 880-84647 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS 105 (880-45368-83), (LCS 880-84594/2-A), (880-45368-A-83-D MS) and (880-45368-A-83-E MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-84594 and analytical batch 880-84647 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-84594 and analytical batch 880-84647 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The method blank for preparation batch 880-84584 and analytical batch 880-84611 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-84541 and 880-84584 and analytical batch 880-84611 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: CS 89 (880-45368-60). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-84810 and analytical batch 880-84792 was outside the upper control limits.

Method 8015MOD_NM: The method blank for preparation batch 880-84810 and analytical batch 880-84792 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-84526 and analytical batch 880-84995 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-84526 and analytical batch 880-84995 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: CS 70 (880-45368-53). Evidence of matrix interferences is not obvious.

Case Narrative

Client: Civil & Environmental Consultants Inc
Project: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

Job ID: 880-45368-1 (Continued) Eurofins Midland

Method 8015MOD_NM: The method blank for preparation batch 880-84544 and analytical batch 880-84998 contained Diesel Range Organics (Over C10-C28) and Oil Range Organics (Over C28-C36) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-84544 and analytical batch 880-84998 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 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS 106 (880-45368-84), CS 113 (880-45368-87) and CS 114 (880-45368-88). 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 - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-84487 and analytical batch 880-84738 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 - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-84493 and analytical batch 880-84713 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 - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-84498 and analytical batch 880-84734 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 117
Lab Sample ID: 880-45368-1
Date Collected: 06/25/24 13:50
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00142	U	0.00204	0.00142	mg/Kg	☼	06/28/24 10:58	06/29/24 18:05	1
Toluene	<0.00203	U	0.00204	0.00203	mg/Kg	☼	06/28/24 10:58	06/29/24 18:05	1
Ethylbenzene	<0.00111	U	0.00204	0.00111	mg/Kg	☼	06/28/24 10:58	06/29/24 18:05	1
m-Xylene & p-Xylene	<0.00233	U	0.00407	0.00233	mg/Kg	☼	06/28/24 10:58	06/29/24 18:05	1
o-Xylene	<0.00161	U	0.00204	0.00161	mg/Kg	☼	06/28/24 10:58	06/29/24 18:05	1
Xylenes, Total	<0.00233	U	0.00407	0.00233	mg/Kg	☼	06/28/24 10:58	06/29/24 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*06/28/24 10:58*	*06/29/24 18:05*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/28/24 10:58*	*06/29/24 18:05*	*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	**17.6**	**J B**	51.0	11.2	mg/Kg	☼	06/28/24 13:48	07/04/24 19:22	1
Diesel Range Organics (Over C10-C28)	**19.2**	**J F1**	51.0	15.3	mg/Kg	☼	06/28/24 13:48	07/04/24 19:22	1
Oil Range Organics (Over C28-C36)	<12.8	U	51.0	12.8	mg/Kg	☼	06/28/24 13:48	07/04/24 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*06/28/24 13:48*	*07/04/24 19:22*	*1*
o-Terphenyl	*103*		*70 - 130*	*06/28/24 13:48*	*07/04/24 19:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1630**		25.2	1.99	mg/Kg			07/02/24 09:49	5

Client Sample ID: CS 7
Lab Sample ID: 880-45368-2
Date Collected: 06/25/24 13:27
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00143	U	0.00206	0.00143	mg/Kg	☼	06/28/24 10:58	06/29/24 18:32	1
Toluene	<0.00206	U	0.00206	0.00206	mg/Kg	☼	06/28/24 10:58	06/29/24 18:32	1
Ethylbenzene	<0.00112	U	0.00206	0.00112	mg/Kg	☼	06/28/24 10:58	06/29/24 18:32	1
m-Xylene & p-Xylene	<0.00235	U	0.00412	0.00235	mg/Kg	☼	06/28/24 10:58	06/29/24 18:32	1
o-Xylene	<0.00163	U	0.00206	0.00163	mg/Kg	☼	06/28/24 10:58	06/29/24 18:32	1
Xylenes, Total	<0.00235	U	0.00412	0.00235	mg/Kg	☼	06/28/24 10:58	06/29/24 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*06/28/24 10:58*	*06/29/24 18:32*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*06/28/24 10:58*	*06/29/24 18:32*	*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	**31.4**	**J B**	51.8	11.4	mg/Kg	☼	06/28/24 13:48	07/04/24 20:23	1
Diesel Range Organics (Over C10-C28)	**33.8**	**J**	51.8	15.5	mg/Kg	☼	06/28/24 13:48	07/04/24 20:23	1
Oil Range Organics (Over C28-C36)	<13.0	U	51.8	13.0	mg/Kg	☼	06/28/24 13:48	07/04/24 20:23	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 7
Lab Sample ID: 880-45368-2
Date Collected: 06/25/24 13:27
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	06/28/24 13:48	07/04/24 20:23	1
o-Terphenyl	93		70 - 130	06/28/24 13:48	07/04/24 20:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	104		5.00	0.395	mg/Kg			07/02/24 09:54	1

Client Sample ID: CS 8
Lab Sample ID: 880-45368-3
Date Collected: 06/25/24 13:29
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 96.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00145	U	0.00209	0.00145	mg/Kg	☼	06/28/24 10:58	06/29/24 18:59	1
Toluene	<0.00209	U	0.00209	0.00209	mg/Kg	☼	06/28/24 10:58	06/29/24 18:59	1
Ethylbenzene	<0.00114	U	0.00209	0.00114	mg/Kg	☼	06/28/24 10:58	06/29/24 18:59	1
m-Xylene & p-Xylene	<0.00239	U	0.00418	0.00239	mg/Kg	☼	06/28/24 10:58	06/29/24 18:59	1
o-Xylene	<0.00165	U	0.00209	0.00165	mg/Kg	☼	06/28/24 10:58	06/29/24 18:59	1
Xylenes, Total	<0.00239	U	0.00418	0.00239	mg/Kg	☼	06/28/24 10:58	06/29/24 18:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	06/28/24 10:58	06/29/24 18:59	1
1,4-Difluorobenzene (Surr)	90		70 - 130	06/28/24 10:58	06/29/24 18:59	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	31.0	J B	51.4	11.3	mg/Kg	☼	06/28/24 13:48	07/04/24 20:43	1
Diesel Range Organics (Over C10-C28)	33.8	J	51.4	15.4	mg/Kg	☼	06/28/24 13:48	07/04/24 20:43	1
Oil Range Organics (Over C28-C36)	<12.9	U	51.4	12.9	mg/Kg	☼	06/28/24 13:48	07/04/24 20:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	06/28/24 13:48	07/04/24 20:43	1
o-Terphenyl	94		70 - 130	06/28/24 13:48	07/04/24 20:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	155		5.00	0.395	mg/Kg			07/02/24 09:59	1

Client Sample ID: CS 112
Lab Sample ID: 880-45368-4
Date Collected: 06/26/24 13:42
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00167	U	0.00240	0.00167	mg/Kg	☼	06/28/24 10:58	06/29/24 19:26	1
Toluene	<0.00240	U	0.00240	0.00240	mg/Kg	☼	06/28/24 10:58	06/29/24 19:26	1
Ethylbenzene	<0.00131	U	0.00240	0.00131	mg/Kg	☼	06/28/24 10:58	06/29/24 19:26	1
m-Xylene & p-Xylene	<0.00275	U	0.00481	0.00275	mg/Kg	☼	06/28/24 10:58	06/29/24 19:26	1
o-Xylene	<0.00190	U	0.00240	0.00190	mg/Kg	☼	06/28/24 10:58	06/29/24 19:26	1
Xylenes, Total	<0.00275	U	0.00481	0.00275	mg/Kg	☼	06/28/24 10:58	06/29/24 19:26	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 112
Lab Sample ID: 880-45368-4
Date Collected: 06/26/24 13:42
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 82.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*06/28/24 10:58*	*06/29/24 19:26*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*06/28/24 10:58*	*06/29/24 19:26*	*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	**20.5**	**J B**	60.4	13.3	mg/Kg	☼	06/28/24 13:48	07/04/24 21:03	1
Diesel Range Organics (Over C10-C28)	<18.1	U	60.4	18.1	mg/Kg	☼	06/28/24 13:48	07/04/24 21:03	1
Oil Range Organics (Over C28-C36)	<15.1	U	60.4	15.1	mg/Kg	☼	06/28/24 13:48	07/04/24 21:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*87*		*70 - 130*	*06/28/24 13:48*	*07/04/24 21:03*	*1*
o-Terphenyl	*89*		*70 - 130*	*06/28/24 13:48*	*07/04/24 21:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**537**		5.00	0.395	mg/Kg			07/02/24 10:15	1

Client Sample ID: CS 118
Lab Sample ID: 880-45368-5
Date Collected: 06/26/24 13:52
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00203	0.00141	mg/Kg	☼	06/28/24 10:58	06/29/24 19:53	1
Toluene	<0.00203	U	0.00203	0.00203	mg/Kg	☼	06/28/24 10:58	06/29/24 19:53	1
Ethylbenzene	<0.00111	U	0.00203	0.00111	mg/Kg	☼	06/28/24 10:58	06/29/24 19:53	1
m-Xylene & p-Xylene	<0.00232	U	0.00407	0.00232	mg/Kg	☼	06/28/24 10:58	06/29/24 19:53	1
o-Xylene	<0.00161	U	0.00203	0.00161	mg/Kg	☼	06/28/24 10:58	06/29/24 19:53	1
Xylenes, Total	<0.00232	U	0.00407	0.00232	mg/Kg	☼	06/28/24 10:58	06/29/24 19:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*06/28/24 10:58*	*06/29/24 19:53*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*06/28/24 10:58*	*06/29/24 19:53*	*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	**45.5**	**J B**	50.5	11.1	mg/Kg	☼	06/28/24 13:48	07/04/24 21:24	1
Diesel Range Organics (Over C10-C28)	**19.7**	**J**	50.5	15.2	mg/Kg	☼	06/28/24 13:48	07/04/24 21:24	1
Oil Range Organics (Over C28-C36)	<12.6	U	50.5	12.6	mg/Kg	☼	06/28/24 13:48	07/04/24 21:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*100*		*70 - 130*	*06/28/24 13:48*	*07/04/24 21:24*	*1*
o-Terphenyl	*96*		*70 - 130*	*06/28/24 13:48*	*07/04/24 21:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**678**		4.96	0.392	mg/Kg			07/02/24 10:20	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 15
Lab Sample ID: 880-45368-6
Date Collected: 06/26/24 13:21
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00203	0.00141	mg/Kg	☼	06/28/24 10:58	06/29/24 20:20	1
Toluene	<0.00203	U	0.00203	0.00203	mg/Kg	☼	06/28/24 10:58	06/29/24 20:20	1
Ethylbenzene	<0.00111	U	0.00203	0.00111	mg/Kg	☼	06/28/24 10:58	06/29/24 20:20	1
m-Xylene & p-Xylene	<0.00232	U	0.00406	0.00232	mg/Kg	☼	06/28/24 10:58	06/29/24 20:20	1
o-Xylene	<0.00161	U	0.00203	0.00161	mg/Kg	☼	06/28/24 10:58	06/29/24 20:20	1
Xylenes, Total	<0.00232	U	0.00406	0.00232	mg/Kg	☼	06/28/24 10:58	06/29/24 20:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*06/28/24 10:58*	*06/29/24 20:20*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/28/24 10:58*	*06/29/24 20:20*	*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	**41.1**	**J B**	50.4	11.1	mg/Kg	☼	06/28/24 13:48	07/04/24 21:45	1
Diesel Range Organics (Over C10-C28)	**32.8**	**J**	50.4	15.1	mg/Kg	☼	06/28/24 13:48	07/04/24 21:45	1
Oil Range Organics (Over C28-C36)	<12.6	U	50.4	12.6	mg/Kg	☼	06/28/24 13:48	07/04/24 21:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*06/28/24 13:48*	*07/04/24 21:45*	*1*
o-Terphenyl	*91*		*70 - 130*	*06/28/24 13:48*	*07/04/24 21:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**613**		4.98	0.393	mg/Kg			07/02/24 10:25	1

Client Sample ID: CS 16
Lab Sample ID: 880-45368-7
Date Collected: 06/26/24 13:23
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00202	0.00141	mg/Kg	☼	06/28/24 10:58	06/29/24 20:46	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg	☼	06/28/24 10:58	06/29/24 20:46	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg	☼	06/28/24 10:58	06/29/24 20:46	1
m-Xylene & p-Xylene	<0.00231	U	0.00405	0.00231	mg/Kg	☼	06/28/24 10:58	06/29/24 20:46	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg	☼	06/28/24 10:58	06/29/24 20:46	1
Xylenes, Total	<0.00231	U	0.00405	0.00231	mg/Kg	☼	06/28/24 10:58	06/29/24 20:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*06/28/24 10:58*	*06/29/24 20:46*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/28/24 10:58*	*06/29/24 20:46*	*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	**27.9**	**J B**	50.5	11.1	mg/Kg	☼	06/28/24 13:48	07/04/24 22:05	1
Diesel Range Organics (Over C10-C28)	**67.2**		50.5	15.1	mg/Kg	☼	06/28/24 13:48	07/04/24 22:05	1
Oil Range Organics (Over C28-C36)	<12.6	U	50.5	12.6	mg/Kg	☼	06/28/24 13:48	07/04/24 22:05	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 16
Lab Sample ID: 880-45368-7
Date Collected: 06/26/24 13:23
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*06/28/24 13:48*	*07/04/24 22:05*	*1*
o-Terphenyl	*95*		*70 - 130*	*06/28/24 13:48*	*07/04/24 22:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**402**		5.04	0.398	mg/Kg			07/02/24 10:31	1

Client Sample ID: CS 17
Lab Sample ID: 880-45368-8
Date Collected: 06/26/24 13:25
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 99.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg	☼	06/28/24 10:58	06/29/24 21:13	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg	☼	06/28/24 10:58	06/29/24 21:13	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg	☼	06/28/24 10:58	06/29/24 21:13	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg	☼	06/28/24 10:58	06/29/24 21:13	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg	☼	06/28/24 10:58	06/29/24 21:13	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg	☼	06/28/24 10:58	06/29/24 21:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*06/28/24 10:58*	*06/29/24 21:13*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/28/24 10:58*	*06/29/24 21:13*	*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	<11.1	U	50.5	11.1	mg/Kg	☼	06/28/24 13:48	07/04/24 22:25	1
Diesel Range Organics (Over C10-C28)	**1040**		50.5	15.1	mg/Kg	☼	06/28/24 13:48	07/04/24 22:25	1
Oil Range Organics (Over C28-C36)	<12.6	U	50.5	12.6	mg/Kg	☼	06/28/24 13:48	07/04/24 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*06/28/24 13:48*	*07/04/24 22:25*	*1*
o-Terphenyl	*81*		*70 - 130*	*06/28/24 13:48*	*07/04/24 22:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**140**		5.05	0.399	mg/Kg			07/02/24 10:36	1

Client Sample ID: CS 18
Lab Sample ID: 880-45368-9
Date Collected: 06/26/24 13:27
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00203	0.00141	mg/Kg	☼	06/28/24 10:58	06/29/24 21:40	1
Toluene	<0.00203	U	0.00203	0.00203	mg/Kg	☼	06/28/24 10:58	06/29/24 21:40	1
Ethylbenzene	<0.00110	U	0.00203	0.00110	mg/Kg	☼	06/28/24 10:58	06/29/24 21:40	1
m-Xylene & p-Xylene	<0.00232	U	0.00406	0.00232	mg/Kg	☼	06/28/24 10:58	06/29/24 21:40	1
o-Xylene	<0.00161	U	0.00203	0.00161	mg/Kg	☼	06/28/24 10:58	06/29/24 21:40	1
Xylenes, Total	<0.00232	U	0.00406	0.00232	mg/Kg	☼	06/28/24 10:58	06/29/24 21:40	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 18
Lab Sample ID: 880-45368-9
Date Collected: 06/26/24 13:27
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*06/28/24 10:58*	*06/29/24 21:40*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*06/28/24 10:58*	*06/29/24 21:40*	*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	<11.2	U	50.9	11.2	mg/Kg	☼	06/28/24 13:48	07/05/24 02:35	1
Diesel Range Organics (Over C10-C28)	**1810**		50.9	15.3	mg/Kg	☼	06/28/24 13:48	07/05/24 02:35	1
Oil Range Organics (Over C28-C36)	<12.7	U	50.9	12.7	mg/Kg	☼	06/28/24 13:48	07/05/24 02:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*06/28/24 13:48*	*07/05/24 02:35*	*1*
o-Terphenyl	*82*		*70 - 130*	*06/28/24 13:48*	*07/05/24 02:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**217**		5.02	0.397	mg/Kg			07/02/24 10:41	1

Client Sample ID: CS 19
Lab Sample ID: 880-45368-10
Date Collected: 06/26/24 13:29
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 96.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00143	U	0.00205	0.00143	mg/Kg	☼	06/28/24 10:58	06/29/24 22:07	1
Toluene	<0.00205	U	0.00205	0.00205	mg/Kg	☼	06/28/24 10:58	06/29/24 22:07	1
Ethylbenzene	<0.00112	U	0.00205	0.00112	mg/Kg	☼	06/28/24 10:58	06/29/24 22:07	1
m-Xylene & p-Xylene	<0.00235	U	0.00411	0.00235	mg/Kg	☼	06/28/24 10:58	06/29/24 22:07	1
o-Xylene	<0.00163	U	0.00205	0.00163	mg/Kg	☼	06/28/24 10:58	06/29/24 22:07	1
Xylenes, Total	<0.00235	U	0.00411	0.00235	mg/Kg	☼	06/28/24 10:58	06/29/24 22:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*	*06/28/24 10:58*	*06/29/24 22:07*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/28/24 10:58*	*06/29/24 22:07*	*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	**34.6**	**J B**	52.3	11.5	mg/Kg	☼	06/28/24 13:48	07/04/24 22:46	1
Diesel Range Organics (Over C10-C28)	**118**		52.3	15.7	mg/Kg	☼	06/28/24 13:48	07/04/24 22:46	1
Oil Range Organics (Over C28-C36)	<13.1	U	52.3	13.1	mg/Kg	☼	06/28/24 13:48	07/04/24 22:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*06/28/24 13:48*	*07/04/24 22:46*	*1*
o-Terphenyl	*100*		*70 - 130*	*06/28/24 13:48*	*07/04/24 22:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**300**		4.99	0.394	mg/Kg			07/02/24 10:57	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 20
Lab Sample ID: 880-45368-11
Date Collected: 06/26/24 13:31
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00142	U	0.00205	0.00142	mg/Kg	☼	06/28/24 10:58	06/29/24 23:53	1
Toluene	<0.00204	U	0.00205	0.00204	mg/Kg	☼	06/28/24 10:58	06/29/24 23:53	1
Ethylbenzene	<0.00111	U	0.00205	0.00111	mg/Kg	☼	06/28/24 10:58	06/29/24 23:53	1
m-Xylene & p-Xylene	<0.00234	U	0.00409	0.00234	mg/Kg	☼	06/28/24 10:58	06/29/24 23:53	1
o-Xylene	<0.00162	U	0.00205	0.00162	mg/Kg	☼	06/28/24 10:58	06/29/24 23:53	1
Xylenes, Total	<0.00234	U	0.00409	0.00234	mg/Kg	☼	06/28/24 10:58	06/29/24 23:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*06/28/24 10:58*	*06/29/24 23:53*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/28/24 10:58*	*06/29/24 23:53*	*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	**43.3**	**J B**	51.1	11.2	mg/Kg	☼	06/28/24 13:48	07/05/24 03:37	1
Diesel Range Organics (Over C10-C28)	**2930**		51.1	15.3	mg/Kg	☼	06/28/24 13:48	07/05/24 03:37	1
Oil Range Organics (Over C28-C36)	<12.8	U	51.1	12.8	mg/Kg	☼	06/28/24 13:48	07/05/24 03:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*06/28/24 13:48*	*07/05/24 03:37*	*1*
o-Terphenyl	*102*		*70 - 130*	*06/28/24 13:48*	*07/05/24 03:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**205**		4.95	0.391	mg/Kg			07/02/24 11:02	1

Client Sample ID: CS 25
Lab Sample ID: 880-45368-12
Date Collected: 06/26/24 13:11
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00144	U	0.00207	0.00144	mg/Kg	☼	06/28/24 10:58	06/30/24 00:20	1
Toluene	<0.00207	U	0.00207	0.00207	mg/Kg	☼	06/28/24 10:58	06/30/24 00:20	1
Ethylbenzene	<0.00113	U	0.00207	0.00113	mg/Kg	☼	06/28/24 10:58	06/30/24 00:20	1
m-Xylene & p-Xylene	<0.00236	U	0.00413	0.00236	mg/Kg	☼	06/28/24 10:58	06/30/24 00:20	1
o-Xylene	<0.00164	U	0.00207	0.00164	mg/Kg	☼	06/28/24 10:58	06/30/24 00:20	1
Xylenes, Total	<0.00236	U	0.00413	0.00236	mg/Kg	☼	06/28/24 10:58	06/30/24 00:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*06/28/24 10:58*	*06/30/24 00:20*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*06/28/24 10:58*	*06/30/24 00:20*	*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	**30.3**	**J B**	51.1	11.2	mg/Kg	☼	06/28/24 13:48	07/04/24 23:07	1
Diesel Range Organics (Over C10-C28)	**74.5**		51.1	15.3	mg/Kg	☼	06/28/24 13:48	07/04/24 23:07	1
Oil Range Organics (Over C28-C36)	<12.8	U	51.1	12.8	mg/Kg	☼	06/28/24 13:48	07/04/24 23:07	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 25
Lab Sample ID: 880-45368-12
Date Collected: 06/26/24 13:11
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*06/28/24 13:48*	*07/04/24 23:07*	*1*
o-Terphenyl	*85*		*70 - 130*	*06/28/24 13:48*	*07/04/24 23:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**365**		4.97	0.393	mg/Kg			07/02/24 11:18	1

Client Sample ID: CS 26
Lab Sample ID: 880-45368-13
Date Collected: 06/26/24 13:13
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 95.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00145	U	0.00209	0.00145	mg/Kg	☼	06/28/24 10:58	06/30/24 00:46	1
Toluene	<0.00209	U	0.00209	0.00209	mg/Kg	☼	06/28/24 10:58	06/30/24 00:46	1
Ethylbenzene	<0.00114	U	0.00209	0.00114	mg/Kg	☼	06/28/24 10:58	06/30/24 00:46	1
m-Xylene & p-Xylene	<0.00239	U	0.00418	0.00239	mg/Kg	☼	06/28/24 10:58	06/30/24 00:46	1
o-Xylene	<0.00166	U	0.00209	0.00166	mg/Kg	☼	06/28/24 10:58	06/30/24 00:46	1
Xylenes, Total	<0.00239	U	0.00418	0.00239	mg/Kg	☼	06/28/24 10:58	06/30/24 00:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*06/28/24 10:58*	*06/30/24 00:46*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*06/28/24 10:58*	*06/30/24 00:46*	*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	**37.7**	**J B**	52.0	11.4	mg/Kg	☼	06/28/24 13:48	07/04/24 23:48	1
Diesel Range Organics (Over C10-C28)	**58.4**		52.0	15.6	mg/Kg	☼	06/28/24 13:48	07/04/24 23:48	1
Oil Range Organics (Over C28-C36)	<13.0	U	52.0	13.0	mg/Kg	☼	06/28/24 13:48	07/04/24 23:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*06/28/24 13:48*	*07/04/24 23:48*	*1*
o-Terphenyl	*86*		*70 - 130*	*06/28/24 13:48*	*07/04/24 23:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1720**		25.0	1.98	mg/Kg			07/02/24 11:23	5

Client Sample ID: CS 27
Lab Sample ID: 880-45368-14
Date Collected: 06/26/24 13:15
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 95.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00144	U	0.00207	0.00144	mg/Kg	☼	06/28/24 10:58	06/30/24 01:13	1
Toluene	<0.00207	U	0.00207	0.00207	mg/Kg	☼	06/28/24 10:58	06/30/24 01:13	1
Ethylbenzene	<0.00113	U	0.00207	0.00113	mg/Kg	☼	06/28/24 10:58	06/30/24 01:13	1
m-Xylene & p-Xylene	<0.00237	U	0.00414	0.00237	mg/Kg	☼	06/28/24 10:58	06/30/24 01:13	1
o-Xylene	<0.00164	U	0.00207	0.00164	mg/Kg	☼	06/28/24 10:58	06/30/24 01:13	1
Xylenes, Total	<0.00237	U	0.00414	0.00237	mg/Kg	☼	06/28/24 10:58	06/30/24 01:13	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

Client Sample ID: CS 27

Lab Sample ID: 880-45368-14
Date Collected: 06/26/24 13:15
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 95.8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*06/28/24 10:58*	*06/30/24 01:13*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*06/28/24 10:58*	*06/30/24 01:13*	*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	**14.4**	**J B**	51.9	11.4	mg/Kg	☼	06/28/24 13:48	07/05/24 02:56	1
Diesel Range Organics (Over C10-C28)	**1300**		51.9	15.6	mg/Kg	☼	06/28/24 13:48	07/05/24 02:56	1
Oil Range Organics (Over C28-C36)	<13.0	U	51.9	13.0	mg/Kg	☼	06/28/24 13:48	07/05/24 02:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*06/28/24 13:48*	*07/05/24 02:56*	*1*
o-Terphenyl	*108*		*70 - 130*	*06/28/24 13:48*	*07/05/24 02:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12200**		100	7.93	mg/Kg			07/02/24 11:28	20

Client Sample ID: CS 28

Lab Sample ID: 880-45368-15
Date Collected: 06/26/24 13:16
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00203	0.00141	mg/Kg	☼	06/28/24 10:58	06/30/24 01:40	1
Toluene	<0.00202	U	0.00203	0.00202	mg/Kg	☼	06/28/24 10:58	06/30/24 01:40	1
Ethylbenzene	<0.00110	U	0.00203	0.00110	mg/Kg	☼	06/28/24 10:58	06/30/24 01:40	1
m-Xylene & p-Xylene	<0.00231	U	0.00405	0.00231	mg/Kg	☼	06/28/24 10:58	06/30/24 01:40	1
o-Xylene	<0.00160	U	0.00203	0.00160	mg/Kg	☼	06/28/24 10:58	06/30/24 01:40	1
Xylenes, Total	<0.00231	U	0.00405	0.00231	mg/Kg	☼	06/28/24 10:58	06/30/24 01:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*06/28/24 10:58*	*06/30/24 01:40*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/28/24 10:58*	*06/30/24 01:40*	*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	<55.4	U	252	55.4	mg/Kg	☼	06/28/24 13:48	07/05/24 00:49	5
Diesel Range Organics (Over C10-C28)	**3660**		252	75.7	mg/Kg	☼	06/28/24 13:48	07/05/24 00:49	5
Oil Range Organics (Over C28-C36)	<63.2	U	252	63.2	mg/Kg	☼	06/28/24 13:48	07/05/24 00:49	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*06/28/24 13:48*	*07/05/24 00:49*	*5*
o-Terphenyl	*86*		*70 - 130*	*06/28/24 13:48*	*07/05/24 00:49*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**906**		5.01	0.396	mg/Kg			07/02/24 11:33	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 29

Lab Sample ID: 880-45368-16
Date Collected: 06/26/24 13:18
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00202	0.00141	mg/Kg	☼	06/28/24 10:58	06/30/24 02:07	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg	☼	06/28/24 10:58	06/30/24 02:07	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg	☼	06/28/24 10:58	06/30/24 02:07	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg	☼	06/28/24 10:58	06/30/24 02:07	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg	☼	06/28/24 10:58	06/30/24 02:07	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg	☼	06/28/24 10:58	06/30/24 02:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*06/28/24 10:58*	*06/30/24 02:07*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*06/28/24 10:58*	*06/30/24 02:07*	*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	**174**	**J B**	254	55.9	mg/Kg	☼	06/28/24 13:48	07/05/24 01:10	5
Diesel Range Organics (Over C10-C28)	**4130**		254	76.3	mg/Kg	☼	06/28/24 13:48	07/05/24 01:10	5
Oil Range Organics (Over C28-C36)	<63.7	U	254	63.7	mg/Kg	☼	06/28/24 13:48	07/05/24 01:10	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*06/28/24 13:48*	*07/05/24 01:10*	*5*
o-Terphenyl	*90*		*70 - 130*	*06/28/24 13:48*	*07/05/24 01:10*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1650**		24.9	1.97	mg/Kg			07/02/24 11:39	5

Client Sample ID: CS 30

Lab Sample ID: 880-45368-17
Date Collected: 06/26/24 13:20
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00143	U	0.00205	0.00143	mg/Kg	☼	06/28/24 10:58	06/30/24 02:33	1
Toluene	<0.00205	U	0.00205	0.00205	mg/Kg	☼	06/28/24 10:58	06/30/24 02:33	1
Ethylbenzene	<0.00112	U	0.00205	0.00112	mg/Kg	☼	06/28/24 10:58	06/30/24 02:33	1
m-Xylene & p-Xylene	<0.00234	U	0.00410	0.00234	mg/Kg	☼	06/28/24 10:58	06/30/24 02:33	1
o-Xylene	<0.00162	U	0.00205	0.00162	mg/Kg	☼	06/28/24 10:58	06/30/24 02:33	1
Xylenes, Total	<0.00234	U	0.00410	0.00234	mg/Kg	☼	06/28/24 10:58	06/30/24 02:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*06/28/24 10:58*	*06/30/24 02:33*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*06/28/24 10:58*	*06/30/24 02:33*	*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	**32.2**	**J B**	51.0	11.2	mg/Kg	☼	06/28/24 13:48	07/05/24 03:17	1
Diesel Range Organics (Over C10-C28)	**1080**		51.0	15.3	mg/Kg	☼	06/28/24 13:48	07/05/24 03:17	1
Oil Range Organics (Over C28-C36)	<12.8	U	51.0	12.8	mg/Kg	☼	06/28/24 13:48	07/05/24 03:17	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 30
Lab Sample ID: 880-45368-17
Date Collected: 06/26/24 13:20
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*06/28/24 13:48*	*07/05/24 03:17*	*1*
o-Terphenyl	*85*		*70 - 130*	*06/28/24 13:48*	*07/05/24 03:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2170**		24.8	1.96	mg/Kg			07/02/24 11:44	5

Client Sample ID: CS 31
Lab Sample ID: 880-45368-18
Date Collected: 06/26/24 13:22
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00142	U	0.00204	0.00142	mg/Kg	☼	06/28/24 10:58	06/30/24 03:00	1
Toluene	<0.00204	U	0.00204	0.00204	mg/Kg	☼	06/28/24 10:58	06/30/24 03:00	1
Ethylbenzene	<0.00111	U	0.00204	0.00111	mg/Kg	☼	06/28/24 10:58	06/30/24 03:00	1
m-Xylene & p-Xylene	<0.00233	U	0.00408	0.00233	mg/Kg	☼	06/28/24 10:58	06/30/24 03:00	1
o-Xylene	<0.00161	U	0.00204	0.00161	mg/Kg	☼	06/28/24 10:58	06/30/24 03:00	1
Xylenes, Total	<0.00233	U	0.00408	0.00233	mg/Kg	☼	06/28/24 10:58	06/30/24 03:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*06/28/24 10:58*	*06/30/24 03:00*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*06/28/24 10:58*	*06/30/24 03:00*	*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	**28.3**	**J**	50.4	11.1	mg/Kg	☼	06/28/24 13:48	07/05/24 07:12	1
Diesel Range Organics (Over C10-C28)	**2530**		50.4	15.1	mg/Kg	☼	06/28/24 13:48	07/05/24 07:12	1
Oil Range Organics (Over C28-C36)	**1160**		50.4	12.6	mg/Kg	☼	06/28/24 13:48	07/05/24 07:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*06/28/24 13:48*	*07/05/24 07:12*	*1*
o-Terphenyl	*92*		*70 - 130*	*06/28/24 13:48*	*07/05/24 07:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1010**		4.96	0.392	mg/Kg			07/02/24 11:49	1

Client Sample ID: CS 32
Lab Sample ID: 880-45368-19
Date Collected: 06/26/24 13:24
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00143	U	0.00206	0.00143	mg/Kg	☼	06/28/24 10:58	06/30/24 03:27	1
Toluene	<0.00206	U	0.00206	0.00206	mg/Kg	☼	06/28/24 10:58	06/30/24 03:27	1
Ethylbenzene	<0.00112	U	0.00206	0.00112	mg/Kg	☼	06/28/24 10:58	06/30/24 03:27	1
m-Xylene & p-Xylene	<0.00235	U	0.00412	0.00235	mg/Kg	☼	06/28/24 10:58	06/30/24 03:27	1
o-Xylene	<0.00163	U	0.00206	0.00163	mg/Kg	☼	06/28/24 10:58	06/30/24 03:27	1
Xylenes, Total	<0.00235	U	0.00412	0.00235	mg/Kg	☼	06/28/24 10:58	06/30/24 03:27	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 32
Lab Sample ID: 880-45368-19
Date Collected: 06/26/24 13:24
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*06/28/24 10:58*	*06/30/24 03:27*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*06/28/24 10:58*	*06/30/24 03:27*	*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	<56.0	U	255	56.0	mg/Kg	☼	06/28/24 13:48	07/05/24 00:29	5
Diesel Range Organics (Over C10-C28)	**7060**		255	76.5	mg/Kg	☼	06/28/24 13:48	07/05/24 00:29	5
Oil Range Organics (Over C28-C36)	<63.9	U	255	63.9	mg/Kg	☼	06/28/24 13:48	07/05/24 00:29	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*92*		*70 - 130*	*06/28/24 13:48*	*07/05/24 00:29*	*5*
o-Terphenyl	*92*		*70 - 130*	*06/28/24 13:48*	*07/05/24 00:29*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**120**	**F1**	5.10	0.403	mg/Kg	☼		07/02/24 00:11	1

Client Sample ID: CS 35
Lab Sample ID: 880-45368-20
Date Collected: 06/26/24 00:00
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 94.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00148	U	0.00213	0.00148	mg/Kg	☼	06/28/24 10:58	06/30/24 03:53	1
Toluene	<0.00213	U	0.00213	0.00213	mg/Kg	☼	06/28/24 10:58	06/30/24 03:53	1
Ethylbenzene	<0.00116	U	0.00213	0.00116	mg/Kg	☼	06/28/24 10:58	06/30/24 03:53	1
m-Xylene & p-Xylene	<0.00244	U	0.00426	0.00244	mg/Kg	☼	06/28/24 10:58	06/30/24 03:53	1
o-Xylene	<0.00169	U	0.00213	0.00169	mg/Kg	☼	06/28/24 10:58	06/30/24 03:53	1
Xylenes, Total	<0.00244	U	0.00426	0.00244	mg/Kg	☼	06/28/24 10:58	06/30/24 03:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*06/28/24 10:58*	*06/30/24 03:53*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*06/28/24 10:58*	*06/30/24 03:53*	*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	**46.0**	**J B**	53.4	11.7	mg/Kg	☼	06/28/24 13:48	07/05/24 00:09	1
Diesel Range Organics (Over C10-C28)	**1150**		53.4	16.0	mg/Kg	☼	06/28/24 13:48	07/05/24 00:09	1
Oil Range Organics (Over C28-C36)	<13.4	U	53.4	13.4	mg/Kg	☼	06/28/24 13:48	07/05/24 00:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*109*		*70 - 130*	*06/28/24 13:48*	*07/05/24 00:09*	*1*
o-Terphenyl	*110*		*70 - 130*	*06/28/24 13:48*	*07/05/24 00:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7990**		52.4	4.14	mg/Kg	☼		07/02/24 00:27	10

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 36
Lab Sample ID: 880-45368-21
Date Collected: 06/26/24 12:57
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 94.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00147	U	0.00211	0.00147	mg/Kg	☼	06/28/24 11:00	06/28/24 23:51	1
Toluene	<0.00211	U	0.00211	0.00211	mg/Kg	☼	06/28/24 11:00	06/28/24 23:51	1
Ethylbenzene	<0.00115	U	0.00211	0.00115	mg/Kg	☼	06/28/24 11:00	06/28/24 23:51	1
m-Xylene & p-Xylene	<0.00241	U	0.00422	0.00241	mg/Kg	☼	06/28/24 11:00	06/28/24 23:51	1
o-Xylene	<0.00167	U	0.00211	0.00167	mg/Kg	☼	06/28/24 11:00	06/28/24 23:51	1
Xylenes, Total	<0.00241	U	0.00422	0.00241	mg/Kg	☼	06/28/24 11:00	06/28/24 23:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*06/28/24 11:00*	*06/28/24 23:51*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*06/28/24 11:00*	*06/28/24 23:51*	*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	<11.6	U	53.1	11.6	mg/Kg	☼	06/28/24 13:54	06/28/24 17:42	1
Diesel Range Organics (Over C10-C28)	**137**	**F1**	53.1	15.9	mg/Kg	☼	06/28/24 13:54	06/28/24 17:42	1
Oil Range Organics (Over C28-C36)	<13.3	U	53.1	13.3	mg/Kg	☼	06/28/24 13:54	06/28/24 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*06/28/24 13:54*	*06/28/24 17:42*	*1*
o-Terphenyl	*77*		*70 - 130*	*06/28/24 13:54*	*06/28/24 17:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5360**		52.8	4.17	mg/Kg	☼		07/02/24 00:32	10

Client Sample ID: CS 37
Lab Sample ID: 880-45368-22
Date Collected: 06/26/24 12:59
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 95.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00146	U	0.00210	0.00146	mg/Kg	☼	06/28/24 11:00	06/29/24 00:12	1
Toluene	<0.00210	U	0.00210	0.00210	mg/Kg	☼	06/28/24 11:00	06/29/24 00:12	1
Ethylbenzene	<0.00114	U	0.00210	0.00114	mg/Kg	☼	06/28/24 11:00	06/29/24 00:12	1
m-Xylene & p-Xylene	<0.00240	U	0.00420	0.00240	mg/Kg	☼	06/28/24 11:00	06/29/24 00:12	1
o-Xylene	<0.00166	U	0.00210	0.00166	mg/Kg	☼	06/28/24 11:00	06/29/24 00:12	1
Xylenes, Total	<0.00240	U	0.00420	0.00240	mg/Kg	☼	06/28/24 11:00	06/29/24 00:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*06/28/24 11:00*	*06/29/24 00:12*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*06/28/24 11:00*	*06/29/24 00:12*	*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	<11.6	U	52.8	11.6	mg/Kg	☼	06/28/24 13:54	06/28/24 18:34	1
Diesel Range Organics (Over C10-C28)	**86.7**		52.8	15.8	mg/Kg	☼	06/28/24 13:54	06/28/24 18:34	1
Oil Range Organics (Over C28-C36)	<13.2	U	52.8	13.2	mg/Kg	☼	06/28/24 13:54	06/28/24 18:34	1

Eurofins Midland

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 37
Lab Sample ID: 880-45368-22
Date Collected: 06/26/24 12:59
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 95.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130	06/28/24 13:54	06/28/24 18:34	1
o-Terphenyl	75		70 - 130	06/28/24 13:54	06/28/24 18:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2140**		26.2	2.07	mg/Kg	☼		07/02/24 00:37	5

Client Sample ID: CS 38
Lab Sample ID: 880-45368-23
Date Collected: 06/26/24 13:01
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00143	U	0.00206	0.00143	mg/Kg	☼	06/28/24 11:00	06/29/24 00:32	1
Toluene	<0.00206	U	0.00206	0.00206	mg/Kg	☼	06/28/24 11:00	06/29/24 00:32	1
Ethylbenzene	<0.00112	U	0.00206	0.00112	mg/Kg	☼	06/28/24 11:00	06/29/24 00:32	1
m-Xylene & p-Xylene	<0.00235	U	0.00412	0.00235	mg/Kg	☼	06/28/24 11:00	06/29/24 00:32	1
o-Xylene	<0.00163	U	0.00206	0.00163	mg/Kg	☼	06/28/24 11:00	06/29/24 00:32	1
Xylenes, Total	<0.00235	U	0.00412	0.00235	mg/Kg	☼	06/28/24 11:00	06/29/24 00:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	06/28/24 11:00	06/29/24 00:32	1
1,4-Difluorobenzene (Surr)	113		70 - 130	06/28/24 11:00	06/29/24 00:32	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	<11.1	U	50.7	11.1	mg/Kg	☼	06/28/24 13:54	06/28/24 18:52	1
Diesel Range Organics (Over C10-C28)	**246**		50.7	15.2	mg/Kg	☼	06/28/24 13:54	06/28/24 18:52	1
Oil Range Organics (Over C28-C36)	<12.7	U	50.7	12.7	mg/Kg	☼	06/28/24 13:54	06/28/24 18:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130	06/28/24 13:54	06/28/24 18:52	1
o-Terphenyl	69	S1-	70 - 130	06/28/24 13:54	06/28/24 18:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9150**		51.4	4.06	mg/Kg	☼		07/02/24 00:42	10

Client Sample ID: CS 39
Lab Sample ID: 880-45368-24
Date Collected: 06/26/24 13:03
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00142	U	0.00205	0.00142	mg/Kg	☼	06/28/24 11:00	06/29/24 00:53	1
Toluene	<0.00204	U	0.00205	0.00204	mg/Kg	☼	06/28/24 11:00	06/29/24 00:53	1
Ethylbenzene	<0.00111	U	0.00205	0.00111	mg/Kg	☼	06/28/24 11:00	06/29/24 00:53	1
m-Xylene & p-Xylene	<0.00234	U	0.00409	0.00234	mg/Kg	☼	06/28/24 11:00	06/29/24 00:53	1
o-Xylene	<0.00162	U	0.00205	0.00162	mg/Kg	☼	06/28/24 11:00	06/29/24 00:53	1
Xylenes, Total	<0.00234	U	0.00409	0.00234	mg/Kg	☼	06/28/24 11:00	06/29/24 00:53	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 39
Lab Sample ID: 880-45368-24
Date Collected: 06/26/24 13:03
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*06/28/24 11:00*	*06/29/24 00:53*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*06/28/24 11:00*	*06/29/24 00:53*	*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	<11.3	U	51.5	11.3	mg/Kg	☼	06/28/24 13:54	06/28/24 19:08	1
Diesel Range Organics (Over C10-C28)	**112**		51.5	15.4	mg/Kg	☼	06/28/24 13:54	06/28/24 19:08	1
Oil Range Organics (Over C28-C36)	<12.9	U	51.5	12.9	mg/Kg	☼	06/28/24 13:54	06/28/24 19:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*78*		*70 - 130*	*06/28/24 13:54*	*06/28/24 19:08*	*1*
o-Terphenyl	*70*		*70 - 130*	*06/28/24 13:54*	*06/28/24 19:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2440**		25.9	2.04	mg/Kg	☼		07/02/24 00:58	5

Client Sample ID: CS 40
Lab Sample ID: 880-45368-25
Date Collected: 06/26/24 13:05
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00144	U	0.00206	0.00144	mg/Kg	☼	06/28/24 11:00	06/29/24 01:13	1
Toluene	<0.00206	U	0.00206	0.00206	mg/Kg	☼	06/28/24 11:00	06/29/24 01:13	1
Ethylbenzene	<0.00112	U	0.00206	0.00112	mg/Kg	☼	06/28/24 11:00	06/29/24 01:13	1
m-Xylene & p-Xylene	<0.00236	U	0.00413	0.00236	mg/Kg	☼	06/28/24 11:00	06/29/24 01:13	1
o-Xylene	<0.00164	U	0.00206	0.00164	mg/Kg	☼	06/28/24 11:00	06/29/24 01:13	1
Xylenes, Total	<0.00236	U	0.00413	0.00236	mg/Kg	☼	06/28/24 11:00	06/29/24 01:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*06/28/24 11:00*	*06/29/24 01:13*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*06/28/24 11:00*	*06/29/24 01:13*	*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	<11.2	U	51.2	11.2	mg/Kg	☼	06/28/24 13:54	06/28/24 19:25	1
Diesel Range Organics (Over C10-C28)	**58.9**		51.2	15.3	mg/Kg	☼	06/28/24 13:54	06/28/24 19:25	1
Oil Range Organics (Over C28-C36)	<12.8	U	51.2	12.8	mg/Kg	☼	06/28/24 13:54	06/28/24 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*76*		*70 - 130*	*06/28/24 13:54*	*06/28/24 19:25*	*1*
o-Terphenyl	*68*	*S1-*	*70 - 130*	*06/28/24 13:54*	*06/28/24 19:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2660**		25.8	2.04	mg/Kg	☼		07/02/24 01:03	5

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 41
Lab Sample ID: 880-45368-26
Date Collected: 06/26/24 13:07
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 99.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00202	0.00140	mg/Kg	☼	06/28/24 11:00	06/29/24 01:34	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg	☼	06/28/24 11:00	06/29/24 01:34	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg	☼	06/28/24 11:00	06/29/24 01:34	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg	☼	06/28/24 11:00	06/29/24 01:34	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg	☼	06/28/24 11:00	06/29/24 01:34	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg	☼	06/28/24 11:00	06/29/24 01:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*06/28/24 11:00*	*06/29/24 01:34*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*06/28/24 11:00*	*06/29/24 01:34*	*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	<11.0	U	49.9	11.0	mg/Kg	☼	06/28/24 13:54	06/28/24 19:42	1
Diesel Range Organics (Over C10-C28)	**199**		49.9	15.0	mg/Kg	☼	06/28/24 13:54	06/28/24 19:42	1
Oil Range Organics (Over C28-C36)	<12.5	U	49.9	12.5	mg/Kg	☼	06/28/24 13:54	06/28/24 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*06/28/24 13:54*	*06/28/24 19:42*	*1*
o-Terphenyl	*66*	*S1-*	*70 - 130*	*06/28/24 13:54*	*06/28/24 19:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**536**		5.00	0.395	mg/Kg	☼		07/02/24 01:08	1

Client Sample ID: CS 42
Lab Sample ID: 880-45368-27
Date Collected: 06/26/24 13:09
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 99.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg	☼	06/28/24 11:00	06/29/24 01:54	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg	☼	06/28/24 11:00	06/29/24 01:54	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg	☼	06/28/24 11:00	06/29/24 01:54	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg	☼	06/28/24 11:00	06/29/24 01:54	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg	☼	06/28/24 11:00	06/29/24 01:54	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg	☼	06/28/24 11:00	06/29/24 01:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*06/28/24 11:00*	*06/29/24 01:54*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*06/28/24 11:00*	*06/29/24 01:54*	*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	<11.1	U	50.6	11.1	mg/Kg	☼	06/28/24 13:54	06/28/24 19:59	1
Diesel Range Organics (Over C10-C28)	**480**		50.6	15.2	mg/Kg	☼	06/28/24 13:54	06/28/24 19:59	1
Oil Range Organics (Over C28-C36)	<12.7	U	50.6	12.7	mg/Kg	☼	06/28/24 13:54	06/28/24 19:59	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 42
Lab Sample ID: 880-45368-27
Date Collected: 06/26/24 13:09
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 99.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130	06/28/24 13:54	06/28/24 19:59	1
o-Terphenyl	66	S1-	70 - 130	06/28/24 13:54	06/28/24 19:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**323**		5.01	0.395	mg/Kg	☼		07/02/24 01:14	1

Client Sample ID: CS 43
Lab Sample ID: 880-45368-28
Date Collected: 06/26/24 13:11
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 77.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00178	U	0.00255	0.00178	mg/Kg	☼	06/28/24 11:00	06/29/24 02:15	1
Toluene	<0.00255	U	0.00255	0.00255	mg/Kg	☼	06/28/24 11:00	06/29/24 02:15	1
Ethylbenzene	**0.00161**	**J**	0.00255	0.00139	mg/Kg	☼	06/28/24 11:00	06/29/24 02:15	1
m-Xylene & p-Xylene	<0.00291	U	0.00510	0.00291	mg/Kg	☼	06/28/24 11:00	06/29/24 02:15	1
o-Xylene	**0.00346**		0.00255	0.00202	mg/Kg	☼	06/28/24 11:00	06/29/24 02:15	1
Xylenes, Total	**0.00346**	**J**	0.00510	0.00291	mg/Kg	☼	06/28/24 11:00	06/29/24 02:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	452	S1+	70 - 130	06/28/24 11:00	06/29/24 02:15	1
1,4-Difluorobenzene (Surr)	122		70 - 130	06/28/24 11:00	06/29/24 02:15	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	<14.2	U	64.8	14.2	mg/Kg	☼	06/28/24 13:54	06/28/24 20:17	1
Diesel Range Organics (Over C10-C28)	**108**		64.8	19.4	mg/Kg	☼	06/28/24 13:54	06/28/24 20:17	1
Oil Range Organics (Over C28-C36)	<16.2	U	64.8	16.2	mg/Kg	☼	06/28/24 13:54	06/28/24 20:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	06/28/24 13:54	06/28/24 20:17	1
o-Terphenyl	79		70 - 130	06/28/24 13:54	06/28/24 20:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**965**		6.47	0.511	mg/Kg	☼		07/02/24 01:19	1

Client Sample ID: CS 45
Lab Sample ID: 880-45368-29
Date Collected: 06/26/24 13:08
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00143	U	0.00206	0.00143	mg/Kg	☼	06/28/24 11:00	06/29/24 02:35	1
Toluene	<0.00206	U	0.00206	0.00206	mg/Kg	☼	06/28/24 11:00	06/29/24 02:35	1
Ethylbenzene	<0.00112	U	0.00206	0.00112	mg/Kg	☼	06/28/24 11:00	06/29/24 02:35	1
m-Xylene & p-Xylene	<0.00235	U	0.00412	0.00235	mg/Kg	☼	06/28/24 11:00	06/29/24 02:35	1
o-Xylene	<0.00163	U	0.00206	0.00163	mg/Kg	☼	06/28/24 11:00	06/29/24 02:35	1
Xylenes, Total	<0.00235	U	0.00412	0.00235	mg/Kg	☼	06/28/24 11:00	06/29/24 02:35	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 45
Lab Sample ID: 880-45368-29
Date Collected: 06/26/24 13:08
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*06/28/24 11:00*	*06/29/24 02:35*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*06/28/24 11:00*	*06/29/24 02:35*	*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	<11.4	U	52.0	11.4	mg/Kg	☼	06/28/24 13:54	06/28/24 20:34	1
Diesel Range Organics (Over C10-C28)	**158**		52.0	15.6	mg/Kg	☼	06/28/24 13:54	06/28/24 20:34	1
Oil Range Organics (Over C28-C36)	<13.0	U	52.0	13.0	mg/Kg	☼	06/28/24 13:54	06/28/24 20:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*75*		*70 - 130*	*06/28/24 13:54*	*06/28/24 20:34*	*1*
o-Terphenyl	*72*		*70 - 130*	*06/28/24 13:54*	*06/28/24 20:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4640**	**F1**	25.7	2.03	mg/Kg	☼		07/02/24 01:24	5

Client Sample ID: CS 46
Lab Sample ID: 880-45368-30
Date Collected: 06/26/24 12:39
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 96.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00142	U	0.00204	0.00142	mg/Kg	☼	06/28/24 11:00	06/29/24 02:55	1
Toluene	<0.00204	U	0.00204	0.00204	mg/Kg	☼	06/28/24 11:00	06/29/24 02:55	1
Ethylbenzene	<0.00111	U	0.00204	0.00111	mg/Kg	☼	06/28/24 11:00	06/29/24 02:55	1
m-Xylene & p-Xylene	<0.00233	U	0.00409	0.00233	mg/Kg	☼	06/28/24 11:00	06/29/24 02:55	1
o-Xylene	<0.00162	U	0.00204	0.00162	mg/Kg	☼	06/28/24 11:00	06/29/24 02:55	1
Xylenes, Total	<0.00233	U	0.00409	0.00233	mg/Kg	☼	06/28/24 11:00	06/29/24 02:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*06/28/24 11:00*	*06/29/24 02:55*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*06/28/24 11:00*	*06/29/24 02:55*	*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	<11.3	U	51.4	11.3	mg/Kg	☼	06/28/24 13:54	06/28/24 20:50	1
Diesel Range Organics (Over C10-C28)	**902**		51.4	15.4	mg/Kg	☼	06/28/24 13:54	06/28/24 20:50	1
Oil Range Organics (Over C28-C36)	<12.9	U	51.4	12.9	mg/Kg	☼	06/28/24 13:54	06/28/24 20:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*77*		*70 - 130*	*06/28/24 13:54*	*06/28/24 20:50*	*1*
o-Terphenyl	*73*		*70 - 130*	*06/28/24 13:54*	*06/28/24 20:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13700**		104	8.18	mg/Kg	☼		07/02/24 01:40	20

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 47
Lab Sample ID: 880-45368-31
Date Collected: 06/26/24 12:41
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00143	U	0.00206	0.00143	mg/Kg	☼	06/28/24 11:00	06/29/24 04:46	1
Toluene	<0.00206	U	0.00206	0.00206	mg/Kg	☼	06/28/24 11:00	06/29/24 04:46	1
Ethylbenzene	<0.00112	U	0.00206	0.00112	mg/Kg	☼	06/28/24 11:00	06/29/24 04:46	1
m-Xylene & p-Xylene	<0.00235	U	0.00411	0.00235	mg/Kg	☼	06/28/24 11:00	06/29/24 04:46	1
o-Xylene	<0.00163	U	0.00206	0.00163	mg/Kg	☼	06/28/24 11:00	06/29/24 04:46	1
Xylenes, Total	<0.00235	U	0.00411	0.00235	mg/Kg	☼	06/28/24 11:00	06/29/24 04:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*06/28/24 11:00*	*06/29/24 04:46*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*06/28/24 11:00*	*06/29/24 04:46*	*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	<11.1	U	50.6	11.1	mg/Kg	☼	06/28/24 13:54	06/28/24 21:23	1
Diesel Range Organics (Over C10-C28)	**317**		50.6	15.2	mg/Kg	☼	06/28/24 13:54	06/28/24 21:23	1
Oil Range Organics (Over C28-C36)	<12.7	U	50.6	12.7	mg/Kg	☼	06/28/24 13:54	06/28/24 21:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*06/28/24 13:54*	*06/28/24 21:23*	*1*
o-Terphenyl	*71*		*70 - 130*	*06/28/24 13:54*	*06/28/24 21:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10800**		51.0	4.03	mg/Kg	☼		07/02/24 01:45	10

Client Sample ID: CS 48
Lab Sample ID: 880-45368-32
Date Collected: 06/26/24 12:43
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 96.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00146	U	0.00209	0.00146	mg/Kg	☼	06/28/24 11:00	06/29/24 05:06	1
Toluene	<0.00209	U	0.00209	0.00209	mg/Kg	☼	06/28/24 11:00	06/29/24 05:06	1
Ethylbenzene	<0.00114	U	0.00209	0.00114	mg/Kg	☼	06/28/24 11:00	06/29/24 05:06	1
m-Xylene & p-Xylene	<0.00239	U	0.00418	0.00239	mg/Kg	☼	06/28/24 11:00	06/29/24 05:06	1
o-Xylene	<0.00166	U	0.00209	0.00166	mg/Kg	☼	06/28/24 11:00	06/29/24 05:06	1
Xylenes, Total	<0.00239	U	0.00418	0.00239	mg/Kg	☼	06/28/24 11:00	06/29/24 05:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*06/28/24 11:00*	*06/29/24 05:06*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*06/28/24 11:00*	*06/29/24 05:06*	*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	<11.4	U	51.9	11.4	mg/Kg	☼	06/28/24 13:54	06/28/24 21:39	1
Diesel Range Organics (Over C10-C28)	**120**		51.9	15.6	mg/Kg	☼	06/28/24 13:54	06/28/24 21:39	1
Oil Range Organics (Over C28-C36)	<13.0	U	51.9	13.0	mg/Kg	☼	06/28/24 13:54	06/28/24 21:39	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

Client Sample ID: CS 48

Lab Sample ID: 880-45368-32
Date Collected: 06/26/24 12:43
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 96.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	06/28/24 13:54	06/28/24 21:39	1
o-Terphenyl	74		70 - 130	06/28/24 13:54	06/28/24 21:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22100**		104	8.20	mg/Kg	☼		07/02/24 02:01	20

Client Sample ID: CS 49

Lab Sample ID: 880-45368-33
Date Collected: 06/26/24 12:44
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00144	U	0.00207	0.00144	mg/Kg	☼	06/28/24 11:00	06/29/24 05:27	1
Toluene	<0.00206	U	0.00207	0.00206	mg/Kg	☼	06/28/24 11:00	06/29/24 05:27	1
Ethylbenzene	<0.00112	U	0.00207	0.00112	mg/Kg	☼	06/28/24 11:00	06/29/24 05:27	1
m-Xylene & p-Xylene	<0.00236	U	0.00413	0.00236	mg/Kg	☼	06/28/24 11:00	06/29/24 05:27	1
o-Xylene	<0.00164	U	0.00207	0.00164	mg/Kg	☼	06/28/24 11:00	06/29/24 05:27	1
Xylenes, Total	<0.00236	U	0.00413	0.00236	mg/Kg	☼	06/28/24 11:00	06/29/24 05:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	06/28/24 11:00	06/29/24 05:27	1
1,4-Difluorobenzene (Surr)	112		70 - 130	06/28/24 11:00	06/29/24 05:27	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	<11.3	U	51.5	11.3	mg/Kg	☼	06/28/24 13:54	06/28/24 21:55	1
Diesel Range Organics (Over C10-C28)	**3530**		51.5	15.4	mg/Kg	☼	06/28/24 13:54	06/28/24 21:55	1
Oil Range Organics (Over C28-C36)	<12.9	U	51.5	12.9	mg/Kg	☼	06/28/24 13:54	06/28/24 21:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130	06/28/24 13:54	06/28/24 21:55	1
o-Terphenyl	78		70 - 130	06/28/24 13:54	06/28/24 21:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6170**		51.5	4.07	mg/Kg	☼		07/02/24 02:06	10

Client Sample ID: CS 50

Lab Sample ID: 880-45368-34
Date Collected: 06/26/24 12:46
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00203	0.00141	mg/Kg	☼	06/28/24 11:00	06/29/24 05:47	1
Toluene	<0.00203	U	0.00203	0.00203	mg/Kg	☼	06/28/24 11:00	06/29/24 05:47	1
Ethylbenzene	<0.00111	U	0.00203	0.00111	mg/Kg	☼	06/28/24 11:00	06/29/24 05:47	1
m-Xylene & p-Xylene	<0.00232	U	0.00406	0.00232	mg/Kg	☼	06/28/24 11:00	06/29/24 05:47	1
o-Xylene	<0.00161	U	0.00203	0.00161	mg/Kg	☼	06/28/24 11:00	06/29/24 05:47	1
Xylenes, Total	<0.00232	U	0.00406	0.00232	mg/Kg	☼	06/28/24 11:00	06/29/24 05:47	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 50
Lab Sample ID: 880-45368-34
Date Collected: 06/26/24 12:46
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*06/28/24 11:00*	*06/29/24 05:47*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*06/28/24 11:00*	*06/29/24 05:47*	*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	<11.2	U	50.9	11.2	mg/Kg	☼	06/28/24 13:54	06/28/24 22:11	1
Diesel Range Organics (Over C10-C28)	**1090**		50.9	15.3	mg/Kg	☼	06/28/24 13:54	06/28/24 22:11	1
Oil Range Organics (Over C28-C36)	<12.7	U	50.9	12.7	mg/Kg	☼	06/28/24 13:54	06/28/24 22:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*76*		*70 - 130*	*06/28/24 13:54*	*06/28/24 22:11*	*1*
o-Terphenyl	*80*		*70 - 130*	*06/28/24 13:54*	*06/28/24 22:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8100**		50.9	4.02	mg/Kg	☼		07/02/24 02:11	10

Client Sample ID: CS 51
Lab Sample ID: 880-45368-35
Date Collected: 06/26/24 12:47
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00142	U	0.00204	0.00142	mg/Kg	☼	06/28/24 11:00	06/29/24 06:07	1
Toluene	<0.00204	U	0.00204	0.00204	mg/Kg	☼	06/28/24 11:00	06/29/24 06:07	1
Ethylbenzene	<0.00111	U	0.00204	0.00111	mg/Kg	☼	06/28/24 11:00	06/29/24 06:07	1
m-Xylene & p-Xylene	<0.00233	U	0.00408	0.00233	mg/Kg	☼	06/28/24 11:00	06/29/24 06:07	1
o-Xylene	<0.00162	U	0.00204	0.00162	mg/Kg	☼	06/28/24 11:00	06/29/24 06:07	1
Xylenes, Total	<0.00233	U	0.00408	0.00233	mg/Kg	☼	06/28/24 11:00	06/29/24 06:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*06/28/24 11:00*	*06/29/24 06:07*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*06/28/24 11:00*	*06/29/24 06:07*	*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	<11.2	U	51.0	11.2	mg/Kg	☼	06/28/24 13:54	06/28/24 22:27	1
Diesel Range Organics (Over C10-C28)	**3720**		51.0	15.3	mg/Kg	☼	06/28/24 13:54	06/28/24 22:27	1
Oil Range Organics (Over C28-C36)	<12.8	U	51.0	12.8	mg/Kg	☼	06/28/24 13:54	06/28/24 22:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*78*		*70 - 130*	*06/28/24 13:54*	*06/28/24 22:27*	*1*
o-Terphenyl	*71*		*70 - 130*	*06/28/24 13:54*	*06/28/24 22:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5930**		51.3	4.05	mg/Kg	☼		07/02/24 02:16	10

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 52
Lab Sample ID: 880-45368-36
Date Collected: 06/26/24 12:48
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00202	0.00141	mg/Kg	☼	06/28/24 11:00	06/29/24 06:28	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg	☼	06/28/24 11:00	06/29/24 06:28	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg	☼	06/28/24 11:00	06/29/24 06:28	1
m-Xylene & p-Xylene	<0.00231	U	0.00405	0.00231	mg/Kg	☼	06/28/24 11:00	06/29/24 06:28	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg	☼	06/28/24 11:00	06/29/24 06:28	1
Xylenes, Total	<0.00231	U	0.00405	0.00231	mg/Kg	☼	06/28/24 11:00	06/29/24 06:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*141*	*S1+*	*70 - 130*	*06/28/24 11:00*	*06/29/24 06:28*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*06/28/24 11:00*	*06/29/24 06:28*	*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	<11.2	U	51.0	11.2	mg/Kg	☼	06/28/24 13:54	06/28/24 22:43	1
Diesel Range Organics (Over C10-C28)	**75.6**		51.0	15.3	mg/Kg	☼	06/28/24 13:54	06/28/24 22:43	1
Oil Range Organics (Over C28-C36)	<12.8	U	51.0	12.8	mg/Kg	☼	06/28/24 13:54	06/28/24 22:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*06/28/24 13:54*	*06/28/24 22:43*	*1*
o-Terphenyl	*77*		*70 - 130*	*06/28/24 13:54*	*06/28/24 22:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6070**		51.5	4.07	mg/Kg	☼		07/02/24 02:22	10

Client Sample ID: CS 53
Lab Sample ID: 880-45368-37
Date Collected: 06/26/24 12:49
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00142	U	0.00204	0.00142	mg/Kg	☼	06/28/24 11:00	06/29/24 06:48	1
Toluene	<0.00204	U	0.00204	0.00204	mg/Kg	☼	06/28/24 11:00	06/29/24 06:48	1
Ethylbenzene	<0.00111	U	0.00204	0.00111	mg/Kg	☼	06/28/24 11:00	06/29/24 06:48	1
m-Xylene & p-Xylene	<0.00233	U	0.00408	0.00233	mg/Kg	☼	06/28/24 11:00	06/29/24 06:48	1
o-Xylene	<0.00161	U	0.00204	0.00161	mg/Kg	☼	06/28/24 11:00	06/29/24 06:48	1
Xylenes, Total	<0.00233	U	0.00408	0.00233	mg/Kg	☼	06/28/24 11:00	06/29/24 06:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*06/28/24 11:00*	*06/29/24 06:48*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*06/28/24 11:00*	*06/29/24 06:48*	*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	<11.1	U	50.8	11.1	mg/Kg	☼	06/28/24 13:54	06/28/24 22:59	1
Diesel Range Organics (Over C10-C28)	**20.9**	**J**	50.8	15.2	mg/Kg	☼	06/28/24 13:54	06/28/24 22:59	1
Oil Range Organics (Over C28-C36)	<12.7	U	50.8	12.7	mg/Kg	☼	06/28/24 13:54	06/28/24 22:59	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 53
Lab Sample ID: 880-45368-37
Date Collected: 06/26/24 12:49
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	06/28/24 13:54	06/28/24 22:59	1
o-Terphenyl	72		70 - 130	06/28/24 13:54	06/28/24 22:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6340**		50.7	4.00	mg/Kg	☼		07/02/24 02:27	10

Client Sample ID: CS 54
Lab Sample ID: 880-45368-38
Date Collected: 06/26/24 12:50
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00143	U	0.00205	0.00143	mg/Kg	☼	06/28/24 11:00	06/29/24 07:09	1
Toluene	<0.00205	U	0.00205	0.00205	mg/Kg	☼	06/28/24 11:00	06/29/24 07:09	1
Ethylbenzene	<0.00112	U	0.00205	0.00112	mg/Kg	☼	06/28/24 11:00	06/29/24 07:09	1
m-Xylene & p-Xylene	<0.00234	U	0.00410	0.00234	mg/Kg	☼	06/28/24 11:00	06/29/24 07:09	1
o-Xylene	<0.00162	U	0.00205	0.00162	mg/Kg	☼	06/28/24 11:00	06/29/24 07:09	1
Xylenes, Total	<0.00234	U	0.00410	0.00234	mg/Kg	☼	06/28/24 11:00	06/29/24 07:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	06/28/24 11:00	06/29/24 07:09	1
1,4-Difluorobenzene (Surr)	118		70 - 130	06/28/24 11:00	06/29/24 07:09	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	<11.1	U	50.6	11.1	mg/Kg	☼	06/28/24 13:54	06/28/24 23:15	1
Diesel Range Organics (Over C10-C28)	**53.1**		50.6	15.2	mg/Kg	☼	06/28/24 13:54	06/28/24 23:15	1
Oil Range Organics (Over C28-C36)	<12.7	U	50.6	12.7	mg/Kg	☼	06/28/24 13:54	06/28/24 23:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	06/28/24 13:54	06/28/24 23:15	1
o-Terphenyl	74		70 - 130	06/28/24 13:54	06/28/24 23:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5120**		51.3	4.05	mg/Kg	☼		07/02/24 02:32	10

Client Sample ID: CS 55
Lab Sample ID: 880-45368-39
Date Collected: 06/26/24 12:51
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 99.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00202	0.00141	mg/Kg	☼	06/28/24 11:00	06/29/24 07:29	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg	☼	06/28/24 11:00	06/29/24 07:29	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg	☼	06/28/24 11:00	06/29/24 07:29	1
m-Xylene & p-Xylene	<0.00231	U	0.00405	0.00231	mg/Kg	☼	06/28/24 11:00	06/29/24 07:29	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg	☼	06/28/24 11:00	06/29/24 07:29	1
Xylenes, Total	<0.00231	U	0.00405	0.00231	mg/Kg	☼	06/28/24 11:00	06/29/24 07:29	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 55
Lab Sample ID: 880-45368-39
Date Collected: 06/26/24 12:51
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 99.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*06/28/24 11:00*	*06/29/24 07:29*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*06/28/24 11:00*	*06/29/24 07:29*	*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	<11.0	U	49.9	11.0	mg/Kg	☼	06/28/24 13:54	06/28/24 23:30	1
Diesel Range Organics (Over C10-C28)	**15.3**	**J**	49.9	15.0	mg/Kg	☼	06/28/24 13:54	06/28/24 23:30	1
Oil Range Organics (Over C28-C36)	<12.5	U	49.9	12.5	mg/Kg	☼	06/28/24 13:54	06/28/24 23:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*76*		*70 - 130*	*06/28/24 13:54*	*06/28/24 23:30*	*1*
o-Terphenyl	*71*		*70 - 130*	*06/28/24 13:54*	*06/28/24 23:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**376**		5.04	0.398	mg/Kg			07/02/24 06:18	1

Client Sample ID: CS 57
Lab Sample ID: 880-45368-40
Date Collected: 06/26/24 12:25
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 96.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00145	U	0.00208	0.00145	mg/Kg	☼	06/28/24 11:00	06/29/24 07:50	1
Toluene	<0.00208	U	0.00208	0.00208	mg/Kg	☼	06/28/24 11:00	06/29/24 07:50	1
Ethylbenzene	<0.00113	U	0.00208	0.00113	mg/Kg	☼	06/28/24 11:00	06/29/24 07:50	1
m-Xylene & p-Xylene	<0.00237	U	0.00415	0.00237	mg/Kg	☼	06/28/24 11:00	06/29/24 07:50	1
o-Xylene	<0.00164	U	0.00208	0.00164	mg/Kg	☼	06/28/24 11:00	06/29/24 07:50	1
Xylenes, Total	<0.00237	U	0.00415	0.00237	mg/Kg	☼	06/28/24 11:00	06/29/24 07:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*06/28/24 11:00*	*06/29/24 07:50*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*06/28/24 11:00*	*06/29/24 07:50*	*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	<11.3	U	51.7	11.3	mg/Kg	☼	06/28/24 13:54	06/28/24 23:46	1
Diesel Range Organics (Over C10-C28)	**1530**		51.7	15.5	mg/Kg	☼	06/28/24 13:54	06/28/24 23:46	1
Oil Range Organics (Over C28-C36)	<12.9	U	51.7	12.9	mg/Kg	☼	06/28/24 13:54	06/28/24 23:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*71*		*70 - 130*	*06/28/24 13:54*	*06/28/24 23:46*	*1*
o-Terphenyl	*68*	*S1-*	*70 - 130*	*06/28/24 13:54*	*06/28/24 23:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6780**		50.5	3.99	mg/Kg			07/02/24 06:33	10

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 58
Lab Sample ID: 880-45368-41
Date Collected: 06/26/24 12:27
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00142	U	0.00205	0.00142	mg/Kg	☼	06/28/24 11:02	06/29/24 11:28	1
Toluene	<0.00204	U F1	0.00205	0.00204	mg/Kg	☼	06/28/24 11:02	06/29/24 11:28	1
Ethylbenzene	<0.00111	U F1	0.00205	0.00111	mg/Kg	☼	06/28/24 11:02	06/29/24 11:28	1
m-Xylene & p-Xylene	<0.00234	U F1	0.00409	0.00234	mg/Kg	☼	06/28/24 11:02	06/29/24 11:28	1
o-Xylene	<0.00162	U F1	0.00205	0.00162	mg/Kg	☼	06/28/24 11:02	06/29/24 11:28	1
Xylenes, Total	<0.00234	U F1	0.00409	0.00234	mg/Kg	☼	06/28/24 11:02	06/29/24 11:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*06/28/24 11:02*	*06/29/24 11:28*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*06/28/24 11:02*	*06/29/24 11:28*	*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	**30.5**	**J F2**	51.0	11.2	mg/Kg	☼	06/28/24 13:57	07/04/24 19:22	1
Diesel Range Organics (Over C10-C28)	**1340**	**B F1**	51.0	15.3	mg/Kg	☼	06/28/24 13:57	07/04/24 19:22	1
Oil Range Organics (Over C28-C36)	**505**	**B**	51.0	12.8	mg/Kg	☼	06/28/24 13:57	07/04/24 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*06/28/24 13:57*	*07/04/24 19:22*	*1*
o-Terphenyl	*85*		*70 - 130*	*06/28/24 13:57*	*07/04/24 19:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16600**		101	7.95	mg/Kg			07/02/24 06:38	20

Client Sample ID: CS 60
Lab Sample ID: 880-45368-43
Date Collected: 06/26/24 12:31
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 95.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00147	U	0.00211	0.00147	mg/Kg	☼	06/28/24 11:02	06/29/24 11:49	1
Toluene	<0.00211	U	0.00211	0.00211	mg/Kg	☼	06/28/24 11:02	06/29/24 11:49	1
Ethylbenzene	<0.00115	U	0.00211	0.00115	mg/Kg	☼	06/28/24 11:02	06/29/24 11:49	1
m-Xylene & p-Xylene	<0.00241	U	0.00422	0.00241	mg/Kg	☼	06/28/24 11:02	06/29/24 11:49	1
o-Xylene	<0.00167	U	0.00211	0.00167	mg/Kg	☼	06/28/24 11:02	06/29/24 11:49	1
Xylenes, Total	<0.00241	U	0.00422	0.00241	mg/Kg	☼	06/28/24 11:02	06/29/24 11:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*06/28/24 11:02*	*06/29/24 11:49*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*06/28/24 11:02*	*06/29/24 11:49*	*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	**137**	**J**	260	57.0	mg/Kg	☼	06/28/24 13:57	07/05/24 00:49	5
Diesel Range Organics (Over C10-C28)	**2650**	**B**	260	77.9	mg/Kg	☼	06/28/24 13:57	07/05/24 00:49	5
Oil Range Organics (Over C28-C36)	**1070**	**B**	260	65.0	mg/Kg	☼	06/28/24 13:57	07/05/24 00:49	5

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

Client Sample ID: CS 60

Lab Sample ID: 880-45368-43
Date Collected: 06/26/24 12:31
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 95.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	06/28/24 13:57	07/05/24 00:49	5
o-Terphenyl	100		70 - 130	06/28/24 13:57	07/05/24 00:49	5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12000		100	7.93	mg/Kg			07/02/24 06:44	20

Client Sample ID: CS 61

Lab Sample ID: 880-45368-44
Date Collected: 06/26/24 12:32
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 96.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00143	U	0.00205	0.00143	mg/Kg	☼	06/28/24 11:02	06/29/24 12:09	1
Toluene	<0.00205	U	0.00205	0.00205	mg/Kg	☼	06/28/24 11:02	06/29/24 12:09	1
Ethylbenzene	<0.00112	U	0.00205	0.00112	mg/Kg	☼	06/28/24 11:02	06/29/24 12:09	1
m-Xylene & p-Xylene	<0.00235	U	0.00411	0.00235	mg/Kg	☼	06/28/24 11:02	06/29/24 12:09	1
o-Xylene	<0.00163	U	0.00205	0.00163	mg/Kg	☼	06/28/24 11:02	06/29/24 12:09	1
Xylenes, Total	<0.00235	U	0.00411	0.00235	mg/Kg	☼	06/28/24 11:02	06/29/24 12:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	06/28/24 11:02	06/29/24 12:09	1
1,4-Difluorobenzene (Surr)	110		70 - 130	06/28/24 11:02	06/29/24 12:09	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	35.9	J	51.8	11.4	mg/Kg	☼	06/28/24 13:57	07/04/24 20:23	1
Diesel Range Organics (Over C10-C28)	300	B	51.8	15.5	mg/Kg	☼	06/28/24 13:57	07/04/24 20:23	1
Oil Range Organics (Over C28-C36)	168	B	51.8	13.0	mg/Kg	☼	06/28/24 13:57	07/04/24 20:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	06/28/24 13:57	07/04/24 20:23	1
o-Terphenyl	91		70 - 130	06/28/24 13:57	07/04/24 20:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9970		50.2	3.97	mg/Kg			07/02/24 06:49	10

Client Sample ID: CS 62

Lab Sample ID: 880-45368-45
Date Collected: 06/26/24 12:32
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00142	U	0.00204	0.00142	mg/Kg	☼	06/28/24 11:02	06/29/24 12:30	1
Toluene	<0.00204	U	0.00204	0.00204	mg/Kg	☼	06/28/24 11:02	06/29/24 12:30	1
Ethylbenzene	<0.00111	U	0.00204	0.00111	mg/Kg	☼	06/28/24 11:02	06/29/24 12:30	1
m-Xylene & p-Xylene	<0.00233	U	0.00409	0.00233	mg/Kg	☼	06/28/24 11:02	06/29/24 12:30	1
o-Xylene	<0.00162	U	0.00204	0.00162	mg/Kg	☼	06/28/24 11:02	06/29/24 12:30	1
Xylenes, Total	<0.00233	U	0.00409	0.00233	mg/Kg	☼	06/28/24 11:02	06/29/24 12:30	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 62
Lab Sample ID: 880-45368-45
Date Collected: 06/26/24 12:32
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*06/28/24 11:02*	*06/29/24 12:30*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*06/28/24 11:02*	*06/29/24 12:30*	*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	38.4	J	51.3	11.3	mg/Kg	☼	06/28/24 13:57	07/04/24 20:43	1
Diesel Range Organics (Over C10-C28)	209	B	51.3	15.4	mg/Kg	☼	06/28/24 13:57	07/04/24 20:43	1
Oil Range Organics (Over C28-C36)	130	B	51.3	12.8	mg/Kg	☼	06/28/24 13:57	07/04/24 20:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*86*		*70 - 130*	*06/28/24 13:57*	*07/04/24 20:43*	*1*
o-Terphenyl	*91*		*70 - 130*	*06/28/24 13:57*	*07/04/24 20:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18300		100	7.90	mg/Kg			07/02/24 07:05	20

Client Sample ID: CS 63
Lab Sample ID: 880-45368-46
Date Collected: 06/26/24 12:36
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00203	0.00141	mg/Kg	☼	06/28/24 11:02	06/29/24 12:50	1
Toluene	<0.00203	U	0.00203	0.00203	mg/Kg	☼	06/28/24 11:02	06/29/24 12:50	1
Ethylbenzene	<0.00110	U	0.00203	0.00110	mg/Kg	☼	06/28/24 11:02	06/29/24 12:50	1
m-Xylene & p-Xylene	<0.00232	U	0.00406	0.00232	mg/Kg	☼	06/28/24 11:02	06/29/24 12:50	1
o-Xylene	<0.00161	U	0.00203	0.00161	mg/Kg	☼	06/28/24 11:02	06/29/24 12:50	1
Xylenes, Total	<0.00232	U	0.00406	0.00232	mg/Kg	☼	06/28/24 11:02	06/29/24 12:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*06/28/24 11:02*	*06/29/24 12:50*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*06/28/24 11:02*	*06/29/24 12:50*	*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	38.5	J	51.1	11.2	mg/Kg	☼	06/28/24 13:57	07/04/24 21:03	1
Diesel Range Organics (Over C10-C28)	275	B	51.1	15.3	mg/Kg	☼	06/28/24 13:57	07/04/24 21:03	1
Oil Range Organics (Over C28-C36)	158	B	51.1	12.8	mg/Kg	☼	06/28/24 13:57	07/04/24 21:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*109*		*70 - 130*	*06/28/24 13:57*	*07/04/24 21:03*	*1*
o-Terphenyl	*110*		*70 - 130*	*06/28/24 13:57*	*07/04/24 21:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12900		99.8	7.88	mg/Kg			07/02/24 07:10	20

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 64
Lab Sample ID: 880-45368-47
Date Collected: 06/26/24 12:37
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00203	0.00141	mg/Kg	☼	06/28/24 11:02	06/29/24 13:11	1
Toluene	<0.00203	U	0.00203	0.00203	mg/Kg	☼	06/28/24 11:02	06/29/24 13:11	1
Ethylbenzene	<0.00111	U	0.00203	0.00111	mg/Kg	☼	06/28/24 11:02	06/29/24 13:11	1
m-Xylene & p-Xylene	<0.00232	U	0.00406	0.00232	mg/Kg	☼	06/28/24 11:02	06/29/24 13:11	1
o-Xylene	<0.00161	U	0.00203	0.00161	mg/Kg	☼	06/28/24 11:02	06/29/24 13:11	1
Xylenes, Total	<0.00232	U	0.00406	0.00232	mg/Kg	☼	06/28/24 11:02	06/29/24 13:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*06/28/24 11:02*	*06/29/24 13:11*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*06/28/24 11:02*	*06/29/24 13:11*	*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	**162**	**J**	254	55.8	mg/Kg	☼	06/28/24 13:57	07/05/24 01:10	5
Diesel Range Organics (Over C10-C28)	**1380**	**B**	254	76.2	mg/Kg	☼	06/28/24 13:57	07/05/24 01:10	5
Oil Range Organics (Over C28-C36)	**1150**	**B**	254	63.6	mg/Kg	☼	06/28/24 13:57	07/05/24 01:10	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*06/28/24 13:57*	*07/05/24 01:10*	*5*
o-Terphenyl	*96*		*70 - 130*	*06/28/24 13:57*	*07/05/24 01:10*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3640**		25.1	1.98	mg/Kg			07/02/24 07:15	5

Client Sample ID: CS 65
Lab Sample ID: 880-45368-48
Date Collected: 06/26/24 12:38
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 95.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00145	U	0.00208	0.00145	mg/Kg	☼	06/28/24 11:02	06/29/24 13:31	1
Toluene	<0.00208	U	0.00208	0.00208	mg/Kg	☼	06/28/24 11:02	06/29/24 13:31	1
Ethylbenzene	<0.00113	U	0.00208	0.00113	mg/Kg	☼	06/28/24 11:02	06/29/24 13:31	1
m-Xylene & p-Xylene	<0.00237	U	0.00415	0.00237	mg/Kg	☼	06/28/24 11:02	06/29/24 13:31	1
o-Xylene	<0.00165	U	0.00208	0.00165	mg/Kg	☼	06/28/24 11:02	06/29/24 13:31	1
Xylenes, Total	<0.00237	U	0.00415	0.00237	mg/Kg	☼	06/28/24 11:02	06/29/24 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*06/28/24 11:02*	*06/29/24 13:31*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*06/28/24 11:02*	*06/29/24 13:31*	*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	**47.9**	**J**	52.2	11.5	mg/Kg	☼	06/28/24 13:57	07/04/24 21:24	1
Diesel Range Organics (Over C10-C28)	**74.7**	**B**	52.2	15.7	mg/Kg	☼	06/28/24 13:57	07/04/24 21:24	1
Oil Range Organics (Over C28-C36)	**43.7**	**J B**	52.2	13.1	mg/Kg	☼	06/28/24 13:57	07/04/24 21:24	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 65
Lab Sample ID: 880-45368-48
Date Collected: 06/26/24 12:38
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 95.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*06/28/24 13:57*	*07/04/24 21:24*	*1*
o-Terphenyl	*98*		*70 - 130*	*06/28/24 13:57*	*07/04/24 21:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8400**		50.1	3.96	mg/Kg			07/02/24 07:20	10

Client Sample ID: CS 66
Lab Sample ID: 880-45368-49
Date Collected: 06/26/24 12:39
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 96.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00144	U	0.00207	0.00144	mg/Kg	☼	06/28/24 11:02	06/29/24 13:52	1
Toluene	<0.00206	U	0.00207	0.00206	mg/Kg	☼	06/28/24 11:02	06/29/24 13:52	1
Ethylbenzene	<0.00112	U	0.00207	0.00112	mg/Kg	☼	06/28/24 11:02	06/29/24 13:52	1
m-Xylene & p-Xylene	<0.00236	U	0.00413	0.00236	mg/Kg	☼	06/28/24 11:02	06/29/24 13:52	1
o-Xylene	<0.00164	U	0.00207	0.00164	mg/Kg	☼	06/28/24 11:02	06/29/24 13:52	1
Xylenes, Total	<0.00236	U	0.00413	0.00236	mg/Kg	☼	06/28/24 11:02	06/29/24 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*	*06/28/24 11:02*	*06/29/24 13:52*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*06/28/24 11:02*	*06/29/24 13:52*	*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	**43.5**	**J**	51.4	11.3	mg/Kg	☼	06/28/24 13:57	07/04/24 21:45	1
Diesel Range Organics (Over C10-C28)	**42.7**	**J B**	51.4	15.4	mg/Kg	☼	06/28/24 13:57	07/04/24 21:45	1
Oil Range Organics (Over C28-C36)	**22.1**	**J B**	51.4	12.9	mg/Kg	☼	06/28/24 13:57	07/04/24 21:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*06/28/24 13:57*	*07/04/24 21:45*	*1*
o-Terphenyl	*115*		*70 - 130*	*06/28/24 13:57*	*07/04/24 21:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**737**		5.04	0.398	mg/Kg			07/02/24 07:26	1

Client Sample ID: CS 67
Lab Sample ID: 880-45368-50
Date Collected: 06/26/24 13:12
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 95.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00145	U	0.00208	0.00145	mg/Kg	☼	06/28/24 11:02	06/29/24 14:12	1
Toluene	<0.00208	U	0.00208	0.00208	mg/Kg	☼	06/28/24 11:02	06/29/24 14:12	1
Ethylbenzene	<0.00113	U	0.00208	0.00113	mg/Kg	☼	06/28/24 11:02	06/29/24 14:12	1
m-Xylene & p-Xylene	<0.00238	U	0.00416	0.00238	mg/Kg	☼	06/28/24 11:02	06/29/24 14:12	1
o-Xylene	<0.00165	U	0.00208	0.00165	mg/Kg	☼	06/28/24 11:02	06/29/24 14:12	1
Xylenes, Total	<0.00238	U	0.00416	0.00238	mg/Kg	☼	06/28/24 11:02	06/29/24 14:12	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 67
Lab Sample ID: 880-45368-50
Date Collected: 06/26/24 13:12
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 95.2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*	*06/28/24 11:02*	*06/29/24 14:12*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*06/28/24 11:02*	*06/29/24 14:12*	*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	**50.6**	**J**	52.3	11.5	mg/Kg	☼	06/28/24 13:57	07/04/24 22:05	1
Diesel Range Organics (Over C10-C28)	**176**	**B**	52.3	15.7	mg/Kg	☼	06/28/24 13:57	07/04/24 22:05	1
Oil Range Organics (Over C28-C36)	**51.6**	**J B**	52.3	13.1	mg/Kg	☼	06/28/24 13:57	07/04/24 22:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*06/28/24 13:57*	*07/04/24 22:05*	*1*
o-Terphenyl	*115*		*70 - 130*	*06/28/24 13:57*	*07/04/24 22:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3810**	**F1**	25.2	1.99	mg/Kg			07/02/24 07:31	5

Client Sample ID: CS 68
Lab Sample ID: 880-45368-51
Date Collected: 06/26/24 12:10
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00180	U	0.00258	0.00180	mg/Kg	☼	06/28/24 11:02	06/29/24 14:33	1
Toluene	<0.00258	U	0.00258	0.00258	mg/Kg	☼	06/28/24 11:02	06/29/24 14:33	1
Ethylbenzene	<0.00141	U	0.00258	0.00141	mg/Kg	☼	06/28/24 11:02	06/29/24 14:33	1
m-Xylene & p-Xylene	<0.00295	U	0.00517	0.00295	mg/Kg	☼	06/28/24 11:02	06/29/24 14:33	1
o-Xylene	<0.00205	U	0.00258	0.00205	mg/Kg	☼	06/28/24 11:02	06/29/24 14:33	1
Xylenes, Total	<0.00295	U	0.00517	0.00295	mg/Kg	☼	06/28/24 11:02	06/29/24 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*06/28/24 11:02*	*06/29/24 14:33*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*06/28/24 11:02*	*06/29/24 14:33*	*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	**28.9**	**J**	63.8	14.0	mg/Kg	☼	06/28/24 13:57	07/04/24 22:25	1
Diesel Range Organics (Over C10-C28)	**56.9**	**J B**	63.8	19.1	mg/Kg	☼	06/28/24 13:57	07/04/24 22:25	1
Oil Range Organics (Over C28-C36)	<16.0	U	63.8	16.0	mg/Kg	☼	06/28/24 13:57	07/04/24 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*06/28/24 13:57*	*07/04/24 22:25*	*1*
o-Terphenyl	*114*		*70 - 130*	*06/28/24 13:57*	*07/04/24 22:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7640**		50.5	3.99	mg/Kg			07/02/24 07:46	10

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 69
Lab Sample ID: 880-45368-52
Date Collected: 06/26/24 12:12
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 95.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00146	U	0.00210	0.00146	mg/Kg	☼	06/28/24 11:02	06/29/24 16:24	1
Toluene	<0.00210	U	0.00210	0.00210	mg/Kg	☼	06/28/24 11:02	06/29/24 16:24	1
Ethylbenzene	<0.00115	U	0.00210	0.00115	mg/Kg	☼	06/28/24 11:02	06/29/24 16:24	1
m-Xylene & p-Xylene	<0.00240	U	0.00421	0.00240	mg/Kg	☼	06/28/24 11:02	06/29/24 16:24	1
o-Xylene	<0.00167	U	0.00210	0.00167	mg/Kg	☼	06/28/24 11:02	06/29/24 16:24	1
Xylenes, Total	<0.00240	U	0.00421	0.00240	mg/Kg	☼	06/28/24 11:02	06/29/24 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*06/28/24 11:02*	*06/29/24 16:24*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*06/28/24 11:02*	*06/29/24 16:24*	*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	**26.6**	**J**	52.2	11.5	mg/Kg	☼	06/28/24 13:57	07/05/24 03:17	1
Diesel Range Organics (Over C10-C28)	**1650**	**B**	52.2	15.7	mg/Kg	☼	06/28/24 13:57	07/05/24 03:17	1
Oil Range Organics (Over C28-C36)	**482**	**B**	52.2	13.1	mg/Kg	☼	06/28/24 13:57	07/05/24 03:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*06/28/24 13:57*	*07/05/24 03:17*	*1*
o-Terphenyl	*97*		*70 - 130*	*06/28/24 13:57*	*07/05/24 03:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**565**		99.6	7.87	mg/Kg			07/02/24 07:52	20

Client Sample ID: CS 70
Lab Sample ID: 880-45368-53
Date Collected: 06/26/24 12:14
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 90.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00154	U	0.00221	0.00154	mg/Kg	☼	06/28/24 11:02	06/29/24 16:45	1
Toluene	<0.00221	U	0.00221	0.00221	mg/Kg	☼	06/28/24 11:02	06/29/24 16:45	1
Ethylbenzene	<0.00120	U	0.00221	0.00120	mg/Kg	☼	06/28/24 11:02	06/29/24 16:45	1
m-Xylene & p-Xylene	<0.00252	U	0.00442	0.00252	mg/Kg	☼	06/28/24 11:02	06/29/24 16:45	1
o-Xylene	<0.00175	U	0.00221	0.00175	mg/Kg	☼	06/28/24 11:02	06/29/24 16:45	1
Xylenes, Total	<0.00252	U	0.00442	0.00252	mg/Kg	☼	06/28/24 11:02	06/29/24 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*06/28/24 11:02*	*06/29/24 16:45*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*06/28/24 11:02*	*06/29/24 16:45*	*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	<60.5	U	276	60.5	mg/Kg	☼	06/28/24 13:57	07/05/24 01:28	5
Diesel Range Organics (Over C10-C28)	**276**	**B**	276	82.7	mg/Kg	☼	06/28/24 13:57	07/05/24 01:28	5
Oil Range Organics (Over C28-C36)	**82.4**	**J B**	276	69.0	mg/Kg	☼	06/28/24 13:57	07/05/24 01:28	5

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 70
Lab Sample ID: 880-45368-53
Date Collected: 06/26/24 12:14
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 90.7

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*9*	*S1-*	*70 - 130*	*06/28/24 13:57*	*07/05/24 01:28*	*5*
o-Terphenyl	*13*	*S1-*	*70 - 130*	*06/28/24 13:57*	*07/05/24 01:28*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8130**		49.9	3.94	mg/Kg			07/02/24 08:07	10

Client Sample ID: CS 71
Lab Sample ID: 880-45368-54
Date Collected: 06/26/24 12:16
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 92.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00150	U	0.00215	0.00150	mg/Kg	☼	06/28/24 11:02	06/29/24 17:05	1
Toluene	<0.00215	U	0.00215	0.00215	mg/Kg	☼	06/28/24 11:02	06/29/24 17:05	1
Ethylbenzene	<0.00117	U	0.00215	0.00117	mg/Kg	☼	06/28/24 11:02	06/29/24 17:05	1
m-Xylene & p-Xylene	<0.00246	U	0.00430	0.00246	mg/Kg	☼	06/28/24 11:02	06/29/24 17:05	1
o-Xylene	<0.00170	U	0.00215	0.00170	mg/Kg	☼	06/28/24 11:02	06/29/24 17:05	1
Xylenes, Total	<0.00246	U	0.00430	0.00246	mg/Kg	☼	06/28/24 11:02	06/29/24 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*06/28/24 11:02*	*06/29/24 17:05*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*06/28/24 11:02*	*06/29/24 17:05*	*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	**33.0**	**J**	53.9	11.8	mg/Kg	☼	06/28/24 13:57	07/05/24 02:35	1
Diesel Range Organics (Over C10-C28)	**1910**	**B**	53.9	16.2	mg/Kg	☼	06/28/24 13:57	07/05/24 02:35	1
Oil Range Organics (Over C28-C36)	**442**	**B**	53.9	13.5	mg/Kg	☼	06/28/24 13:57	07/05/24 02:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*06/28/24 13:57*	*07/05/24 02:35*	*1*
o-Terphenyl	*95*		*70 - 130*	*06/28/24 13:57*	*07/05/24 02:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9270**		50.4	3.98	mg/Kg			07/02/24 08:13	10

Client Sample ID: CS 72
Lab Sample ID: 880-45368-55
Date Collected: 06/26/24 12:17
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 91.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00152	U	0.00219	0.00152	mg/Kg	☼	06/28/24 11:02	06/29/24 17:26	1
Toluene	<0.00219	U	0.00219	0.00219	mg/Kg	☼	06/28/24 11:02	06/29/24 17:26	1
Ethylbenzene	<0.00119	U	0.00219	0.00119	mg/Kg	☼	06/28/24 11:02	06/29/24 17:26	1
m-Xylene & p-Xylene	<0.00250	U	0.00438	0.00250	mg/Kg	☼	06/28/24 11:02	06/29/24 17:26	1
o-Xylene	<0.00173	U	0.00219	0.00173	mg/Kg	☼	06/28/24 11:02	06/29/24 17:26	1
Xylenes, Total	<0.00250	U	0.00438	0.00250	mg/Kg	☼	06/28/24 11:02	06/29/24 17:26	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 72
Lab Sample ID: 880-45368-55
Date Collected: 06/26/24 12:17
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 91.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*06/28/24 11:02*	*06/29/24 17:26*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*06/28/24 11:02*	*06/29/24 17:26*	*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	51.4	J	54.9	12.1	mg/Kg	☼	06/28/24 13:57	07/04/24 22:46	1
Diesel Range Organics (Over C10-C28)	189	B	54.9	16.5	mg/Kg	☼	06/28/24 13:57	07/04/24 22:46	1
Oil Range Organics (Over C28-C36)	102	B	54.9	13.8	mg/Kg	☼	06/28/24 13:57	07/04/24 22:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*98*		*70 - 130*	*06/28/24 13:57*	*07/04/24 22:46*	*1*
o-Terphenyl	*104*		*70 - 130*	*06/28/24 13:57*	*07/04/24 22:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9800		50.2	3.97	mg/Kg			07/02/24 08:18	10

Client Sample ID: CS 73
Lab Sample ID: 880-45368-56
Date Collected: 06/26/24 12:18
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00203	0.00141	mg/Kg	☼	06/28/24 11:02	06/29/24 17:46	1
Toluene	<0.00203	U	0.00203	0.00203	mg/Kg	☼	06/28/24 11:02	06/29/24 17:46	1
Ethylbenzene	<0.00111	U	0.00203	0.00111	mg/Kg	☼	06/28/24 11:02	06/29/24 17:46	1
m-Xylene & p-Xylene	<0.00232	U	0.00406	0.00232	mg/Kg	☼	06/28/24 11:02	06/29/24 17:46	1
o-Xylene	<0.00161	U	0.00203	0.00161	mg/Kg	☼	06/28/24 11:02	06/29/24 17:46	1
Xylenes, Total	<0.00232	U	0.00406	0.00232	mg/Kg	☼	06/28/24 11:02	06/29/24 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*06/28/24 11:02*	*06/29/24 17:46*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*06/28/24 11:02*	*06/29/24 17:46*	*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	36.1	J	51.6	11.3	mg/Kg	☼	06/28/24 13:57	07/05/24 02:56	1
Diesel Range Organics (Over C10-C28)	809	B	51.6	15.5	mg/Kg	☼	06/28/24 13:57	07/05/24 02:56	1
Oil Range Organics (Over C28-C36)	427	B	51.6	12.9	mg/Kg	☼	06/28/24 13:57	07/05/24 02:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*83*		*70 - 130*	*06/28/24 13:57*	*07/05/24 02:56*	*1*
o-Terphenyl	*85*		*70 - 130*	*06/28/24 13:57*	*07/05/24 02:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20900		100	7.90	mg/Kg			07/02/24 08:23	20

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 74
Lab Sample ID: 880-45368-57
Date Collected: 06/26/24 12:20
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 94.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00147	U	0.00211	0.00147	mg/Kg	☼	06/28/24 11:02	06/29/24 18:07	1
Toluene	<0.00211	U	0.00211	0.00211	mg/Kg	☼	06/28/24 11:02	06/29/24 18:07	1
Ethylbenzene	<0.00115	U	0.00211	0.00115	mg/Kg	☼	06/28/24 11:02	06/29/24 18:07	1
m-Xylene & p-Xylene	<0.00241	U	0.00423	0.00241	mg/Kg	☼	06/28/24 11:02	06/29/24 18:07	1
o-Xylene	<0.00167	U	0.00211	0.00167	mg/Kg	☼	06/28/24 11:02	06/29/24 18:07	1
Xylenes, Total	<0.00241	U	0.00423	0.00241	mg/Kg	☼	06/28/24 11:02	06/29/24 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*	*06/28/24 11:02*	*06/29/24 18:07*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*06/28/24 11:02*	*06/29/24 18:07*	*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	**47.3**	**J**	52.8	11.6	mg/Kg	☼	06/28/24 13:57	07/04/24 23:07	1
Diesel Range Organics (Over C10-C28)	**264**	**B**	52.8	15.8	mg/Kg	☼	06/28/24 13:57	07/04/24 23:07	1
Oil Range Organics (Over C28-C36)	**143**	**B**	52.8	13.2	mg/Kg	☼	06/28/24 13:57	07/04/24 23:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*06/28/24 13:57*	*07/04/24 23:07*	*1*
o-Terphenyl	*97*		*70 - 130*	*06/28/24 13:57*	*07/04/24 23:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4860**		24.8	1.96	mg/Kg			07/02/24 08:28	5

Client Sample ID: CS 75
Lab Sample ID: 880-45368-58
Date Collected: 06/26/24 12:22
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 96.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00146	U	0.00209	0.00146	mg/Kg	☼	06/28/24 11:02	06/29/24 18:27	1
Toluene	<0.00209	U	0.00209	0.00209	mg/Kg	☼	06/28/24 11:02	06/29/24 18:27	1
Ethylbenzene	<0.00114	U	0.00209	0.00114	mg/Kg	☼	06/28/24 11:02	06/29/24 18:27	1
m-Xylene & p-Xylene	<0.00239	U	0.00418	0.00239	mg/Kg	☼	06/28/24 11:02	06/29/24 18:27	1
o-Xylene	<0.00166	U	0.00209	0.00166	mg/Kg	☼	06/28/24 11:02	06/29/24 18:27	1
Xylenes, Total	<0.00239	U	0.00418	0.00239	mg/Kg	☼	06/28/24 11:02	06/29/24 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*06/28/24 11:02*	*06/29/24 18:27*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*06/28/24 11:02*	*06/29/24 18:27*	*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	**35.9**	**J**	52.2	11.5	mg/Kg	☼	06/28/24 13:57	07/04/24 23:48	1
Diesel Range Organics (Over C10-C28)	**96.4**	**B**	52.2	15.7	mg/Kg	☼	06/28/24 13:57	07/04/24 23:48	1
Oil Range Organics (Over C28-C36)	**53.6**	**B**	52.2	13.1	mg/Kg	☼	06/28/24 13:57	07/04/24 23:48	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 75
Lab Sample ID: 880-45368-58
Date Collected: 06/26/24 12:22
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 96.4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*06/28/24 13:57*	*07/04/24 23:48*	*1*
o-Terphenyl	*83*		*70 - 130*	*06/28/24 13:57*	*07/04/24 23:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2220**		25.0	1.97	mg/Kg			07/02/24 08:34	5

Client Sample ID: CS 76
Lab Sample ID: 880-45368-59
Date Collected: 06/26/24 12:24
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 96.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00145	U	0.00209	0.00145	mg/Kg	☼	06/28/24 11:02	06/29/24 18:48	1
Toluene	<0.00209	U	0.00209	0.00209	mg/Kg	☼	06/28/24 11:02	06/29/24 18:48	1
Ethylbenzene	<0.00114	U	0.00209	0.00114	mg/Kg	☼	06/28/24 11:02	06/29/24 18:48	1
m-Xylene & p-Xylene	<0.00239	U	0.00418	0.00239	mg/Kg	☼	06/28/24 11:02	06/29/24 18:48	1
o-Xylene	<0.00165	U	0.00209	0.00165	mg/Kg	☼	06/28/24 11:02	06/29/24 18:48	1
Xylenes, Total	<0.00239	U	0.00418	0.00239	mg/Kg	☼	06/28/24 11:02	06/29/24 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*06/28/24 11:02*	*06/29/24 18:48*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*06/28/24 11:02*	*06/29/24 18:48*	*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	**35.2**	**J**	52.4	11.5	mg/Kg	☼	06/28/24 13:57	07/05/24 03:37	1
Diesel Range Organics (Over C10-C28)	**315**	**B**	52.4	15.7	mg/Kg	☼	06/28/24 13:57	07/05/24 03:37	1
Oil Range Organics (Over C28-C36)	**215**	**B**	52.4	13.1	mg/Kg	☼	06/28/24 13:57	07/05/24 03:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*06/28/24 13:57*	*07/05/24 03:37*	*1*
o-Terphenyl	*115*		*70 - 130*	*06/28/24 13:57*	*07/05/24 03:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1820**		25.3	1.99	mg/Kg			07/02/24 06:59	5

Client Sample ID: CS 89
Lab Sample ID: 880-45368-60
Date Collected: 06/26/24 13:06
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 99.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg	☼	07/03/24 08:57	07/03/24 17:40	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg	☼	07/03/24 08:57	07/03/24 17:40	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg	☼	07/03/24 08:57	07/03/24 17:40	1
m-Xylene & p-Xylene	<0.00228	U	0.00400	0.00228	mg/Kg	☼	07/03/24 08:57	07/03/24 17:40	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg	☼	07/03/24 08:57	07/03/24 17:40	1
Xylenes, Total	<0.00228	U	0.00400	0.00228	mg/Kg	☼	07/03/24 08:57	07/03/24 17:40	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 89
Lab Sample ID: 880-45368-60
Date Collected: 06/26/24 13:06
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 99.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	07/03/24 08:57	07/03/24 17:40	1
1,4-Difluorobenzene (Surr)	103		70 - 130	07/03/24 08:57	07/03/24 17:40	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	<11.1	U	50.4	11.1	mg/Kg	☼	07/02/24 09:08	07/03/24 01:27	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.4	15.1	mg/Kg	☼	07/02/24 09:08	07/03/24 01:27	1
Oil Range Organics (Over C28-C36)	<12.6	U	50.4	12.6	mg/Kg	☼	07/02/24 09:08	07/03/24 01:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	12	S1-	70 - 130	07/02/24 09:08	07/03/24 01:27	1
o-Terphenyl	14	S1-	70 - 130	07/02/24 09:08	07/03/24 01:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13300		101	7.96	mg/Kg			07/03/24 19:19	20

Client Sample ID: CS 79
Lab Sample ID: 880-45368-61
Date Collected: 06/26/24 11:06
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 95.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00146	U	0.00210	0.00146	mg/Kg	☼	06/28/24 11:03	06/29/24 09:37	1
Toluene	<0.00210	U	0.00210	0.00210	mg/Kg	☼	06/28/24 11:03	06/29/24 09:37	1
Ethylbenzene	<0.00114	U F1	0.00210	0.00114	mg/Kg	☼	06/28/24 11:03	06/29/24 09:37	1
m-Xylene & p-Xylene	<0.00240	U	0.00419	0.00240	mg/Kg	☼	06/28/24 11:03	06/29/24 09:37	1
o-Xylene	<0.00166	U	0.00210	0.00166	mg/Kg	☼	06/28/24 11:03	06/29/24 09:37	1
Xylenes, Total	<0.00240	U	0.00419	0.00240	mg/Kg	☼	06/28/24 11:03	06/29/24 09:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	06/28/24 11:03	06/29/24 09:37	1
1,4-Difluorobenzene (Surr)	91		70 - 130	06/28/24 11:03	06/29/24 09:37	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	48.5	J	53.2	11.7	mg/Kg	☼	06/28/24 13:57	07/05/24 00:09	1
Diesel Range Organics (Over C10-C28)	273	B	53.2	15.9	mg/Kg	☼	06/28/24 13:57	07/05/24 00:09	1
Oil Range Organics (Over C28-C36)	62.1	B	53.2	13.3	mg/Kg	☼	06/28/24 13:57	07/05/24 00:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	06/28/24 13:57	07/05/24 00:09	1
o-Terphenyl	101		70 - 130	06/28/24 13:57	07/05/24 00:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	639		101	7.96	mg/Kg			07/02/24 07:19	20

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 80
Lab Sample ID: 880-45368-62
Date Collected: 06/26/24 11:58
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 96.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00145	U	0.00208	0.00145	mg/Kg	☼	06/28/24 11:03	06/29/24 09:58	1
Toluene	<0.00208	U	0.00208	0.00208	mg/Kg	☼	06/28/24 11:03	06/29/24 09:58	1
Ethylbenzene	<0.00113	U	0.00208	0.00113	mg/Kg	☼	06/28/24 11:03	06/29/24 09:58	1
m-Xylene & p-Xylene	<0.00237	U	0.00416	0.00237	mg/Kg	☼	06/28/24 11:03	06/29/24 09:58	1
o-Xylene	<0.00165	U	0.00208	0.00165	mg/Kg	☼	06/28/24 11:03	06/29/24 09:58	1
Xylenes, Total	<0.00237	U	0.00416	0.00237	mg/Kg	☼	06/28/24 11:03	06/29/24 09:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*06/28/24 11:03*	*06/29/24 09:58*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*06/28/24 11:03*	*06/29/24 09:58*	*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	**25.5**	**J**	51.6	11.3	mg/Kg	☼	06/28/24 13:57	07/05/24 00:29	1
Diesel Range Organics (Over C10-C28)	**617**	**B**	51.6	15.5	mg/Kg	☼	06/28/24 13:57	07/05/24 00:29	1
Oil Range Organics (Over C28-C36)	**80.2**	**B**	51.6	12.9	mg/Kg	☼	06/28/24 13:57	07/05/24 00:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*06/28/24 13:57*	*07/05/24 00:29*	*1*
o-Terphenyl	*100*		*70 - 130*	*06/28/24 13:57*	*07/05/24 00:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1280**		99.8	7.88	mg/Kg			07/02/24 07:26	20

Client Sample ID: CS 81
Lab Sample ID: 880-45368-63
Date Collected: 06/26/24 12:00
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00145	U	0.00208	0.00145	mg/Kg	☼	06/28/24 11:03	06/29/24 10:18	1
Toluene	<0.00208	U	0.00208	0.00208	mg/Kg	☼	06/28/24 11:03	06/29/24 10:18	1
Ethylbenzene	<0.00113	U	0.00208	0.00113	mg/Kg	☼	06/28/24 11:03	06/29/24 10:18	1
m-Xylene & p-Xylene	<0.00237	U	0.00415	0.00237	mg/Kg	☼	06/28/24 11:03	06/29/24 10:18	1
o-Xylene	**0.00177**	**J**	0.00208	0.00164	mg/Kg	☼	06/28/24 11:03	06/29/24 10:18	1
Xylenes, Total	<0.00237	U	0.00415	0.00237	mg/Kg	☼	06/28/24 11:03	06/29/24 10:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*06/28/24 11:03*	*06/29/24 10:18*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*06/28/24 11:03*	*06/29/24 10:18*	*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	<11.2	U F1	51.1	11.2	mg/Kg	☼	06/28/24 16:07	06/29/24 01:34	1
Diesel Range Organics (Over C10-C28)	**735**	**B F1**	51.1	15.3	mg/Kg	☼	06/28/24 16:07	06/29/24 01:34	1
Oil Range Organics (Over C28-C36)	<12.8	U	51.1	12.8	mg/Kg	☼	06/28/24 16:07	06/29/24 01:34	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 81
Lab Sample ID: 880-45368-63
Date Collected: 06/26/24 12:00
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*06/28/24 16:07*	*06/29/24 01:34*	*1*
o-Terphenyl	*84*		*70 - 130*	*06/28/24 16:07*	*06/29/24 01:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4580**		49.8	3.93	mg/Kg			07/02/24 07:32	10

Client Sample ID: CS 82
Lab Sample ID: 880-45368-64
Date Collected: 06/26/24 12:02
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00142	U	0.00204	0.00142	mg/Kg	☼	06/28/24 11:03	06/29/24 10:39	1
Toluene	<0.00204	U	0.00204	0.00204	mg/Kg	☼	06/28/24 11:03	06/29/24 10:39	1
Ethylbenzene	<0.00111	U	0.00204	0.00111	mg/Kg	☼	06/28/24 11:03	06/29/24 10:39	1
m-Xylene & p-Xylene	<0.00233	U	0.00409	0.00233	mg/Kg	☼	06/28/24 11:03	06/29/24 10:39	1
o-Xylene	<0.00162	U	0.00204	0.00162	mg/Kg	☼	06/28/24 11:03	06/29/24 10:39	1
Xylenes, Total	<0.00233	U	0.00409	0.00233	mg/Kg	☼	06/28/24 11:03	06/29/24 10:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*06/28/24 11:03*	*06/29/24 10:39*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*06/28/24 11:03*	*06/29/24 10:39*	*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	<11.3	U	51.3	11.3	mg/Kg	☼	06/28/24 16:07	06/29/24 02:20	1
Diesel Range Organics (Over C10-C28)	<15.4	U	51.3	15.4	mg/Kg	☼	06/28/24 16:07	06/29/24 02:20	1
Oil Range Organics (Over C28-C36)	<12.9	U	51.3	12.9	mg/Kg	☼	06/28/24 16:07	06/29/24 02:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*06/28/24 16:07*	*06/29/24 02:20*	*1*
o-Terphenyl	*84*		*70 - 130*	*06/28/24 16:07*	*06/29/24 02:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1410**		25.1	1.98	mg/Kg			07/02/24 07:39	5

Client Sample ID: CS 83
Lab Sample ID: 880-45368-65
Date Collected: 06/26/24 12:04
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00143	U	0.00205	0.00143	mg/Kg	☼	06/28/24 11:03	06/29/24 10:59	1
Toluene	<0.00205	U	0.00205	0.00205	mg/Kg	☼	06/28/24 11:03	06/29/24 10:59	1
Ethylbenzene	<0.00112	U	0.00205	0.00112	mg/Kg	☼	06/28/24 11:03	06/29/24 10:59	1
m-Xylene & p-Xylene	<0.00235	U	0.00411	0.00235	mg/Kg	☼	06/28/24 11:03	06/29/24 10:59	1
o-Xylene	<0.00163	U	0.00205	0.00163	mg/Kg	☼	06/28/24 11:03	06/29/24 10:59	1
Xylenes, Total	<0.00235	U	0.00411	0.00235	mg/Kg	☼	06/28/24 11:03	06/29/24 10:59	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 83
Lab Sample ID: 880-45368-65
Date Collected: 06/26/24 12:04
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	06/28/24 11:03	06/29/24 10:59	1
1,4-Difluorobenzene (Surr)	89		70 - 130	06/28/24 11:03	06/29/24 10:59	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	<11.2	U	51.1	11.2	mg/Kg	☼	06/28/24 16:07	06/29/24 02:35	1
Diesel Range Organics (Over C10-C28)	**1250**	**B**	51.1	15.3	mg/Kg	☼	06/28/24 16:07	06/29/24 02:35	1
Oil Range Organics (Over C28-C36)	<12.8	U	51.1	12.8	mg/Kg	☼	06/28/24 16:07	06/29/24 02:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	06/28/24 16:07	06/29/24 02:35	1
o-Terphenyl	84		70 - 130	06/28/24 16:07	06/29/24 02:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3270**		25.1	1.98	mg/Kg			07/02/24 07:59	5

Client Sample ID: CS 84
Lab Sample ID: 880-45368-66
Date Collected: 06/26/24 12:06
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00143	U	0.00205	0.00143	mg/Kg	☼	06/28/24 11:03	06/29/24 11:20	1
Toluene	<0.00205	U	0.00205	0.00205	mg/Kg	☼	06/28/24 11:03	06/29/24 11:20	1
Ethylbenzene	<0.00112	U	0.00205	0.00112	mg/Kg	☼	06/28/24 11:03	06/29/24 11:20	1
m-Xylene & p-Xylene	<0.00235	U	0.00411	0.00235	mg/Kg	☼	06/28/24 11:03	06/29/24 11:20	1
o-Xylene	<0.00163	U	0.00205	0.00163	mg/Kg	☼	06/28/24 11:03	06/29/24 11:20	1
Xylenes, Total	<0.00235	U	0.00411	0.00235	mg/Kg	☼	06/28/24 11:03	06/29/24 11:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	06/28/24 11:03	06/29/24 11:20	1
1,4-Difluorobenzene (Surr)	90		70 - 130	06/28/24 11:03	06/29/24 11:20	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	<112	U	510	112	mg/Kg	☼	06/28/24 16:07	06/29/24 02:50	10
Diesel Range Organics (Over C10-C28)	**4950**	**B**	510	153	mg/Kg	☼	06/28/24 16:07	06/29/24 02:50	10
Oil Range Organics (Over C28-C36)	<128	U	510	128	mg/Kg	☼	06/28/24 16:07	06/29/24 02:50	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	06/28/24 16:07	06/29/24 02:50	10
o-Terphenyl	98		70 - 130	06/28/24 16:07	06/29/24 02:50	10

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1200**		24.9	1.96	mg/Kg			07/02/24 08:05	5

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 85
Lab Sample ID: 880-45368-67
Date Collected: 06/26/24 12:07
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00202	0.00140	mg/Kg	☼	06/28/24 11:03	06/29/24 11:40	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg	☼	06/28/24 11:03	06/29/24 11:40	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg	☼	06/28/24 11:03	06/29/24 11:40	1
m-Xylene & p-Xylene	<0.00230	U	0.00403	0.00230	mg/Kg	☼	06/28/24 11:03	06/29/24 11:40	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg	☼	06/28/24 11:03	06/29/24 11:40	1
Xylenes, Total	<0.00230	U	0.00403	0.00230	mg/Kg	☼	06/28/24 11:03	06/29/24 11:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*06/28/24 11:03*	*06/29/24 11:40*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*06/28/24 11:03*	*06/29/24 11:40*	*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	<11.2	U	50.8	11.2	mg/Kg	☼	06/28/24 16:07	06/29/24 03:05	1
Diesel Range Organics (Over C10-C28)	**95.6**	**B**	50.8	15.2	mg/Kg	☼	06/28/24 16:07	06/29/24 03:05	1
Oil Range Organics (Over C28-C36)	<12.7	U	50.8	12.7	mg/Kg	☼	06/28/24 16:07	06/29/24 03:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*06/28/24 16:07*	*06/29/24 03:05*	*1*
o-Terphenyl	*80*		*70 - 130*	*06/28/24 16:07*	*06/29/24 03:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1050**		5.04	0.398	mg/Kg			07/02/24 08:12	1

Client Sample ID: CS 86
Lab Sample ID: 880-45368-68
Date Collected: 06/26/24 12:19
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 96.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00143	U	0.00205	0.00143	mg/Kg	☼	06/28/24 11:03	06/29/24 12:01	1
Toluene	<0.00205	U	0.00205	0.00205	mg/Kg	☼	06/28/24 11:03	06/29/24 12:01	1
Ethylbenzene	<0.00112	U	0.00205	0.00112	mg/Kg	☼	06/28/24 11:03	06/29/24 12:01	1
m-Xylene & p-Xylene	<0.00235	U	0.00411	0.00235	mg/Kg	☼	06/28/24 11:03	06/29/24 12:01	1
o-Xylene	<0.00163	U	0.00205	0.00163	mg/Kg	☼	06/28/24 11:03	06/29/24 12:01	1
Xylenes, Total	<0.00235	U	0.00411	0.00235	mg/Kg	☼	06/28/24 11:03	06/29/24 12:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*06/28/24 11:03*	*06/29/24 12:01*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*06/28/24 11:03*	*06/29/24 12:01*	*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	<11.5	U	52.2	11.5	mg/Kg	☼	06/28/24 16:07	06/29/24 03:22	1
Diesel Range Organics (Over C10-C28)	<15.7	U	52.2	15.7	mg/Kg	☼	06/28/24 16:07	06/29/24 03:22	1
Oil Range Organics (Over C28-C36)	<13.1	U	52.2	13.1	mg/Kg	☼	06/28/24 16:07	06/29/24 03:22	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 86
Lab Sample ID: 880-45368-68
Date Collected: 06/26/24 12:19
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 96.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*06/28/24 16:07*	*06/29/24 03:22*	*1*
o-Terphenyl	*81*		*70 - 130*	*06/28/24 16:07*	*06/29/24 03:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1120**		25.1	1.98	mg/Kg			07/02/24 08:19	5

Client Sample ID: CS 87
Lab Sample ID: 880-45368-69
Date Collected: 06/26/24 12:10
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00143	U	0.00206	0.00143	mg/Kg	☼	06/28/24 11:03	06/29/24 12:21	1
Toluene	<0.00205	U	0.00206	0.00205	mg/Kg	☼	06/28/24 11:03	06/29/24 12:21	1
Ethylbenzene	<0.00112	U	0.00206	0.00112	mg/Kg	☼	06/28/24 11:03	06/29/24 12:21	1
m-Xylene & p-Xylene	<0.00235	U	0.00411	0.00235	mg/Kg	☼	06/28/24 11:03	06/29/24 12:21	1
o-Xylene	<0.00163	U	0.00206	0.00163	mg/Kg	☼	06/28/24 11:03	06/29/24 12:21	1
Xylenes, Total	<0.00235	U	0.00411	0.00235	mg/Kg	☼	06/28/24 11:03	06/29/24 12:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*06/28/24 11:03*	*06/29/24 12:21*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*06/28/24 11:03*	*06/29/24 12:21*	*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	<11.3	U	51.4	11.3	mg/Kg	☼	06/28/24 16:07	06/29/24 03:37	1
Diesel Range Organics (Over C10-C28)	<15.4	U	51.4	15.4	mg/Kg	☼	06/28/24 16:07	06/29/24 03:37	1
Oil Range Organics (Over C28-C36)	<12.9	U	51.4	12.9	mg/Kg	☼	06/28/24 16:07	06/29/24 03:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*06/28/24 16:07*	*06/29/24 03:37*	*1*
o-Terphenyl	*78*		*70 - 130*	*06/28/24 16:07*	*06/29/24 03:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1190**		4.98	0.393	mg/Kg			07/02/24 08:25	1

Client Sample ID: CS 88
Lab Sample ID: 880-45368-70
Date Collected: 06/26/24 12:12
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg	☼	06/28/24 11:03	06/29/24 12:41	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg	☼	06/28/24 11:03	06/29/24 12:41	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg	☼	06/28/24 11:03	06/29/24 12:41	1
m-Xylene & p-Xylene	<0.00230	U	0.00403	0.00230	mg/Kg	☼	06/28/24 11:03	06/29/24 12:41	1
o-Xylene	<0.00160	U	0.00201	0.00160	mg/Kg	☼	06/28/24 11:03	06/29/24 12:41	1
Xylenes, Total	<0.00230	U	0.00403	0.00230	mg/Kg	☼	06/28/24 11:03	06/29/24 12:41	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

Client Sample ID: CS 88

Lab Sample ID: 880-45368-70
Date Collected: 06/26/24 12:12
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*06/28/24 11:03*	*06/29/24 12:41*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*06/28/24 11:03*	*06/29/24 12:41*	*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	<11.1	U	50.8	11.1	mg/Kg	☼	06/28/24 16:07	06/29/24 03:52	1
Diesel Range Organics (Over C10-C28)	**24.7**	**J B**	50.8	15.2	mg/Kg	☼	06/28/24 16:07	06/29/24 03:52	1
Oil Range Organics (Over C28-C36)	<12.7	U	50.8	12.7	mg/Kg	☼	06/28/24 16:07	06/29/24 03:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*06/28/24 16:07*	*06/29/24 03:52*	*1*
o-Terphenyl	*79*		*70 - 130*	*06/28/24 16:07*	*06/29/24 03:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**916**	**F1**	4.98	0.393	mg/Kg			07/02/24 08:32	1

Client Sample ID: CS 90

Lab Sample ID: 880-45368-71
Date Collected: 06/26/24 13:16
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00145	U	0.00208	0.00145	mg/Kg	☼	06/28/24 11:03	06/29/24 14:16	1
Toluene	<0.00208	U	0.00208	0.00208	mg/Kg	☼	06/28/24 11:03	06/29/24 14:16	1
Ethylbenzene	<0.00113	U	0.00208	0.00113	mg/Kg	☼	06/28/24 11:03	06/29/24 14:16	1
m-Xylene & p-Xylene	<0.00238	U	0.00416	0.00238	mg/Kg	☼	06/28/24 11:03	06/29/24 14:16	1
o-Xylene	<0.00165	U	0.00208	0.00165	mg/Kg	☼	06/28/24 11:03	06/29/24 14:16	1
Xylenes, Total	<0.00238	U	0.00416	0.00238	mg/Kg	☼	06/28/24 11:03	06/29/24 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*06/28/24 11:03*	*06/29/24 14:16*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*06/28/24 11:03*	*06/29/24 14:16*	*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	<11.3	U	51.3	11.3	mg/Kg	☼	06/28/24 16:07	06/29/24 04:07	1
Diesel Range Organics (Over C10-C28)	**186**	**B**	51.3	15.4	mg/Kg	☼	06/28/24 16:07	06/29/24 04:07	1
Oil Range Organics (Over C28-C36)	<12.9	U	51.3	12.9	mg/Kg	☼	06/28/24 16:07	06/29/24 04:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*06/28/24 16:07*	*06/29/24 04:07*	*1*
o-Terphenyl	*82*		*70 - 130*	*06/28/24 16:07*	*06/29/24 04:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5440**		50.3	3.97	mg/Kg			07/02/24 08:52	10

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 91
Lab Sample ID: 880-45368-72
Date Collected: 06/26/24 11:39
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00143	U	0.00205	0.00143	mg/Kg	☼	06/28/24 11:03	06/29/24 14:36	1
Toluene	<0.00205	U	0.00205	0.00205	mg/Kg	☼	06/28/24 11:03	06/29/24 14:36	1
Ethylbenzene	<0.00112	U	0.00205	0.00112	mg/Kg	☼	06/28/24 11:03	06/29/24 14:36	1
m-Xylene & p-Xylene	<0.00235	U	0.00411	0.00235	mg/Kg	☼	06/28/24 11:03	06/29/24 14:36	1
o-Xylene	<0.00163	U	0.00205	0.00163	mg/Kg	☼	06/28/24 11:03	06/29/24 14:36	1
Xylenes, Total	<0.00235	U	0.00411	0.00235	mg/Kg	☼	06/28/24 11:03	06/29/24 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*06/28/24 11:03*	*06/29/24 14:36*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*06/28/24 11:03*	*06/29/24 14:36*	*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	<11.3	U	51.3	11.3	mg/Kg	☼	06/28/24 16:07	06/29/24 04:22	1
Diesel Range Organics (Over C10-C28)	**703**	**B**	51.3	15.4	mg/Kg	☼	06/28/24 16:07	06/29/24 04:22	1
Oil Range Organics (Over C28-C36)	<12.8	U	51.3	12.8	mg/Kg	☼	06/28/24 16:07	06/29/24 04:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*06/28/24 16:07*	*06/29/24 04:22*	*1*
o-Terphenyl	*89*		*70 - 130*	*06/28/24 16:07*	*06/29/24 04:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8310**		50.1	3.96	mg/Kg			07/02/24 08:59	10

Client Sample ID: CS 92
Lab Sample ID: 880-45368-73
Date Collected: 06/26/24 11:41
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00142	U	0.00204	0.00142	mg/Kg	☼	06/28/24 11:03	06/29/24 14:56	1
Toluene	<0.00204	U	0.00204	0.00204	mg/Kg	☼	06/28/24 11:03	06/29/24 14:56	1
Ethylbenzene	<0.00111	U	0.00204	0.00111	mg/Kg	☼	06/28/24 11:03	06/29/24 14:56	1
m-Xylene & p-Xylene	<0.00233	U	0.00408	0.00233	mg/Kg	☼	06/28/24 11:03	06/29/24 14:56	1
o-Xylene	<0.00162	U	0.00204	0.00162	mg/Kg	☼	06/28/24 11:03	06/29/24 14:56	1
Xylenes, Total	<0.00233	U	0.00408	0.00233	mg/Kg	☼	06/28/24 11:03	06/29/24 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*06/28/24 11:03*	*06/29/24 14:56*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*06/28/24 11:03*	*06/29/24 14:56*	*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	<11.3	U	51.4	11.3	mg/Kg	☼	06/28/24 16:07	06/29/24 04:54	1
Diesel Range Organics (Over C10-C28)	**1720**	**B**	51.4	15.4	mg/Kg	☼	06/28/24 16:07	06/29/24 04:54	1
Oil Range Organics (Over C28-C36)	<12.9	U	51.4	12.9	mg/Kg	☼	06/28/24 16:07	06/29/24 04:54	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 92
Lab Sample ID: 880-45368-73
Date Collected: 06/26/24 11:41
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130	06/28/24 16:07	06/29/24 04:54	1
o-Terphenyl	93		70 - 130	06/28/24 16:07	06/29/24 04:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5230**		50.4	3.98	mg/Kg			07/02/24 09:18	10

Client Sample ID: CS 93
Lab Sample ID: 880-45368-74
Date Collected: 06/26/24 11:43
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00203	0.00141	mg/Kg	☼	06/28/24 11:03	06/29/24 15:17	1
Toluene	<0.00203	U	0.00203	0.00203	mg/Kg	☼	06/28/24 11:03	06/29/24 15:17	1
Ethylbenzene	<0.00110	U	0.00203	0.00110	mg/Kg	☼	06/28/24 11:03	06/29/24 15:17	1
m-Xylene & p-Xylene	<0.00232	U	0.00405	0.00232	mg/Kg	☼	06/28/24 11:03	06/29/24 15:17	1
o-Xylene	<0.00161	U	0.00203	0.00161	mg/Kg	☼	06/28/24 11:03	06/29/24 15:17	1
Xylenes, Total	<0.00232	U	0.00405	0.00232	mg/Kg	☼	06/28/24 11:03	06/29/24 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	06/28/24 11:03	06/29/24 15:17	1
1,4-Difluorobenzene (Surr)	90		70 - 130	06/28/24 11:03	06/29/24 15:17	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	<11.3	U	51.6	11.3	mg/Kg	☼	06/28/24 16:07	06/29/24 05:09	1
Diesel Range Organics (Over C10-C28)	**328**	**B**	51.6	15.5	mg/Kg	☼	06/28/24 16:07	06/29/24 05:09	1
Oil Range Organics (Over C28-C36)	<12.9	U	51.6	12.9	mg/Kg	☼	06/28/24 16:07	06/29/24 05:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	06/28/24 16:07	06/29/24 05:09	1
o-Terphenyl	74		70 - 130	06/28/24 16:07	06/29/24 05:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1880**		25.3	1.99	mg/Kg			07/02/24 09:25	5

Client Sample ID: CS 94
Lab Sample ID: 880-45368-75
Date Collected: 06/26/24 11:45
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00143	U	0.00206	0.00143	mg/Kg	☼	06/28/24 11:03	06/29/24 15:37	1
Toluene	<0.00206	U	0.00206	0.00206	mg/Kg	☼	06/28/24 11:03	06/29/24 15:37	1
Ethylbenzene	<0.00112	U	0.00206	0.00112	mg/Kg	☼	06/28/24 11:03	06/29/24 15:37	1
m-Xylene & p-Xylene	<0.00235	U	0.00412	0.00235	mg/Kg	☼	06/28/24 11:03	06/29/24 15:37	1
o-Xylene	<0.00163	U	0.00206	0.00163	mg/Kg	☼	06/28/24 11:03	06/29/24 15:37	1
Xylenes, Total	<0.00235	U	0.00412	0.00235	mg/Kg	☼	06/28/24 11:03	06/29/24 15:37	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 94
Lab Sample ID: 880-45368-75
Date Collected: 06/26/24 11:45
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*06/28/24 11:03*	*06/29/24 15:37*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*06/28/24 11:03*	*06/29/24 15:37*	*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	<11.3	U	51.4	11.3	mg/Kg	☼	06/28/24 16:07	06/29/24 05:25	1
Diesel Range Organics (Over C10-C28)	**956**	**B**	51.4	15.4	mg/Kg	☼	06/28/24 16:07	06/29/24 05:25	1
Oil Range Organics (Over C28-C36)	<12.9	U	51.4	12.9	mg/Kg	☼	06/28/24 16:07	06/29/24 05:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*82*		*70 - 130*	*06/28/24 16:07*	*06/29/24 05:25*	*1*
o-Terphenyl	*84*		*70 - 130*	*06/28/24 16:07*	*06/29/24 05:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8320**		50.5	3.99	mg/Kg			07/02/24 09:32	10

Client Sample ID: CS 95
Lab Sample ID: 880-45368-76
Date Collected: 06/26/24 11:47
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00203	0.00141	mg/Kg	☼	06/28/24 11:03	06/29/24 15:58	1
Toluene	<0.00203	U	0.00203	0.00203	mg/Kg	☼	06/28/24 11:03	06/29/24 15:58	1
Ethylbenzene	<0.00111	U	0.00203	0.00111	mg/Kg	☼	06/28/24 11:03	06/29/24 15:58	1
m-Xylene & p-Xylene	<0.00232	U	0.00406	0.00232	mg/Kg	☼	06/28/24 11:03	06/29/24 15:58	1
o-Xylene	<0.00161	U	0.00203	0.00161	mg/Kg	☼	06/28/24 11:03	06/29/24 15:58	1
Xylenes, Total	<0.00232	U	0.00406	0.00232	mg/Kg	☼	06/28/24 11:03	06/29/24 15:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*06/28/24 11:03*	*06/29/24 15:58*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*06/28/24 11:03*	*06/29/24 15:58*	*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	<11.2	U	51.1	11.2	mg/Kg	☼	06/28/24 16:07	06/29/24 05:39	1
Diesel Range Organics (Over C10-C28)	**35.8**	**J B**	51.1	15.3	mg/Kg	☼	06/28/24 16:07	06/29/24 05:39	1
Oil Range Organics (Over C28-C36)	<12.8	U	51.1	12.8	mg/Kg	☼	06/28/24 16:07	06/29/24 05:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*90*		*70 - 130*	*06/28/24 16:07*	*06/29/24 05:39*	*1*
o-Terphenyl	*85*		*70 - 130*	*06/28/24 16:07*	*06/29/24 05:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1930**		25.1	1.98	mg/Kg			07/02/24 09:38	5

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 96
Lab Sample ID: 880-45368-77
Date Collected: 06/26/24 11:49
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00142	U	0.00204	0.00142	mg/Kg	☼	06/28/24 11:03	06/29/24 16:18	1
Toluene	<0.00204	U	0.00204	0.00204	mg/Kg	☼	06/28/24 11:03	06/29/24 16:18	1
Ethylbenzene	<0.00111	U	0.00204	0.00111	mg/Kg	☼	06/28/24 11:03	06/29/24 16:18	1
m-Xylene & p-Xylene	<0.00233	U	0.00409	0.00233	mg/Kg	☼	06/28/24 11:03	06/29/24 16:18	1
o-Xylene	<0.00162	U	0.00204	0.00162	mg/Kg	☼	06/28/24 11:03	06/29/24 16:18	1
Xylenes, Total	<0.00233	U	0.00409	0.00233	mg/Kg	☼	06/28/24 11:03	06/29/24 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*06/28/24 11:03*	*06/29/24 16:18*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*06/28/24 11:03*	*06/29/24 16:18*	*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	<11.1	U	50.6	11.1	mg/Kg	☼	06/28/24 16:07	06/29/24 05:55	1
Diesel Range Organics (Over C10-C28)	<15.2	U	50.6	15.2	mg/Kg	☼	06/28/24 16:07	06/29/24 05:55	1
Oil Range Organics (Over C28-C36)	<12.7	U	50.6	12.7	mg/Kg	☼	06/28/24 16:07	06/29/24 05:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*06/28/24 16:07*	*06/29/24 05:55*	*1*
o-Terphenyl	*80*		*70 - 130*	*06/28/24 16:07*	*06/29/24 05:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**603**		4.99	0.394	mg/Kg			07/02/24 09:45	1

Client Sample ID: CS 97
Lab Sample ID: 880-45368-78
Date Collected: 06/26/24 11:51
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00143	U	0.00206	0.00143	mg/Kg	☼	06/28/24 11:03	06/29/24 16:39	1
Toluene	<0.00206	U	0.00206	0.00206	mg/Kg	☼	06/28/24 11:03	06/29/24 16:39	1
Ethylbenzene	<0.00112	U	0.00206	0.00112	mg/Kg	☼	06/28/24 11:03	06/29/24 16:39	1
m-Xylene & p-Xylene	<0.00235	U	0.00412	0.00235	mg/Kg	☼	06/28/24 11:03	06/29/24 16:39	1
o-Xylene	<0.00163	U	0.00206	0.00163	mg/Kg	☼	06/28/24 11:03	06/29/24 16:39	1
Xylenes, Total	<0.00235	U	0.00412	0.00235	mg/Kg	☼	06/28/24 11:03	06/29/24 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*06/28/24 11:03*	*06/29/24 16:39*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*06/28/24 11:03*	*06/29/24 16:39*	*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	<11.3	U	51.4	11.3	mg/Kg	☼	06/28/24 16:07	06/29/24 06:10	1
Diesel Range Organics (Over C10-C28)	<15.4	U	51.4	15.4	mg/Kg	☼	06/28/24 16:07	06/29/24 06:10	1
Oil Range Organics (Over C28-C36)	<12.9	U	51.4	12.9	mg/Kg	☼	06/28/24 16:07	06/29/24 06:10	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 97
Lab Sample ID: 880-45368-78
Date Collected: 06/26/24 11:51
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	06/28/24 16:07	06/29/24 06:10	1
o-Terphenyl	79		70 - 130	06/28/24 16:07	06/29/24 06:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1890		25.2	1.99	mg/Kg			07/02/24 09:52	5

Client Sample ID: CS 101
Lab Sample ID: 880-45368-79
Date Collected: 06/26/24 13:18
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 96.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00144	U	0.00207	0.00144	mg/Kg	☼	06/28/24 11:03	06/29/24 16:59	1
Toluene	<0.00207	U	0.00207	0.00207	mg/Kg	☼	06/28/24 11:03	06/29/24 16:59	1
Ethylbenzene	<0.00113	U	0.00207	0.00113	mg/Kg	☼	06/28/24 11:03	06/29/24 16:59	1
m-Xylene & p-Xylene	<0.00237	U	0.00415	0.00237	mg/Kg	☼	06/28/24 11:03	06/29/24 16:59	1
o-Xylene	<0.00164	U	0.00207	0.00164	mg/Kg	☼	06/28/24 11:03	06/29/24 16:59	1
Xylenes, Total	<0.00237	U	0.00415	0.00237	mg/Kg	☼	06/28/24 11:03	06/29/24 16:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	06/28/24 11:03	06/29/24 16:59	1
1,4-Difluorobenzene (Surr)	90		70 - 130	06/28/24 11:03	06/29/24 16:59	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	<11.4	U	51.9	11.4	mg/Kg	☼	06/28/24 16:07	06/29/24 06:25	1
Diesel Range Organics (Over C10-C28)	<15.6	U	51.9	15.6	mg/Kg	☼	06/28/24 16:07	06/29/24 06:25	1
Oil Range Organics (Over C28-C36)	<13.0	U	51.9	13.0	mg/Kg	☼	06/28/24 16:07	06/29/24 06:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	06/28/24 16:07	06/29/24 06:25	1
o-Terphenyl	83		70 - 130	06/28/24 16:07	06/29/24 06:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5740		50.3	3.97	mg/Kg			07/02/24 00:34	10

Client Sample ID: CS 102
Lab Sample ID: 880-45368-80
Date Collected: 06/26/24 13:20
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00143	U	0.00205	0.00143	mg/Kg	☼	06/28/24 11:03	06/29/24 17:20	1
Toluene	<0.00205	U	0.00205	0.00205	mg/Kg	☼	06/28/24 11:03	06/29/24 17:20	1
Ethylbenzene	<0.00112	U	0.00205	0.00112	mg/Kg	☼	06/28/24 11:03	06/29/24 17:20	1
m-Xylene & p-Xylene	<0.00234	U	0.00410	0.00234	mg/Kg	☼	06/28/24 11:03	06/29/24 17:20	1
o-Xylene	<0.00162	U	0.00205	0.00162	mg/Kg	☼	06/28/24 11:03	06/29/24 17:20	1
Xylenes, Total	<0.00234	U	0.00410	0.00234	mg/Kg	☼	06/28/24 11:03	06/29/24 17:20	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 102
Lab Sample ID: 880-45368-80
Date Collected: 06/26/24 13:20
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*06/28/24 11:03*	*06/29/24 17:20*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*06/28/24 11:03*	*06/29/24 17:20*	*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	<11.2	U	51.1	11.2	mg/Kg	☼	06/28/24 16:07	06/29/24 06:40	1
Diesel Range Organics (Over C10-C28)	<15.3	U	51.1	15.3	mg/Kg	☼	06/28/24 16:07	06/29/24 06:40	1
Oil Range Organics (Over C28-C36)	<12.8	U	51.1	12.8	mg/Kg	☼	06/28/24 16:07	06/29/24 06:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*81*		*70 - 130*	*06/28/24 16:07*	*06/29/24 06:40*	*1*
o-Terphenyl	*75*		*70 - 130*	*06/28/24 16:07*	*06/29/24 06:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4430**		25.2	1.99	mg/Kg			07/02/24 00:54	5

Client Sample ID: CS 103
Lab Sample ID: 880-45368-81
Date Collected: 06/26/24 13:22
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00202	0.00141	mg/Kg	☼	06/30/24 18:35	07/01/24 04:00	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg	☼	06/30/24 18:35	07/01/24 04:00	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg	☼	06/30/24 18:35	07/01/24 04:00	1
m-Xylene & p-Xylene	<0.00231	U	0.00405	0.00231	mg/Kg	☼	06/30/24 18:35	07/01/24 04:00	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg	☼	06/30/24 18:35	07/01/24 04:00	1
Xylenes, Total	<0.00231	U	0.00405	0.00231	mg/Kg	☼	06/30/24 18:35	07/01/24 04:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*06/30/24 18:35*	*07/01/24 04:00*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*06/30/24 18:35*	*07/01/24 04:00*	*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	<11.3	U	51.4	11.3	mg/Kg	☼	06/28/24 16:07	06/29/24 06:55	1
Diesel Range Organics (Over C10-C28)	<15.4	U	51.4	15.4	mg/Kg	☼	06/28/24 16:07	06/29/24 06:55	1
Oil Range Organics (Over C28-C36)	<12.9	U	51.4	12.9	mg/Kg	☼	06/28/24 16:07	06/29/24 06:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*85*		*70 - 130*	*06/28/24 16:07*	*06/29/24 06:55*	*1*
o-Terphenyl	*78*		*70 - 130*	*06/28/24 16:07*	*06/29/24 06:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1990**		25.2	1.99	mg/Kg			07/02/24 01:01	5

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 104
Lab Sample ID: 880-45368-82
Date Collected: 06/26/24 13:24
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00142	U	0.00204	0.00142	mg/Kg	☼	06/30/24 18:35	07/01/24 04:21	1
Toluene	<0.00204	U	0.00204	0.00204	mg/Kg	☼	06/30/24 18:35	07/01/24 04:21	1
Ethylbenzene	<0.00111	U	0.00204	0.00111	mg/Kg	☼	06/30/24 18:35	07/01/24 04:21	1
m-Xylene & p-Xylene	<0.00233	U	0.00408	0.00233	mg/Kg	☼	06/30/24 18:35	07/01/24 04:21	1
o-Xylene	<0.00162	U	0.00204	0.00162	mg/Kg	☼	06/30/24 18:35	07/01/24 04:21	1
Xylenes, Total	<0.00233	U	0.00408	0.00233	mg/Kg	☼	06/30/24 18:35	07/01/24 04:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*06/30/24 18:35*	*07/01/24 04:21*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*06/30/24 18:35*	*07/01/24 04:21*	*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	<11.3	U	51.4	11.3	mg/Kg	☼	06/28/24 16:07	06/29/24 07:10	1
Diesel Range Organics (Over C10-C28)	**19.7**	**J B**	51.4	15.4	mg/Kg	☼	06/28/24 16:07	06/29/24 07:10	1
Oil Range Organics (Over C28-C36)	<12.9	U	51.4	12.9	mg/Kg	☼	06/28/24 16:07	06/29/24 07:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*06/28/24 16:07*	*06/29/24 07:10*	*1*
o-Terphenyl	*81*		*70 - 130*	*06/28/24 16:07*	*06/29/24 07:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2180**		24.9	1.97	mg/Kg			07/02/24 01:08	5

Client Sample ID: CS 105
Lab Sample ID: 880-45368-83
Date Collected: 06/26/24 13:26
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00142	U	0.00204	0.00142	mg/Kg	☼	06/30/24 18:35	07/01/24 04:41	1
Toluene	<0.00204	U	0.00204	0.00204	mg/Kg	☼	06/30/24 18:35	07/01/24 04:41	1
Ethylbenzene	<0.00111	U	0.00204	0.00111	mg/Kg	☼	06/30/24 18:35	07/01/24 04:41	1
m-Xylene & p-Xylene	<0.00234	U	0.00409	0.00234	mg/Kg	☼	06/30/24 18:35	07/01/24 04:41	1
o-Xylene	<0.00162	U	0.00204	0.00162	mg/Kg	☼	06/30/24 18:35	07/01/24 04:41	1
Xylenes, Total	<0.00234	U	0.00409	0.00234	mg/Kg	☼	06/30/24 18:35	07/01/24 04:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*06/30/24 18:35*	*07/01/24 04:41*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*06/30/24 18:35*	*07/01/24 04:41*	*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	**48.9**	**J B**	50.7	11.1	mg/Kg	☼	06/28/24 16:24	07/01/24 11:44	1
Diesel Range Organics (Over C10-C28)	**75.3**	**F1**	50.7	15.2	mg/Kg	☼	06/28/24 16:24	07/01/24 11:44	1
Oil Range Organics (Over C28-C36)	<12.7	U	50.7	12.7	mg/Kg	☼	06/28/24 16:24	07/01/24 11:44	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 105
Lab Sample ID: 880-45368-83
Date Collected: 06/26/24 13:26
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130	06/28/24 16:24	07/01/24 11:44	1
o-Terphenyl	162	S1+	70 - 130	06/28/24 16:24	07/01/24 11:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1870		24.9	1.96	mg/Kg			07/02/24 01:14	5

Client Sample ID: CS 106
Lab Sample ID: 880-45368-84
Date Collected: 06/26/24 13:28
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 99.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00202	0.00141	mg/Kg	☼	06/30/24 18:35	07/01/24 05:02	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg	☼	06/30/24 18:35	07/01/24 05:02	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg	☼	06/30/24 18:35	07/01/24 05:02	1
m-Xylene & p-Xylene	<0.00231	U	0.00405	0.00231	mg/Kg	☼	06/30/24 18:35	07/01/24 05:02	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg	☼	06/30/24 18:35	07/01/24 05:02	1
Xylenes, Total	<0.00231	U	0.00405	0.00231	mg/Kg	☼	06/30/24 18:35	07/01/24 05:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	06/30/24 18:35	07/01/24 05:02	1
1,4-Difluorobenzene (Surr)	91		70 - 130	06/30/24 18:35	07/01/24 05:02	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	36.2	J B	50.1	11.0	mg/Kg	☼	06/28/24 16:08	06/29/24 16:04	1
Diesel Range Organics (Over C10-C28)	164		50.1	15.0	mg/Kg	☼	06/28/24 16:08	06/29/24 16:04	1
Oil Range Organics (Over C28-C36)	<12.6	U	50.1	12.6	mg/Kg	☼	06/28/24 16:08	06/29/24 16:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130	06/28/24 16:08	06/29/24 16:04	1
o-Terphenyl	143	S1+	70 - 130	06/28/24 16:08	06/29/24 16:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1880		25.1	1.98	mg/Kg			07/02/24 01:34	5

Client Sample ID: CS 107
Lab Sample ID: 880-45368-85
Date Collected: 06/25/24 13:30
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 99.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg	☼	06/28/24 13:00	06/29/24 15:37	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg	☼	06/28/24 13:00	06/29/24 15:37	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg	☼	06/28/24 13:00	06/29/24 15:37	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg	☼	06/28/24 13:00	06/29/24 15:37	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg	☼	06/28/24 13:00	06/29/24 15:37	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg	☼	06/28/24 13:00	06/29/24 15:37	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

Client Sample ID: CS 107

Lab Sample ID: 880-45368-85
Date Collected: 06/25/24 13:30
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 99.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*06/28/24 13:00*	*06/29/24 15:37*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/28/24 13:00*	*06/29/24 15:37*	*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	**34.2**	**J B**	50.2	11.0	mg/Kg	☼	06/28/24 16:08	06/29/24 16:24	1
Diesel Range Organics (Over C10-C28)	**102**		50.2	15.1	mg/Kg	☼	06/28/24 16:08	06/29/24 16:24	1
Oil Range Organics (Over C28-C36)	<12.6	U	50.2	12.6	mg/Kg	☼	06/28/24 16:08	06/29/24 16:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*119*		*70 - 130*	*06/28/24 16:08*	*06/29/24 16:24*	*1*
o-Terphenyl	*124*		*70 - 130*	*06/28/24 16:08*	*06/29/24 16:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**791**		5.03	0.397	mg/Kg			07/02/24 01:41	1

Client Sample ID: CS 113

Lab Sample ID: 880-45368-87
Date Collected: 06/25/24 13:34
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 94.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00146	U	0.00210	0.00146	mg/Kg	☼	06/28/24 13:00	06/29/24 15:57	1
Toluene	<0.00210	U	0.00210	0.00210	mg/Kg	☼	06/28/24 13:00	06/29/24 15:57	1
Ethylbenzene	<0.00114	U	0.00210	0.00114	mg/Kg	☼	06/28/24 13:00	06/29/24 15:57	1
m-Xylene & p-Xylene	<0.00240	U	0.00420	0.00240	mg/Kg	☼	06/28/24 13:00	06/29/24 15:57	1
o-Xylene	<0.00166	U	0.00210	0.00166	mg/Kg	☼	06/28/24 13:00	06/29/24 15:57	1
Xylenes, Total	<0.00240	U	0.00420	0.00240	mg/Kg	☼	06/28/24 13:00	06/29/24 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*06/28/24 13:00*	*06/29/24 15:57*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/28/24 13:00*	*06/29/24 15:57*	*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	**38.7**	**J B**	52.7	11.6	mg/Kg	☼	06/28/24 16:08	06/29/24 16:43	1
Diesel Range Organics (Over C10-C28)	**76.3**		52.7	15.8	mg/Kg	☼	06/28/24 16:08	06/29/24 16:43	1
Oil Range Organics (Over C28-C36)	<13.2	U	52.7	13.2	mg/Kg	☼	06/28/24 16:08	06/29/24 16:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*289*	*S1+*	*70 - 130*	*06/28/24 16:08*	*06/29/24 16:43*	*1*
o-Terphenyl	*332*	*S1+*	*70 - 130*	*06/28/24 16:08*	*06/29/24 16:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1990**		24.9	1.97	mg/Kg			07/02/24 01:47	5

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 114
Lab Sample ID: 880-45368-88
Date Collected: 06/25/24 13:36
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00142	U	0.00204	0.00142	mg/Kg	☼	06/28/24 13:00	06/29/24 16:18	1
Toluene	<0.00204	U	0.00204	0.00204	mg/Kg	☼	06/28/24 13:00	06/29/24 16:18	1
Ethylbenzene	<0.00111	U	0.00204	0.00111	mg/Kg	☼	06/28/24 13:00	06/29/24 16:18	1
m-Xylene & p-Xylene	<0.00234	U	0.00409	0.00234	mg/Kg	☼	06/28/24 13:00	06/29/24 16:18	1
o-Xylene	<0.00162	U	0.00204	0.00162	mg/Kg	☼	06/28/24 13:00	06/29/24 16:18	1
Xylenes, Total	<0.00234	U	0.00409	0.00234	mg/Kg	☼	06/28/24 13:00	06/29/24 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*06/28/24 13:00*	*06/29/24 16:18*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*06/28/24 13:00*	*06/29/24 16:18*	*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	**36.5**	**J B**	50.9	11.2	mg/Kg	☼	06/28/24 16:08	06/29/24 17:03	1
Diesel Range Organics (Over C10-C28)	**65.6**		50.9	15.3	mg/Kg	☼	06/28/24 16:08	06/29/24 17:03	1
Oil Range Organics (Over C28-C36)	<12.7	U	50.9	12.7	mg/Kg	☼	06/28/24 16:08	06/29/24 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*145*	*S1+*	*70 - 130*	*06/28/24 16:08*	*06/29/24 17:03*	*1*
o-Terphenyl	*157*	*S1+*	*70 - 130*	*06/28/24 16:08*	*06/29/24 17:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1460**		24.9	1.96	mg/Kg			07/02/24 01:54	5

Client Sample ID: CS 115
Lab Sample ID: 880-45368-89
Date Collected: 06/25/24 13:38
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 95.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00147	U	0.00211	0.00147	mg/Kg	☼	06/28/24 13:00	06/29/24 16:38	1
Toluene	<0.00211	U	0.00211	0.00211	mg/Kg	☼	06/28/24 13:00	06/29/24 16:38	1
Ethylbenzene	<0.00115	U	0.00211	0.00115	mg/Kg	☼	06/28/24 13:00	06/29/24 16:38	1
m-Xylene & p-Xylene	<0.00241	U	0.00422	0.00241	mg/Kg	☼	06/28/24 13:00	06/29/24 16:38	1
o-Xylene	<0.00167	U	0.00211	0.00167	mg/Kg	☼	06/28/24 13:00	06/29/24 16:38	1
Xylenes, Total	<0.00241	U	0.00422	0.00241	mg/Kg	☼	06/28/24 13:00	06/29/24 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*06/28/24 13:00*	*06/29/24 16:38*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/28/24 13:00*	*06/29/24 16:38*	*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	**34.8**	**J**	52.3	11.5	mg/Kg	☼	06/28/24 08:19	06/29/24 17:15	1
Diesel Range Organics (Over C10-C28)	**17.5**	**J**	52.3	15.7	mg/Kg	☼	06/28/24 08:19	06/29/24 17:15	1
Oil Range Organics (Over C28-C36)	<13.1	U	52.3	13.1	mg/Kg	☼	06/28/24 08:19	06/29/24 17:15	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 115
Lab Sample ID: 880-45368-89
Date Collected: 06/25/24 13:38
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 95.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*06/28/24 08:19*	*06/29/24 17:15*	*1*
o-Terphenyl	*113*		*70 - 130*	*06/28/24 08:19*	*06/29/24 17:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**963**		5.03	0.397	mg/Kg			07/02/24 02:01	1

Client Sample ID: CS 116
Lab Sample ID: 880-45368-90
Date Collected: 06/25/24 13:40
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00143	U	0.00205	0.00143	mg/Kg	☼	06/28/24 13:00	06/29/24 16:59	1
Toluene	<0.00205	U	0.00205	0.00205	mg/Kg	☼	06/28/24 13:00	06/29/24 16:59	1
Ethylbenzene	<0.00112	U	0.00205	0.00112	mg/Kg	☼	06/28/24 13:00	06/29/24 16:59	1
m-Xylene & p-Xylene	<0.00235	U	0.00411	0.00235	mg/Kg	☼	06/28/24 13:00	06/29/24 16:59	1
o-Xylene	<0.00163	U	0.00205	0.00163	mg/Kg	☼	06/28/24 13:00	06/29/24 16:59	1
Xylenes, Total	<0.00235	U	0.00411	0.00235	mg/Kg	☼	06/28/24 13:00	06/29/24 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*06/28/24 13:00*	*06/29/24 16:59*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*06/28/24 13:00*	*06/29/24 16:59*	*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	**26.2**	**J**	51.0	11.2	mg/Kg	☼	06/28/24 08:19	06/29/24 17:35	1
Diesel Range Organics (Over C10-C28)	**16.7**	**J**	51.0	15.3	mg/Kg	☼	06/28/24 08:19	06/29/24 17:35	1
Oil Range Organics (Over C28-C36)	<12.8	U	51.0	12.8	mg/Kg	☼	06/28/24 08:19	06/29/24 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*06/28/24 08:19*	*06/29/24 17:35*	*1*
o-Terphenyl	*125*		*70 - 130*	*06/28/24 08:19*	*06/29/24 17:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1880**		25.0	1.97	mg/Kg			07/02/24 02:07	5

Surrogate Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

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)										
880-45368-1	CS 117	110	100										
880-45368-1 MS	CS 117	99	104										
880-45368-1 MSD	CS 117	108	116										
880-45368-2	CS 7	117	108										
880-45368-3	CS 8	114	90										
880-45368-4	CS 112	119	87										
880-45368-5	CS 118	131 S1+	114										
880-45368-6	CS 15	117	100										
880-45368-7	CS 16	116	99										
880-45368-8	CS 17	117	100										
880-45368-9	CS 18	119	88										
880-45368-10	CS 19	137 S1+	100										
880-45368-11	CS 20	105	94										
880-45368-12	CS 25	126	105										
880-45368-13	CS 26	113	89										
880-45368-14	CS 27	109	108										
880-45368-15	CS 28	121	96										
880-45368-16	CS 29	116	93										
880-45368-17	CS 30	131 S1+	112										
880-45368-18	CS 31	118	90										
880-45368-19	CS 32	120	101										
880-45368-20	CS 35	122	105										
880-45368-21	CS 36	98	105										
880-45368-21 MS	CS 36	108	103										
880-45368-21 MSD	CS 36	118	99										
880-45368-22	CS 37	127	112										
880-45368-23	CS 38	126	113										
880-45368-24	CS 39	122	113										
880-45368-25	CS 40	128	113										
880-45368-26	CS 41	127	106										
880-45368-27	CS 42	120	111										
880-45368-28	CS 43	452 S1+	122										
880-45368-29	CS 45	125	113										
880-45368-30	CS 46	123	113										
880-45368-31	CS 47	98	107										
880-45368-32	CS 48	125	112										
880-45368-33	CS 49	123	112										
880-45368-34	CS 50	133 S1+	113										
880-45368-35	CS 51	116	113										
880-45368-36	CS 52	141 S1+	116										
880-45368-37	CS 53	132 S1+	115										
880-45368-38	CS 54	129	118										
880-45368-39	CS 55	139 S1+	114										
880-45368-40	CS 57	125	110										
880-45368-41	CS 58	107	106										
880-45368-41 MS	CS 58	124	103										
880-45368-41 MSD	CS 58	126	106										
880-45368-43	CS 60	117	105										
880-45368-44	CS 61	129	110										

Surrogate Summary

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

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)
880-45368-45	CS 62	130	109
880-45368-46	CS 63	125	110
880-45368-47	CS 64	130	113
880-45368-48	CS 65	125	110
880-45368-49	CS 66	136 S1+	107
880-45368-50	CS 67	134 S1+	107
880-45368-51	CS 68	122	106
880-45368-52	CS 69	104	111
880-45368-53	CS 70	116	107
880-45368-54	CS 71	120	105
880-45368-55	CS 72	131 S1+	108
880-45368-56	CS 73	120	107
880-45368-57	CS 74	136 S1+	108
880-45368-58	CS 75	123	105
880-45368-59	CS 76	133 S1+	118
880-45368-60	CS 89	124	103
880-45368-61	CS 79	107	91
880-45368-61 MS	CS 79	102	91
880-45368-61 MSD	CS 79	104	92
880-45368-62	CS 80	108	90
880-45368-63	CS 81	107	90
880-45368-64	CS 82	108	90
880-45368-65	CS 83	105	89
880-45368-66	CS 84	102	90
880-45368-67	CS 85	107	89
880-45368-68	CS 86	106	89
880-45368-69	CS 87	107	89
880-45368-70	CS 88	108	90
880-45368-71	CS 90	106	90
880-45368-72	CS 91	107	91
880-45368-73	CS 92	106	90
880-45368-74	CS 93	107	90
880-45368-75	CS 94	106	91
880-45368-76	CS 95	107	90
880-45368-77	CS 96	108	90
880-45368-78	CS 97	109	90
880-45368-79	CS 101	109	90
880-45368-80	CS 102	111	90
880-45368-81	CS 103	108	90
880-45368-82	CS 104	109	91
880-45368-83	CS 105	108	89
880-45368-84	CS 106	109	91
880-45368-85	CS 107	105	99
880-45368-87	CS 113	103	100
880-45368-88	CS 114	102	102
880-45368-89	CS 115	102	100
880-45368-90	CS 116	102	101
LCS 880-84483/1-A	Lab Control Sample	106	94
LCS 880-84485/1-A	Lab Control Sample	118	102
LCS 880-84486/1-A	Lab Control Sample	119	103

Surrogate Summary

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

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 880-84488/1-A	Lab Control Sample	101	92
LCS 880-84495/1-A	Lab Control Sample	97	99
LCS 880-84640/1-A	Lab Control Sample	105	91
LCS 880-84945/1-A	Lab Control Sample	111	111
LCSD 880-84483/2-A	Lab Control Sample Dup	114	114
LCSD 880-84485/2-A	Lab Control Sample Dup	107	103
LCSD 880-84486/2-A	Lab Control Sample Dup	119	98
LCSD 880-84488/2-A	Lab Control Sample Dup	101	92
LCSD 880-84495/2-A	Lab Control Sample Dup	99	99
LCSD 880-84640/2-A	Lab Control Sample Dup	103	93
LCSD 880-84945/2-A	Lab Control Sample Dup	115	97
MB 880-84417/5-A	Method Blank	183 S1+	122
MB 880-84467/5-A	Method Blank	103	85
MB 880-84483/5-A	Method Blank	70	100
MB 880-84485/5-A	Method Blank	195 S1+	131 S1+
MB 880-84486/5-A	Method Blank	192 S1+	125
MB 880-84488/5-A	Method Blank	105	85
MB 880-84494/5-A	Method Blank	99	97
MB 880-84495/5-A	Method Blank	103	98
MB 880-84640/5-A	Method Blank	103	88
MB 880-84945/5-A	Method Blank	224 S1+	144 S1+

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)
880-45368-1	CS 117	103	103
880-45368-1 MS	CS 117	78	71
880-45368-1 MSD	CS 117	80	74
880-45368-2	CS 7	92	93
880-45368-3	CS 8	94	94
880-45368-4	CS 112	87	89
880-45368-5	CS 118	100	96
880-45368-6	CS 15	92	91
880-45368-7	CS 16	95	95
880-45368-8	CS 17	84	81
880-45368-9	CS 18	85	82
880-45368-10	CS 19	92	100
880-45368-11	CS 20	99	102
880-45368-12	CS 25	89	85
880-45368-13	CS 26	85	86
880-45368-14	CS 27	108	108
880-45368-15	CS 28	86	86
880-45368-16	CS 29	95	90
880-45368-17	CS 30	89	85

Surrogate Summary

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

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

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

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
880-45368-18	CS 31	97	92								
880-45368-19	CS 32	92	92								
880-45368-20	CS 35	109	110								
880-45368-21	CS 36	83	77								
880-45368-21 MS	CS 36	98	82								
880-45368-21 MSD	CS 36	97	82								
880-45368-22	CS 37	78	75								
880-45368-23	CS 38	73	69 S1-								
880-45368-24	CS 39	78	70								
880-45368-25	CS 40	76	68 S1-								
880-45368-26	CS 41	73	66 S1-								
880-45368-27	CS 42	75	66 S1-								
880-45368-28	CS 43	85	79								
880-45368-29	CS 45	75	72								
880-45368-30	CS 46	77	73								
880-45368-31	CS 47	73	71								
880-45368-32	CS 48	80	74								
880-45368-33	CS 49	73	78								
880-45368-34	CS 50	76	80								
880-45368-35	CS 51	78	71								
880-45368-36	CS 52	81	77								
880-45368-37	CS 53	79	72								
880-45368-38	CS 54	80	74								
880-45368-39	CS 55	76	71								
880-45368-40	CS 57	71	68 S1-								
880-45368-41	CS 58	81	85								
880-45368-41 MS	CS 58	78	75								
880-45368-41 MSD	CS 58	84	83								
880-45368-43	CS 60	90	100								
880-45368-44	CS 61	86	91								
880-45368-45	CS 62	86	91								
880-45368-46	CS 63	109	110								
880-45368-47	CS 64	93	96								
880-45368-48	CS 65	88	98								
880-45368-49	CS 66	104	115								
880-45368-50	CS 67	107	115								
880-45368-51	CS 68	102	114								
880-45368-52	CS 69	95	97								
880-45368-53	CS 70	9 S1-	13 S1-								
880-45368-54	CS 71	92	95								
880-45368-55	CS 72	98	104								
880-45368-56	CS 73	83	85								
880-45368-57	CS 74	89	97								
880-45368-58	CS 75	78	83								
880-45368-59	CS 76	109	115								
880-45368-60	CS 89	12 S1-	14 S1-								
880-45368-61	CS 79	94	101								
880-45368-62	CS 80	94	100								
880-45368-63	CS 81	87	84								
880-45368-63 MS	CS 81	91	81								

Surrogate Summary

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

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)								
880-45368-63 MSD	CS 81	91	82								
880-45368-64	CS 82	88	84								
880-45368-65	CS 83	92	84								
880-45368-66	CS 84	110	98								
880-45368-67	CS 85	86	80								
880-45368-68	CS 86	85	81								
880-45368-69	CS 87	85	78								
880-45368-70	CS 88	84	79								
880-45368-71	CS 90	89	82								
880-45368-72	CS 91	87	89								
880-45368-73	CS 92	78	93								
880-45368-74	CS 93	81	74								
880-45368-75	CS 94	82	84								
880-45368-76	CS 95	90	85								
880-45368-77	CS 96	85	80								
880-45368-78	CS 97	84	79								
880-45368-79	CS 101	85	83								
880-45368-80	CS 102	81	75								
880-45368-81	CS 103	85	78								
880-45368-82	CS 104	88	81								
880-45368-83	CS 105	132 S1+	162 S1+								
880-45368-83 MS	CS 105	141 S1+	151 S1+								
880-45368-83 MSD	CS 105	136 S1+	143 S1+								
880-45368-84	CS 106	133 S1+	143 S1+								
880-45368-85	CS 107	119	124								
880-45368-87	CS 113	289 S1+	332 S1+								
880-45368-88	CS 114	145 S1+	157 S1+								
880-45368-89	CS 115	101	113								
880-45368-90	CS 116	116	125								
LCS 880-84446/2-A	Lab Control Sample	81	83								
LCS 880-84526/2-A	Lab Control Sample	123	116								
LCS 880-84541/2-A	Lab Control Sample	120	110								
LCS 880-84544/2-A	Lab Control Sample	91	95								
LCS 880-84584/2-A	Lab Control Sample	105	96								
LCS 880-84585/2-A	Lab Control Sample	108	115								
LCS 880-84594/2-A	Lab Control Sample	144 S1+	157 S1+								
LCS 880-84810/2-A	Lab Control Sample	89	90								
LCSD 880-84446/3-A	Lab Control Sample Dup	97	99								
LCSD 880-84526/3-A	Lab Control Sample Dup	115	108								
LCSD 880-84541/3-A	Lab Control Sample Dup	119	106								
LCSD 880-84544/3-A	Lab Control Sample Dup	85	88								
LCSD 880-84584/3-A	Lab Control Sample Dup	105	97								
LCSD 880-84585/3-A	Lab Control Sample Dup	98	104								
LCSD 880-84594/3-A	Lab Control Sample Dup	117	126								
LCSD 880-84810/3-A	Lab Control Sample Dup	104	108								
MB 880-84446/1-A	Method Blank	139 S1+	152 S1+								
MB 880-84526/1-A	Method Blank	76	82								
MB 880-84541/1-A	Method Blank	91	88								
MB 880-84544/1-A	Method Blank	79	92								
MB 880-84584/1-A	Method Blank	176 S1+	171 S1+								

Surrogate Summary

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

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

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

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
MB 880-84585/1-A	Method Blank	217 S1+	247 S1+								
MB 880-84594/1-A	Method Blank	214 S1+	266 S1+								
MB 880-84810/1-A	Method Blank	160 S1+	173 S1+								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-84417/5-A
Matrix: Solid
Analysis Batch: 84450

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 84417

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		06/27/24 16:53	06/28/24 11:41	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		06/27/24 16:53	06/28/24 11:41	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		06/27/24 16:53	06/28/24 11:41	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		06/27/24 16:53	06/28/24 11:41	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		06/27/24 16:53	06/28/24 11:41	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		06/27/24 16:53	06/28/24 11:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*183*	*S1+*	*70 - 130*	*06/27/24 16:53*	*06/28/24 11:41*	*1*
1,4-Difluorobenzene (Surr)	*122*		*70 - 130*	*06/27/24 16:53*	*06/28/24 11:41*	*1*

Lab Sample ID: MB 880-84467/5-A
Matrix: Solid
Analysis Batch: 84448

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 84467

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		06/28/24 10:07	06/28/24 22:20	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		06/28/24 10:07	06/28/24 22:20	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		06/28/24 10:07	06/28/24 22:20	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		06/28/24 10:07	06/28/24 22:20	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		06/28/24 10:07	06/28/24 22:20	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		06/28/24 10:07	06/28/24 22:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*06/28/24 10:07*	*06/28/24 22:20*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*06/28/24 10:07*	*06/28/24 22:20*	*1*

Lab Sample ID: MB 880-84483/5-A
Matrix: Solid
Analysis Batch: 84630

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 84483

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		06/28/24 10:58	06/29/24 17:39	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		06/28/24 10:58	06/29/24 17:39	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		06/28/24 10:58	06/29/24 17:39	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		06/28/24 10:58	06/29/24 17:39	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		06/28/24 10:58	06/29/24 17:39	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		06/28/24 10:58	06/29/24 17:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*70*		*70 - 130*	*06/28/24 10:58*	*06/29/24 17:39*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/28/24 10:58*	*06/29/24 17:39*	*1*

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

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

Lab Sample ID: LCS 880-84483/1-A
Matrix: Solid
Analysis Batch: 84630

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 84483

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1112		mg/Kg		111	70 - 130		
Toluene			0.100	0.09839		mg/Kg		98	70 - 130		
Ethylbenzene			0.100	0.09682		mg/Kg		97	70 - 130		
m-Xylene & p-Xylene			0.200	0.1965		mg/Kg		98	70 - 130		
o-Xylene			0.100	0.1008		mg/Kg		101	70 - 130		

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

Lab Sample ID: LCSD 880-84483/2-A
Matrix: Solid
Analysis Batch: 84630

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 84483

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1268		mg/Kg		127	70 - 130	13	35
Toluene			0.100	0.1080		mg/Kg		108	70 - 130	9	35
Ethylbenzene			0.100	0.1067		mg/Kg		107	70 - 130	10	35
m-Xylene & p-Xylene			0.200	0.2165		mg/Kg		108	70 - 130	10	35
o-Xylene			0.100	0.1092		mg/Kg		109	70 - 130	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*

Lab Sample ID: 880-45368-1 MS
Matrix: Solid
Analysis Batch: 84630

Client Sample ID: CS 117
Prep Type: Total/NA
Prep Batch: 84483

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00142	U	0.102	0.1053		mg/Kg	☼	103	70 - 130		
Toluene	<0.00203	U	0.102	0.08919		mg/Kg	☼	88	70 - 130		
Ethylbenzene	<0.00111	U	0.102	0.08440		mg/Kg	☼	83	70 - 130		
m-Xylene & p-Xylene	<0.00233	U	0.204	0.1724		mg/Kg	☼	85	70 - 130		
o-Xylene	<0.00161	U	0.102	0.09099		mg/Kg	☼	89	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 880-45368-1 MSD
Matrix: Solid
Analysis Batch: 84630

Client Sample ID: CS 117
Prep Type: Total/NA
Prep Batch: 84483

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00142	U	0.103	0.1336		mg/Kg	☼	130	70 - 130	24	35
Toluene	<0.00203	U	0.103	0.09894		mg/Kg	☼	96	70 - 130	10	35
Ethylbenzene	<0.00111	U	0.103	0.09309		mg/Kg	☼	90	70 - 130	10	35

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

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

Lab Sample ID: 880-45368-1 MSD
Matrix: Solid
Analysis Batch: 84630

Client Sample ID: CS 117
Prep Type: Total/NA
Prep Batch: 84483

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00233	U	0.206	0.1881		mg/Kg	☼	91	70 - 130	9	35
o-Xylene	<0.00161	U	0.103	0.09884		mg/Kg	☼	96	70 - 130	8	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*

Lab Sample ID: MB 880-84485/5-A
Matrix: Solid
Analysis Batch: 84450

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 84485

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		06/28/24 11:00	06/28/24 23:23	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		06/28/24 11:00	06/28/24 23:23	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		06/28/24 11:00	06/28/24 23:23	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		06/28/24 11:00	06/28/24 23:23	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		06/28/24 11:00	06/28/24 23:23	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		06/28/24 11:00	06/28/24 23:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*195*	*S1+*	*70 - 130*	*06/28/24 11:00*	*06/28/24 23:23*	*1*
1,4-Difluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*06/28/24 11:00*	*06/28/24 23:23*	*1*

Lab Sample ID: LCS 880-84485/1-A
Matrix: Solid
Analysis Batch: 84450

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 84485

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1083		mg/Kg		108	70 - 130
Toluene	0.100	0.08593		mg/Kg		86	70 - 130
Ethylbenzene	0.100	0.1032		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.2011		mg/Kg		101	70 - 130
o-Xylene	0.100	0.1035		mg/Kg		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-84485/2-A
Matrix: Solid
Analysis Batch: 84450

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 84485

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1134		mg/Kg		113	70 - 130	5	35
Toluene	0.100	0.09428		mg/Kg		94	70 - 130	9	35
Ethylbenzene	0.100	0.1078		mg/Kg		108	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1896		mg/Kg		95	70 - 130	6	35
o-Xylene	0.100	0.1014		mg/Kg		101	70 - 130	2	35

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QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-45368-21 MS — **Client Sample ID: CS 36**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 84450 — **Prep Batch: 84485**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00147	U	0.105	0.1088		mg/Kg	☼	103	70 - 130
Toluene	<0.00211	U	0.105	0.08436		mg/Kg	☼	80	70 - 130
Ethylbenzene	<0.00115	U	0.105	0.08585		mg/Kg	☼	81	70 - 130
m-Xylene & p-Xylene	<0.00241	U	0.211	0.1666		mg/Kg	☼	79	70 - 130
o-Xylene	<0.00167	U	0.105	0.08652		mg/Kg	☼	82	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-45368-21 MSD — **Client Sample ID: CS 36**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 84450 — **Prep Batch: 84485**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00147	U	0.107	0.1091		mg/Kg	☼	102	70 - 130	0	35
Toluene	<0.00211	U	0.107	0.08988		mg/Kg	☼	84	70 - 130	6	35
Ethylbenzene	<0.00115	U	0.107	0.08900		mg/Kg	☼	83	70 - 130	4	35
m-Xylene & p-Xylene	<0.00241	U	0.213	0.1802		mg/Kg	☼	84	70 - 130	8	35
o-Xylene	<0.00167	U	0.107	0.09350		mg/Kg	☼	88	70 - 130	8	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: MB 880-84486/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 84450 — **Prep Batch: 84486**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		06/28/24 11:02	06/29/24 10:59	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		06/28/24 11:02	06/29/24 10:59	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		06/28/24 11:02	06/29/24 10:59	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		06/28/24 11:02	06/29/24 10:59	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		06/28/24 11:02	06/29/24 10:59	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		06/28/24 11:02	06/29/24 10:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	192	S1+	70 - 130	06/28/24 11:02	06/29/24 10:59	1
1,4-Difluorobenzene (Surr)	125		70 - 130	06/28/24 11:02	06/29/24 10:59	1

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

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

Lab Sample ID: LCS 880-84486/1-A
Matrix: Solid
Analysis Batch: 84450

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 84486

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1119		mg/Kg		112	70 - 130		
Toluene			0.100	0.08832		mg/Kg		88	70 - 130		
Ethylbenzene			0.100	0.1032		mg/Kg		103	70 - 130		
m-Xylene & p-Xylene			0.200	0.2133		mg/Kg		107	70 - 130		
o-Xylene			0.100	0.1116		mg/Kg		112	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-84486/2-A
Matrix: Solid
Analysis Batch: 84450

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 84486

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1082		mg/Kg		108	70 - 130	3	35
Toluene			0.100	0.09212		mg/Kg		92	70 - 130	4	35
Ethylbenzene			0.100	0.09915		mg/Kg		99	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.2049		mg/Kg		102	70 - 130	4	35
o-Xylene			0.100	0.1030		mg/Kg		103	70 - 130	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-45368-41 MS
Matrix: Solid
Analysis Batch: 84450

Client Sample ID: CS 58
Prep Type: Total/NA
Prep Batch: 84486

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00142	U	0.102	0.1001		mg/Kg	☼	98	70 - 130		
Toluene	<0.00204	U F1	0.102	0.06727	F1	mg/Kg	☼	66	70 - 130		
Ethylbenzene	<0.00111	U F1	0.102	0.05745	F1	mg/Kg	☼	56	70 - 130		
m-Xylene & p-Xylene	<0.00234	U F1	0.205	0.1327	F1	mg/Kg	☼	65	70 - 130		
o-Xylene	<0.00162	U F1	0.102	0.07123		mg/Kg	☼	70	70 - 130		

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

Lab Sample ID: 880-45368-41 MSD
Matrix: Solid
Analysis Batch: 84450

Client Sample ID: CS 58
Prep Type: Total/NA
Prep Batch: 84486

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00142	U	0.104	0.1016		mg/Kg	☼	98	70 - 130	1	35
Toluene	<0.00204	U F1	0.104	0.06322	F1	mg/Kg	☼	61	70 - 130	6	35
Ethylbenzene	<0.00111	U F1	0.104	0.05689	F1	mg/Kg	☼	55	70 - 130	1	35

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

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

Lab Sample ID: 880-45368-41 MSD
Matrix: Solid
Analysis Batch: 84450

Client Sample ID: CS 58
Prep Type: Total/NA
Prep Batch: 84486

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00234	U F1	0.207	0.1245	F1	mg/Kg	☼	60	70 - 130	6	35
o-Xylene	<0.00162	U F1	0.104	0.06493	F1	mg/Kg	☼	63	70 - 130	9	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 880-84488/5-A
Matrix: Solid
Analysis Batch: 84448

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 84488

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		06/28/24 11:03	06/29/24 09:16	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		06/28/24 11:03	06/29/24 09:16	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		06/28/24 11:03	06/29/24 09:16	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		06/28/24 11:03	06/29/24 09:16	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		06/28/24 11:03	06/29/24 09:16	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		06/28/24 11:03	06/29/24 09:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*06/28/24 11:03*	*06/29/24 09:16*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*06/28/24 11:03*	*06/29/24 09:16*	*1*

Lab Sample ID: LCS 880-84488/1-A
Matrix: Solid
Analysis Batch: 84448

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 84488

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1017		mg/Kg		102	70 - 130
Toluene	0.100	0.09482		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.08973		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.1943		mg/Kg		97	70 - 130
o-Xylene	0.100	0.09844		mg/Kg		98	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: LCSD 880-84488/2-A
Matrix: Solid
Analysis Batch: 84448

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 84488

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09675		mg/Kg		97	70 - 130	5	35
Toluene	0.100	0.09012		mg/Kg		90	70 - 130	5	35
Ethylbenzene	0.100	0.08577		mg/Kg		86	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1854		mg/Kg		93	70 - 130	5	35
o-Xylene	0.100	0.09429		mg/Kg		94	70 - 130	4	35

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-45368-61 MS — **Client Sample ID: CS 79**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 84448 — **Prep Batch: 84488**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00146	U	0.105	0.09495		mg/Kg	☼	91	70 - 130
Toluene	<0.00210	U	0.105	0.08130		mg/Kg	☼	78	70 - 130
Ethylbenzene	<0.00114	U F1	0.105	0.07038	F1	mg/Kg	☼	67	70 - 130
m-Xylene & p-Xylene	<0.00240	U	0.210	0.1480		mg/Kg	☼	71	70 - 130
o-Xylene	<0.00166	U	0.105	0.07346		mg/Kg	☼	70	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 880-45368-61 MSD — **Client Sample ID: CS 79**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 84448 — **Prep Batch: 84488**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00146	U	0.106	0.09606		mg/Kg	☼	91	70 - 130	1	35
Toluene	<0.00210	U	0.106	0.08254		mg/Kg	☼	78	70 - 130	2	35
Ethylbenzene	<0.00114	U F1	0.106	0.07149	F1	mg/Kg	☼	67	70 - 130	2	35
m-Xylene & p-Xylene	<0.00240	U	0.212	0.1506		mg/Kg	☼	71	70 - 130	2	35
o-Xylene	<0.00166	U	0.106	0.07520		mg/Kg	☼	71	70 - 130	2	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: MB 880-84494/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 84457 — **Prep Batch: 84494**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		06/28/24 11:07	06/28/24 22:53	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		06/28/24 11:07	06/28/24 22:53	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		06/28/24 11:07	06/28/24 22:53	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		06/28/24 11:07	06/28/24 22:53	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		06/28/24 11:07	06/28/24 22:53	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		06/28/24 11:07	06/28/24 22:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	06/28/24 11:07	06/28/24 22:53	1
1,4-Difluorobenzene (Surr)	97		70 - 130	06/28/24 11:07	06/28/24 22:53	1

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

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

Lab Sample ID: MB 880-84495/5-A
Matrix: Solid
Analysis Batch: 84457

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 84495

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		06/28/24 11:09	06/29/24 09:26	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		06/28/24 11:09	06/29/24 09:26	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		06/28/24 11:09	06/29/24 09:26	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		06/28/24 11:09	06/29/24 09:26	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		06/28/24 11:09	06/29/24 09:26	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		06/28/24 11:09	06/29/24 09:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*06/28/24 11:09*	*06/29/24 09:26*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*06/28/24 11:09*	*06/29/24 09:26*	*1*

Lab Sample ID: LCS 880-84495/1-A
Matrix: Solid
Analysis Batch: 84457

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 84495

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09639		mg/Kg		96	70 - 130		
Toluene			0.100	0.08888		mg/Kg		89	70 - 130		
Ethylbenzene			0.100	0.09185		mg/Kg		92	70 - 130		
m-Xylene & p-Xylene			0.200	0.1781		mg/Kg		89	70 - 130		
o-Xylene			0.100	0.09111		mg/Kg		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-84495/2-A
Matrix: Solid
Analysis Batch: 84457

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 84495

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09692		mg/Kg		97	70 - 130	1	35
Toluene			0.100	0.09014		mg/Kg		90	70 - 130	1	35
Ethylbenzene			0.100	0.09338		mg/Kg		93	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.1802		mg/Kg		90	70 - 130	1	35
o-Xylene			0.100	0.09268		mg/Kg		93	70 - 130	2	35

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

Lab Sample ID: MB 880-84640/5-A
Matrix: Solid
Analysis Batch: 84639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 84640

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		06/30/24 18:35	06/30/24 21:19	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		06/30/24 18:35	06/30/24 21:19	1

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

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

Lab Sample ID: MB 880-84640/5-A
Matrix: Solid
Analysis Batch: 84639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 84640

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		06/30/24 18:35	06/30/24 21:19	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		06/30/24 18:35	06/30/24 21:19	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		06/30/24 18:35	06/30/24 21:19	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		06/30/24 18:35	06/30/24 21:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*06/30/24 18:35*	*06/30/24 21:19*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*06/30/24 18:35*	*06/30/24 21:19*	*1*

Lab Sample ID: LCS 880-84640/1-A
Matrix: Solid
Analysis Batch: 84639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 84640

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1048		mg/Kg		105	70 - 130
Toluene	0.100	0.1028		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.09994		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.2149		mg/Kg		107	70 - 130
o-Xylene	0.100	0.1071		mg/Kg		107	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: LCSD 880-84640/2-A
Matrix: Solid
Analysis Batch: 84639

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 84640

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1023		mg/Kg		102	70 - 130	2	35
Toluene	0.100	0.09916		mg/Kg		99	70 - 130	4	35
Ethylbenzene	0.100	0.09632		mg/Kg		96	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2067		mg/Kg		103	70 - 130	4	35
o-Xylene	0.100	0.1032		mg/Kg		103	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: MB 880-84945/5-A
Matrix: Solid
Analysis Batch: 84941

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 84945

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		07/03/24 08:57	07/03/24 11:55	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/03/24 08:57	07/03/24 11:55	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		07/03/24 08:57	07/03/24 11:55	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		07/03/24 08:57	07/03/24 11:55	1

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

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

Lab Sample ID: MB 880-84945/5-A
Matrix: Solid
Analysis Batch: 84941

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 84945

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		07/03/24 08:57	07/03/24 11:55	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		07/03/24 08:57	07/03/24 11:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*224*	*S1+*	*70 - 130*	*07/03/24 08:57*	*07/03/24 11:55*	*1*
1,4-Difluorobenzene (Surr)	*144*	*S1+*	*70 - 130*	*07/03/24 08:57*	*07/03/24 11:55*	*1*

Lab Sample ID: LCS 880-84945/1-A
Matrix: Solid
Analysis Batch: 84941

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 84945

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1196		mg/Kg		120	70 - 130
Toluene	0.100	0.09885		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.08689		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.2163		mg/Kg		108	70 - 130
o-Xylene	0.100	0.1140		mg/Kg		114	70 - 130

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

Lab Sample ID: LCSD 880-84945/2-A
Matrix: Solid
Analysis Batch: 84941

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 84945

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1180		mg/Kg		118	70 - 130	1	35
Toluene	0.100	0.09429		mg/Kg		94	70 - 130	5	35
Ethylbenzene	0.100	0.1002		mg/Kg		100	70 - 130	14	35
m-Xylene & p-Xylene	0.200	0.2242		mg/Kg		112	70 - 130	4	35
o-Xylene	0.100	0.1173		mg/Kg		117	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

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

Lab Sample ID: MB 880-84446/1-A
Matrix: Solid
Analysis Batch: 84620

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 84446

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<11.0	U	50.0	11.0	mg/Kg		06/28/24 08:19	06/29/24 08:20	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/28/24 08:19	06/29/24 08:20	1
Oil Range Organics (Over C28-C36)	<12.5	U	50.0	12.5	mg/Kg		06/28/24 08:19	06/29/24 08:20	1

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QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130	06/28/24 08:19	06/29/24 08:20	1
o-Terphenyl	152	S1+	70 - 130	06/28/24 08:19	06/29/24 08:20	1

Lab Sample ID: LCS 880-84446/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 84620 — **Prep Batch: 84446**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	894.3		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	1000	812.8		mg/Kg		81	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	83		70 - 130

Lab Sample ID: LCSD 880-84446/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 84620 — **Prep Batch: 84446**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	876.2		mg/Kg		88	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	870.8		mg/Kg		87	70 - 130	7	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: MB 880-84526/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 84995 — **Prep Batch: 84526**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	19.40	J	50.0	11.0	mg/Kg		06/28/24 13:48	07/04/24 18:20	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/28/24 13:48	07/04/24 18:20	1
Oil Range Organics (Over C28-C36)	<12.5	U	50.0	12.5	mg/Kg		06/28/24 13:48	07/04/24 18:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130	06/28/24 13:48	07/04/24 18:20	1
o-Terphenyl	82		70 - 130	06/28/24 13:48	07/04/24 18:20	1

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

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

Lab Sample ID: LCS 880-84526/2-A
Matrix: Solid
Analysis Batch: 84995

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 84526

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	974.6		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	943.4		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*123*		*70 - 130*
o-Terphenyl	*116*		*70 - 130*

Lab Sample ID: LCSD 880-84526/3-A
Matrix: Solid
Analysis Batch: 84995

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 84526

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	912.3		mg/Kg		91	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			1000	912.8		mg/Kg		91	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*115*		*70 - 130*
o-Terphenyl	*108*		*70 - 130*

Lab Sample ID: 880-45368-1 MS
Matrix: Solid
Analysis Batch: 84995

Client Sample ID: CS 117
Prep Type: Total/NA
Prep Batch: 84526

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	17.6	J B	1020	912.2		mg/Kg	☼	87	70 - 130		
Diesel Range Organics (Over C10-C28)	19.2	J F1	1020	431.8	F1	mg/Kg	☼	40	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*78*		*70 - 130*
o-Terphenyl	*71*		*70 - 130*

Lab Sample ID: 880-45368-1 MSD
Matrix: Solid
Analysis Batch: 84995

Client Sample ID: CS 117
Prep Type: Total/NA
Prep Batch: 84526

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	17.6	J B	1020	922.9		mg/Kg	☼	88	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	19.2	J F1	1020	469.0	F1	mg/Kg	☼	44	70 - 130	8	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*80*		*70 - 130*

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

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

Lab Sample ID: 880-45368-1 MSD
Matrix: Solid
Analysis Batch: 84995

Client Sample ID: CS 117
Prep Type: Total/NA
Prep Batch: 84526

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	74		70 - 130

Lab Sample ID: MB 880-84541/1-A
Matrix: Solid
Analysis Batch: 84611

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 84541

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<11.0	U	50.0	11.0	mg/Kg		06/28/24 13:54	06/28/24 11:24	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/28/24 13:54	06/28/24 11:24	1
Oil Range Organics (Over C28-C36)	<12.5	U	50.0	12.5	mg/Kg		06/28/24 13:54	06/28/24 11:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	06/28/24 13:54	06/28/24 11:24	1
o-Terphenyl	88		70 - 130	06/28/24 13:54	06/28/24 11:24	1

Lab Sample ID: LCS 880-84541/2-A
Matrix: Solid
Analysis Batch: 84611

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 84541

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1115		mg/Kg		111	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1181		mg/Kg		118	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	120		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: LCSD 880-84541/3-A
Matrix: Solid
Analysis Batch: 84611

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 84541

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1102		mg/Kg		110	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1184		mg/Kg		118	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	119		70 - 130
o-Terphenyl	106		70 - 130

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

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

Lab Sample ID: 880-45368-21 MS
Matrix: Solid
Analysis Batch: 84611

Client Sample ID: CS 36
Prep Type: Total/NA
Prep Batch: 84541

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<11.6	U	1070	878.4		mg/Kg	☼	82	70 - 130
Diesel Range Organics (Over C10-C28)	137	F1	1070	887.9		mg/Kg	☼	70	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*98*		*70 - 130*
o-Terphenyl	*82*		*70 - 130*

Lab Sample ID: 880-45368-21 MSD
Matrix: Solid
Analysis Batch: 84611

Client Sample ID: CS 36
Prep Type: Total/NA
Prep Batch: 84541

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	<11.6	U	1070	865.3		mg/Kg	☼	81	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	137	F1	1070	865.4	F1	mg/Kg	☼	68	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*97*		*70 - 130*
o-Terphenyl	*82*		*70 - 130*

Lab Sample ID: MB 880-84544/1-A
Matrix: Solid
Analysis Batch: 84998

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 84544

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<11.0	U	50.0	11.0	mg/Kg		06/28/24 13:57	07/04/24 18:20	1
Diesel Range Organics (Over C10-C28)	18.65	J	50.0	15.0	mg/Kg		06/28/24 13:57	07/04/24 18:20	1
Oil Range Organics (Over C28-C36)	16.28	J	50.0	12.5	mg/Kg		06/28/24 13:57	07/04/24 18:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*06/28/24 13:57*	*07/04/24 18:20*	*1*
o-Terphenyl	*92*		*70 - 130*	*06/28/24 13:57*	*07/04/24 18:20*	*1*

Lab Sample ID: LCS 880-84544/2-A
Matrix: Solid
Analysis Batch: 84998

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 84544

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	960.7		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	1000	924.9		mg/Kg		92	70 - 130

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

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

Lab Sample ID: LCS 880-84544/2-A
Matrix: Solid
Analysis Batch: 84998

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 84544

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: LCSD 880-84544/3-A
Matrix: Solid
Analysis Batch: 84998

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 84544

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	864.5		mg/Kg		86	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	828.1		mg/Kg		83	70 - 130	11	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	88		70 - 130

Lab Sample ID: 880-45368-41 MS
Matrix: Solid
Analysis Batch: 84998

Client Sample ID: CS 58
Prep Type: Total/NA
Prep Batch: 84544

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	30.5	J F2	1030	977.6		mg/Kg	☼	92	70 - 130
Diesel Range Organics (Over C10-C28)	1340	B F1	1030	1390	F1	mg/Kg	☼	5	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	78		70 - 130
o-Terphenyl	75		70 - 130

Lab Sample ID: 880-45368-41 MSD
Matrix: Solid
Analysis Batch: 84998

Client Sample ID: CS 58
Prep Type: Total/NA
Prep Batch: 84544

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	30.5	J F2	1030	1221	F2	mg/Kg	☼	116	70 - 130	22	20
Diesel Range Organics (Over C10-C28)	1340	B F1	1030	1589	F1	mg/Kg	☼	24	70 - 130	13	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	83		70 - 130

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

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

Lab Sample ID: MB 880-84584/1-A
Matrix: Solid
Analysis Batch: 84611

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 84584

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<11.0	U	50.0	11.0	mg/Kg		06/28/24 16:07	06/29/24 00:48	1
Diesel Range Organics (Over C10-C28)	23.79	J	50.0	15.0	mg/Kg		06/28/24 16:07	06/29/24 00:48	1
Oil Range Organics (Over C28-C36)	<12.5	U	50.0	12.5	mg/Kg		06/28/24 16:07	06/29/24 00:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*176*	*S1+*	*70 - 130*	*06/28/24 16:07*	*06/29/24 00:48*	*1*
o-Terphenyl	*171*	*S1+*	*70 - 130*	*06/28/24 16:07*	*06/29/24 00:48*	*1*

Lab Sample ID: LCS 880-84584/2-A
Matrix: Solid
Analysis Batch: 84611

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 84584

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	901.2		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	1000	920.9		mg/Kg		92	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*96*		*70 - 130*

Lab Sample ID: LCSD 880-84584/3-A
Matrix: Solid
Analysis Batch: 84611

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 84584

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	931.3		mg/Kg		93	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	944.7		mg/Kg		94	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*97*		*70 - 130*

Lab Sample ID: 880-45368-63 MS
Matrix: Solid
Analysis Batch: 84611

Client Sample ID: CS 81
Prep Type: Total/NA
Prep Batch: 84584

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<11.2	U F1	1030	689.8	F1	mg/Kg	☼	67	70 - 130
Diesel Range Organics (Over C10-C28)	735	B F1	1030	966.5	F1	mg/Kg	☼	22	70 - 130

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

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

Lab Sample ID: 880-45368-63 MS
Matrix: Solid
Analysis Batch: 84611

Client Sample ID: CS 81
Prep Type: Total/NA
Prep Batch: 84584

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*91*		*70 - 130*
o-Terphenyl	*81*		*70 - 130*

Lab Sample ID: 880-45368-63 MSD
Matrix: Solid
Analysis Batch: 84611

Client Sample ID: CS 81
Prep Type: Total/NA
Prep Batch: 84584

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	<11.2	U F1	1030	748.3		mg/Kg	☼	73	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	735	B F1	1030	1000	F1	mg/Kg	☼	26	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*91*		*70 - 130*
o-Terphenyl	*82*		*70 - 130*

Lab Sample ID: MB 880-84585/1-A
Matrix: Solid
Analysis Batch: 84626

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 84585

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	13.97	J	50.0	11.0	mg/Kg		06/28/24 16:08	06/29/24 08:16	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/28/24 16:08	06/29/24 08:16	1
Oil Range Organics (Over C28-C36)	<12.5	U	50.0	12.5	mg/Kg		06/28/24 16:08	06/29/24 08:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*217*	*S1+*	*70 - 130*	*06/28/24 16:08*	*06/29/24 08:16*	*1*
o-Terphenyl	*247*	*S1+*	*70 - 130*	*06/28/24 16:08*	*06/29/24 08:16*	*1*

Lab Sample ID: LCS 880-84585/2-A
Matrix: Solid
Analysis Batch: 84626

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 84585

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	875.7		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	938.8		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*108*		*70 - 130*
o-Terphenyl	*115*		*70 - 130*

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

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

Lab Sample ID: LCSD 880-84585/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 84626 — **Prep Batch: 84585**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	754.3		mg/Kg		75	70 - 130	15	20
Diesel Range Organics (Over C10-C28)			1000	813.5		mg/Kg		81	70 - 130	14	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*98*		*70 - 130*
o-Terphenyl	*104*		*70 - 130*

Lab Sample ID: MB 880-84594/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 84647 — **Prep Batch: 84594**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	12.80	J	50.0	11.0	mg/Kg		06/28/24 16:24	07/01/24 08:34	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/28/24 16:24	07/01/24 08:34	1
Oil Range Organics (Over C28-C36)	<12.5	U	50.0	12.5	mg/Kg		06/28/24 16:24	07/01/24 08:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*214*	*S1+*	*70 - 130*	*06/28/24 16:24*	*07/01/24 08:34*	*1*
o-Terphenyl	*266*	*S1+*	*70 - 130*	*06/28/24 16:24*	*07/01/24 08:34*	*1*

Lab Sample ID: LCS 880-84594/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 84647 — **Prep Batch: 84594**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1035		mg/Kg		103	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1224		mg/Kg		122	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*144*	*S1+*	*70 - 130*
o-Terphenyl	*157*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-84594/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 84647 — **Prep Batch: 84594**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	900.7		mg/Kg		90	70 - 130	14	20
Diesel Range Organics (Over C10-C28)			1000	1040		mg/Kg		104	70 - 130	16	20

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

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

Lab Sample ID: LCSD 880-84594/3-A
Matrix: Solid
Analysis Batch: 84647

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 84594

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	126		70 - 130

Lab Sample ID: 880-45368-83 MS
Matrix: Solid
Analysis Batch: 84647

Client Sample ID: CS 105
Prep Type: Total/NA
Prep Batch: 84594

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	48.9	J B	1010	963.9		mg/Kg	☼	91	70 - 130		
Diesel Range Organics (Over C10-C28)	75.3	F1	1010	774.3	F1	mg/Kg	☼	69	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	141	S1+	70 - 130
o-Terphenyl	151	S1+	70 - 130

Lab Sample ID: 880-45368-83 MSD
Matrix: Solid
Analysis Batch: 84647

Client Sample ID: CS 105
Prep Type: Total/NA
Prep Batch: 84594

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	48.9	J B	1010	947.2		mg/Kg	☼	89	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	75.3	F1	1010	742.2	F1	mg/Kg	☼	66	70 - 130	4	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	136	S1+	70 - 130
o-Terphenyl	143	S1+	70 - 130

Lab Sample ID: MB 880-84810/1-A
Matrix: Solid
Analysis Batch: 84792

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 84810

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	13.74	J	50.0	11.0	mg/Kg		07/02/24 09:08	07/02/24 18:18	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		07/02/24 09:08	07/02/24 18:18	1
Oil Range Organics (Over C28-C36)	<12.5	U	50.0	12.5	mg/Kg		07/02/24 09:08	07/02/24 18:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	160	S1+	70 - 130	07/02/24 09:08	07/02/24 18:18	1
o-Terphenyl	173	S1+	70 - 130	07/02/24 09:08	07/02/24 18:18	1

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

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

Lab Sample ID: LCS 880-84810/2-A
Matrix: Solid
Analysis Batch: 84792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 84810

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1040		mg/Kg		104	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	967.9		mg/Kg		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*89*		*70 - 130*
o-Terphenyl	*90*		*70 - 130*

Lab Sample ID: LCSD 880-84810/3-A
Matrix: Solid
Analysis Batch: 84792

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 84810

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	989.3		mg/Kg		99	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	1011		mg/Kg		101	70 - 130	4	20

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-84484/1-A
Matrix: Solid
Analysis Batch: 84712

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			07/02/24 09:12	1

Lab Sample ID: LCS 880-84484/2-A
Matrix: Solid
Analysis Batch: 84712

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	260.6		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-84484/3-A
Matrix: Solid
Analysis Batch: 84712

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	262.2		mg/Kg		105	90 - 110	1	20

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-45368-9 MS
Matrix: Solid
Analysis Batch: 84712

Client Sample ID: CS 18
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	217		251	466.0		mg/Kg		99	90 - 110

Lab Sample ID: 880-45368-9 MSD
Matrix: Solid
Analysis Batch: 84712

Client Sample ID: CS 18
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	217		251	465.8		mg/Kg		99	90 - 110	0	20

Lab Sample ID: MB 880-84493/1-A
Matrix: Solid
Analysis Batch: 84713

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			07/02/24 06:02	1

Lab Sample ID: LCS 880-84493/2-A
Matrix: Solid
Analysis Batch: 84713

Client Sample ID: Lab Control Sample
Prep Type: Soluble

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

Lab Sample ID: LCSD 880-84493/3-A
Matrix: Solid
Analysis Batch: 84713

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	261.8		mg/Kg		105	90 - 110	1	20

Lab Sample ID: 880-45368-39 MS
Matrix: Solid
Analysis Batch: 84713

Client Sample ID: CS 55
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	376		252	630.8		mg/Kg		101	90 - 110

Lab Sample ID: 880-45368-39 MSD
Matrix: Solid
Analysis Batch: 84713

Client Sample ID: CS 55
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	376		252	631.4		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-45368-50 MS
Matrix: Solid
Analysis Batch: 84713

Client Sample ID: CS 67
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3810	F1	1260	5329	F1	mg/Kg		121	90 - 110

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-45368-50 MSD
Matrix: Solid
Analysis Batch: 84713

Client Sample ID: CS 67
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3810	F1	1260	5329	F1	mg/Kg		121	90 - 110	0	20

Lab Sample ID: MB 880-84502/1-A
Matrix: Solid
Analysis Batch: 84722

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			07/02/24 00:14	1

Lab Sample ID: LCS 880-84502/2-A
Matrix: Solid
Analysis Batch: 84722

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	252.8		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-84502/3-A
Matrix: Solid
Analysis Batch: 84722

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: 880-45368-79 MS
Matrix: Solid
Analysis Batch: 84722

Client Sample ID: CS 101
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5740		2520	8354		mg/Kg		104	90 - 110

Lab Sample ID: 880-45368-79 MSD
Matrix: Solid
Analysis Batch: 84722

Client Sample ID: CS 101
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5740		2520	8377		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-45368-90 MS
Matrix: Solid
Analysis Batch: 84722

Client Sample ID: CS 116
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1880		1250	3071		mg/Kg		96	90 - 110

Lab Sample ID: 880-45368-90 MSD
Matrix: Solid
Analysis Batch: 84722

Client Sample ID: CS 116
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1880		1250	3070		mg/Kg		96	90 - 110	0	20

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-84498/1-A
Matrix: Solid
Analysis Batch: 84734

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			07/02/24 06:39	1

Lab Sample ID: LCS 880-84498/2-A
Matrix: Solid
Analysis Batch: 84734

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	257.8		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-84498/3-A
Matrix: Solid
Analysis Batch: 84734

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	257.6		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 880-45368-59 MS
Matrix: Solid
Analysis Batch: 84734

Client Sample ID: CS 76
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1820		1260	3141		mg/Kg		105	90 - 110

Lab Sample ID: 880-45368-59 MSD
Matrix: Solid
Analysis Batch: 84734

Client Sample ID: CS 76
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1820		1260	3149		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 880-45368-70 MS
Matrix: Solid
Analysis Batch: 84734

Client Sample ID: CS 88
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	916	F1	249	1134	F1	mg/Kg		88	90 - 110

Lab Sample ID: 880-45368-70 MSD
Matrix: Solid
Analysis Batch: 84734

Client Sample ID: CS 88
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	916	F1	249	1135	F1	mg/Kg		88	90 - 110	0	20

Lab Sample ID: MB 880-84487/1-A
Matrix: Solid
Analysis Batch: 84738

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			07/01/24 23:55	1

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-84487/2-A
Matrix: Solid
Analysis Batch: 84738

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	258.4		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-84487/3-A
Matrix: Solid
Analysis Batch: 84738

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	259.7		mg/Kg		104	90 - 110	1	20

Lab Sample ID: 880-45368-19 MS
Matrix: Solid
Analysis Batch: 84738

Client Sample ID: CS 32
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	120	F1	255	415.3	F1	mg/Kg	☼	116	90 - 110		

Lab Sample ID: 880-45368-19 MSD
Matrix: Solid
Analysis Batch: 84738

Client Sample ID: CS 32
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	120	F1	255	416.9	F1	mg/Kg	☼	116	90 - 110	0	20

Lab Sample ID: 880-45368-29 MS
Matrix: Solid
Analysis Batch: 84738

Client Sample ID: CS 45
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	4640	F1	1280	6321	F1	mg/Kg	☼	131	90 - 110		

Lab Sample ID: 880-45368-29 MSD
Matrix: Solid
Analysis Batch: 84738

Client Sample ID: CS 45
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4640	F1	1280	6306	F1	mg/Kg	☼	130	90 - 110	0	20

Lab Sample ID: MB 880-84772/1-A
Matrix: Solid
Analysis Batch: 84897

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			07/03/24 17:06	1

Lab Sample ID: LCS 880-84772/2-A
Matrix: Solid
Analysis Batch: 84897

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	246.5		mg/Kg		99	90 - 110		

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-84772/3-A
Matrix: Solid
Analysis Batch: 84897

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	245.5		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

GC VOA

Prep Batch: 84417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-84417/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 84448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-61	CS 79	Total/NA	Solid	8021B	84488
880-45368-62	CS 80	Total/NA	Solid	8021B	84488
880-45368-63	CS 81	Total/NA	Solid	8021B	84488
880-45368-64	CS 82	Total/NA	Solid	8021B	84488
880-45368-65	CS 83	Total/NA	Solid	8021B	84488
880-45368-66	CS 84	Total/NA	Solid	8021B	84488
880-45368-67	CS 85	Total/NA	Solid	8021B	84488
880-45368-68	CS 86	Total/NA	Solid	8021B	84488
880-45368-69	CS 87	Total/NA	Solid	8021B	84488
880-45368-70	CS 88	Total/NA	Solid	8021B	84488
880-45368-71	CS 90	Total/NA	Solid	8021B	84488
880-45368-72	CS 91	Total/NA	Solid	8021B	84488
880-45368-73	CS 92	Total/NA	Solid	8021B	84488
880-45368-74	CS 93	Total/NA	Solid	8021B	84488
880-45368-75	CS 94	Total/NA	Solid	8021B	84488
880-45368-76	CS 95	Total/NA	Solid	8021B	84488
880-45368-77	CS 96	Total/NA	Solid	8021B	84488
880-45368-78	CS 97	Total/NA	Solid	8021B	84488
880-45368-79	CS 101	Total/NA	Solid	8021B	84488
880-45368-80	CS 102	Total/NA	Solid	8021B	84488
MB 880-84467/5-A	Method Blank	Total/NA	Solid	8021B	84467
MB 880-84488/5-A	Method Blank	Total/NA	Solid	8021B	84488
LCS 880-84488/1-A	Lab Control Sample	Total/NA	Solid	8021B	84488
LCSD 880-84488/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	84488
880-45368-61 MS	CS 79	Total/NA	Solid	8021B	84488
880-45368-61 MSD	CS 79	Total/NA	Solid	8021B	84488

Analysis Batch: 84450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-21	CS 36	Total/NA	Solid	8021B	84485
880-45368-22	CS 37	Total/NA	Solid	8021B	84485
880-45368-23	CS 38	Total/NA	Solid	8021B	84485
880-45368-24	CS 39	Total/NA	Solid	8021B	84485
880-45368-25	CS 40	Total/NA	Solid	8021B	84485
880-45368-26	CS 41	Total/NA	Solid	8021B	84485
880-45368-27	CS 42	Total/NA	Solid	8021B	84485
880-45368-28	CS 43	Total/NA	Solid	8021B	84485
880-45368-29	CS 45	Total/NA	Solid	8021B	84485
880-45368-30	CS 46	Total/NA	Solid	8021B	84485
880-45368-31	CS 47	Total/NA	Solid	8021B	84485
880-45368-32	CS 48	Total/NA	Solid	8021B	84485
880-45368-33	CS 49	Total/NA	Solid	8021B	84485
880-45368-34	CS 50	Total/NA	Solid	8021B	84485
880-45368-35	CS 51	Total/NA	Solid	8021B	84485
880-45368-36	CS 52	Total/NA	Solid	8021B	84485
880-45368-37	CS 53	Total/NA	Solid	8021B	84485
880-45368-38	CS 54	Total/NA	Solid	8021B	84485

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

GC VOA (Continued)

Analysis Batch: 84450 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-39	CS 55	Total/NA	Solid	8021B	84485
880-45368-40	CS 57	Total/NA	Solid	8021B	84485
880-45368-41	CS 58	Total/NA	Solid	8021B	84486
880-45368-43	CS 60	Total/NA	Solid	8021B	84486
880-45368-44	CS 61	Total/NA	Solid	8021B	84486
880-45368-45	CS 62	Total/NA	Solid	8021B	84486
880-45368-46	CS 63	Total/NA	Solid	8021B	84486
880-45368-47	CS 64	Total/NA	Solid	8021B	84486
880-45368-48	CS 65	Total/NA	Solid	8021B	84486
880-45368-49	CS 66	Total/NA	Solid	8021B	84486
880-45368-50	CS 67	Total/NA	Solid	8021B	84486
880-45368-51	CS 68	Total/NA	Solid	8021B	84486
880-45368-52	CS 69	Total/NA	Solid	8021B	84486
880-45368-53	CS 70	Total/NA	Solid	8021B	84486
880-45368-54	CS 71	Total/NA	Solid	8021B	84486
880-45368-55	CS 72	Total/NA	Solid	8021B	84486
880-45368-56	CS 73	Total/NA	Solid	8021B	84486
880-45368-57	CS 74	Total/NA	Solid	8021B	84486
880-45368-58	CS 75	Total/NA	Solid	8021B	84486
880-45368-59	CS 76	Total/NA	Solid	8021B	84486
MB 880-84417/5-A	Method Blank	Total/NA	Solid	8021B	84417
MB 880-84485/5-A	Method Blank	Total/NA	Solid	8021B	84485
MB 880-84486/5-A	Method Blank	Total/NA	Solid	8021B	84486
LCS 880-84485/1-A	Lab Control Sample	Total/NA	Solid	8021B	84485
LCS 880-84486/1-A	Lab Control Sample	Total/NA	Solid	8021B	84486
LCSD 880-84485/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	84485
LCSD 880-84486/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	84486
880-45368-21 MS	CS 36	Total/NA	Solid	8021B	84485
880-45368-21 MSD	CS 36	Total/NA	Solid	8021B	84485
880-45368-41 MS	CS 58	Total/NA	Solid	8021B	84486
880-45368-41 MSD	CS 58	Total/NA	Solid	8021B	84486

Analysis Batch: 84457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-85	CS 107	Total/NA	Solid	8021B	84495
880-45368-87	CS 113	Total/NA	Solid	8021B	84495
880-45368-88	CS 114	Total/NA	Solid	8021B	84495
880-45368-89	CS 115	Total/NA	Solid	8021B	84495
880-45368-90	CS 116	Total/NA	Solid	8021B	84495
MB 880-84494/5-A	Method Blank	Total/NA	Solid	8021B	84494
MB 880-84495/5-A	Method Blank	Total/NA	Solid	8021B	84495
LCS 880-84495/1-A	Lab Control Sample	Total/NA	Solid	8021B	84495
LCSD 880-84495/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	84495

Prep Batch: 84467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-84467/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 84483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-1	CS 117	Total/NA	Solid	5035	

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

GC VOA (Continued)

Prep Batch: 84483 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-2	CS 7	Total/NA	Solid	5035	
880-45368-3	CS 8	Total/NA	Solid	5035	
880-45368-4	CS 112	Total/NA	Solid	5035	
880-45368-5	CS 118	Total/NA	Solid	5035	
880-45368-6	CS 15	Total/NA	Solid	5035	
880-45368-7	CS 16	Total/NA	Solid	5035	
880-45368-8	CS 17	Total/NA	Solid	5035	
880-45368-9	CS 18	Total/NA	Solid	5035	
880-45368-10	CS 19	Total/NA	Solid	5035	
880-45368-11	CS 20	Total/NA	Solid	5035	
880-45368-12	CS 25	Total/NA	Solid	5035	
880-45368-13	CS 26	Total/NA	Solid	5035	
880-45368-14	CS 27	Total/NA	Solid	5035	
880-45368-15	CS 28	Total/NA	Solid	5035	
880-45368-16	CS 29	Total/NA	Solid	5035	
880-45368-17	CS 30	Total/NA	Solid	5035	
880-45368-18	CS 31	Total/NA	Solid	5035	
880-45368-19	CS 32	Total/NA	Solid	5035	
880-45368-20	CS 35	Total/NA	Solid	5035	
MB 880-84483/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-84483/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-84483/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-45368-1 MS	CS 117	Total/NA	Solid	5035	
880-45368-1 MSD	CS 117	Total/NA	Solid	5035	

Prep Batch: 84485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-21	CS 36	Total/NA	Solid	5035	
880-45368-22	CS 37	Total/NA	Solid	5035	
880-45368-23	CS 38	Total/NA	Solid	5035	
880-45368-24	CS 39	Total/NA	Solid	5035	
880-45368-25	CS 40	Total/NA	Solid	5035	
880-45368-26	CS 41	Total/NA	Solid	5035	
880-45368-27	CS 42	Total/NA	Solid	5035	
880-45368-28	CS 43	Total/NA	Solid	5035	
880-45368-29	CS 45	Total/NA	Solid	5035	
880-45368-30	CS 46	Total/NA	Solid	5035	
880-45368-31	CS 47	Total/NA	Solid	5035	
880-45368-32	CS 48	Total/NA	Solid	5035	
880-45368-33	CS 49	Total/NA	Solid	5035	
880-45368-34	CS 50	Total/NA	Solid	5035	
880-45368-35	CS 51	Total/NA	Solid	5035	
880-45368-36	CS 52	Total/NA	Solid	5035	
880-45368-37	CS 53	Total/NA	Solid	5035	
880-45368-38	CS 54	Total/NA	Solid	5035	
880-45368-39	CS 55	Total/NA	Solid	5035	
880-45368-40	CS 57	Total/NA	Solid	5035	
MB 880-84485/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-84485/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-84485/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-45368-21 MS	CS 36	Total/NA	Solid	5035	

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

GC VOA (Continued)

Prep Batch: 84485 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-21 MSD	CS 36	Total/NA	Solid	5035	

Prep Batch: 84486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-41	CS 58	Total/NA	Solid	5035	
880-45368-43	CS 60	Total/NA	Solid	5035	
880-45368-44	CS 61	Total/NA	Solid	5035	
880-45368-45	CS 62	Total/NA	Solid	5035	
880-45368-46	CS 63	Total/NA	Solid	5035	
880-45368-47	CS 64	Total/NA	Solid	5035	
880-45368-48	CS 65	Total/NA	Solid	5035	
880-45368-49	CS 66	Total/NA	Solid	5035	
880-45368-50	CS 67	Total/NA	Solid	5035	
880-45368-51	CS 68	Total/NA	Solid	5035	
880-45368-52	CS 69	Total/NA	Solid	5035	
880-45368-53	CS 70	Total/NA	Solid	5035	
880-45368-54	CS 71	Total/NA	Solid	5035	
880-45368-55	CS 72	Total/NA	Solid	5035	
880-45368-56	CS 73	Total/NA	Solid	5035	
880-45368-57	CS 74	Total/NA	Solid	5035	
880-45368-58	CS 75	Total/NA	Solid	5035	
880-45368-59	CS 76	Total/NA	Solid	5035	
MB 880-84486/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-84486/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-84486/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-45368-41 MS	CS 58	Total/NA	Solid	5035	
880-45368-41 MSD	CS 58	Total/NA	Solid	5035	

Prep Batch: 84488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-61	CS 79	Total/NA	Solid	5035	
880-45368-62	CS 80	Total/NA	Solid	5035	
880-45368-63	CS 81	Total/NA	Solid	5035	
880-45368-64	CS 82	Total/NA	Solid	5035	
880-45368-65	CS 83	Total/NA	Solid	5035	
880-45368-66	CS 84	Total/NA	Solid	5035	
880-45368-67	CS 85	Total/NA	Solid	5035	
880-45368-68	CS 86	Total/NA	Solid	5035	
880-45368-69	CS 87	Total/NA	Solid	5035	
880-45368-70	CS 88	Total/NA	Solid	5035	
880-45368-71	CS 90	Total/NA	Solid	5035	
880-45368-72	CS 91	Total/NA	Solid	5035	
880-45368-73	CS 92	Total/NA	Solid	5035	
880-45368-74	CS 93	Total/NA	Solid	5035	
880-45368-75	CS 94	Total/NA	Solid	5035	
880-45368-76	CS 95	Total/NA	Solid	5035	
880-45368-77	CS 96	Total/NA	Solid	5035	
880-45368-78	CS 97	Total/NA	Solid	5035	
880-45368-79	CS 101	Total/NA	Solid	5035	
880-45368-80	CS 102	Total/NA	Solid	5035	
MB 880-84488/5-A	Method Blank	Total/NA	Solid	5035	

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

GC VOA (Continued)

Prep Batch: 84488 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-84488/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-84488/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-45368-61 MS	CS 79	Total/NA	Solid	5035	
880-45368-61 MSD	CS 79	Total/NA	Solid	5035	

Prep Batch: 84494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-84494/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 84495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-85	CS 107	Total/NA	Solid	5035	
880-45368-87	CS 113	Total/NA	Solid	5035	
880-45368-88	CS 114	Total/NA	Solid	5035	
880-45368-89	CS 115	Total/NA	Solid	5035	
880-45368-90	CS 116	Total/NA	Solid	5035	
MB 880-84495/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-84495/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-84495/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 84630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-1	CS 117	Total/NA	Solid	8021B	84483
880-45368-2	CS 7	Total/NA	Solid	8021B	84483
880-45368-3	CS 8	Total/NA	Solid	8021B	84483
880-45368-4	CS 112	Total/NA	Solid	8021B	84483
880-45368-5	CS 118	Total/NA	Solid	8021B	84483
880-45368-6	CS 15	Total/NA	Solid	8021B	84483
880-45368-7	CS 16	Total/NA	Solid	8021B	84483
880-45368-8	CS 17	Total/NA	Solid	8021B	84483
880-45368-9	CS 18	Total/NA	Solid	8021B	84483
880-45368-10	CS 19	Total/NA	Solid	8021B	84483
880-45368-11	CS 20	Total/NA	Solid	8021B	84483
880-45368-12	CS 25	Total/NA	Solid	8021B	84483
880-45368-13	CS 26	Total/NA	Solid	8021B	84483
880-45368-14	CS 27	Total/NA	Solid	8021B	84483
880-45368-15	CS 28	Total/NA	Solid	8021B	84483
880-45368-16	CS 29	Total/NA	Solid	8021B	84483
880-45368-17	CS 30	Total/NA	Solid	8021B	84483
880-45368-18	CS 31	Total/NA	Solid	8021B	84483
880-45368-19	CS 32	Total/NA	Solid	8021B	84483
880-45368-20	CS 35	Total/NA	Solid	8021B	84483
MB 880-84483/5-A	Method Blank	Total/NA	Solid	8021B	84483
LCS 880-84483/1-A	Lab Control Sample	Total/NA	Solid	8021B	84483
LCSD 880-84483/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	84483
880-45368-1 MS	CS 117	Total/NA	Solid	8021B	84483
880-45368-1 MSD	CS 117	Total/NA	Solid	8021B	84483

Analysis Batch: 84639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-81	CS 103	Total/NA	Solid	8021B	84640

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

GC VOA (Continued)

Analysis Batch: 84639 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-82	CS 104	Total/NA	Solid	8021B	84640
880-45368-83	CS 105	Total/NA	Solid	8021B	84640
880-45368-84	CS 106	Total/NA	Solid	8021B	84640
MB 880-84640/5-A	Method Blank	Total/NA	Solid	8021B	84640
LCS 880-84640/1-A	Lab Control Sample	Total/NA	Solid	8021B	84640
LCSD 880-84640/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	84640

Prep Batch: 84640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-81	CS 103	Total/NA	Solid	5035	
880-45368-82	CS 104	Total/NA	Solid	5035	
880-45368-83	CS 105	Total/NA	Solid	5035	
880-45368-84	CS 106	Total/NA	Solid	5035	
MB 880-84640/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-84640/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-84640/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 84941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-60	CS 89	Total/NA	Solid	8021B	84945
MB 880-84945/5-A	Method Blank	Total/NA	Solid	8021B	84945
LCS 880-84945/1-A	Lab Control Sample	Total/NA	Solid	8021B	84945
LCSD 880-84945/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	84945

Prep Batch: 84945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-60	CS 89	Total/NA	Solid	5035	
MB 880-84945/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-84945/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-84945/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 84446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-89	CS 115	Total/NA	Solid	8015NM Prep	
880-45368-90	CS 116	Total/NA	Solid	8015NM Prep	
MB 880-84446/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-84446/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-84446/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 84526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-1	CS 117	Total/NA	Solid	8015NM Prep	
880-45368-2	CS 7	Total/NA	Solid	8015NM Prep	
880-45368-3	CS 8	Total/NA	Solid	8015NM Prep	
880-45368-4	CS 112	Total/NA	Solid	8015NM Prep	
880-45368-5	CS 118	Total/NA	Solid	8015NM Prep	
880-45368-6	CS 15	Total/NA	Solid	8015NM Prep	
880-45368-7	CS 16	Total/NA	Solid	8015NM Prep	
880-45368-8	CS 17	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

GC Semi VOA (Continued)

Prep Batch: 84526 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-9	CS 18	Total/NA	Solid	8015NM Prep	
880-45368-10	CS 19	Total/NA	Solid	8015NM Prep	
880-45368-11	CS 20	Total/NA	Solid	8015NM Prep	
880-45368-12	CS 25	Total/NA	Solid	8015NM Prep	
880-45368-13	CS 26	Total/NA	Solid	8015NM Prep	
880-45368-14	CS 27	Total/NA	Solid	8015NM Prep	
880-45368-15	CS 28	Total/NA	Solid	8015NM Prep	
880-45368-16	CS 29	Total/NA	Solid	8015NM Prep	
880-45368-17	CS 30	Total/NA	Solid	8015NM Prep	
880-45368-18	CS 31	Total/NA	Solid	8015NM Prep	
880-45368-19	CS 32	Total/NA	Solid	8015NM Prep	
880-45368-20	CS 35	Total/NA	Solid	8015NM Prep	
MB 880-84526/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-84526/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-84526/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-45368-1 MS	CS 117	Total/NA	Solid	8015NM Prep	
880-45368-1 MSD	CS 117	Total/NA	Solid	8015NM Prep	

Prep Batch: 84541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-21	CS 36	Total/NA	Solid	8015NM Prep	
880-45368-22	CS 37	Total/NA	Solid	8015NM Prep	
880-45368-23	CS 38	Total/NA	Solid	8015NM Prep	
880-45368-24	CS 39	Total/NA	Solid	8015NM Prep	
880-45368-25	CS 40	Total/NA	Solid	8015NM Prep	
880-45368-26	CS 41	Total/NA	Solid	8015NM Prep	
880-45368-27	CS 42	Total/NA	Solid	8015NM Prep	
880-45368-28	CS 43	Total/NA	Solid	8015NM Prep	
880-45368-29	CS 45	Total/NA	Solid	8015NM Prep	
880-45368-30	CS 46	Total/NA	Solid	8015NM Prep	
880-45368-31	CS 47	Total/NA	Solid	8015NM Prep	
880-45368-32	CS 48	Total/NA	Solid	8015NM Prep	
880-45368-33	CS 49	Total/NA	Solid	8015NM Prep	
880-45368-34	CS 50	Total/NA	Solid	8015NM Prep	
880-45368-35	CS 51	Total/NA	Solid	8015NM Prep	
880-45368-36	CS 52	Total/NA	Solid	8015NM Prep	
880-45368-37	CS 53	Total/NA	Solid	8015NM Prep	
880-45368-38	CS 54	Total/NA	Solid	8015NM Prep	
880-45368-39	CS 55	Total/NA	Solid	8015NM Prep	
880-45368-40	CS 57	Total/NA	Solid	8015NM Prep	
MB 880-84541/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-84541/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-84541/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-45368-21 MS	CS 36	Total/NA	Solid	8015NM Prep	
880-45368-21 MSD	CS 36	Total/NA	Solid	8015NM Prep	

Prep Batch: 84544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-41	CS 58	Total/NA	Solid	8015NM Prep	
880-45368-43	CS 60	Total/NA	Solid	8015NM Prep	
880-45368-44	CS 61	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

GC Semi VOA (Continued)

Prep Batch: 84544 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-45	CS 62	Total/NA	Solid	8015NM Prep	
880-45368-46	CS 63	Total/NA	Solid	8015NM Prep	
880-45368-47	CS 64	Total/NA	Solid	8015NM Prep	
880-45368-48	CS 65	Total/NA	Solid	8015NM Prep	
880-45368-49	CS 66	Total/NA	Solid	8015NM Prep	
880-45368-50	CS 67	Total/NA	Solid	8015NM Prep	
880-45368-51	CS 68	Total/NA	Solid	8015NM Prep	
880-45368-52	CS 69	Total/NA	Solid	8015NM Prep	
880-45368-53	CS 70	Total/NA	Solid	8015NM Prep	
880-45368-54	CS 71	Total/NA	Solid	8015NM Prep	
880-45368-55	CS 72	Total/NA	Solid	8015NM Prep	
880-45368-56	CS 73	Total/NA	Solid	8015NM Prep	
880-45368-57	CS 74	Total/NA	Solid	8015NM Prep	
880-45368-58	CS 75	Total/NA	Solid	8015NM Prep	
880-45368-59	CS 76	Total/NA	Solid	8015NM Prep	
880-45368-61	CS 79	Total/NA	Solid	8015NM Prep	
880-45368-62	CS 80	Total/NA	Solid	8015NM Prep	
MB 880-84544/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-84544/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-84544/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-45368-41 MS	CS 58	Total/NA	Solid	8015NM Prep	
880-45368-41 MSD	CS 58	Total/NA	Solid	8015NM Prep	

Prep Batch: 84584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-63	CS 81	Total/NA	Solid	8015NM Prep	
880-45368-64	CS 82	Total/NA	Solid	8015NM Prep	
880-45368-65	CS 83	Total/NA	Solid	8015NM Prep	
880-45368-66	CS 84	Total/NA	Solid	8015NM Prep	
880-45368-67	CS 85	Total/NA	Solid	8015NM Prep	
880-45368-68	CS 86	Total/NA	Solid	8015NM Prep	
880-45368-69	CS 87	Total/NA	Solid	8015NM Prep	
880-45368-70	CS 88	Total/NA	Solid	8015NM Prep	
880-45368-71	CS 90	Total/NA	Solid	8015NM Prep	
880-45368-72	CS 91	Total/NA	Solid	8015NM Prep	
880-45368-73	CS 92	Total/NA	Solid	8015NM Prep	
880-45368-74	CS 93	Total/NA	Solid	8015NM Prep	
880-45368-75	CS 94	Total/NA	Solid	8015NM Prep	
880-45368-76	CS 95	Total/NA	Solid	8015NM Prep	
880-45368-77	CS 96	Total/NA	Solid	8015NM Prep	
880-45368-78	CS 97	Total/NA	Solid	8015NM Prep	
880-45368-79	CS 101	Total/NA	Solid	8015NM Prep	
880-45368-80	CS 102	Total/NA	Solid	8015NM Prep	
880-45368-81	CS 103	Total/NA	Solid	8015NM Prep	
880-45368-82	CS 104	Total/NA	Solid	8015NM Prep	
MB 880-84584/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-84584/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-84584/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-45368-63 MS	CS 81	Total/NA	Solid	8015NM Prep	
880-45368-63 MSD	CS 81	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

GC Semi VOA

Prep Batch: 84585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-84	CS 106	Total/NA	Solid	8015NM Prep	
880-45368-85	CS 107	Total/NA	Solid	8015NM Prep	
880-45368-87	CS 113	Total/NA	Solid	8015NM Prep	
880-45368-88	CS 114	Total/NA	Solid	8015NM Prep	
MB 880-84585/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-84585/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-84585/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 84594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-83	CS 105	Total/NA	Solid	8015NM Prep	
MB 880-84594/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-84594/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-84594/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-45368-83 MS	CS 105	Total/NA	Solid	8015NM Prep	
880-45368-83 MSD	CS 105	Total/NA	Solid	8015NM Prep	

Analysis Batch: 84611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-21	CS 36	Total/NA	Solid	8015B NM	84541
880-45368-22	CS 37	Total/NA	Solid	8015B NM	84541
880-45368-23	CS 38	Total/NA	Solid	8015B NM	84541
880-45368-24	CS 39	Total/NA	Solid	8015B NM	84541
880-45368-25	CS 40	Total/NA	Solid	8015B NM	84541
880-45368-26	CS 41	Total/NA	Solid	8015B NM	84541
880-45368-27	CS 42	Total/NA	Solid	8015B NM	84541
880-45368-28	CS 43	Total/NA	Solid	8015B NM	84541
880-45368-29	CS 45	Total/NA	Solid	8015B NM	84541
880-45368-30	CS 46	Total/NA	Solid	8015B NM	84541
880-45368-31	CS 47	Total/NA	Solid	8015B NM	84541
880-45368-32	CS 48	Total/NA	Solid	8015B NM	84541
880-45368-33	CS 49	Total/NA	Solid	8015B NM	84541
880-45368-34	CS 50	Total/NA	Solid	8015B NM	84541
880-45368-35	CS 51	Total/NA	Solid	8015B NM	84541
880-45368-36	CS 52	Total/NA	Solid	8015B NM	84541
880-45368-37	CS 53	Total/NA	Solid	8015B NM	84541
880-45368-38	CS 54	Total/NA	Solid	8015B NM	84541
880-45368-39	CS 55	Total/NA	Solid	8015B NM	84541
880-45368-40	CS 57	Total/NA	Solid	8015B NM	84541
880-45368-63	CS 81	Total/NA	Solid	8015B NM	84584
880-45368-64	CS 82	Total/NA	Solid	8015B NM	84584
880-45368-65	CS 83	Total/NA	Solid	8015B NM	84584
880-45368-66	CS 84	Total/NA	Solid	8015B NM	84584
880-45368-67	CS 85	Total/NA	Solid	8015B NM	84584
880-45368-68	CS 86	Total/NA	Solid	8015B NM	84584
880-45368-69	CS 87	Total/NA	Solid	8015B NM	84584
880-45368-70	CS 88	Total/NA	Solid	8015B NM	84584
880-45368-71	CS 90	Total/NA	Solid	8015B NM	84584
880-45368-72	CS 91	Total/NA	Solid	8015B NM	84584
880-45368-73	CS 92	Total/NA	Solid	8015B NM	84584
880-45368-74	CS 93	Total/NA	Solid	8015B NM	84584

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

GC Semi VOA (Continued)

Analysis Batch: 84611 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-75	CS 94	Total/NA	Solid	8015B NM	84584
880-45368-76	CS 95	Total/NA	Solid	8015B NM	84584
880-45368-77	CS 96	Total/NA	Solid	8015B NM	84584
880-45368-78	CS 97	Total/NA	Solid	8015B NM	84584
880-45368-79	CS 101	Total/NA	Solid	8015B NM	84584
880-45368-80	CS 102	Total/NA	Solid	8015B NM	84584
880-45368-81	CS 103	Total/NA	Solid	8015B NM	84584
880-45368-82	CS 104	Total/NA	Solid	8015B NM	84584
MB 880-84541/1-A	Method Blank	Total/NA	Solid	8015B NM	84541
MB 880-84584/1-A	Method Blank	Total/NA	Solid	8015B NM	84584
LCS 880-84541/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	84541
LCS 880-84584/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	84584
LCSD 880-84541/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	84541
LCSD 880-84584/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	84584
880-45368-21 MS	CS 36	Total/NA	Solid	8015B NM	84541
880-45368-21 MSD	CS 36	Total/NA	Solid	8015B NM	84541
880-45368-63 MS	CS 81	Total/NA	Solid	8015B NM	84584
880-45368-63 MSD	CS 81	Total/NA	Solid	8015B NM	84584

Analysis Batch: 84620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-89	CS 115	Total/NA	Solid	8015B NM	84446
880-45368-90	CS 116	Total/NA	Solid	8015B NM	84446
MB 880-84446/1-A	Method Blank	Total/NA	Solid	8015B NM	84446
LCS 880-84446/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	84446
LCSD 880-84446/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	84446

Analysis Batch: 84626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-84	CS 106	Total/NA	Solid	8015B NM	84585
880-45368-85	CS 107	Total/NA	Solid	8015B NM	84585
880-45368-87	CS 113	Total/NA	Solid	8015B NM	84585
880-45368-88	CS 114	Total/NA	Solid	8015B NM	84585
MB 880-84585/1-A	Method Blank	Total/NA	Solid	8015B NM	84585
LCS 880-84585/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	84585
LCSD 880-84585/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	84585

Analysis Batch: 84647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-83	CS 105	Total/NA	Solid	8015B NM	84594
MB 880-84594/1-A	Method Blank	Total/NA	Solid	8015B NM	84594
LCS 880-84594/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	84594
LCSD 880-84594/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	84594
880-45368-83 MS	CS 105	Total/NA	Solid	8015B NM	84594
880-45368-83 MSD	CS 105	Total/NA	Solid	8015B NM	84594

Analysis Batch: 84792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-60	CS 89	Total/NA	Solid	8015B NM	84810
MB 880-84810/1-A	Method Blank	Total/NA	Solid	8015B NM	84810
LCS 880-84810/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	84810

QC Association Summary

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

GC Semi VOA (Continued)

Analysis Batch: 84792 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-84810/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	84810

Prep Batch: 84810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-60	CS 89	Total/NA	Solid	8015NM Prep	
MB 880-84810/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-84810/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-84810/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 84995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-1	CS 117	Total/NA	Solid	8015B NM	84526
880-45368-2	CS 7	Total/NA	Solid	8015B NM	84526
880-45368-3	CS 8	Total/NA	Solid	8015B NM	84526
880-45368-4	CS 112	Total/NA	Solid	8015B NM	84526
880-45368-5	CS 118	Total/NA	Solid	8015B NM	84526
880-45368-6	CS 15	Total/NA	Solid	8015B NM	84526
880-45368-7	CS 16	Total/NA	Solid	8015B NM	84526
880-45368-8	CS 17	Total/NA	Solid	8015B NM	84526
880-45368-9	CS 18	Total/NA	Solid	8015B NM	84526
880-45368-10	CS 19	Total/NA	Solid	8015B NM	84526
880-45368-11	CS 20	Total/NA	Solid	8015B NM	84526
880-45368-12	CS 25	Total/NA	Solid	8015B NM	84526
880-45368-13	CS 26	Total/NA	Solid	8015B NM	84526
880-45368-14	CS 27	Total/NA	Solid	8015B NM	84526
880-45368-15	CS 28	Total/NA	Solid	8015B NM	84526
880-45368-16	CS 29	Total/NA	Solid	8015B NM	84526
880-45368-17	CS 30	Total/NA	Solid	8015B NM	84526
880-45368-19	CS 32	Total/NA	Solid	8015B NM	84526
880-45368-20	CS 35	Total/NA	Solid	8015B NM	84526
MB 880-84526/1-A	Method Blank	Total/NA	Solid	8015B NM	84526
LCS 880-84526/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	84526
LCSD 880-84526/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	84526
880-45368-1 MS	CS 117	Total/NA	Solid	8015B NM	84526
880-45368-1 MSD	CS 117	Total/NA	Solid	8015B NM	84526

Analysis Batch: 84998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-18	CS 31	Total/NA	Solid	8015B NM	84526
880-45368-41	CS 58	Total/NA	Solid	8015B NM	84544
880-45368-43	CS 60	Total/NA	Solid	8015B NM	84544
880-45368-44	CS 61	Total/NA	Solid	8015B NM	84544
880-45368-45	CS 62	Total/NA	Solid	8015B NM	84544
880-45368-46	CS 63	Total/NA	Solid	8015B NM	84544
880-45368-47	CS 64	Total/NA	Solid	8015B NM	84544
880-45368-48	CS 65	Total/NA	Solid	8015B NM	84544
880-45368-49	CS 66	Total/NA	Solid	8015B NM	84544
880-45368-50	CS 67	Total/NA	Solid	8015B NM	84544
880-45368-51	CS 68	Total/NA	Solid	8015B NM	84544
880-45368-52	CS 69	Total/NA	Solid	8015B NM	84544
880-45368-53	CS 70	Total/NA	Solid	8015B NM	84544

QC Association Summary

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

GC Semi VOA (Continued)

Analysis Batch: 84998 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-54	CS 71	Total/NA	Solid	8015B NM	84544
880-45368-55	CS 72	Total/NA	Solid	8015B NM	84544
880-45368-56	CS 73	Total/NA	Solid	8015B NM	84544
880-45368-57	CS 74	Total/NA	Solid	8015B NM	84544
880-45368-58	CS 75	Total/NA	Solid	8015B NM	84544
880-45368-59	CS 76	Total/NA	Solid	8015B NM	84544
880-45368-61	CS 79	Total/NA	Solid	8015B NM	84544
880-45368-62	CS 80	Total/NA	Solid	8015B NM	84544
MB 880-84544/1-A	Method Blank	Total/NA	Solid	8015B NM	84544
LCS 880-84544/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	84544
LCSD 880-84544/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	84544
880-45368-41 MS	CS 58	Total/NA	Solid	8015B NM	84544
880-45368-41 MSD	CS 58	Total/NA	Solid	8015B NM	84544

HPLC/IC

Leach Batch: 84484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-1	CS 117	Soluble	Solid	DI Leach	
880-45368-2	CS 7	Soluble	Solid	DI Leach	
880-45368-3	CS 8	Soluble	Solid	DI Leach	
880-45368-4	CS 112	Soluble	Solid	DI Leach	
880-45368-5	CS 118	Soluble	Solid	DI Leach	
880-45368-6	CS 15	Soluble	Solid	DI Leach	
880-45368-7	CS 16	Soluble	Solid	DI Leach	
880-45368-8	CS 17	Soluble	Solid	DI Leach	
880-45368-9	CS 18	Soluble	Solid	DI Leach	
880-45368-10	CS 19	Soluble	Solid	DI Leach	
880-45368-11	CS 20	Soluble	Solid	DI Leach	
880-45368-12	CS 25	Soluble	Solid	DI Leach	
880-45368-13	CS 26	Soluble	Solid	DI Leach	
880-45368-14	CS 27	Soluble	Solid	DI Leach	
880-45368-15	CS 28	Soluble	Solid	DI Leach	
880-45368-16	CS 29	Soluble	Solid	DI Leach	
880-45368-17	CS 30	Soluble	Solid	DI Leach	
880-45368-18	CS 31	Soluble	Solid	DI Leach	
MB 880-84484/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-84484/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-84484/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-45368-9 MS	CS 18	Soluble	Solid	DI Leach	
880-45368-9 MSD	CS 18	Soluble	Solid	DI Leach	

Leach Batch: 84487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-19	CS 32	Soluble	Solid	DI Leach	
880-45368-20	CS 35	Soluble	Solid	DI Leach	
880-45368-21	CS 36	Soluble	Solid	DI Leach	
880-45368-22	CS 37	Soluble	Solid	DI Leach	
880-45368-23	CS 38	Soluble	Solid	DI Leach	
880-45368-24	CS 39	Soluble	Solid	DI Leach	
880-45368-25	CS 40	Soluble	Solid	DI Leach	

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

HPLC/IC (Continued)

Leach Batch: 84487 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-26	CS 41	Soluble	Solid	DI Leach	
880-45368-27	CS 42	Soluble	Solid	DI Leach	
880-45368-28	CS 43	Soluble	Solid	DI Leach	
880-45368-29	CS 45	Soluble	Solid	DI Leach	
880-45368-30	CS 46	Soluble	Solid	DI Leach	
880-45368-31	CS 47	Soluble	Solid	DI Leach	
880-45368-32	CS 48	Soluble	Solid	DI Leach	
880-45368-33	CS 49	Soluble	Solid	DI Leach	
880-45368-34	CS 50	Soluble	Solid	DI Leach	
880-45368-35	CS 51	Soluble	Solid	DI Leach	
880-45368-36	CS 52	Soluble	Solid	DI Leach	
880-45368-37	CS 53	Soluble	Solid	DI Leach	
880-45368-38	CS 54	Soluble	Solid	DI Leach	
MB 880-84487/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-84487/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-84487/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-45368-19 MS	CS 32	Soluble	Solid	DI Leach	
880-45368-19 MSD	CS 32	Soluble	Solid	DI Leach	
880-45368-29 MS	CS 45	Soluble	Solid	DI Leach	
880-45368-29 MSD	CS 45	Soluble	Solid	DI Leach	

Leach Batch: 84493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-39	CS 55	Soluble	Solid	DI Leach	
880-45368-40	CS 57	Soluble	Solid	DI Leach	
880-45368-41	CS 58	Soluble	Solid	DI Leach	
880-45368-43	CS 60	Soluble	Solid	DI Leach	
880-45368-44	CS 61	Soluble	Solid	DI Leach	
880-45368-45	CS 62	Soluble	Solid	DI Leach	
880-45368-46	CS 63	Soluble	Solid	DI Leach	
880-45368-47	CS 64	Soluble	Solid	DI Leach	
880-45368-48	CS 65	Soluble	Solid	DI Leach	
880-45368-49	CS 66	Soluble	Solid	DI Leach	
880-45368-50	CS 67	Soluble	Solid	DI Leach	
880-45368-51	CS 68	Soluble	Solid	DI Leach	
880-45368-52	CS 69	Soluble	Solid	DI Leach	
880-45368-53	CS 70	Soluble	Solid	DI Leach	
880-45368-54	CS 71	Soluble	Solid	DI Leach	
880-45368-55	CS 72	Soluble	Solid	DI Leach	
880-45368-56	CS 73	Soluble	Solid	DI Leach	
880-45368-57	CS 74	Soluble	Solid	DI Leach	
880-45368-58	CS 75	Soluble	Solid	DI Leach	
MB 880-84493/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-84493/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-84493/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-45368-39 MS	CS 55	Soluble	Solid	DI Leach	
880-45368-39 MSD	CS 55	Soluble	Solid	DI Leach	
880-45368-50 MS	CS 67	Soluble	Solid	DI Leach	
880-45368-50 MSD	CS 67	Soluble	Solid	DI Leach	

QC Association Summary

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

HPLC/IC

Leach Batch: 84498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-59	CS 76	Soluble	Solid	DI Leach	
880-45368-61	CS 79	Soluble	Solid	DI Leach	
880-45368-62	CS 80	Soluble	Solid	DI Leach	
880-45368-63	CS 81	Soluble	Solid	DI Leach	
880-45368-64	CS 82	Soluble	Solid	DI Leach	
880-45368-65	CS 83	Soluble	Solid	DI Leach	
880-45368-66	CS 84	Soluble	Solid	DI Leach	
880-45368-67	CS 85	Soluble	Solid	DI Leach	
880-45368-68	CS 86	Soluble	Solid	DI Leach	
880-45368-69	CS 87	Soluble	Solid	DI Leach	
880-45368-70	CS 88	Soluble	Solid	DI Leach	
880-45368-71	CS 90	Soluble	Solid	DI Leach	
880-45368-72	CS 91	Soluble	Solid	DI Leach	
880-45368-73	CS 92	Soluble	Solid	DI Leach	
880-45368-74	CS 93	Soluble	Solid	DI Leach	
880-45368-75	CS 94	Soluble	Solid	DI Leach	
880-45368-76	CS 95	Soluble	Solid	DI Leach	
880-45368-77	CS 96	Soluble	Solid	DI Leach	
880-45368-78	CS 97	Soluble	Solid	DI Leach	
MB 880-84498/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-84498/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-84498/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-45368-59 MS	CS 76	Soluble	Solid	DI Leach	
880-45368-59 MSD	CS 76	Soluble	Solid	DI Leach	
880-45368-70 MS	CS 88	Soluble	Solid	DI Leach	
880-45368-70 MSD	CS 88	Soluble	Solid	DI Leach	

Leach Batch: 84502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-79	CS 101	Soluble	Solid	DI Leach	
880-45368-80	CS 102	Soluble	Solid	DI Leach	
880-45368-81	CS 103	Soluble	Solid	DI Leach	
880-45368-82	CS 104	Soluble	Solid	DI Leach	
880-45368-83	CS 105	Soluble	Solid	DI Leach	
880-45368-84	CS 106	Soluble	Solid	DI Leach	
880-45368-85	CS 107	Soluble	Solid	DI Leach	
880-45368-87	CS 113	Soluble	Solid	DI Leach	
880-45368-88	CS 114	Soluble	Solid	DI Leach	
880-45368-89	CS 115	Soluble	Solid	DI Leach	
880-45368-90	CS 116	Soluble	Solid	DI Leach	
MB 880-84502/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-84502/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-84502/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-45368-79 MS	CS 101	Soluble	Solid	DI Leach	
880-45368-79 MSD	CS 101	Soluble	Solid	DI Leach	
880-45368-90 MS	CS 116	Soluble	Solid	DI Leach	
880-45368-90 MSD	CS 116	Soluble	Solid	DI Leach	

Analysis Batch: 84712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-1	CS 117	Soluble	Solid	300.0	84484

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

HPLC/IC (Continued)

Analysis Batch: 84712 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-2	CS 7	Soluble	Solid	300.0	84484
880-45368-3	CS 8	Soluble	Solid	300.0	84484
880-45368-4	CS 112	Soluble	Solid	300.0	84484
880-45368-5	CS 118	Soluble	Solid	300.0	84484
880-45368-6	CS 15	Soluble	Solid	300.0	84484
880-45368-7	CS 16	Soluble	Solid	300.0	84484
880-45368-8	CS 17	Soluble	Solid	300.0	84484
880-45368-9	CS 18	Soluble	Solid	300.0	84484
880-45368-10	CS 19	Soluble	Solid	300.0	84484
880-45368-11	CS 20	Soluble	Solid	300.0	84484
880-45368-12	CS 25	Soluble	Solid	300.0	84484
880-45368-13	CS 26	Soluble	Solid	300.0	84484
880-45368-14	CS 27	Soluble	Solid	300.0	84484
880-45368-15	CS 28	Soluble	Solid	300.0	84484
880-45368-16	CS 29	Soluble	Solid	300.0	84484
880-45368-17	CS 30	Soluble	Solid	300.0	84484
880-45368-18	CS 31	Soluble	Solid	300.0	84484
MB 880-84484/1-A	Method Blank	Soluble	Solid	300.0	84484
LCS 880-84484/2-A	Lab Control Sample	Soluble	Solid	300.0	84484
LCSD 880-84484/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	84484
880-45368-9 MS	CS 18	Soluble	Solid	300.0	84484
880-45368-9 MSD	CS 18	Soluble	Solid	300.0	84484

Analysis Batch: 84713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-39	CS 55	Soluble	Solid	300.0	84493
880-45368-40	CS 57	Soluble	Solid	300.0	84493
880-45368-41	CS 58	Soluble	Solid	300.0	84493
880-45368-43	CS 60	Soluble	Solid	300.0	84493
880-45368-44	CS 61	Soluble	Solid	300.0	84493
880-45368-45	CS 62	Soluble	Solid	300.0	84493
880-45368-46	CS 63	Soluble	Solid	300.0	84493
880-45368-47	CS 64	Soluble	Solid	300.0	84493
880-45368-48	CS 65	Soluble	Solid	300.0	84493
880-45368-49	CS 66	Soluble	Solid	300.0	84493
880-45368-50	CS 67	Soluble	Solid	300.0	84493
880-45368-51	CS 68	Soluble	Solid	300.0	84493
880-45368-52	CS 69	Soluble	Solid	300.0	84493
880-45368-53	CS 70	Soluble	Solid	300.0	84493
880-45368-54	CS 71	Soluble	Solid	300.0	84493
880-45368-55	CS 72	Soluble	Solid	300.0	84493
880-45368-56	CS 73	Soluble	Solid	300.0	84493
880-45368-57	CS 74	Soluble	Solid	300.0	84493
880-45368-58	CS 75	Soluble	Solid	300.0	84493
MB 880-84493/1-A	Method Blank	Soluble	Solid	300.0	84493
LCS 880-84493/2-A	Lab Control Sample	Soluble	Solid	300.0	84493
LCSD 880-84493/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	84493
880-45368-39 MS	CS 55	Soluble	Solid	300.0	84493
880-45368-39 MSD	CS 55	Soluble	Solid	300.0	84493
880-45368-50 MS	CS 67	Soluble	Solid	300.0	84493
880-45368-50 MSD	CS 67	Soluble	Solid	300.0	84493

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

HPLC/IC

Analysis Batch: 84722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-79	CS 101	Soluble	Solid	300.0	84502
880-45368-80	CS 102	Soluble	Solid	300.0	84502
880-45368-81	CS 103	Soluble	Solid	300.0	84502
880-45368-82	CS 104	Soluble	Solid	300.0	84502
880-45368-83	CS 105	Soluble	Solid	300.0	84502
880-45368-84	CS 106	Soluble	Solid	300.0	84502
880-45368-85	CS 107	Soluble	Solid	300.0	84502
880-45368-87	CS 113	Soluble	Solid	300.0	84502
880-45368-88	CS 114	Soluble	Solid	300.0	84502
880-45368-89	CS 115	Soluble	Solid	300.0	84502
880-45368-90	CS 116	Soluble	Solid	300.0	84502
MB 880-84502/1-A	Method Blank	Soluble	Solid	300.0	84502
LCS 880-84502/2-A	Lab Control Sample	Soluble	Solid	300.0	84502
LCSD 880-84502/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	84502
880-45368-79 MS	CS 101	Soluble	Solid	300.0	84502
880-45368-79 MSD	CS 101	Soluble	Solid	300.0	84502
880-45368-90 MS	CS 116	Soluble	Solid	300.0	84502
880-45368-90 MSD	CS 116	Soluble	Solid	300.0	84502

Analysis Batch: 84734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-59	CS 76	Soluble	Solid	300.0	84498
880-45368-61	CS 79	Soluble	Solid	300.0	84498
880-45368-62	CS 80	Soluble	Solid	300.0	84498
880-45368-63	CS 81	Soluble	Solid	300.0	84498
880-45368-64	CS 82	Soluble	Solid	300.0	84498
880-45368-65	CS 83	Soluble	Solid	300.0	84498
880-45368-66	CS 84	Soluble	Solid	300.0	84498
880-45368-67	CS 85	Soluble	Solid	300.0	84498
880-45368-68	CS 86	Soluble	Solid	300.0	84498
880-45368-69	CS 87	Soluble	Solid	300.0	84498
880-45368-70	CS 88	Soluble	Solid	300.0	84498
880-45368-71	CS 90	Soluble	Solid	300.0	84498
880-45368-72	CS 91	Soluble	Solid	300.0	84498
880-45368-73	CS 92	Soluble	Solid	300.0	84498
880-45368-74	CS 93	Soluble	Solid	300.0	84498
880-45368-75	CS 94	Soluble	Solid	300.0	84498
880-45368-76	CS 95	Soluble	Solid	300.0	84498
880-45368-77	CS 96	Soluble	Solid	300.0	84498
880-45368-78	CS 97	Soluble	Solid	300.0	84498
MB 880-84498/1-A	Method Blank	Soluble	Solid	300.0	84498
LCS 880-84498/2-A	Lab Control Sample	Soluble	Solid	300.0	84498
LCSD 880-84498/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	84498
880-45368-59 MS	CS 76	Soluble	Solid	300.0	84498
880-45368-59 MSD	CS 76	Soluble	Solid	300.0	84498
880-45368-70 MS	CS 88	Soluble	Solid	300.0	84498
880-45368-70 MSD	CS 88	Soluble	Solid	300.0	84498

Analysis Batch: 84738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-19	CS 32	Soluble	Solid	300.0	84487

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

HPLC/IC (Continued)

Analysis Batch: 84738 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-20	CS 35	Soluble	Solid	300.0	84487
880-45368-21	CS 36	Soluble	Solid	300.0	84487
880-45368-22	CS 37	Soluble	Solid	300.0	84487
880-45368-23	CS 38	Soluble	Solid	300.0	84487
880-45368-24	CS 39	Soluble	Solid	300.0	84487
880-45368-25	CS 40	Soluble	Solid	300.0	84487
880-45368-26	CS 41	Soluble	Solid	300.0	84487
880-45368-27	CS 42	Soluble	Solid	300.0	84487
880-45368-28	CS 43	Soluble	Solid	300.0	84487
880-45368-29	CS 45	Soluble	Solid	300.0	84487
880-45368-30	CS 46	Soluble	Solid	300.0	84487
880-45368-31	CS 47	Soluble	Solid	300.0	84487
880-45368-32	CS 48	Soluble	Solid	300.0	84487
880-45368-33	CS 49	Soluble	Solid	300.0	84487
880-45368-34	CS 50	Soluble	Solid	300.0	84487
880-45368-35	CS 51	Soluble	Solid	300.0	84487
880-45368-36	CS 52	Soluble	Solid	300.0	84487
880-45368-37	CS 53	Soluble	Solid	300.0	84487
880-45368-38	CS 54	Soluble	Solid	300.0	84487
MB 880-84487/1-A	Method Blank	Soluble	Solid	300.0	84487
LCS 880-84487/2-A	Lab Control Sample	Soluble	Solid	300.0	84487
LCSD 880-84487/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	84487
880-45368-19 MS	CS 32	Soluble	Solid	300.0	84487
880-45368-19 MSD	CS 32	Soluble	Solid	300.0	84487
880-45368-29 MS	CS 45	Soluble	Solid	300.0	84487
880-45368-29 MSD	CS 45	Soluble	Solid	300.0	84487

Leach Batch: 84772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-60	CS 89	Soluble	Solid	DI Leach	
MB 880-84772/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-84772/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-84772/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 84897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-60	CS 89	Soluble	Solid	300.0	84772
MB 880-84772/1-A	Method Blank	Soluble	Solid	300.0	84772
LCS 880-84772/2-A	Lab Control Sample	Soluble	Solid	300.0	84772
LCSD 880-84772/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	84772

General Chemistry

Analysis Batch: 84527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-1	CS 117	Total/NA	Solid	D2216	
880-45368-2	CS 7	Total/NA	Solid	D2216	
880-45368-3	CS 8	Total/NA	Solid	D2216	
880-45368-4	CS 112	Total/NA	Solid	D2216	
880-45368-5	CS 118	Total/NA	Solid	D2216	
880-45368-6	CS 15	Total/NA	Solid	D2216	

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

General Chemistry (Continued)

Analysis Batch: 84527 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-84527/1	Method Blank	Total/NA	Solid	D2216	

Analysis Batch: 84542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-7	CS 16	Total/NA	Solid	D2216	
880-45368-8	CS 17	Total/NA	Solid	D2216	
880-45368-9	CS 18	Total/NA	Solid	D2216	
880-45368-10	CS 19	Total/NA	Solid	D2216	
880-45368-11	CS 20	Total/NA	Solid	D2216	
880-45368-12	CS 25	Total/NA	Solid	D2216	
880-45368-13	CS 26	Total/NA	Solid	D2216	
880-45368-14	CS 27	Total/NA	Solid	D2216	
880-45368-15	CS 28	Total/NA	Solid	D2216	
880-45368-16	CS 29	Total/NA	Solid	D2216	
880-45368-17	CS 30	Total/NA	Solid	D2216	
880-45368-18	CS 31	Total/NA	Solid	D2216	
880-45368-19	CS 32	Total/NA	Solid	D2216	
880-45368-20	CS 35	Total/NA	Solid	D2216	
880-45368-21	CS 36	Total/NA	Solid	D2216	
880-45368-22	CS 37	Total/NA	Solid	D2216	
880-45368-23	CS 38	Total/NA	Solid	D2216	
880-45368-24	CS 39	Total/NA	Solid	D2216	
880-45368-25	CS 40	Total/NA	Solid	D2216	
880-45368-26	CS 41	Total/NA	Solid	D2216	
MB 880-84542/1	Method Blank	Total/NA	Solid	D2216	
880-45368-7 DU	CS 16	Total/NA	Solid	D2216	
880-45368-17 DU	CS 30	Total/NA	Solid	D2216	

Analysis Batch: 84543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-27	CS 42	Total/NA	Solid	D2216	
880-45368-28	CS 43	Total/NA	Solid	D2216	
880-45368-29	CS 45	Total/NA	Solid	D2216	
880-45368-30	CS 46	Total/NA	Solid	D2216	
880-45368-31	CS 47	Total/NA	Solid	D2216	
880-45368-32	CS 48	Total/NA	Solid	D2216	
880-45368-33	CS 49	Total/NA	Solid	D2216	
880-45368-34	CS 50	Total/NA	Solid	D2216	
880-45368-35	CS 51	Total/NA	Solid	D2216	
880-45368-36	CS 52	Total/NA	Solid	D2216	
880-45368-37	CS 53	Total/NA	Solid	D2216	
880-45368-38	CS 54	Total/NA	Solid	D2216	
880-45368-39	CS 55	Total/NA	Solid	D2216	
880-45368-40	CS 57	Total/NA	Solid	D2216	
880-45368-41	CS 58	Total/NA	Solid	D2216	
880-45368-43	CS 60	Total/NA	Solid	D2216	
880-45368-44	CS 61	Total/NA	Solid	D2216	
880-45368-45	CS 62	Total/NA	Solid	D2216	
880-45368-46	CS 63	Total/NA	Solid	D2216	
880-45368-47	CS 64	Total/NA	Solid	D2216	
MB 880-84543/1	Method Blank	Total/NA	Solid	D2216	

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

General Chemistry (Continued)

Analysis Batch: 84543 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-27 DU	CS 42	Total/NA	Solid	D2216	
880-45368-37 DU	CS 53	Total/NA	Solid	D2216	

Analysis Batch: 84545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-48	CS 65	Total/NA	Solid	D2216	
880-45368-49	CS 66	Total/NA	Solid	D2216	
880-45368-50	CS 67	Total/NA	Solid	D2216	
880-45368-51	CS 68	Total/NA	Solid	D2216	
880-45368-52	CS 69	Total/NA	Solid	D2216	
880-45368-53	CS 70	Total/NA	Solid	D2216	
880-45368-54	CS 71	Total/NA	Solid	D2216	
880-45368-55	CS 72	Total/NA	Solid	D2216	
880-45368-56	CS 73	Total/NA	Solid	D2216	
880-45368-57	CS 74	Total/NA	Solid	D2216	
880-45368-58	CS 75	Total/NA	Solid	D2216	
880-45368-59	CS 76	Total/NA	Solid	D2216	
880-45368-61	CS 79	Total/NA	Solid	D2216	
880-45368-62	CS 80	Total/NA	Solid	D2216	
880-45368-63	CS 81	Total/NA	Solid	D2216	
880-45368-64	CS 82	Total/NA	Solid	D2216	
880-45368-65	CS 83	Total/NA	Solid	D2216	
880-45368-66	CS 84	Total/NA	Solid	D2216	
880-45368-67	CS 85	Total/NA	Solid	D2216	
880-45368-68	CS 86	Total/NA	Solid	D2216	
MB 880-84545/1	Method Blank	Total/NA	Solid	D2216	
880-45368-48 DU	CS 65	Total/NA	Solid	D2216	
880-45368-58 DU	CS 75	Total/NA	Solid	D2216	

Analysis Batch: 84546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-69	CS 87	Total/NA	Solid	D2216	
880-45368-70	CS 88	Total/NA	Solid	D2216	
880-45368-71	CS 90	Total/NA	Solid	D2216	
880-45368-72	CS 91	Total/NA	Solid	D2216	
880-45368-73	CS 92	Total/NA	Solid	D2216	
880-45368-74	CS 93	Total/NA	Solid	D2216	
880-45368-75	CS 94	Total/NA	Solid	D2216	
880-45368-76	CS 95	Total/NA	Solid	D2216	
880-45368-77	CS 96	Total/NA	Solid	D2216	
880-45368-78	CS 97	Total/NA	Solid	D2216	
880-45368-79	CS 101	Total/NA	Solid	D2216	
880-45368-80	CS 102	Total/NA	Solid	D2216	
880-45368-81	CS 103	Total/NA	Solid	D2216	
880-45368-82	CS 104	Total/NA	Solid	D2216	
880-45368-83	CS 105	Total/NA	Solid	D2216	
880-45368-84	CS 106	Total/NA	Solid	D2216	
880-45368-85	CS 107	Total/NA	Solid	D2216	
880-45368-87	CS 113	Total/NA	Solid	D2216	
880-45368-88	CS 114	Total/NA	Solid	D2216	
880-45368-89	CS 115	Total/NA	Solid	D2216	

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

General Chemistry (Continued)

Analysis Batch: 84546 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-84546/1	Method Blank	Total/NA	Solid	D2216	
880-45368-69 DU	CS 87	Total/NA	Solid	D2216	
880-45368-78 DU	CS 97	Total/NA	Solid	D2216	

Analysis Batch: 84547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-90	CS 116	Total/NA	Solid	D2216	
MB 880-84547/1	Method Blank	Total/NA	Solid	D2216	
880-45368-90 DU	CS 116	Total/NA	Solid	D2216	

Analysis Batch: 84816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45368-60	CS 89	Total/NA	Solid	D2216	
MB 880-84816/1	Method Blank	Total/NA	Solid	D2216	

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 117
Lab Sample ID: 880-45368-1
Date Collected: 06/25/24 13:50
Matrix: Solid
Date Received: 06/27/24 17:40

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	84484	06/28/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	84712	07/02/24 09:49	CH	EET MID
Total/NA	Analysis	D2216		1			84527	06/28/24 13:48	CH	EET MID

Client Sample ID: CS 117
Lab Sample ID: 880-45368-1
Date Collected: 06/25/24 13:50
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.9

Prep 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	84483	06/28/24 10:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84630	06/29/24 18:05	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	84526	06/28/24 13:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84995	07/04/24 19:22	SM	EET MID

Client Sample ID: CS 7
Lab Sample ID: 880-45368-2
Date Collected: 06/25/24 13:27
Matrix: Solid
Date Received: 06/27/24 17:40

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	84484	06/28/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84712	07/02/24 09:54	CH	EET MID
Total/NA	Analysis	D2216		1			84527	06/28/24 13:48	CH	EET MID

Client Sample ID: CS 7
Lab Sample ID: 880-45368-2
Date Collected: 06/25/24 13:27
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.5

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	84483	06/28/24 10:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84630	06/29/24 18:32	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	84526	06/28/24 13:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84995	07/04/24 20:23	SM	EET MID

Client Sample ID: CS 8
Lab Sample ID: 880-45368-3
Date Collected: 06/25/24 13:29
Matrix: Solid
Date Received: 06/27/24 17:40

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	84484	06/28/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84712	07/02/24 09:59	CH	EET MID
Total/NA	Analysis	D2216		1			84527	06/28/24 13:48	CH	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 8
Lab Sample ID: 880-45368-3
Date Collected: 06/25/24 13:29
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 96.7

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	84483	06/28/24 10:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84630	06/29/24 18:59	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	84526	06/28/24 13:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84995	07/04/24 20:43	SM	EET MID

Client Sample ID: CS 112
Lab Sample ID: 880-45368-4
Date Collected: 06/26/24 13:42
Matrix: Solid
Date Received: 06/27/24 17:40

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	84484	06/28/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84712	07/02/24 10:15	CH	EET MID
Total/NA	Analysis	D2216		1			84527	06/28/24 13:48	CH	EET MID

Client Sample ID: CS 112
Lab Sample ID: 880-45368-4
Date Collected: 06/26/24 13:42
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 82.6

Prep 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	84483	06/28/24 10:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84630	06/29/24 19:26	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	84526	06/28/24 13:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84995	07/04/24 21:03	SM	EET MID

Client Sample ID: CS 118
Lab Sample ID: 880-45368-5
Date Collected: 06/26/24 13:52
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	84484	06/28/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84712	07/02/24 10:20	CH	EET MID
Total/NA	Analysis	D2216		1			84527	06/28/24 13:48	CH	EET MID

Client Sample ID: CS 118
Lab Sample ID: 880-45368-5
Date Collected: 06/26/24 13:52
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.8

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	84483	06/28/24 10:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84630	06/29/24 19:53	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	84526	06/28/24 13:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84995	07/04/24 21:24	SM	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 15
Lab Sample ID: 880-45368-6
Date Collected: 06/26/24 13:21
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	84484	06/28/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84712	07/02/24 10:25	CH	EET MID
Total/NA	Analysis	D2216		1			84527	06/28/24 13:48	CH	EET MID

Client Sample ID: CS 15
Lab Sample ID: 880-45368-6
Date Collected: 06/26/24 13:21
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.7

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	84483	06/28/24 10:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84630	06/29/24 20:20	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	84526	06/28/24 13:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84995	07/04/24 21:45	SM	EET MID

Client Sample ID: CS 16
Lab Sample ID: 880-45368-7
Date Collected: 06/26/24 13:23
Matrix: Solid
Date Received: 06/27/24 17:40

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	84484	06/28/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84712	07/02/24 10:31	CH	EET MID
Total/NA	Analysis	D2216		1			84542	06/28/24 13:54	CH	EET MID

Client Sample ID: CS 16
Lab Sample ID: 880-45368-7
Date Collected: 06/26/24 13:23
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.2

Prep 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	84483	06/28/24 10:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84630	06/29/24 20:46	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	84526	06/28/24 13:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84995	07/04/24 22:05	SM	EET MID

Client Sample ID: CS 17
Lab Sample ID: 880-45368-8
Date Collected: 06/26/24 13:25
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	84484	06/28/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84712	07/02/24 10:36	CH	EET MID
Total/NA	Analysis	D2216		1			84542	06/28/24 13:54	CH	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 17
Lab Sample ID: 880-45368-8
Date Collected: 06/26/24 13:25
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 99.2

Prep 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	84483	06/28/24 10:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84630	06/29/24 21:13	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	84526	06/28/24 13:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84995	07/04/24 22:25	SM	EET MID

Client Sample ID: CS 18
Lab Sample ID: 880-45368-9
Date Collected: 06/26/24 13:27
Matrix: Solid
Date Received: 06/27/24 17:40

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	84484	06/28/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84712	07/02/24 10:41	CH	EET MID
Total/NA	Analysis	D2216		1			84542	06/28/24 13:54	CH	EET MID

Client Sample ID: CS 18
Lab Sample ID: 880-45368-9
Date Collected: 06/26/24 13:27
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.6

Prep 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	84483	06/28/24 10:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84630	06/29/24 21:40	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	84526	06/28/24 13:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84995	07/05/24 02:35	SM	EET MID

Client Sample ID: CS 19
Lab Sample ID: 880-45368-10
Date Collected: 06/26/24 13:29
Matrix: Solid
Date Received: 06/27/24 17:40

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	84484	06/28/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84712	07/02/24 10:57	CH	EET MID
Total/NA	Analysis	D2216		1			84542	06/28/24 13:54	CH	EET MID

Client Sample ID: CS 19
Lab Sample ID: 880-45368-10
Date Collected: 06/26/24 13:29
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 96.4

Prep 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	84483	06/28/24 10:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84630	06/29/24 22:07	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	84526	06/28/24 13:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84995	07/04/24 22:46	SM	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 20
Lab Sample ID: 880-45368-11
Date Collected: 06/26/24 13:31
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	84484	06/28/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84712	07/02/24 11:02	CH	EET MID
Total/NA	Analysis	D2216		1			84542	06/28/24 13:54	CH	EET MID

Client Sample ID: CS 20
Lab Sample ID: 880-45368-11
Date Collected: 06/26/24 13:31
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.8

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	84483	06/28/24 10:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84630	06/29/24 23:53	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	84526	06/28/24 13:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84995	07/05/24 03:37	SM	EET MID

Client Sample ID: CS 25
Lab Sample ID: 880-45368-12
Date Collected: 06/26/24 13:11
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	84484	06/28/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84712	07/02/24 11:18	CH	EET MID
Total/NA	Analysis	D2216		1			84542	06/28/24 13:54	CH	EET MID

Client Sample ID: CS 25
Lab Sample ID: 880-45368-12
Date Collected: 06/26/24 13:11
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.3

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	84483	06/28/24 10:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84630	06/30/24 00:20	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	84526	06/28/24 13:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84995	07/04/24 23:07	SM	EET MID

Client Sample ID: CS 26
Lab Sample ID: 880-45368-13
Date Collected: 06/26/24 13:13
Matrix: Solid
Date Received: 06/27/24 17:40

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	84484	06/28/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	84712	07/02/24 11:23	CH	EET MID
Total/NA	Analysis	D2216		1			84542	06/28/24 13:54	CH	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 26
Lab Sample ID: 880-45368-13
Date Collected: 06/26/24 13:13
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 95.9

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	84483	06/28/24 10:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84630	06/30/24 00:46	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	84526	06/28/24 13:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84995	07/04/24 23:48	SM	EET MID

Client Sample ID: CS 27
Lab Sample ID: 880-45368-14
Date Collected: 06/26/24 13:15
Matrix: Solid
Date Received: 06/27/24 17:40

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	84484	06/28/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	84712	07/02/24 11:28	CH	EET MID
Total/NA	Analysis	D2216		1			84542	06/28/24 13:54	CH	EET MID

Client Sample ID: CS 27
Lab Sample ID: 880-45368-14
Date Collected: 06/26/24 13:15
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 95.8

Prep 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	84483	06/28/24 10:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84630	06/30/24 01:13	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	84526	06/28/24 13:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84995	07/05/24 02:56	SM	EET MID

Client Sample ID: CS 28
Lab Sample ID: 880-45368-15
Date Collected: 06/26/24 13:16
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	84484	06/28/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84712	07/02/24 11:33	CH	EET MID
Total/NA	Analysis	D2216		1			84542	06/28/24 13:54	CH	EET MID

Client Sample ID: CS 28
Lab Sample ID: 880-45368-15
Date Collected: 06/26/24 13:16
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.7

Prep 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	84483	06/28/24 10:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84630	06/30/24 01:40	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	84526	06/28/24 13:48	TKC	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	84995	07/05/24 00:49	SM	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 29
Lab Sample ID: 880-45368-16
Date Collected: 06/26/24 13:18
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	84484	06/28/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	84712	07/02/24 11:39	CH	EET MID
Total/NA	Analysis	D2216		1			84542	06/28/24 13:54	CH	EET MID

Client Sample ID: CS 29
Lab Sample ID: 880-45368-16
Date Collected: 06/26/24 13:18
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.1

Prep 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	84483	06/28/24 10:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84630	06/30/24 02:07	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	84526	06/28/24 13:48	TKC	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	84995	07/05/24 01:10	SM	EET MID

Client Sample ID: CS 30
Lab Sample ID: 880-45368-17
Date Collected: 06/26/24 13:20
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	84484	06/28/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	84712	07/02/24 11:44	CH	EET MID
Total/NA	Analysis	D2216		1			84542	06/28/24 13:54	CH	EET MID

Client Sample ID: CS 30
Lab Sample ID: 880-45368-17
Date Collected: 06/26/24 13:20
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.8

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	84483	06/28/24 10:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84630	06/30/24 02:33	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	84526	06/28/24 13:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84995	07/05/24 03:17	SM	EET MID

Client Sample ID: CS 31
Lab Sample ID: 880-45368-18
Date Collected: 06/26/24 13:22
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	84484	06/28/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84712	07/02/24 11:49	CH	EET MID
Total/NA	Analysis	D2216		1			84542	06/28/24 13:55	CH	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 31
Lab Sample ID: 880-45368-18
Date Collected: 06/26/24 13:22
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.9

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	84483	06/28/24 10:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84630	06/30/24 03:00	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	84526	06/28/24 13:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84998	07/05/24 07:12	SM	EET MID

Client Sample ID: CS 32
Lab Sample ID: 880-45368-19
Date Collected: 06/26/24 13:24
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			84542	06/28/24 13:55	CH	EET MID

Client Sample ID: CS 32
Lab Sample ID: 880-45368-19
Date Collected: 06/26/24 13:24
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.4

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	84483	06/28/24 10:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84630	06/30/24 03:27	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	84526	06/28/24 13:48	TKC	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	84995	07/05/24 00:29	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	84487	06/28/24 11:03	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84738	07/02/24 00:11	CH	EET MID

Client Sample ID: CS 35
Lab Sample ID: 880-45368-20
Date Collected: 06/26/24 00:00
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			84542	06/28/24 13:55	CH	EET MID

Client Sample ID: CS 35
Lab Sample ID: 880-45368-20
Date Collected: 06/26/24 00:00
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 94.4

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	84483	06/28/24 10:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84630	06/30/24 03:53	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	84526	06/28/24 13:48	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84995	07/05/24 00:09	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	84487	06/28/24 11:03	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	84738	07/02/24 00:27	CH	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 36
Lab Sample ID: 880-45368-21
Date Collected: 06/26/24 12:57
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			84542	06/28/24 13:55	CH	EET MID

Client Sample ID: CS 36
Lab Sample ID: 880-45368-21
Date Collected: 06/26/24 12:57
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 94.4

Prep 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	84485	06/28/24 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/28/24 23:51	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	84541	06/28/24 13:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/28/24 17:42	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	84487	06/28/24 11:03	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	84738	07/02/24 00:32	CH	EET MID

Client Sample ID: CS 37
Lab Sample ID: 880-45368-22
Date Collected: 06/26/24 12:59
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			84542	06/28/24 13:55	CH	EET MID

Client Sample ID: CS 37
Lab Sample ID: 880-45368-22
Date Collected: 06/26/24 12:59
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 95.6

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	84485	06/28/24 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 00:12	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	84541	06/28/24 13:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/28/24 18:34	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	84487	06/28/24 11:03	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	84738	07/02/24 00:37	CH	EET MID

Client Sample ID: CS 38
Lab Sample ID: 880-45368-23
Date Collected: 06/26/24 13:01
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			84542	06/28/24 13:55	CH	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 38
Lab Sample ID: 880-45368-23
Date Collected: 06/26/24 13:01
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	84485	06/28/24 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 00:32	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	84541	06/28/24 13:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/28/24 18:52	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	84487	06/28/24 11:03	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	84738	07/02/24 00:42	CH	EET MID

Client Sample ID: CS 39
Lab Sample ID: 880-45368-24
Date Collected: 06/26/24 13:03
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			84542	06/28/24 13:55	CH	EET MID

Client Sample ID: CS 39
Lab Sample ID: 880-45368-24
Date Collected: 06/26/24 13:03
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	84485	06/28/24 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 00:53	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	84541	06/28/24 13:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/28/24 19:08	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	84487	06/28/24 11:03	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	84738	07/02/24 00:58	CH	EET MID

Client Sample ID: CS 40
Lab Sample ID: 880-45368-25
Date Collected: 06/26/24 13:05
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			84542	06/28/24 13:55	CH	EET MID

Client Sample ID: CS 40
Lab Sample ID: 880-45368-25
Date Collected: 06/26/24 13:05
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.2

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	84485	06/28/24 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 01:13	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	84541	06/28/24 13:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/28/24 19:25	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	84487	06/28/24 11:03	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	84738	07/02/24 01:03	CH	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 41
Lab Sample ID: 880-45368-26
Date Collected: 06/26/24 13:07
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			84542	06/28/24 13:55	CH	EET MID

Client Sample ID: CS 41
Lab Sample ID: 880-45368-26
Date Collected: 06/26/24 13:07
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 99.3

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	84485	06/28/24 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 01:34	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	84541	06/28/24 13:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/28/24 19:42	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	84487	06/28/24 11:03	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84738	07/02/24 01:08	CH	EET MID

Client Sample ID: CS 42
Lab Sample ID: 880-45368-27
Date Collected: 06/26/24 13:09
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			84543	06/28/24 13:56	CH	EET MID

Client Sample ID: CS 42
Lab Sample ID: 880-45368-27
Date Collected: 06/26/24 13:09
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 99.1

Prep 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	84485	06/28/24 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 01:54	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	84541	06/28/24 13:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/28/24 19:59	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	84487	06/28/24 11:03	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84738	07/02/24 01:14	CH	EET MID

Client Sample ID: CS 43
Lab Sample ID: 880-45368-28
Date Collected: 06/26/24 13:11
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			84543	06/28/24 13:56	CH	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 43
Lab Sample ID: 880-45368-28
Date Collected: 06/26/24 13:11
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 77.8

Prep 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	84485	06/28/24 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 02:15	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	84541	06/28/24 13:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/28/24 20:17	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	84487	06/28/24 11:03	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84738	07/02/24 01:19	CH	EET MID

Client Sample ID: CS 45
Lab Sample ID: 880-45368-29
Date Collected: 06/26/24 13:08
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			84543	06/28/24 13:56	CH	EET MID

Client Sample ID: CS 45
Lab Sample ID: 880-45368-29
Date Collected: 06/26/24 13:08
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.1

Prep 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	84485	06/28/24 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 02:35	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	84541	06/28/24 13:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/28/24 20:34	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	84487	06/28/24 11:03	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	84738	07/02/24 01:24	CH	EET MID

Client Sample ID: CS 46
Lab Sample ID: 880-45368-30
Date Collected: 06/26/24 12:39
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			84543	06/28/24 13:56	CH	EET MID

Client Sample ID: CS 46
Lab Sample ID: 880-45368-30
Date Collected: 06/26/24 12:39
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 96.9

Prep 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	84485	06/28/24 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 02:55	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	84541	06/28/24 13:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/28/24 20:50	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	84487	06/28/24 11:03	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	84738	07/02/24 01:40	CH	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 47
Lab Sample ID: 880-45368-31
Date Collected: 06/26/24 12:41
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			84543	06/28/24 13:56	CH	EET MID

Client Sample ID: CS 47
Lab Sample ID: 880-45368-31
Date Collected: 06/26/24 12:41
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.2

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	84485	06/28/24 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 04:46	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	84541	06/28/24 13:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/28/24 21:23	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	84487	06/28/24 11:03	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	84738	07/02/24 01:45	CH	EET MID

Client Sample ID: CS 48
Lab Sample ID: 880-45368-32
Date Collected: 06/26/24 12:43
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			84543	06/28/24 13:56	CH	EET MID

Client Sample ID: CS 48
Lab Sample ID: 880-45368-32
Date Collected: 06/26/24 12:43
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 96.2

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	84485	06/28/24 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 05:06	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	84541	06/28/24 13:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/28/24 21:39	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	84487	06/28/24 11:03	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	84738	07/02/24 02:01	CH	EET MID

Client Sample ID: CS 49
Lab Sample ID: 880-45368-33
Date Collected: 06/26/24 12:44
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			84543	06/28/24 13:56	CH	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

Client Sample ID: CS 49

Lab Sample ID: 880-45368-33
Date Collected: 06/26/24 12:44
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	84485	06/28/24 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 05:27	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	84541	06/28/24 13:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/28/24 21:55	AJ	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	84487	06/28/24 11:03	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	84738	07/02/24 02:06	CH	EET MID

Client Sample ID: CS 50

Lab Sample ID: 880-45368-34
Date Collected: 06/26/24 12:46
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			84543	06/28/24 13:56	CH	EET MID

Client Sample ID: CS 50

Lab Sample ID: 880-45368-34
Date Collected: 06/26/24 12:46
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.7

Prep 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	84485	06/28/24 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 05:47	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	84541	06/28/24 13:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/28/24 22:11	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	84487	06/28/24 11:03	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	84738	07/02/24 02:11	CH	EET MID

Client Sample ID: CS 51

Lab Sample ID: 880-45368-35
Date Collected: 06/26/24 12:47
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			84543	06/28/24 13:56	CH	EET MID

Client Sample ID: CS 51

Lab Sample ID: 880-45368-35
Date Collected: 06/26/24 12:47
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	84485	06/28/24 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 06:07	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	84541	06/28/24 13:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/28/24 22:27	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	84487	06/28/24 11:03	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	84738	07/02/24 02:16	CH	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 52
Lab Sample ID: 880-45368-36
Date Collected: 06/26/24 12:48
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			84543	06/28/24 13:56	CH	EET MID

Client Sample ID: CS 52
Lab Sample ID: 880-45368-36
Date Collected: 06/26/24 12:48
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.1

Prep 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	84485	06/28/24 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 06:28	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	84541	06/28/24 13:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/28/24 22:43	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	84487	06/28/24 11:03	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	84738	07/02/24 02:22	CH	EET MID

Client Sample ID: CS 53
Lab Sample ID: 880-45368-37
Date Collected: 06/26/24 12:49
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			84543	06/28/24 13:56	CH	EET MID

Client Sample ID: CS 53
Lab Sample ID: 880-45368-37
Date Collected: 06/26/24 12:49
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.3

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	84485	06/28/24 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 06:48	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	84541	06/28/24 13:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/28/24 22:59	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	84487	06/28/24 11:03	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	84738	07/02/24 02:27	CH	EET MID

Client Sample ID: CS 54
Lab Sample ID: 880-45368-38
Date Collected: 06/26/24 12:50
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			84543	06/28/24 13:56	CH	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 54
Lab Sample ID: 880-45368-38
Date Collected: 06/26/24 12:50
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.3

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	84485	06/28/24 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 07:09	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	84541	06/28/24 13:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/28/24 23:15	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	84487	06/28/24 11:03	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	84738	07/02/24 02:32	CH	EET MID

Client Sample ID: CS 55
Lab Sample ID: 880-45368-39
Date Collected: 06/26/24 12:51
Matrix: Solid
Date Received: 06/27/24 17:40

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	84493	06/28/24 11:07	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84713	07/02/24 06:18	CH	EET MID
Total/NA	Analysis	D2216		1			84543	06/28/24 13:56	CH	EET MID

Client Sample ID: CS 55
Lab Sample ID: 880-45368-39
Date Collected: 06/26/24 12:51
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 99.3

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	84485	06/28/24 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 07:29	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	84541	06/28/24 13:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/28/24 23:30	AJ	EET MID

Client Sample ID: CS 57
Lab Sample ID: 880-45368-40
Date Collected: 06/26/24 12:25
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	84493	06/28/24 11:07	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	84713	07/02/24 06:33	CH	EET MID
Total/NA	Analysis	D2216		1			84543	06/28/24 13:56	CH	EET MID

Client Sample ID: CS 57
Lab Sample ID: 880-45368-40
Date Collected: 06/26/24 12:25
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 96.9

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	84485	06/28/24 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 07:50	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	84541	06/28/24 13:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/28/24 23:46	AJ	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 58
Lab Sample ID: 880-45368-41
Date Collected: 06/26/24 12:27
Matrix: Solid
Date Received: 06/27/24 17:40

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	84493	06/28/24 11:07	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	84713	07/02/24 06:38	CH	EET MID
Total/NA	Analysis	D2216		1			84543	06/28/24 13:56	CH	EET MID

Client Sample ID: CS 58
Lab Sample ID: 880-45368-41
Date Collected: 06/26/24 12:27
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.4

Prep 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	84486	06/28/24 11:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 11:28	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	84544	06/28/24 13:57	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84998	07/04/24 19:22	SM	EET MID

Client Sample ID: CS 60
Lab Sample ID: 880-45368-43
Date Collected: 06/26/24 12:31
Matrix: Solid
Date Received: 06/27/24 17:40

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	84493	06/28/24 11:07	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	84713	07/02/24 06:44	CH	EET MID
Total/NA	Analysis	D2216		1			84543	06/28/24 13:56	CH	EET MID

Client Sample ID: CS 60
Lab Sample ID: 880-45368-43
Date Collected: 06/26/24 12:31
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 95.8

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	84486	06/28/24 11:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 11:49	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	84544	06/28/24 13:57	TKC	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	84998	07/05/24 00:49	SM	EET MID

Client Sample ID: CS 61
Lab Sample ID: 880-45368-44
Date Collected: 06/26/24 12:32
Matrix: Solid
Date Received: 06/27/24 17:40

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	84493	06/28/24 11:07	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	84713	07/02/24 06:49	CH	EET MID
Total/NA	Analysis	D2216		1			84543	06/28/24 13:56	CH	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 61
Lab Sample ID: 880-45368-44
Date Collected: 06/26/24 12:32
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 96.7

Prep 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	84486	06/28/24 11:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 12:09	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	84544	06/28/24 13:57	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84998	07/04/24 20:23	SM	EET MID

Client Sample ID: CS 62
Lab Sample ID: 880-45368-45
Date Collected: 06/26/24 12:32
Matrix: Solid
Date Received: 06/27/24 17:40

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	84493	06/28/24 11:07	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	84713	07/02/24 07:05	CH	EET MID
Total/NA	Analysis	D2216		1			84543	06/28/24 13:56	CH	EET MID

Client Sample ID: CS 62
Lab Sample ID: 880-45368-45
Date Collected: 06/26/24 12:32
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.3

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	84486	06/28/24 11:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 12:30	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	84544	06/28/24 13:57	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84998	07/04/24 20:43	SM	EET MID

Client Sample ID: CS 63
Lab Sample ID: 880-45368-46
Date Collected: 06/26/24 12:36
Matrix: Solid
Date Received: 06/27/24 17:40

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	84493	06/28/24 11:07	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	84713	07/02/24 07:10	CH	EET MID
Total/NA	Analysis	D2216		1			84543	06/28/24 13:56	CH	EET MID

Client Sample ID: CS 63
Lab Sample ID: 880-45368-46
Date Collected: 06/26/24 12:36
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.8

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	84486	06/28/24 11:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 12:50	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.900 g	10 mL	84544	06/28/24 13:57	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84998	07/04/24 21:03	SM	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 64
Lab Sample ID: 880-45368-47
Date Collected: 06/26/24 12:37
Matrix: Solid
Date Received: 06/27/24 17:40

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	84493	06/28/24 11:07	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	84713	07/02/24 07:15	CH	EET MID
Total/NA	Analysis	D2216		1			84543	06/28/24 13:56	CH	EET MID

Client Sample ID: CS 64
Lab Sample ID: 880-45368-47
Date Collected: 06/26/24 12:37
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.8

Prep 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	84486	06/28/24 11:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 13:11	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	84544	06/28/24 13:57	TKC	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	84998	07/05/24 01:10	SM	EET MID

Client Sample ID: CS 65
Lab Sample ID: 880-45368-48
Date Collected: 06/26/24 12:38
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	84493	06/28/24 11:07	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	84713	07/02/24 07:20	CH	EET MID
Total/NA	Analysis	D2216		1			84545	06/28/24 13:58	CH	EET MID

Client Sample ID: CS 65
Lab Sample ID: 880-45368-48
Date Collected: 06/26/24 12:38
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 95.5

Prep 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	84486	06/28/24 11:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 13:31	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	84544	06/28/24 13:57	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84998	07/04/24 21:24	SM	EET MID

Client Sample ID: CS 66
Lab Sample ID: 880-45368-49
Date Collected: 06/26/24 12:39
Matrix: Solid
Date Received: 06/27/24 17:40

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	84493	06/28/24 11:07	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84713	07/02/24 07:26	CH	EET MID
Total/NA	Analysis	D2216		1			84545	06/28/24 13:58	CH	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 66
Lab Sample ID: 880-45368-49
Date Collected: 06/26/24 12:39
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 96.8

Prep 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	84486	06/28/24 11:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 13:52	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	84544	06/28/24 13:57	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84998	07/04/24 21:45	SM	EET MID

Client Sample ID: CS 67
Lab Sample ID: 880-45368-50
Date Collected: 06/26/24 13:12
Matrix: Solid
Date Received: 06/27/24 17:40

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	84493	06/28/24 11:07	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	84713	07/02/24 07:31	CH	EET MID
Total/NA	Analysis	D2216		1			84545	06/28/24 13:58	CH	EET MID

Client Sample ID: CS 67
Lab Sample ID: 880-45368-50
Date Collected: 06/26/24 13:12
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 95.2

Prep 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	84486	06/28/24 11:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 14:12	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	84544	06/28/24 13:57	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84998	07/04/24 22:05	SM	EET MID

Client Sample ID: CS 68
Lab Sample ID: 880-45368-51
Date Collected: 06/26/24 12:10
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	84493	06/28/24 11:07	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	84713	07/02/24 07:46	CH	EET MID
Total/NA	Analysis	D2216		1			84545	06/28/24 13:58	CH	EET MID

Client Sample ID: CS 68
Lab Sample ID: 880-45368-51
Date Collected: 06/26/24 12:10
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 78.2

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	84486	06/28/24 11:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 14:33	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	84544	06/28/24 13:57	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84998	07/04/24 22:25	SM	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 69
Lab Sample ID: 880-45368-52
Date Collected: 06/26/24 12:12
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	84493	06/28/24 11:07	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	84713	07/02/24 07:52	CH	EET MID
Total/NA	Analysis	D2216		1			84545	06/28/24 13:58	CH	EET MID

Client Sample ID: CS 69
Lab Sample ID: 880-45368-52
Date Collected: 06/26/24 12:12
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 95.7

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	84486	06/28/24 11:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 16:24	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	84544	06/28/24 13:57	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84998	07/05/24 03:17	SM	EET MID

Client Sample ID: CS 70
Lab Sample ID: 880-45368-53
Date Collected: 06/26/24 12:14
Matrix: Solid
Date Received: 06/27/24 17:40

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	84493	06/28/24 11:07	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	84713	07/02/24 08:07	CH	EET MID
Total/NA	Analysis	D2216		1			84545	06/28/24 13:58	CH	EET MID

Client Sample ID: CS 70
Lab Sample ID: 880-45368-53
Date Collected: 06/26/24 12:14
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 90.7

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	84486	06/28/24 11:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 16:45	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	84544	06/28/24 13:57	TKC	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	84998	07/05/24 01:28	SM	EET MID

Client Sample ID: CS 71
Lab Sample ID: 880-45368-54
Date Collected: 06/26/24 12:16
Matrix: Solid
Date Received: 06/27/24 17:40

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	84493	06/28/24 11:07	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	84713	07/02/24 08:13	CH	EET MID
Total/NA	Analysis	D2216		1			84545	06/28/24 13:58	CH	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 71
Lab Sample ID: 880-45368-54
Date Collected: 06/26/24 12:16
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 92.3

Prep 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	84486	06/28/24 11:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 17:05	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	84544	06/28/24 13:57	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84998	07/05/24 02:35	SM	EET MID

Client Sample ID: CS 72
Lab Sample ID: 880-45368-55
Date Collected: 06/26/24 12:17
Matrix: Solid
Date Received: 06/27/24 17:40

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	84493	06/28/24 11:07	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	84713	07/02/24 08:18	CH	EET MID
Total/NA	Analysis	D2216		1			84545	06/28/24 13:58	CH	EET MID

Client Sample ID: CS 72
Lab Sample ID: 880-45368-55
Date Collected: 06/26/24 12:17
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 91.3

Prep 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	84486	06/28/24 11:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 17:26	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	84544	06/28/24 13:57	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84998	07/04/24 22:46	SM	EET MID

Client Sample ID: CS 73
Lab Sample ID: 880-45368-56
Date Collected: 06/26/24 12:18
Matrix: Solid
Date Received: 06/27/24 17:40

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	84493	06/28/24 11:07	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	84713	07/02/24 08:23	CH	EET MID
Total/NA	Analysis	D2216		1			84545	06/28/24 13:58	CH	EET MID

Client Sample ID: CS 73
Lab Sample ID: 880-45368-56
Date Collected: 06/26/24 12:18
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.7

Prep 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	84486	06/28/24 11:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 17:46	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	84544	06/28/24 13:57	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84998	07/05/24 02:56	SM	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 74
Lab Sample ID: 880-45368-57
Date Collected: 06/26/24 12:20
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	84493	06/28/24 11:07	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	84713	07/02/24 08:28	CH	EET MID
Total/NA	Analysis	D2216		1			84545	06/28/24 13:58	CH	EET MID

Client Sample ID: CS 74
Lab Sample ID: 880-45368-57
Date Collected: 06/26/24 12:20
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 94.8

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	84486	06/28/24 11:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 18:07	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	84544	06/28/24 13:57	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84998	07/04/24 23:07	SM	EET MID

Client Sample ID: CS 75
Lab Sample ID: 880-45368-58
Date Collected: 06/26/24 12:22
Matrix: Solid
Date Received: 06/27/24 17:40

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	84493	06/28/24 11:07	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	84713	07/02/24 08:34	CH	EET MID
Total/NA	Analysis	D2216		1			84545	06/28/24 13:58	CH	EET MID

Client Sample ID: CS 75
Lab Sample ID: 880-45368-58
Date Collected: 06/26/24 12:22
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 96.4

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	84486	06/28/24 11:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 18:27	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	84544	06/28/24 13:57	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84998	07/04/24 23:48	SM	EET MID

Client Sample ID: CS 76
Lab Sample ID: 880-45368-59
Date Collected: 06/26/24 12:24
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	84498	06/28/24 11:11	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	84734	07/02/24 06:59	CH	EET MID
Total/NA	Analysis	D2216		1			84545	06/28/24 13:58	CH	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 76
Lab Sample ID: 880-45368-59
Date Collected: 06/26/24 12:24
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 96.2

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	84486	06/28/24 11:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84450	06/29/24 18:48	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	84544	06/28/24 13:57	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84998	07/05/24 03:37	SM	EET MID

Client Sample ID: CS 89
Lab Sample ID: 880-45368-60
Date Collected: 06/26/24 13:06
Matrix: Solid
Date Received: 06/27/24 17:40

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	84772	07/01/24 16:13	SA	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	84897	07/03/24 19:19	CH	EET MID
Total/NA	Analysis	D2216		1			84816	07/02/24 10:53	SMC	EET MID

Client Sample ID: CS 89
Lab Sample ID: 880-45368-60
Date Collected: 06/26/24 13:06
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 99.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	84945	07/03/24 08:57	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84941	07/03/24 17:40	EL	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	84810	07/02/24 09:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84792	07/03/24 01:27	SM	EET MID

Client Sample ID: CS 79
Lab Sample ID: 880-45368-61
Date Collected: 06/26/24 11:06
Matrix: Solid
Date Received: 06/27/24 17:40

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	84498	06/28/24 11:11	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	84734	07/02/24 07:19	CH	EET MID
Total/NA	Analysis	D2216		1			84545	06/28/24 13:58	CH	EET MID

Client Sample ID: CS 79
Lab Sample ID: 880-45368-61
Date Collected: 06/26/24 11:06
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 95.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	84488	06/28/24 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84448	06/29/24 09:37	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	84544	06/28/24 13:57	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84998	07/05/24 00:09	SM	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 80
Lab Sample ID: 880-45368-62
Date Collected: 06/26/24 11:58
Matrix: Solid
Date Received: 06/27/24 17:40

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	84498	06/28/24 11:11	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	84734	07/02/24 07:26	CH	EET MID
Total/NA	Analysis	D2216		1			84545	06/28/24 13:58	CH	EET MID

Client Sample ID: CS 80
Lab Sample ID: 880-45368-62
Date Collected: 06/26/24 11:58
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 96.6

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	84488	06/28/24 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84448	06/29/24 09:58	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	84544	06/28/24 13:57	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84998	07/05/24 00:29	SM	EET MID

Client Sample ID: CS 81
Lab Sample ID: 880-45368-63
Date Collected: 06/26/24 12:00
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	84498	06/28/24 11:11	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	84734	07/02/24 07:32	CH	EET MID
Total/NA	Analysis	D2216		1			84545	06/28/24 13:58	CH	EET MID

Client Sample ID: CS 81
Lab Sample ID: 880-45368-63
Date Collected: 06/26/24 12:00
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.3

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	84488	06/28/24 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84448	06/29/24 10:18	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	84584	06/28/24 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/29/24 01:34	AJ	EET MID

Client Sample ID: CS 82
Lab Sample ID: 880-45368-64
Date Collected: 06/26/24 12:02
Matrix: Solid
Date Received: 06/27/24 17:40

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	84498	06/28/24 11:11	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	84734	07/02/24 07:39	CH	EET MID
Total/NA	Analysis	D2216		1			84545	06/28/24 13:58	CH	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 82
Lab Sample ID: 880-45368-64
Date Collected: 06/26/24 12:02
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.1

Prep 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	84488	06/28/24 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84448	06/29/24 10:39	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	84584	06/28/24 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/29/24 02:20	AJ	EET MID

Client Sample ID: CS 83
Lab Sample ID: 880-45368-65
Date Collected: 06/26/24 12:04
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	84498	06/28/24 11:11	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	84734	07/02/24 07:59	CH	EET MID
Total/NA	Analysis	D2216		1			84545	06/28/24 13:58	CH	EET MID

Client Sample ID: CS 83
Lab Sample ID: 880-45368-65
Date Collected: 06/26/24 12:04
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.8

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	84488	06/28/24 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84448	06/29/24 10:59	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	84584	06/28/24 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/29/24 02:35	AJ	EET MID

Client Sample ID: CS 84
Lab Sample ID: 880-45368-66
Date Collected: 06/26/24 12:06
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	84498	06/28/24 11:11	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	84734	07/02/24 08:05	CH	EET MID
Total/NA	Analysis	D2216		1			84545	06/28/24 13:58	CH	EET MID

Client Sample ID: CS 84
Lab Sample ID: 880-45368-66
Date Collected: 06/26/24 12:06
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.6

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	84488	06/28/24 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84448	06/29/24 11:20	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	84584	06/28/24 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		10	1 uL	1 uL	84611	06/29/24 02:50	AJ	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 85
Lab Sample ID: 880-45368-67
Date Collected: 06/26/24 12:07
Matrix: Solid
Date Received: 06/27/24 17:40

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	84498	06/28/24 11:11	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84734	07/02/24 08:12	CH	EET MID
Total/NA	Analysis	D2216		1			84545	06/28/24 13:58	CH	EET MID

Client Sample ID: CS 85
Lab Sample ID: 880-45368-67
Date Collected: 06/26/24 12:07
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.6

Prep 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	84488	06/28/24 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84448	06/29/24 11:40	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	84584	06/28/24 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/29/24 03:05	AJ	EET MID

Client Sample ID: CS 86
Lab Sample ID: 880-45368-68
Date Collected: 06/26/24 12:19
Matrix: Solid
Date Received: 06/27/24 17:40

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	84498	06/28/24 11:11	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	84734	07/02/24 08:19	CH	EET MID
Total/NA	Analysis	D2216		1			84545	06/28/24 13:58	CH	EET MID

Client Sample ID: CS 86
Lab Sample ID: 880-45368-68
Date Collected: 06/26/24 12:19
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 96.6

Prep 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	84488	06/28/24 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84448	06/29/24 12:01	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	84584	06/28/24 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/29/24 03:22	AJ	EET MID

Client Sample ID: CS 87
Lab Sample ID: 880-45368-69
Date Collected: 06/26/24 12:10
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	84498	06/28/24 11:11	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84734	07/02/24 08:25	CH	EET MID
Total/NA	Analysis	D2216		1			84546	06/28/24 13:59	CH	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 87
Lab Sample ID: 880-45368-69
Date Collected: 06/26/24 12:10
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.3

Prep 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	84488	06/28/24 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84448	06/29/24 12:21	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	84584	06/28/24 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/29/24 03:37	AJ	EET MID

Client Sample ID: CS 88
Lab Sample ID: 880-45368-70
Date Collected: 06/26/24 12:12
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	84498	06/28/24 11:11	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84734	07/02/24 08:32	CH	EET MID
Total/NA	Analysis	D2216		1			84546	06/28/24 13:59	CH	EET MID

Client Sample ID: CS 88
Lab Sample ID: 880-45368-70
Date Collected: 06/26/24 12:12
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.3

Prep 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	84488	06/28/24 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84448	06/29/24 12:41	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	84584	06/28/24 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/29/24 03:52	AJ	EET MID

Client Sample ID: CS 90
Lab Sample ID: 880-45368-71
Date Collected: 06/26/24 13:16
Matrix: Solid
Date Received: 06/27/24 17:40

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	84498	06/28/24 11:11	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	84734	07/02/24 08:52	CH	EET MID
Total/NA	Analysis	D2216		1			84546	06/28/24 13:59	CH	EET MID

Client Sample ID: CS 90
Lab Sample ID: 880-45368-71
Date Collected: 06/26/24 13:16
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	84488	06/28/24 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84448	06/29/24 14:16	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	84584	06/28/24 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/29/24 04:07	AJ	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 91
Lab Sample ID: 880-45368-72
Date Collected: 06/26/24 11:39
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	84498	06/28/24 11:11	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	84734	07/02/24 08:59	CH	EET MID
Total/NA	Analysis	D2216		1			84546	06/28/24 13:59	CH	EET MID

Client Sample ID: CS 91
Lab Sample ID: 880-45368-72
Date Collected: 06/26/24 11:39
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.0

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	84488	06/28/24 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84448	06/29/24 14:36	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	84584	06/28/24 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/29/24 04:22	AJ	EET MID

Client Sample ID: CS 92
Lab Sample ID: 880-45368-73
Date Collected: 06/26/24 11:41
Matrix: Solid
Date Received: 06/27/24 17:40

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	84498	06/28/24 11:11	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	84734	07/02/24 09:18	CH	EET MID
Total/NA	Analysis	D2216		1			84546	06/28/24 13:59	CH	EET MID

Client Sample ID: CS 92
Lab Sample ID: 880-45368-73
Date Collected: 06/26/24 11:41
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.1

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	84488	06/28/24 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84448	06/29/24 14:56	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	84584	06/28/24 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/29/24 04:54	AJ	EET MID

Client Sample ID: CS 93
Lab Sample ID: 880-45368-74
Date Collected: 06/26/24 11:43
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	84498	06/28/24 11:11	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	84734	07/02/24 09:25	CH	EET MID
Total/NA	Analysis	D2216		1			84546	06/28/24 13:59	CH	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 93
Lab Sample ID: 880-45368-74
Date Collected: 06/26/24 11:43
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.9

Prep 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	84488	06/28/24 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84448	06/29/24 15:17	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	84584	06/28/24 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/29/24 05:09	AJ	EET MID

Client Sample ID: CS 94
Lab Sample ID: 880-45368-75
Date Collected: 06/26/24 11:45
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	84498	06/28/24 11:11	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	84734	07/02/24 09:32	CH	EET MID
Total/NA	Analysis	D2216		1			84546	06/28/24 13:59	CH	EET MID

Client Sample ID: CS 94
Lab Sample ID: 880-45368-75
Date Collected: 06/26/24 11:45
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.1

Prep 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	84488	06/28/24 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84448	06/29/24 15:37	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	84584	06/28/24 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/29/24 05:25	AJ	EET MID

Client Sample ID: CS 95
Lab Sample ID: 880-45368-76
Date Collected: 06/26/24 11:47
Matrix: Solid
Date Received: 06/27/24 17:40

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	84498	06/28/24 11:11	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	84734	07/02/24 09:38	CH	EET MID
Total/NA	Analysis	D2216		1			84546	06/28/24 13:59	CH	EET MID

Client Sample ID: CS 95
Lab Sample ID: 880-45368-76
Date Collected: 06/26/24 11:47
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.7

Prep 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	84488	06/28/24 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84448	06/29/24 15:58	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	84584	06/28/24 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/29/24 05:39	AJ	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 96
Lab Sample ID: 880-45368-77
Date Collected: 06/26/24 11:49
Matrix: Solid
Date Received: 06/27/24 17:40

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	84498	06/28/24 11:11	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84734	07/02/24 09:45	CH	EET MID
Total/NA	Analysis	D2216		1			84546	06/28/24 13:59	CH	EET MID

Client Sample ID: CS 96
Lab Sample ID: 880-45368-77
Date Collected: 06/26/24 11:49
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.1

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	84488	06/28/24 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84448	06/29/24 16:18	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	84584	06/28/24 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/29/24 05:55	AJ	EET MID

Client Sample ID: CS 97
Lab Sample ID: 880-45368-78
Date Collected: 06/26/24 11:51
Matrix: Solid
Date Received: 06/27/24 17:40

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	84498	06/28/24 11:11	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	84734	07/02/24 09:52	CH	EET MID
Total/NA	Analysis	D2216		1			84546	06/28/24 13:59	CH	EET MID

Client Sample ID: CS 97
Lab Sample ID: 880-45368-78
Date Collected: 06/26/24 11:51
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.8

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	84488	06/28/24 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84448	06/29/24 16:39	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	84584	06/28/24 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/29/24 06:10	AJ	EET MID

Client Sample ID: CS 101
Lab Sample ID: 880-45368-79
Date Collected: 06/26/24 13:18
Matrix: Solid
Date Received: 06/27/24 17:40

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	84502	06/28/24 11:15	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	84722	07/02/24 00:34	CH	EET MID
Total/NA	Analysis	D2216		1			84546	06/28/24 13:59	CH	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 101
Lab Sample ID: 880-45368-79
Date Collected: 06/26/24 13:18
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 96.8

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	84488	06/28/24 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84448	06/29/24 16:59	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	84584	06/28/24 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/29/24 06:25	AJ	EET MID

Client Sample ID: CS 102
Lab Sample ID: 880-45368-80
Date Collected: 06/26/24 13:20
Matrix: Solid
Date Received: 06/27/24 17:40

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	84502	06/28/24 11:15	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	84722	07/02/24 00:54	CH	EET MID
Total/NA	Analysis	D2216		1			84546	06/28/24 13:59	CH	EET MID

Client Sample ID: CS 102
Lab Sample ID: 880-45368-80
Date Collected: 06/26/24 13:20
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.1

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	84488	06/28/24 11:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84448	06/29/24 17:20	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	84584	06/28/24 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/29/24 06:40	AJ	EET MID

Client Sample ID: CS 103
Lab Sample ID: 880-45368-81
Date Collected: 06/26/24 13:22
Matrix: Solid
Date Received: 06/27/24 17:40

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	84502	06/28/24 11:15	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	84722	07/02/24 01:01	CH	EET MID
Total/NA	Analysis	D2216		1			84546	06/28/24 13:59	CH	EET MID

Client Sample ID: CS 103
Lab Sample ID: 880-45368-81
Date Collected: 06/26/24 13:22
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	84640	06/30/24 18:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84639	07/01/24 04:00	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	84584	06/28/24 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/29/24 06:55	AJ	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 104
Lab Sample ID: 880-45368-82
Date Collected: 06/26/24 13:24
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	84502	06/28/24 11:15	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	84722	07/02/24 01:08	CH	EET MID
Total/NA	Analysis	D2216		1			84546	06/28/24 13:59	CH	EET MID

Client Sample ID: CS 104
Lab Sample ID: 880-45368-82
Date Collected: 06/26/24 13:24
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.2

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	84640	06/30/24 18:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84639	07/01/24 04:21	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	84584	06/28/24 16:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84611	06/29/24 07:10	AJ	EET MID

Client Sample ID: CS 105
Lab Sample ID: 880-45368-83
Date Collected: 06/26/24 13:26
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	84502	06/28/24 11:15	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	84722	07/02/24 01:14	CH	EET MID
Total/NA	Analysis	D2216		1			84546	06/28/24 13:59	CH	EET MID

Client Sample ID: CS 105
Lab Sample ID: 880-45368-83
Date Collected: 06/26/24 13:26
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.6

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	84640	06/30/24 18:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84639	07/01/24 04:41	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	84594	06/28/24 16:24	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84647	07/01/24 11:44	SM	EET MID

Client Sample ID: CS 106
Lab Sample ID: 880-45368-84
Date Collected: 06/26/24 13:28
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	84502	06/28/24 11:15	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	84722	07/02/24 01:34	CH	EET MID
Total/NA	Analysis	D2216		1			84546	06/28/24 13:59	CH	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 106
Lab Sample ID: 880-45368-84
Date Collected: 06/26/24 13:28
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 99.3

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	84640	06/30/24 18:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84639	07/01/24 05:02	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	84585	06/28/24 16:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84626	06/29/24 16:04	SM	EET MID

Client Sample ID: CS 107
Lab Sample ID: 880-45368-85
Date Collected: 06/25/24 13:30
Matrix: Solid
Date Received: 06/27/24 17:40

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	84502	06/28/24 11:15	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84722	07/02/24 01:41	CH	EET MID
Total/NA	Analysis	D2216		1			84546	06/28/24 13:59	CH	EET MID

Client Sample ID: CS 107
Lab Sample ID: 880-45368-85
Date Collected: 06/25/24 13:30
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 99.4

Prep 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	84495	06/28/24 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84457	06/29/24 15:37	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	84585	06/28/24 16:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84626	06/29/24 16:24	SM	EET MID

Client Sample ID: CS 113
Lab Sample ID: 880-45368-87
Date Collected: 06/25/24 13:34
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	84502	06/28/24 11:15	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	84722	07/02/24 01:47	CH	EET MID
Total/NA	Analysis	D2216		1			84546	06/28/24 13:59	CH	EET MID

Client Sample ID: CS 113
Lab Sample ID: 880-45368-87
Date Collected: 06/25/24 13:34
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 94.5

Prep 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	84495	06/28/24 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84457	06/29/24 15:57	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	84585	06/28/24 16:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84626	06/29/24 16:43	SM	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 114
Lab Sample ID: 880-45368-88
Date Collected: 06/25/24 13:36
Matrix: Solid
Date Received: 06/27/24 17:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	84502	06/28/24 11:15	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	84722	07/02/24 01:54	CH	EET MID
Total/NA	Analysis	D2216		1			84546	06/28/24 13:59	CH	EET MID

Client Sample ID: CS 114
Lab Sample ID: 880-45368-88
Date Collected: 06/25/24 13:36
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	84495	06/28/24 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84457	06/29/24 16:18	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	84585	06/28/24 16:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84626	06/29/24 17:03	SM	EET MID

Client Sample ID: CS 115
Lab Sample ID: 880-45368-89
Date Collected: 06/25/24 13:38
Matrix: Solid
Date Received: 06/27/24 17:40

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	84502	06/28/24 11:15	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84722	07/02/24 02:01	CH	EET MID
Total/NA	Analysis	D2216		1			84546	06/28/24 13:59	CH	EET MID

Client Sample ID: CS 115
Lab Sample ID: 880-45368-89
Date Collected: 06/25/24 13:38
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 95.5

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	84495	06/28/24 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84457	06/29/24 16:38	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	84446	06/28/24 08:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84620	06/29/24 17:15	SM	EET MID

Client Sample ID: CS 116
Lab Sample ID: 880-45368-90
Date Collected: 06/25/24 13:40
Matrix: Solid
Date Received: 06/27/24 17:40

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	84502	06/28/24 11:15	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	84722	07/02/24 02:07	CH	EET MID
Total/NA	Analysis	D2216		1			84547	06/28/24 14:01	CH	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Client Sample ID: CS 116
Lab Sample ID: 880-45368-90
Date Collected: 06/25/24 13:40
Matrix: Solid
Date Received: 06/27/24 17:40
Percent Solids: 97.8

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	84495	06/28/24 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84457	06/29/24 16:59	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	84446	06/28/24 08:19	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84620	06/29/24 17:35	SM	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Civil & Environmental Consultants Inc Job ID: 880-45368-1
Project/Site: Seawolf 1 12 Fed #094Y

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

Method Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
D2216	Percent Moisture	ASTM	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-45368-1	CS 117	Solid	06/25/24 13:50	06/27/24 17:40
880-45368-2	CS 7	Solid	06/25/24 13:27	06/27/24 17:40
880-45368-3	CS 8	Solid	06/25/24 13:29	06/27/24 17:40
880-45368-4	CS 112	Solid	06/26/24 13:42	06/27/24 17:40
880-45368-5	CS 118	Solid	06/26/24 13:52	06/27/24 17:40
880-45368-6	CS 15	Solid	06/26/24 13:21	06/27/24 17:40
880-45368-7	CS 16	Solid	06/26/24 13:23	06/27/24 17:40
880-45368-8	CS 17	Solid	06/26/24 13:25	06/27/24 17:40
880-45368-9	CS 18	Solid	06/26/24 13:27	06/27/24 17:40
880-45368-10	CS 19	Solid	06/26/24 13:29	06/27/24 17:40
880-45368-11	CS 20	Solid	06/26/24 13:31	06/27/24 17:40
880-45368-12	CS 25	Solid	06/26/24 13:11	06/27/24 17:40
880-45368-13	CS 26	Solid	06/26/24 13:13	06/27/24 17:40
880-45368-14	CS 27	Solid	06/26/24 13:15	06/27/24 17:40
880-45368-15	CS 28	Solid	06/26/24 13:16	06/27/24 17:40
880-45368-16	CS 29	Solid	06/26/24 13:18	06/27/24 17:40
880-45368-17	CS 30	Solid	06/26/24 13:20	06/27/24 17:40
880-45368-18	CS 31	Solid	06/26/24 13:22	06/27/24 17:40
880-45368-19	CS 32	Solid	06/26/24 13:24	06/27/24 17:40
880-45368-20	CS 35	Solid	06/26/24 00:00	06/27/24 17:40
880-45368-21	CS 36	Solid	06/26/24 12:57	06/27/24 17:40
880-45368-22	CS 37	Solid	06/26/24 12:59	06/27/24 17:40
880-45368-23	CS 38	Solid	06/26/24 13:01	06/27/24 17:40
880-45368-24	CS 39	Solid	06/26/24 13:03	06/27/24 17:40
880-45368-25	CS 40	Solid	06/26/24 13:05	06/27/24 17:40
880-45368-26	CS 41	Solid	06/26/24 13:07	06/27/24 17:40
880-45368-27	CS 42	Solid	06/26/24 13:09	06/27/24 17:40
880-45368-28	CS 43	Solid	06/26/24 13:11	06/27/24 17:40
880-45368-29	CS 45	Solid	06/26/24 13:08	06/27/24 17:40
880-45368-30	CS 46	Solid	06/26/24 12:39	06/27/24 17:40
880-45368-31	CS 47	Solid	06/26/24 12:41	06/27/24 17:40
880-45368-32	CS 48	Solid	06/26/24 12:43	06/27/24 17:40
880-45368-33	CS 49	Solid	06/26/24 12:44	06/27/24 17:40
880-45368-34	CS 50	Solid	06/26/24 12:46	06/27/24 17:40
880-45368-35	CS 51	Solid	06/26/24 12:47	06/27/24 17:40
880-45368-36	CS 52	Solid	06/26/24 12:48	06/27/24 17:40
880-45368-37	CS 53	Solid	06/26/24 12:49	06/27/24 17:40
880-45368-38	CS 54	Solid	06/26/24 12:50	06/27/24 17:40
880-45368-39	CS 55	Solid	06/26/24 12:51	06/27/24 17:40
880-45368-40	CS 57	Solid	06/26/24 12:25	06/27/24 17:40
880-45368-41	CS 58	Solid	06/26/24 12:27	06/27/24 17:40
880-45368-43	CS 60	Solid	06/26/24 12:31	06/27/24 17:40
880-45368-44	CS 61	Solid	06/26/24 12:32	06/27/24 17:40
880-45368-45	CS 62	Solid	06/26/24 12:32	06/27/24 17:40
880-45368-46	CS 63	Solid	06/26/24 12:36	06/27/24 17:40
880-45368-47	CS 64	Solid	06/26/24 12:37	06/27/24 17:40
880-45368-48	CS 65	Solid	06/26/24 12:38	06/27/24 17:40
880-45368-49	CS 66	Solid	06/26/24 12:39	06/27/24 17:40
880-45368-50	CS 67	Solid	06/26/24 13:12	06/27/24 17:40
880-45368-51	CS 68	Solid	06/26/24 12:10	06/27/24 17:40
880-45368-52	CS 69	Solid	06/26/24 12:12	06/27/24 17:40
880-45368-53	CS 70	Solid	06/26/24 12:14	06/27/24 17:40
880-45368-54	CS 71	Solid	06/26/24 12:16	06/27/24 17:40
880-45368-55	CS 72	Solid	06/26/24 12:17	06/27/24 17:40

Sample Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Fed #094Y

Job ID: 880-45368-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-45368-56	CS 73	Solid	06/26/24 12:18	06/27/24 17:40
880-45368-57	CS 74	Solid	06/26/24 12:20	06/27/24 17:40
880-45368-58	CS 75	Solid	06/26/24 12:22	06/27/24 17:40
880-45368-59	CS 76	Solid	06/26/24 12:24	06/27/24 17:40
880-45368-60	CS 89	Solid	06/26/24 13:06	06/27/24 17:40
880-45368-61	CS 79	Solid	06/26/24 11:06	06/27/24 17:40
880-45368-62	CS 80	Solid	06/26/24 11:58	06/27/24 17:40
880-45368-63	CS 81	Solid	06/26/24 12:00	06/27/24 17:40
880-45368-64	CS 82	Solid	06/26/24 12:02	06/27/24 17:40
880-45368-65	CS 83	Solid	06/26/24 12:04	06/27/24 17:40
880-45368-66	CS 84	Solid	06/26/24 12:06	06/27/24 17:40
880-45368-67	CS 85	Solid	06/26/24 12:07	06/27/24 17:40
880-45368-68	CS 86	Solid	06/26/24 12:19	06/27/24 17:40
880-45368-69	CS 87	Solid	06/26/24 12:10	06/27/24 17:40
880-45368-70	CS 88	Solid	06/26/24 12:12	06/27/24 17:40
880-45368-71	CS 90	Solid	06/26/24 13:16	06/27/24 17:40
880-45368-72	CS 91	Solid	06/26/24 11:39	06/27/24 17:40
880-45368-73	CS 92	Solid	06/26/24 11:41	06/27/24 17:40
880-45368-74	CS 93	Solid	06/26/24 11:43	06/27/24 17:40
880-45368-75	CS 94	Solid	06/26/24 11:45	06/27/24 17:40
880-45368-76	CS 95	Solid	06/26/24 11:47	06/27/24 17:40
880-45368-77	CS 96	Solid	06/26/24 11:49	06/27/24 17:40
880-45368-78	CS 97	Solid	06/26/24 11:51	06/27/24 17:40
880-45368-79	CS 101	Solid	06/26/24 13:18	06/27/24 17:40
880-45368-80	CS 102	Solid	06/26/24 13:20	06/27/24 17:40
880-45368-81	CS 103	Solid	06/26/24 13:22	06/27/24 17:40
880-45368-82	CS 104	Solid	06/26/24 13:24	06/27/24 17:40
880-45368-83	CS 105	Solid	06/26/24 13:26	06/27/24 17:40
880-45368-84	CS 106	Solid	06/26/24 13:28	06/27/24 17:40
880-45368-85	CS 107	Solid	06/25/24 13:30	06/27/24 17:40
880-45368-87	CS 113	Solid	06/25/24 13:34	06/27/24 17:40
880-45368-88	CS 114	Solid	06/25/24 13:36	06/27/24 17:40
880-45368-89	CS 115	Solid	06/25/24 13:38	06/27/24 17:40
880-45368-90	CS 116	Solid	06/25/24 13:40	06/27/24 17:40

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler:	Lab PM: Richter, Travis W	Carrier Tracking No(s):	COC No: 880-9739-1364.1
Client Contact: Mr Travis Montgomery	Phone:	E-Mail: Travis.Richter@et.eurofinsus.com	State of Origin:	Page: Page 1 of 9
Company: Civil & Environmental Consultants Inc	PWSID:	Analysis Requested		Job #: 453680
Address: 700 Cherrington Parkway	Due Date Requested:			Preservation Codes: N - None
City: Moon Township	TAT Requested (days):			
State, Zip: PA, 15108	Compliance Project: Δ Yes Δ No			
Phone: 800-365-2324(Tel)	PO #: 21126164			
Email: tmontgomery@cecinc.com	WO #: 331-073			
Project Name: SEAWOLF 1 12 FED #094Y	Project #: 88001737			
Site:	SSOW#:			Other:

880-45368 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D - Chloride	8015MOD_NM - Full TPH	8021B - BTEX	MOISTURE_2540G - Local Method	Total Number of contain	Special Instructions/Note:
			Preservation Code:				N	N	N	N		
CS 117	6/25/24	13:50	C	Solid			X	X	X	X		
				Solid								
CS 7	6/26/24	13:27	C	Solid			X	X	X	X		
CS 8	6/26/24	13:29	C	Solid			X	X	X	X		
CS 112	6/25/24	13:42	C	Solid			X	X	X	X		
CS 118	6/25/24	13:52	C	Solid			X	X	X	X		
CS 15	6/26/24	13:21	C	Solid			X	X	X	X		
CS 16	"	13:23	C	Solid			X	X	X	X		
CS 17	"	13:25	C	Solid			X	X	X	X		
CS 18	"	13:27	C	Solid			X	X	X	X		
CS 19	"	13:29	C	Solid			X	X	X	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
M Montgomery	6/27/24 17:40	CEC		6/27/24 17:40	Eurofins
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.2/3.1

Ver: 04/02/2024

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7/5/2024
Page 153 of 162
Released to Imaging: 12/27/2024 8:50:37 AM

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler:	Lab PM: Richter, Travis W	Carrier Tracking No(s):	COC No: 880-9739-1364.2
Client Contact: Mr. Travis Montgomery	Phone:	E-Mail: Travis.Richter@et.eurofinsus.com	State of Origin:	Page: Page 2 of 9
Company: Civil & Environmental Consultants Inc	PWSID:	Analysis Requested		Job #: 45368
Address: 700 Cherrington Parkway	Due Date Requested:			Preservation Codes: N - None
City: Moon Township	TAT Requested (days):			
State, Zip: PA, 15108	Compliance Project: Δ Yes Δ No			
Phone: 800-365-2324(Tel)	PO #:			
Email: tmontgomery@cecinc.com	WO #:			
Project Name: SEAWOLF 1 12 FED #094Y	Project #: 88001737			Other:
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D - Chloride	8015MOD_NM - Full TPH	8021B - BTEX	MOISTURE_2540G - Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N		
CS 20	6/26/24	13:31	C	Solid			X	X	X	X		
				Solid								
	"			Solid								
CS 25	"	13:11	C	Solid			X	X	X	X		
CS 26	"	13:13	C	Solid			X	X	X	X		
CS 27	"	13:15	C	Solid			X	X	X	X		
CS 28	"	13:16	C	Solid			X	X	X	X		
CS 29	"	13:18	C	Solid			X	X	X	X		
CS 30	"	13:20	C	Solid			X	X	X	X		
CS 31	"	13:22	C	Solid			X	X	X	X		
CS 32	"	13:24	C	Solid			X	X	X	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by: M Montgomery	Date/Time: 6/27/24 17:40	Company: CEC	Received by:	Date/Time: 6/27/24 17:40	Company: Eurofins	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.2 / 3.1

Ver: 04/02/2024

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Received by OCD: 12/18/2024 11:14:17 AM
7/5/2024
Page 154 of 162
Released to Imaging: 12/27/2024 8:50:37 AM

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler:	Lab PM: Richter, Travis W	Carrier Tracking No(s):	COC No: 880-9739-1364.3
Client Contact: Mr. Travis Montgomery	Phone:	E-Mail: Travis.Richter@et.eurofinsus.com	State of Origin:	Page: Page 3 of 9
Company: Civil & Environmental Consultants Inc	PWSID:			Job #: 453698

Address: 700 Cherrington Parkway	Due Date Requested:
City: Moon Township	TAT Requested (days):
State, Zip: PA, 15108	Compliance Project: Δ Yes Δ No
Phone: 800-365-2324(Tel)	PO #:
Email: tmontgomery@cecinc.com	WO #:
Project Name: SEAWOLF 1 12 FED #094Y	Project #: 88001737
Site:	SSOW#:

Analysis Requested

Preservation Codes: N - None; Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D - Chloride	8015MOD_NM - Full TPH	8021B - BTEX	MOISTURE_2540G - Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N		
				Solid								
CS 35	6/26/24			Solid			X	X	X	X		
CS 36	"	12:57	C	Solid			X	X	X	X		
CS 37	"	12:59	C	Solid			X	X	X	X		
CS 38	"	13:01	C	Solid			X	X	X	X		
CS 39	"	13:03	C	Solid			X	X	X	X		
CS 40	"	13:05	C	Solid			X	X	X	X		
CS 41	"	13:07	C	Solid			X	X	X	X		
CS 42	"	13:09	C	Solid			X	X	X	X		
CS 43	"	13:11	C	Solid			X	X	X	X		
	"			Solid								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	6/27/24 17:40	CEC	[signature]	6/27/24 17:40	Eurofins
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.2 / 3.1

Ver: 04/02/2024

Received by OCD: 12/18/2024 11:14:17 AM
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7/5/2024
Released to Imaging: 12/27/2024 8:50:37 AM

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler:	Lab PM: Richter, Travis W	Carrier Tracking No(s):	COC No: 880-9739-1364.4
Client Contact: Mr. Travis Montgomery	Phone:	E-Mail: Travis.Richter@et.eurofinsus.com	State of Origin:	Page: Page 4 of 9
Company: Civil & Environmental Consultants Inc	PWSID:			Job #: 453680
Address: 700 Cherrington Parkway	Due Date Requested:			
City: Moon Township	TAT Requested (days):			
State, Zip: PA, 15108	Compliance Project: Δ Yes Δ No			
Phone: 800-365-2324(Tel)	PO #:			
Email: tmontgomery@cecinc.com	WO #:			
Project Name: SEAWOLF 1 12 FED #094Y	Project #: 88001737			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: N - None

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D - Chloride	8015MOD_NM - Full TPH	8021B - BTEX	MOISTURE_2540G - Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N		
CS 45	6/26/24	12:08	C	Solid			X	X	X	X		
CS 46	6/26/24	12:39	C	Solid			X	X	X	X		
CS 47	"	12:41	C	Solid			X	X	X	X		
CS 48	"	12:43	C	Solid			X	X	X	X		
CS 49	"	12:44	C	Solid			X	X	X	X		
CS 50	"	12:46	C	Solid			X	X	X	X		
CS 51	"	12:47	C	Solid			X	X	X	X		
CS 52	"	12:48	C	Solid			X	X	X	X		
CS 53	"	12:49	C	Solid			X	X	X	X		
CS 54	"	12:50	C	Solid			X	X	X	X		
CS 55	"	12:51	C	Solid			X	X	X	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	6/27/24 17:40	CEC	[signature]	6/27/24 17:40	Eurofins
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.2/3.1

Ver: 04/02/2024

Received by OCD: 12/18/2024 11:14:17 AM

Released to Imaging: 12/27/2024 8:50:37 AM

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler:	Lab PM: Richter, Travis W	Carrier Tracking No(s):	COC No: 880-9739-1364.5
Client Contact: Mr. Travis Montgomery	Phone:	E-Mail: Travis.Richter@et.eurofinsus.com	State of Origin:	Page: Page 5 of 9
Company: Civil & Environmental Consultants Inc	PWSID:			Job #: 453690
Address: 700 Cherrington Parkway	Due Date Requested:			
City: Moon Township	TAT Requested (days):			
State, Zip: PA, 15108	Compliance Project: Δ Yes Δ No			
Phone: 800-365-2324(Tel)	PO #:			
Email: tmontgomery@cecinc.com	WO #:			
Project Name: SEAWOLF 1 12 FED #094Y	Project #: 88001737			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: N - None

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D - Chloride	8015MOD_NM - Full TPH	8021B - BTEX	MOISTURE_2540G - Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N		
				Solid								
CS 57	6/26/24	12:25	C	Solid			X	X	X	X		
CS 58	"	12:27	C	Solid			X	X	X	X		
CS 59	"	12:29	C	Solid			X	X	X	X		
CS 60	"	12:31	C	Solid			X	X	X	X		
CS 61	"	12:33	C	Solid			X	X	X	X		
CS 62	"	12:34	C	Solid			X	X	X	X		
CS 63	"	12:36	C	Solid			X	X	X	X		
CS 64	"	12:37	C	Solid			X	X	X	X		
CS 65	"	12:38	C	Solid			X	X	X	X		
CS 66	"	12:39	C	Solid			X	X	X	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	6/27/24 17:40	CEC	[signature]	6/27/24 17:40	Eurofins
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.2/3.1

Ver: 04/02/2024

Received by OCD: 12/18/2024 11:14:17 AM
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7/5/2024
Released to Imaging: 12/27/2024 8:50:37 AM

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler:	Lab PM: Richter, Travis W	Carrier Tracking No(s):	COC No: 880-9739-1364.6
Client Contact: Mr. Travis Montgomery	Phone:	E-Mail: Travis.Richter@et.eurofinsus.com	State of Origin:	Page: Page 6 of 9
Company: Civil & Environmental Consultants Inc	PWSID:	Analysis Requested		Job #: 453609
Address: 700 Cherrington Parkway	Due Date Requested:			Preservation Codes: N - None
City: Moon Township	TAT Requested (days):			
State, Zip: PA, 15108	Compliance Project: Δ Yes Δ No			
Phone: 800-365-2324(Tel)	PO #:			
Email: tmontgomery@cecinc.com	WO #:			Other:
Project Name: SEAWOLF 1 12 FED #094Y	Project #: 88001737			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D - Chloride	8015MOD_NM - Full TPH	8021B - BTEX	MOISTURE_2540G - Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N		
CS 67	6/25/24	12:12	C	Solid			X	X	X	X		
CS 68	6/25/24	12:10	C	Solid			X	X	X	X		
CS 69	"	12:12	C	Solid			X	X	X	X		
CS 70	"	12:14	C	Solid			X	X	X	X		
CS 71	"	12:16	C	Solid			X	X	X	X		
CS 72	"	12:17	C	Solid			X	X	X	X		
CS 73	"	12:18	C	Solid			X	X	X	X		
CS 74	"	12:20	C	Solid			X	X	X	X		
CS 75	"	12:22	C	Solid			X	X	X	X		
CS 76	"	12:24	C	Solid			X	X	X	X		
				Solid								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	6/27/24 17:40	CEC	[signature]	6/27/24 17:40	
2						
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.2/3.1

Ver: 04/02/2024

Received by OCD: 12/18/2024 11:14:17 AM
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Released to Imaging: 12/27/2024 8:50:37 AM

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler:	Lab PM: Richter, Travis W	Carrier Tracking No(s):	COC No: 880-9739-1364.7
Client Contact: Mr. Travis Montgomery	Phone:	E-Mail: Travis.Richter@et.eurofinsus.com	State of Origin:	Page: Page 7 of 9
Company: Civil & Environmental Consultants Inc	PWSID:			Job #: 453682
Address: 700 Cherrington Parkway	Due Date Requested:			
City: Moon Township	TAT Requested (days):			
State, Zip: PA, 15108	Compliance Project: Δ Yes Δ No			
Phone: 800-365-2324(Tel)	PO #:			
Email: tmontgomery@cecinc.com	WO #:			
Project Name: SEAWOLF 1 12 FED #094Y	Project #: 88001737			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: N - None; Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D - Chloride	8015MOD_NM - Full TPH	8021B - BTEX	MOISTURE_2540G - Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N		
CS 78	6/25/24	13:06	C	Solid			X	X	X	X		
CS 79	6/26/24	11:56	C	Solid			X	X	X	X		
CS 80	"	11:58	C	Solid			X	X	X	X		
CS 81	"	12:00	C	Solid			X	X	X	X		
CS 82	"	12:02	C	Solid			X	X	X	X		
CS 83	"	12:04	C	Solid			X	X	X	X		
CS 84	"	12:06	C	Solid			X	X	X	X		
CS 85	"	12:07	C	Solid			X	X	X	X		
CS 86	"	12:09	C	Solid			X	X	X	X		
CS 87	"	12:10	C	Solid			X	X	X	X		
CS 88	"	12:12	C	Solid			X	X	X	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	6/27/24 17:40	CEC	[signature]	6/27/24 17:40	Eurofins
2						
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.2/3.1

Ver: 04/02/2024

Received by OCD: 12/18/2024 11:14:17 AM
Released to Imaging: 12/27/2024 8:50:37 AM
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Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Phone (432) 704-5440

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler:	Lab PM: Richter, Travis W	Carrier Tracking No(s):	COC No: 880-9739-1364.8
Client Contact: Mr. Travis Montgomery	Phone:	E-Mail: Travis.Richter@et.eurofinsus.com	State of Origin:	Page: Page 8 of 9
Company: Civil & Environmental Consultants Inc	PWSID:			Job #: 453688
Address: 700 Cherrington Parkway	Due Date Requested:			
City: Moon Township	TAT Requested (days):			
State, Zip: PA, 15108	Compliance Project: Δ Yes Δ No			
Phone: 800-365-2324(Tel)	PO #:			
Email: tmontgomery@cecinc.com	WO #:			
Project Name: SEAWOLF 1 12 FED #094Y	Project #: 88001737			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: N - None

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D - Chloride	8015MOD_NM - Full TPH	8021B - BTEX	MOISTURE_2540G - Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N		
				Solid								
CS 90	6/25/24	13:16	C	Solid			X	X	X	X		
CS 91	6/26/24	11:39	C	Solid			X	X	X	X		
CS 92	"	11:41	C	Solid			X	X	X	X		
CS 93	"	11:43	C	Solid			X	X	X	X		
CS 94	"	11:45	C	Solid			X	X	X	X		
CS 95	"	11:47	C	Solid			X	X	X	X		
CS 96	"	11:49	C	Solid			X	X	X	X		
CS 97	"	11:51	C	Solid			X	X	X	X		
				Solid								
CS 101	6/25/24	15:18	C	Solid			X	X	X	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	6/27/24 17:40	CEC	[signature]	6/27/24 17:40	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.2/3.1

Ver: 04/02/2024

Received by OCD: 12/18/2024 11:14:17 AM
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Released to Imaging: 12/27/2024 8:50:37 AM

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler:	Lab PM: Richter, Travis W	Carrier Tracking No(s):	COC No: 880-9739-1364.9
Client Contact: Mr. Travis Montgomery	Phone:	E-Mail: Travis.Richter@et.eurofinsus.com	State of Origin:	Page: Page 9 of 9
Company: Civil & Environmental Consultants Inc	PWSID:	Analysis Requested		Job #: 453668
Address: 700 Cherrington Parkway	Due Date Requested:			Preservation Codes: N - None
City: Moon Township	TAT Requested (days):			
State, Zip: PA, 15108	Compliance Project: Δ Yes Δ No			
Phone: 800-365-2324(Tel)	PO #:			
Email: tmontgomery@cecinc.com	WO #:			
Project Name: SEAWOLF 1 12 FED #094Y	Project #: 88001737			
Site:	SSOW#:			Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D - Chloride	8015MOD_NM - Full TPH	8021B - BTEX	MOISTURE_2540G - Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N		
CS 102	6/25/24	13:20	C	Solid			X	X	X	X		
CS 103	"	13:22	C	Solid			X	X	X	X		
CS 104	"	13:24	C	Solid			X	X	X	X		
CS 105	"	13:26	C	Solid			X	X	X	X		
CS 106	"	13:28	C	Solid			X	X	X	X		
CS 107	"	13:30	C	Solid			X	X	X	X		
CS 108	"	13:32	C	Solid			X	X	X	X		
CS 113	"	13:34	C	Solid			X	X	X	X		
CS 114	"	13:36	C	Solid			X	X	X	X		
CS 115	"	13:38	C	Solid			X	X	X	X		
CS 116	"	13:40	C	Solid			X	X	X	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	6/27/24 17:40	CEC	[signature]	6/27/24 17:40	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.2/3.1

Ver: 04/02/2024

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Released to Imaging: 12/27/2024 8:50:37 AM

Login Sample Receipt Checklist

Client: Civil & Environmental Consultants Inc

Job Number: 880-45368-1

Login Number: 45368

List Source: Eurofins Midland

List Number: 1

Creator: Kramer, Jessica

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.	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").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Laura Campbell
Civil & Environmental Consultants Inc
700 Cherrington Parkway
Moon Township, Pennsylvania 15108

Generated 10/7/2024 3:44:07 PM

JOB DESCRIPTION

Seawolf 94Y

JOB NUMBER

880-49315-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 12/27/2024 8:30:37 AM

my EOL

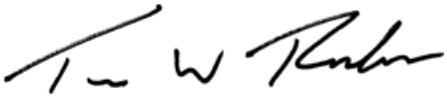
Eurofins Midland

Job Notes

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

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

Authorization



Generated
10/7/2024 3:44:07 PM

Authorized for release by
Travis Richter, Project Manager
Travis.Richter@et.eurofinsus.com
(281)794-7216

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 94Y

Laboratory Job ID: 880-49315-1

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QC Sample Results 27
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Certification Summary 56
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Definitions/Glossary

Client: Civil & Environmental Consultants Inc Job ID: 880-49315-1
Project/Site: Seawolf 94Y

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Civil & Environmental Consultants Inc
Project: Seawolf 94Y

Job ID: 880-49315-1

Job ID: 880-49315-1 Eurofins Midland

Job Narrative
880-49315-1

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

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

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

Receipt
The samples were received on 10/3/2024 8:23 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: 201 (880-49315-1), 202 (880-49315-2), 203 (880-49315-3), 204 (880-49315-4), 205 (880-49315-5), 206 (880-49315-6), 207 (880-49315-7), 208 (880-49315-8), 209 (880-49315-9), 210 (880-49315-10), 211 (880-49315-11), 212 (880-49315-12), 213 (880-49315-13), 214 (880-49315-14), 215 (880-49315-15), 216 (880-49315-16), 217 (880-49315-17), 218 (880-49315-18), 219 (880-49315-19), 220 (880-49315-20), 221 (880-49315-21), 222 (880-49315-22), 223 (880-49315-23), 224 (880-49315-24), 225 (880-49315-25), 226 (880-49315-26), 227 (880-49315-27), 228 (880-49315-28), 229 (880-49315-29) and 230 (880-49315-30).

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: 201 (880-49315-1), 202 (880-49315-2), 203 (880-49315-3), 204 (880-49315-4), 205 (880-49315-5), 206 (880-49315-6), 207 (880-49315-7), 208 (880-49315-8), 209 (880-49315-9), 210 (880-49315-10), 211 (880-49315-11), 212 (880-49315-12), 213 (880-49315-13), 214 (880-49315-14), 215 (880-49315-15), 216 (880-49315-16), 217 (880-49315-17), 218 (880-49315-18), 219 (880-49315-19), 220 (880-49315-20), (CCV 880-92640/20), (CCV 880-92640/33), (880-49315-A-1-C MS) and (880-49315-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-92464 and analytical batch 880-92640 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCS 880-92464/1-A) and (LCSD 880-92464/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-92465 and analytical batch 880-92553 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Diesel Range Organics
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-92451 and analytical batch 880-92613 was outside the upper control limits.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-92451 and analytical batch 880-92613 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike duplicate (MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCS 880-92451/2-A) and (LCSD 880-92451/3-A). Percent recoveries are based on the amount spiked.

Case Narrative

Client: Civil & Environmental Consultants Inc
Project: Seawolf 94Y

Job ID: 880-49315-1

Job ID: 880-49315-1 (Continued) Eurofins Midland

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCS 880-92458/2-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The method blank for preparation batch 880-92457 and analytical batch 880-92490 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCS 880-92457/2-A) and (LCSD 880-92457/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-92492 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-92492/21).

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

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-92521 and analytical batch 880-92552 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 - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-92463 and analytical batch 880-92498 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-49315-1
Project/Site: Seawolf 94Y

Client Sample ID: 201
Lab Sample ID: 880-49315-1
Date Collected: 10/01/24 16:15
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 95.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00146	U	0.00210	0.00146	mg/Kg	☼	10/03/24 10:27	10/06/24 20:43	1
Toluene	<0.00210	U	0.00210	0.00210	mg/Kg	☼	10/03/24 10:27	10/06/24 20:43	1
Ethylbenzene	<0.00114	U	0.00210	0.00114	mg/Kg	☼	10/03/24 10:27	10/06/24 20:43	1
m-Xylene & p-Xylene	<0.00240	U	0.00420	0.00240	mg/Kg	☼	10/03/24 10:27	10/06/24 20:43	1
o-Xylene	<0.00166	U	0.00210	0.00166	mg/Kg	☼	10/03/24 10:27	10/06/24 20:43	1
Xylenes, Total	<0.00240	U	0.00420	0.00240	mg/Kg	☼	10/03/24 10:27	10/06/24 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*149*	*S1+*	*70 - 130*	*10/03/24 10:27*	*10/06/24 20:43*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*10/03/24 10:27*	*10/06/24 20:43*	*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	<15.2	U	52.1	15.2	mg/Kg	☼	10/03/24 09:59	10/04/24 23:10	1
Diesel Range Organics (Over C10-C28)	<15.8	U	52.1	15.8	mg/Kg	☼	10/03/24 09:59	10/04/24 23:10	1
Oil Range Organics (Over C28-C36)	<15.8	U	52.1	15.8	mg/Kg	☼	10/03/24 09:59	10/04/24 23:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*10/03/24 09:59*	*10/04/24 23:10*	*1*
o-Terphenyl	*102*		*70 - 130*	*10/03/24 09:59*	*10/04/24 23:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2150**		26.2	2.07	mg/Kg	☼		10/05/24 03:24	5

Client Sample ID: 202
Lab Sample ID: 880-49315-2
Date Collected: 10/01/24 16:18
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 96.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00144	U	0.00206	0.00144	mg/Kg	☼	10/03/24 10:27	10/06/24 21:03	1
Toluene	<0.00206	U	0.00206	0.00206	mg/Kg	☼	10/03/24 10:27	10/06/24 21:03	1
Ethylbenzene	<0.00112	U	0.00206	0.00112	mg/Kg	☼	10/03/24 10:27	10/06/24 21:03	1
m-Xylene & p-Xylene	<0.00236	U	0.00413	0.00236	mg/Kg	☼	10/03/24 10:27	10/06/24 21:03	1
o-Xylene	<0.00163	U	0.00206	0.00163	mg/Kg	☼	10/03/24 10:27	10/06/24 21:03	1
Xylenes, Total	<0.00236	U	0.00413	0.00236	mg/Kg	☼	10/03/24 10:27	10/06/24 21:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*145*	*S1+*	*70 - 130*	*10/03/24 10:27*	*10/06/24 21:03*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*10/03/24 10:27*	*10/06/24 21:03*	*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	<15.0	U	51.5	15.0	mg/Kg	☼	10/03/24 10:03	10/04/24 17:40	1
Diesel Range Organics (Over C10-C28)	**99.7**		51.5	15.6	mg/Kg	☼	10/03/24 10:03	10/04/24 17:40	1
Oil Range Organics (Over C28-C36)	<15.6	U	51.5	15.6	mg/Kg	☼	10/03/24 10:03	10/04/24 17:40	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 94Y

Job ID: 880-49315-1

Client Sample ID: 202

Lab Sample ID: 880-49315-2
Date Collected: 10/01/24 16:18
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 96.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*10/03/24 10:03*	*10/04/24 17:40*	*1*
o-Terphenyl	*97*		*70 - 130*	*10/03/24 10:03*	*10/04/24 17:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2930**	**F1**	26.1	2.06	mg/Kg	☼		10/04/24 20:46	5

Client Sample ID: 203

Lab Sample ID: 880-49315-3
Date Collected: 10/01/24 16:20
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 95.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00145	U	0.00208	0.00145	mg/Kg	☼	10/03/24 10:27	10/06/24 21:24	1
Toluene	<0.00208	U	0.00208	0.00208	mg/Kg	☼	10/03/24 10:27	10/06/24 21:24	1
Ethylbenzene	<0.00113	U	0.00208	0.00113	mg/Kg	☼	10/03/24 10:27	10/06/24 21:24	1
m-Xylene & p-Xylene	<0.00237	U	0.00416	0.00237	mg/Kg	☼	10/03/24 10:27	10/06/24 21:24	1
o-Xylene	<0.00165	U	0.00208	0.00165	mg/Kg	☼	10/03/24 10:27	10/06/24 21:24	1
Xylenes, Total	<0.00237	U	0.00416	0.00237	mg/Kg	☼	10/03/24 10:27	10/06/24 21:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*143*	*S1+*	*70 - 130*	*10/03/24 10:27*	*10/06/24 21:24*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*10/03/24 10:27*	*10/06/24 21:24*	*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	<15.1	U	52.0	15.1	mg/Kg	☼	10/03/24 10:03	10/04/24 18:26	1
Diesel Range Organics (Over C10-C28)	**183**		52.0	15.7	mg/Kg	☼	10/03/24 10:03	10/04/24 18:26	1
Oil Range Organics (Over C28-C36)	<15.7	U	52.0	15.7	mg/Kg	☼	10/03/24 10:03	10/04/24 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*10/03/24 10:03*	*10/04/24 18:26*	*1*
o-Terphenyl	*119*		*70 - 130*	*10/03/24 10:03*	*10/04/24 18:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**596**		5.24	0.414	mg/Kg	☼		10/04/24 21:05	1

Client Sample ID: 204

Lab Sample ID: 880-49315-4
Date Collected: 10/01/24 16:22
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 93.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00149	U	0.00214	0.00149	mg/Kg	☼	10/03/24 10:27	10/06/24 21:44	1
Toluene	<0.00214	U	0.00214	0.00214	mg/Kg	☼	10/03/24 10:27	10/06/24 21:44	1
Ethylbenzene	<0.00117	U	0.00214	0.00117	mg/Kg	☼	10/03/24 10:27	10/06/24 21:44	1
m-Xylene & p-Xylene	<0.00245	U	0.00429	0.00245	mg/Kg	☼	10/03/24 10:27	10/06/24 21:44	1
o-Xylene	<0.00170	U	0.00214	0.00170	mg/Kg	☼	10/03/24 10:27	10/06/24 21:44	1
Xylenes, Total	<0.00245	U	0.00429	0.00245	mg/Kg	☼	10/03/24 10:27	10/06/24 21:44	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 94Y

Job ID: 880-49315-1

Client Sample ID: 204

Lab Sample ID: 880-49315-4
Date Collected: 10/01/24 16:22
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 93.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*146*	*S1+*	*70 - 130*	*10/03/24 10:27*	*10/06/24 21:44*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*10/03/24 10:27*	*10/06/24 21:44*	*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	<15.6	U	53.6	15.6	mg/Kg	☼	10/03/24 10:03	10/04/24 18:41	1
Diesel Range Organics (Over C10-C28)	**555**		53.6	16.2	mg/Kg	☼	10/03/24 10:03	10/04/24 18:41	1
Oil Range Organics (Over C28-C36)	<16.2	U	53.6	16.2	mg/Kg	☼	10/03/24 10:03	10/04/24 18:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*83*		*70 - 130*	*10/03/24 10:03*	*10/04/24 18:41*	*1*
o-Terphenyl	*90*		*70 - 130*	*10/03/24 10:03*	*10/04/24 18:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2610**		27.0	2.13	mg/Kg	☼		10/04/24 21:12	5

Client Sample ID: 205

Lab Sample ID: 880-49315-5
Date Collected: 10/01/24 16:25
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 95.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00145	U	0.00209	0.00145	mg/Kg	☼	10/03/24 10:27	10/06/24 22:04	1
Toluene	<0.00209	U	0.00209	0.00209	mg/Kg	☼	10/03/24 10:27	10/06/24 22:04	1
Ethylbenzene	<0.00114	U	0.00209	0.00114	mg/Kg	☼	10/03/24 10:27	10/06/24 22:04	1
m-Xylene & p-Xylene	<0.00238	U	0.00417	0.00238	mg/Kg	☼	10/03/24 10:27	10/06/24 22:04	1
o-Xylene	<0.00165	U	0.00209	0.00165	mg/Kg	☼	10/03/24 10:27	10/06/24 22:04	1
Xylenes, Total	<0.00238	U	0.00417	0.00238	mg/Kg	☼	10/03/24 10:27	10/06/24 22:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*145*	*S1+*	*70 - 130*	*10/03/24 10:27*	*10/06/24 22:04*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*10/03/24 10:27*	*10/06/24 22:04*	*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	<15.1	U	52.1	15.1	mg/Kg	☼	10/03/24 10:03	10/04/24 18:57	1
Diesel Range Organics (Over C10-C28)	**549**		52.1	15.8	mg/Kg	☼	10/03/24 10:03	10/04/24 18:57	1
Oil Range Organics (Over C28-C36)	<15.8	U	52.1	15.8	mg/Kg	☼	10/03/24 10:03	10/04/24 18:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*82*		*70 - 130*	*10/03/24 10:03*	*10/04/24 18:57*	*1*
o-Terphenyl	*93*		*70 - 130*	*10/03/24 10:03*	*10/04/24 18:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1310**		26.3	2.08	mg/Kg	☼		10/04/24 21:18	5

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-49315-1
Project/Site: Seawolf 94Y

Client Sample ID: 206
Lab Sample ID: 880-49315-6
Date Collected: 10/01/24 16:28
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 95.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00146	U	0.00209	0.00146	mg/Kg	☼	10/03/24 10:27	10/06/24 22:25	1
Toluene	<0.00209	U	0.00209	0.00209	mg/Kg	☼	10/03/24 10:27	10/06/24 22:25	1
Ethylbenzene	<0.00114	U	0.00209	0.00114	mg/Kg	☼	10/03/24 10:27	10/06/24 22:25	1
m-Xylene & p-Xylene	<0.00239	U	0.00418	0.00239	mg/Kg	☼	10/03/24 10:27	10/06/24 22:25	1
o-Xylene	<0.00166	U	0.00209	0.00166	mg/Kg	☼	10/03/24 10:27	10/06/24 22:25	1
Xylenes, Total	<0.00239	U	0.00418	0.00239	mg/Kg	☼	10/03/24 10:27	10/06/24 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*145*	*S1+*	*70 - 130*	*10/03/24 10:27*	*10/06/24 22:25*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*10/03/24 10:27*	*10/06/24 22:25*	*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	<15.1	U	51.9	15.1	mg/Kg	☼	10/03/24 10:03	10/04/24 19:11	1
Diesel Range Organics (Over C10-C28)	**297**		51.9	15.7	mg/Kg	☼	10/03/24 10:03	10/04/24 19:11	1
Oil Range Organics (Over C28-C36)	<15.7	U	51.9	15.7	mg/Kg	☼	10/03/24 10:03	10/04/24 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*10/03/24 10:03*	*10/04/24 19:11*	*1*
o-Terphenyl	*94*		*70 - 130*	*10/03/24 10:03*	*10/04/24 19:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3360**		25.8	2.04	mg/Kg	☼		10/04/24 21:25	5

Client Sample ID: 207
Lab Sample ID: 880-49315-7
Date Collected: 10/01/24 16:31
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 96.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00143	U	0.00206	0.00143	mg/Kg	☼	10/03/24 10:27	10/06/24 22:45	1
Toluene	<0.00206	U	0.00206	0.00206	mg/Kg	☼	10/03/24 10:27	10/06/24 22:45	1
Ethylbenzene	<0.00112	U	0.00206	0.00112	mg/Kg	☼	10/03/24 10:27	10/06/24 22:45	1
m-Xylene & p-Xylene	<0.00235	U	0.00412	0.00235	mg/Kg	☼	10/03/24 10:27	10/06/24 22:45	1
o-Xylene	<0.00163	U	0.00206	0.00163	mg/Kg	☼	10/03/24 10:27	10/06/24 22:45	1
Xylenes, Total	<0.00235	U	0.00412	0.00235	mg/Kg	☼	10/03/24 10:27	10/06/24 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*226*	*S1+*	*70 - 130*	*10/03/24 10:27*	*10/06/24 22:45*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*10/03/24 10:27*	*10/06/24 22:45*	*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	<15.0	U	51.6	15.0	mg/Kg	☼	10/03/24 10:03	10/04/24 19:26	1
Diesel Range Organics (Over C10-C28)	**392**		51.6	15.6	mg/Kg	☼	10/03/24 10:03	10/04/24 19:26	1
Oil Range Organics (Over C28-C36)	<15.6	U	51.6	15.6	mg/Kg	☼	10/03/24 10:03	10/04/24 19:26	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 94Y

Job ID: 880-49315-1

Client Sample ID: 207

Lab Sample ID: 880-49315-7
Date Collected: 10/01/24 16:31
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 96.9

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*10/03/24 10:03*	*10/04/24 19:26*	*1*
o-Terphenyl	*107*		*70 - 130*	*10/03/24 10:03*	*10/04/24 19:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1740**		25.6	2.02	mg/Kg	☼		10/04/24 21:44	5

Client Sample ID: 208

Lab Sample ID: 880-49315-8
Date Collected: 10/01/24 16:35
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 96.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00144	U	0.00208	0.00144	mg/Kg	☼	10/03/24 10:27	10/06/24 23:06	1
Toluene	<0.00208	U	0.00208	0.00208	mg/Kg	☼	10/03/24 10:27	10/06/24 23:06	1
Ethylbenzene	<0.00113	U	0.00208	0.00113	mg/Kg	☼	10/03/24 10:27	10/06/24 23:06	1
m-Xylene & p-Xylene	<0.00237	U	0.00415	0.00237	mg/Kg	☼	10/03/24 10:27	10/06/24 23:06	1
o-Xylene	<0.00164	U	0.00208	0.00164	mg/Kg	☼	10/03/24 10:27	10/06/24 23:06	1
Xylenes, Total	<0.00237	U	0.00415	0.00237	mg/Kg	☼	10/03/24 10:27	10/06/24 23:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*10/03/24 10:27*	*10/06/24 23:06*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*10/03/24 10:27*	*10/06/24 23:06*	*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	<15.1	U	51.8	15.1	mg/Kg	☼	10/03/24 10:03	10/04/24 19:41	1
Diesel Range Organics (Over C10-C28)	**137**		51.8	15.7	mg/Kg	☼	10/03/24 10:03	10/04/24 19:41	1
Oil Range Organics (Over C28-C36)	<15.7	U	51.8	15.7	mg/Kg	☼	10/03/24 10:03	10/04/24 19:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*10/03/24 10:03*	*10/04/24 19:41*	*1*
o-Terphenyl	*99*		*70 - 130*	*10/03/24 10:03*	*10/04/24 19:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6590**		52.5	4.15	mg/Kg	☼		10/04/24 21:50	10

Client Sample ID: 209

Lab Sample ID: 880-49315-9
Date Collected: 10/01/24 16:38
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 98.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00202	0.00141	mg/Kg	☼	10/03/24 10:27	10/06/24 23:26	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg	☼	10/03/24 10:27	10/06/24 23:26	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg	☼	10/03/24 10:27	10/06/24 23:26	1
m-Xylene & p-Xylene	<0.00231	U	0.00405	0.00231	mg/Kg	☼	10/03/24 10:27	10/06/24 23:26	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg	☼	10/03/24 10:27	10/06/24 23:26	1
Xylenes, Total	<0.00231	U	0.00405	0.00231	mg/Kg	☼	10/03/24 10:27	10/06/24 23:26	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 94Y

Job ID: 880-49315-1

Client Sample ID: 209

Lab Sample ID: 880-49315-9
Date Collected: 10/01/24 16:38
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 98.2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*147*	*S1+*	*70 - 130*	*10/03/24 10:27*	*10/06/24 23:26*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*10/03/24 10:27*	*10/06/24 23:26*	*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	<14.7	U	50.7	14.7	mg/Kg	☼	10/03/24 10:03	10/04/24 19:57	1
Diesel Range Organics (Over C10-C28)	**1100**		50.7	15.3	mg/Kg	☼	10/03/24 10:03	10/04/24 19:57	1
Oil Range Organics (Over C28-C36)	<15.3	U	50.7	15.3	mg/Kg	☼	10/03/24 10:03	10/04/24 19:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*10/03/24 10:03*	*10/04/24 19:57*	*1*
o-Terphenyl	*96*		*70 - 130*	*10/03/24 10:03*	*10/04/24 19:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1700**		25.3	2.00	mg/Kg	☼		10/04/24 21:57	5

Client Sample ID: 210

Lab Sample ID: 880-49315-10
Date Collected: 10/01/24 16:40
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 95.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00145	U	0.00208	0.00145	mg/Kg	☼	10/03/24 10:27	10/06/24 23:47	1
Toluene	<0.00208	U	0.00208	0.00208	mg/Kg	☼	10/03/24 10:27	10/06/24 23:47	1
Ethylbenzene	<0.00113	U	0.00208	0.00113	mg/Kg	☼	10/03/24 10:27	10/06/24 23:47	1
m-Xylene & p-Xylene	<0.00238	U	0.00417	0.00238	mg/Kg	☼	10/03/24 10:27	10/06/24 23:47	1
o-Xylene	<0.00165	U	0.00208	0.00165	mg/Kg	☼	10/03/24 10:27	10/06/24 23:47	1
Xylenes, Total	<0.00238	U	0.00417	0.00238	mg/Kg	☼	10/03/24 10:27	10/06/24 23:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*143*	*S1+*	*70 - 130*	*10/03/24 10:27*	*10/06/24 23:47*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*10/03/24 10:27*	*10/06/24 23:47*	*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	<15.1	U	52.1	15.1	mg/Kg	☼	10/03/24 10:03	10/04/24 20:11	1
Diesel Range Organics (Over C10-C28)	**470**		52.1	15.8	mg/Kg	☼	10/03/24 10:03	10/04/24 20:11	1
Oil Range Organics (Over C28-C36)	<15.8	U	52.1	15.8	mg/Kg	☼	10/03/24 10:03	10/04/24 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*10/03/24 10:03*	*10/04/24 20:11*	*1*
o-Terphenyl	*92*		*70 - 130*	*10/03/24 10:03*	*10/04/24 20:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2400**		26.0	2.05	mg/Kg	☼		10/04/24 22:03	5

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-49315-1
Project/Site: Seawolf 94Y

Client Sample ID: 211
Lab Sample ID: 880-49315-11
Date Collected: 10/01/24 16:45
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 96.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00145	U	0.00209	0.00145	mg/Kg	☼	10/03/24 10:27	10/07/24 01:21	1
Toluene	<0.00208	U	0.00209	0.00208	mg/Kg	☼	10/03/24 10:27	10/07/24 01:21	1
Ethylbenzene	<0.00114	U	0.00209	0.00114	mg/Kg	☼	10/03/24 10:27	10/07/24 01:21	1
m-Xylene & p-Xylene	<0.00238	U	0.00417	0.00238	mg/Kg	☼	10/03/24 10:27	10/07/24 01:21	1
o-Xylene	<0.00165	U	0.00209	0.00165	mg/Kg	☼	10/03/24 10:27	10/07/24 01:21	1
Xylenes, Total	<0.00238	U	0.00417	0.00238	mg/Kg	☼	10/03/24 10:27	10/07/24 01:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*151*	*S1+*	*70 - 130*	*10/03/24 10:27*	*10/07/24 01:21*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*10/03/24 10:27*	*10/07/24 01:21*	*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	<15.1	U	52.0	15.1	mg/Kg	☼	10/03/24 10:03	10/04/24 20:26	1
Diesel Range Organics (Over C10-C28)	**185**		52.0	15.7	mg/Kg	☼	10/03/24 10:03	10/04/24 20:26	1
Oil Range Organics (Over C28-C36)	<15.7	U	52.0	15.7	mg/Kg	☼	10/03/24 10:03	10/04/24 20:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*10/03/24 10:03*	*10/04/24 20:26*	*1*
o-Terphenyl	*86*		*70 - 130*	*10/03/24 10:03*	*10/04/24 20:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8890**		104	8.19	mg/Kg	☼		10/04/24 22:10	20

Client Sample ID: 212
Lab Sample ID: 880-49315-12
Date Collected: 10/01/24 16:48
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 95.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00145	U	0.00208	0.00145	mg/Kg	☼	10/03/24 10:27	10/07/24 01:42	1
Toluene	<0.00208	U	0.00208	0.00208	mg/Kg	☼	10/03/24 10:27	10/07/24 01:42	1
Ethylbenzene	<0.00113	U	0.00208	0.00113	mg/Kg	☼	10/03/24 10:27	10/07/24 01:42	1
m-Xylene & p-Xylene	<0.00238	U	0.00417	0.00238	mg/Kg	☼	10/03/24 10:27	10/07/24 01:42	1
o-Xylene	<0.00165	U	0.00208	0.00165	mg/Kg	☼	10/03/24 10:27	10/07/24 01:42	1
Xylenes, Total	<0.00238	U	0.00417	0.00238	mg/Kg	☼	10/03/24 10:27	10/07/24 01:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*142*	*S1+*	*70 - 130*	*10/03/24 10:27*	*10/07/24 01:42*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*10/03/24 10:27*	*10/07/24 01:42*	*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	<15.2	U	52.2	15.2	mg/Kg	☼	10/03/24 10:03	10/04/24 20:56	1
Diesel Range Organics (Over C10-C28)	**54.6**		52.2	15.8	mg/Kg	☼	10/03/24 10:03	10/04/24 20:56	1
Oil Range Organics (Over C28-C36)	<15.8	U	52.2	15.8	mg/Kg	☼	10/03/24 10:03	10/04/24 20:56	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-49315-1
Project/Site: Seawolf 94Y

Client Sample ID: 212
Lab Sample ID: 880-49315-12
Date Collected: 10/01/24 16:48
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 95.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*10/03/24 10:03*	*10/04/24 20:56*	*1*
o-Terphenyl	*82*		*70 - 130*	*10/03/24 10:03*	*10/04/24 20:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6900**	**F1**	51.9	4.10	mg/Kg	☼		10/04/24 22:16	10

Client Sample ID: 213
Lab Sample ID: 880-49315-13
Date Collected: 10/01/24 16:50
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 97.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00143	U	0.00206	0.00143	mg/Kg	☼	10/03/24 10:27	10/07/24 02:02	1
Toluene	<0.00206	U	0.00206	0.00206	mg/Kg	☼	10/03/24 10:27	10/07/24 02:02	1
Ethylbenzene	<0.00112	U	0.00206	0.00112	mg/Kg	☼	10/03/24 10:27	10/07/24 02:02	1
m-Xylene & p-Xylene	<0.00235	U	0.00412	0.00235	mg/Kg	☼	10/03/24 10:27	10/07/24 02:02	1
o-Xylene	<0.00163	U	0.00206	0.00163	mg/Kg	☼	10/03/24 10:27	10/07/24 02:02	1
Xylenes, Total	<0.00235	U	0.00412	0.00235	mg/Kg	☼	10/03/24 10:27	10/07/24 02:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*141*	*S1+*	*70 - 130*	*10/03/24 10:27*	*10/07/24 02:02*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*10/03/24 10:27*	*10/07/24 02:02*	*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	<14.9	U	51.3	14.9	mg/Kg	☼	10/03/24 10:03	10/04/24 21:11	1
Diesel Range Organics (Over C10-C28)	**481**		51.3	15.5	mg/Kg	☼	10/03/24 10:03	10/04/24 21:11	1
Oil Range Organics (Over C28-C36)	<15.5	U	51.3	15.5	mg/Kg	☼	10/03/24 10:03	10/04/24 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*10/03/24 10:03*	*10/04/24 21:11*	*1*
o-Terphenyl	*90*		*70 - 130*	*10/03/24 10:03*	*10/04/24 21:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1450**		26.0	2.05	mg/Kg	☼		10/04/24 22:35	5

Client Sample ID: 214
Lab Sample ID: 880-49315-14
Date Collected: 10/01/24 16:52
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 76.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00181	U	0.00260	0.00181	mg/Kg	☼	10/03/24 10:27	10/07/24 02:22	1
Toluene	<0.00260	U	0.00260	0.00260	mg/Kg	☼	10/03/24 10:27	10/07/24 02:22	1
Ethylbenzene	<0.00141	U	0.00260	0.00141	mg/Kg	☼	10/03/24 10:27	10/07/24 02:22	1
m-Xylene & p-Xylene	<0.00297	U	0.00519	0.00297	mg/Kg	☼	10/03/24 10:27	10/07/24 02:22	1
o-Xylene	<0.00206	U	0.00260	0.00206	mg/Kg	☼	10/03/24 10:27	10/07/24 02:22	1
Xylenes, Total	<0.00297	U	0.00519	0.00297	mg/Kg	☼	10/03/24 10:27	10/07/24 02:22	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-49315-1
Project/Site: Seawolf 94Y

Client Sample ID: 214
Lab Sample ID: 880-49315-14
Date Collected: 10/01/24 16:52
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 76.7

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*141*	*S1+*	*70 - 130*	*10/03/24 10:27*	*10/07/24 02:22*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*10/03/24 10:27*	*10/07/24 02:22*	*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	<18.8	U	64.9	18.8	mg/Kg	☼	10/03/24 10:03	10/04/24 21:26	1
Diesel Range Organics (Over C10-C28)	**289**		64.9	19.6	mg/Kg	☼	10/03/24 10:03	10/04/24 21:26	1
Oil Range Organics (Over C28-C36)	<19.6	U	64.9	19.6	mg/Kg	☼	10/03/24 10:03	10/04/24 21:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*10/03/24 10:03*	*10/04/24 21:26*	*1*
o-Terphenyl	*108*		*70 - 130*	*10/03/24 10:03*	*10/04/24 21:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1440**		32.4	2.56	mg/Kg	☼		10/04/24 22:42	5

Client Sample ID: 215
Lab Sample ID: 880-49315-15
Date Collected: 10/01/24 16:55
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 97.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00143	U	0.00205	0.00143	mg/Kg	☼	10/03/24 10:27	10/07/24 02:43	1
Toluene	<0.00205	U	0.00205	0.00205	mg/Kg	☼	10/03/24 10:27	10/07/24 02:43	1
Ethylbenzene	<0.00112	U	0.00205	0.00112	mg/Kg	☼	10/03/24 10:27	10/07/24 02:43	1
m-Xylene & p-Xylene	<0.00234	U	0.00410	0.00234	mg/Kg	☼	10/03/24 10:27	10/07/24 02:43	1
o-Xylene	<0.00162	U	0.00205	0.00162	mg/Kg	☼	10/03/24 10:27	10/07/24 02:43	1
Xylenes, Total	<0.00234	U	0.00410	0.00234	mg/Kg	☼	10/03/24 10:27	10/07/24 02:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*143*	*S1+*	*70 - 130*	*10/03/24 10:27*	*10/07/24 02:43*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*10/03/24 10:27*	*10/07/24 02:43*	*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	<14.9	U	51.3	14.9	mg/Kg	☼	10/03/24 10:03	10/04/24 21:40	1
Diesel Range Organics (Over C10-C28)	<15.5	U	51.3	15.5	mg/Kg	☼	10/03/24 10:03	10/04/24 21:40	1
Oil Range Organics (Over C28-C36)	<15.5	U	51.3	15.5	mg/Kg	☼	10/03/24 10:03	10/04/24 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*10/03/24 10:03*	*10/04/24 21:40*	*1*
o-Terphenyl	*105*		*70 - 130*	*10/03/24 10:03*	*10/04/24 21:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3690**		51.4	4.06	mg/Kg	☼		10/04/24 23:01	10

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-49315-1
Project/Site: Seawolf 94Y

Client Sample ID: 216
Lab Sample ID: 880-49315-16
Date Collected: 10/01/24 16:58
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 96.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00144	U	0.00207	0.00144	mg/Kg	☼	10/03/24 10:27	10/07/24 03:03	1
Toluene	<0.00206	U	0.00207	0.00206	mg/Kg	☼	10/03/24 10:27	10/07/24 03:03	1
Ethylbenzene	<0.00112	U	0.00207	0.00112	mg/Kg	☼	10/03/24 10:27	10/07/24 03:03	1
m-Xylene & p-Xylene	<0.00236	U	0.00413	0.00236	mg/Kg	☼	10/03/24 10:27	10/07/24 03:03	1
o-Xylene	<0.00164	U	0.00207	0.00164	mg/Kg	☼	10/03/24 10:27	10/07/24 03:03	1
Xylenes, Total	<0.00236	U	0.00413	0.00236	mg/Kg	☼	10/03/24 10:27	10/07/24 03:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*144*	*S1+*	*70 - 130*	*10/03/24 10:27*	*10/07/24 03:03*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*10/03/24 10:27*	*10/07/24 03:03*	*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	<15.0	U	51.5	15.0	mg/Kg	☼	10/03/24 10:03	10/04/24 21:55	1
Diesel Range Organics (Over C10-C28)	<15.6	U	51.5	15.6	mg/Kg	☼	10/03/24 10:03	10/04/24 21:55	1
Oil Range Organics (Over C28-C36)	<15.6	U	51.5	15.6	mg/Kg	☼	10/03/24 10:03	10/04/24 21:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*10/03/24 10:03*	*10/04/24 21:55*	*1*
o-Terphenyl	*93*		*70 - 130*	*10/03/24 10:03*	*10/04/24 21:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4910**		51.8	4.10	mg/Kg	☼		10/04/24 23:07	10

Client Sample ID: 217
Lab Sample ID: 880-49315-17
Date Collected: 10/01/24 17:00
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 97.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00144	U	0.00206	0.00144	mg/Kg	☼	10/03/24 10:27	10/07/24 03:24	1
Toluene	<0.00206	U	0.00206	0.00206	mg/Kg	☼	10/03/24 10:27	10/07/24 03:24	1
Ethylbenzene	<0.00112	U	0.00206	0.00112	mg/Kg	☼	10/03/24 10:27	10/07/24 03:24	1
m-Xylene & p-Xylene	<0.00236	U	0.00413	0.00236	mg/Kg	☼	10/03/24 10:27	10/07/24 03:24	1
o-Xylene	<0.00164	U	0.00206	0.00164	mg/Kg	☼	10/03/24 10:27	10/07/24 03:24	1
Xylenes, Total	<0.00236	U	0.00413	0.00236	mg/Kg	☼	10/03/24 10:27	10/07/24 03:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*147*	*S1+*	*70 - 130*	*10/03/24 10:27*	*10/07/24 03:24*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*10/03/24 10:27*	*10/07/24 03:24*	*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	<14.8	U	51.0	14.8	mg/Kg	☼	10/03/24 10:03	10/04/24 22:10	1
Diesel Range Organics (Over C10-C28)	**347**		51.0	15.4	mg/Kg	☼	10/03/24 10:03	10/04/24 22:10	1
Oil Range Organics (Over C28-C36)	<15.4	U	51.0	15.4	mg/Kg	☼	10/03/24 10:03	10/04/24 22:10	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 94Y

Job ID: 880-49315-1

Client Sample ID: 217

Lab Sample ID: 880-49315-17
Date Collected: 10/01/24 17:00
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 97.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*10/03/24 10:03*	*10/04/24 22:10*	*1*
o-Terphenyl	*102*		*70 - 130*	*10/03/24 10:03*	*10/04/24 22:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6510**		51.5	4.07	mg/Kg	☼		10/04/24 23:14	10

Client Sample ID: 218

Lab Sample ID: 880-49315-18
Date Collected: 10/01/24 17:03
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 97.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00143	U	0.00205	0.00143	mg/Kg	☼	10/03/24 10:27	10/07/24 03:44	1
Toluene	<0.00205	U	0.00205	0.00205	mg/Kg	☼	10/03/24 10:27	10/07/24 03:44	1
Ethylbenzene	<0.00112	U	0.00205	0.00112	mg/Kg	☼	10/03/24 10:27	10/07/24 03:44	1
m-Xylene & p-Xylene	<0.00234	U	0.00410	0.00234	mg/Kg	☼	10/03/24 10:27	10/07/24 03:44	1
o-Xylene	<0.00162	U	0.00205	0.00162	mg/Kg	☼	10/03/24 10:27	10/07/24 03:44	1
Xylenes, Total	<0.00234	U	0.00410	0.00234	mg/Kg	☼	10/03/24 10:27	10/07/24 03:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*143*	*S1+*	*70 - 130*	*10/03/24 10:27*	*10/07/24 03:44*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*10/03/24 10:27*	*10/07/24 03:44*	*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	<14.8	U	51.0	14.8	mg/Kg	☼	10/03/24 10:03	10/04/24 22:25	1
Diesel Range Organics (Over C10-C28)	**26.0**	**J**	51.0	15.4	mg/Kg	☼	10/03/24 10:03	10/04/24 22:25	1
Oil Range Organics (Over C28-C36)	<15.4	U	51.0	15.4	mg/Kg	☼	10/03/24 10:03	10/04/24 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*10/03/24 10:03*	*10/04/24 22:25*	*1*
o-Terphenyl	*91*		*70 - 130*	*10/03/24 10:03*	*10/04/24 22:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2090**		25.6	2.02	mg/Kg	☼		10/04/24 23:20	5

Client Sample ID: 219

Lab Sample ID: 880-49315-19
Date Collected: 10/01/24 17:05
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 97.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00143	U	0.00205	0.00143	mg/Kg	☼	10/03/24 10:27	10/07/24 04:05	1
Toluene	<0.00205	U	0.00205	0.00205	mg/Kg	☼	10/03/24 10:27	10/07/24 04:05	1
Ethylbenzene	<0.00112	U	0.00205	0.00112	mg/Kg	☼	10/03/24 10:27	10/07/24 04:05	1
m-Xylene & p-Xylene	<0.00235	U	0.00411	0.00235	mg/Kg	☼	10/03/24 10:27	10/07/24 04:05	1
o-Xylene	<0.00163	U	0.00205	0.00163	mg/Kg	☼	10/03/24 10:27	10/07/24 04:05	1
Xylenes, Total	<0.00235	U	0.00411	0.00235	mg/Kg	☼	10/03/24 10:27	10/07/24 04:05	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 94Y

Job ID: 880-49315-1

Client Sample ID: 219

Lab Sample ID: 880-49315-19
Date Collected: 10/01/24 17:05
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 97.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*146*	*S1+*	*70 - 130*	*10/03/24 10:27*	*10/07/24 04:05*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*10/03/24 10:27*	*10/07/24 04:05*	*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	<15.0	U	51.5	15.0	mg/Kg	☼	10/03/24 10:03	10/04/24 22:39	1
Diesel Range Organics (Over C10-C28)	**52.1**		51.5	15.6	mg/Kg	☼	10/03/24 10:03	10/04/24 22:39	1
Oil Range Organics (Over C28-C36)	<15.6	U	51.5	15.6	mg/Kg	☼	10/03/24 10:03	10/04/24 22:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*105*		*70 - 130*	*10/03/24 10:03*	*10/04/24 22:39*	*1*
o-Terphenyl	*115*		*70 - 130*	*10/03/24 10:03*	*10/04/24 22:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1130**		5.21	0.411	mg/Kg	☼		10/04/24 23:27	1

Client Sample ID: 220

Lab Sample ID: 880-49315-20
Date Collected: 10/01/24 17:10
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 98.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00142	U	0.00204	0.00142	mg/Kg	☼	10/03/24 10:27	10/07/24 04:25	1
Toluene	<0.00204	U	0.00204	0.00204	mg/Kg	☼	10/03/24 10:27	10/07/24 04:25	1
Ethylbenzene	<0.00111	U	0.00204	0.00111	mg/Kg	☼	10/03/24 10:27	10/07/24 04:25	1
m-Xylene & p-Xylene	<0.00233	U	0.00408	0.00233	mg/Kg	☼	10/03/24 10:27	10/07/24 04:25	1
o-Xylene	<0.00162	U	0.00204	0.00162	mg/Kg	☼	10/03/24 10:27	10/07/24 04:25	1
Xylenes, Total	<0.00233	U	0.00408	0.00233	mg/Kg	☼	10/03/24 10:27	10/07/24 04:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*147*	*S1+*	*70 - 130*	*10/03/24 10:27*	*10/07/24 04:25*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*10/03/24 10:27*	*10/07/24 04:25*	*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	<14.7	U	50.4	14.7	mg/Kg	☼	10/03/24 10:03	10/04/24 22:54	1
Diesel Range Organics (Over C10-C28)	**206**		50.4	15.3	mg/Kg	☼	10/03/24 10:03	10/04/24 22:54	1
Oil Range Organics (Over C28-C36)	<15.3	U	50.4	15.3	mg/Kg	☼	10/03/24 10:03	10/04/24 22:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*91*		*70 - 130*	*10/03/24 10:03*	*10/04/24 22:54*	*1*
o-Terphenyl	*99*		*70 - 130*	*10/03/24 10:03*	*10/04/24 22:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2130**		25.3	2.00	mg/Kg	☼		10/04/24 23:33	5

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-49315-1
Project/Site: Seawolf 94Y

Client Sample ID: 221
Lab Sample ID: 880-49315-21
Date Collected: 10/01/24 17:12
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 98.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00203	0.00141	mg/Kg	☼	10/03/24 10:32	10/04/24 23:30	1
Toluene	<0.00203	U F1	0.00203	0.00203	mg/Kg	☼	10/03/24 10:32	10/04/24 23:30	1
Ethylbenzene	<0.00110	U F1	0.00203	0.00110	mg/Kg	☼	10/03/24 10:32	10/04/24 23:30	1
m-Xylene & p-Xylene	<0.00232	U F1	0.00406	0.00232	mg/Kg	☼	10/03/24 10:32	10/04/24 23:30	1
o-Xylene	<0.00161	U F1	0.00203	0.00161	mg/Kg	☼	10/03/24 10:32	10/04/24 23:30	1
Xylenes, Total	<0.00232	U F1	0.00406	0.00232	mg/Kg	☼	10/03/24 10:32	10/04/24 23:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*10/03/24 10:32*	*10/04/24 23:30*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*10/03/24 10:32*	*10/04/24 23:30*	*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	<14.6	U	50.4	14.6	mg/Kg	☼	10/03/24 10:03	10/04/24 23:10	1
Diesel Range Organics (Over C10-C28)	**18.0**	**J**	50.4	15.2	mg/Kg	☼	10/03/24 10:03	10/04/24 23:10	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.4	15.2	mg/Kg	☼	10/03/24 10:03	10/04/24 23:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*10/03/24 10:03*	*10/04/24 23:10*	*1*
o-Terphenyl	*90*		*70 - 130*	*10/03/24 10:03*	*10/04/24 23:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**594**		5.02	0.397	mg/Kg	☼		10/04/24 23:39	1

Client Sample ID: 222
Lab Sample ID: 880-49315-22
Date Collected: 10/01/24 17:14
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 99.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg	☼	10/03/24 10:32	10/04/24 23:51	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg	☼	10/03/24 10:32	10/04/24 23:51	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg	☼	10/03/24 10:32	10/04/24 23:51	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg	☼	10/03/24 10:32	10/04/24 23:51	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg	☼	10/03/24 10:32	10/04/24 23:51	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg	☼	10/03/24 10:32	10/04/24 23:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*10/03/24 10:32*	*10/04/24 23:51*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*10/03/24 10:32*	*10/04/24 23:51*	*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	<14.6	U *+	50.3	14.6	mg/Kg	☼	10/03/24 09:22	10/05/24 05:34	1
Diesel Range Organics (Over C10-C28)	**437**	***+**	50.3	15.2	mg/Kg	☼	10/03/24 09:22	10/05/24 05:34	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.3	15.2	mg/Kg	☼	10/03/24 09:22	10/05/24 05:34	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 94Y

Job ID: 880-49315-1

Client Sample ID: 222

Lab Sample ID: 880-49315-22
Date Collected: 10/01/24 17:14
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 99.1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*10/03/24 09:22*	*10/05/24 05:34*	*1*
o-Terphenyl	*89*		*70 - 130*	*10/03/24 09:22*	*10/05/24 05:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**762**	**F1**	5.03	0.397	mg/Kg	☼		10/04/24 09:54	1

Client Sample ID: 223

Lab Sample ID: 880-49315-23
Date Collected: 10/01/24 17:16
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 98.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00203	0.00141	mg/Kg	☼	10/03/24 10:32	10/05/24 00:11	1
Toluene	<0.00203	U	0.00203	0.00203	mg/Kg	☼	10/03/24 10:32	10/05/24 00:11	1
Ethylbenzene	<0.00110	U	0.00203	0.00110	mg/Kg	☼	10/03/24 10:32	10/05/24 00:11	1
m-Xylene & p-Xylene	<0.00232	U	0.00406	0.00232	mg/Kg	☼	10/03/24 10:32	10/05/24 00:11	1
o-Xylene	<0.00161	U	0.00203	0.00161	mg/Kg	☼	10/03/24 10:32	10/05/24 00:11	1
Xylenes, Total	<0.00232	U	0.00406	0.00232	mg/Kg	☼	10/03/24 10:32	10/05/24 00:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*10/03/24 10:32*	*10/05/24 00:11*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*10/03/24 10:32*	*10/05/24 00:11*	*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	<14.8	U *+	50.9	14.8	mg/Kg	☼	10/03/24 09:22	10/05/24 05:51	1
Diesel Range Organics (Over C10-C28)	**54.0**	***+**	50.9	15.4	mg/Kg	☼	10/03/24 09:22	10/05/24 05:51	1
Oil Range Organics (Over C28-C36)	<15.4	U	50.9	15.4	mg/Kg	☼	10/03/24 09:22	10/05/24 05:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*10/03/24 09:22*	*10/05/24 05:51*	*1*
o-Terphenyl	*92*		*70 - 130*	*10/03/24 09:22*	*10/05/24 05:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**398**		5.05	0.399	mg/Kg	☼		10/04/24 10:13	1

Client Sample ID: 224

Lab Sample ID: 880-49315-24
Date Collected: 10/01/24 17:18
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 98.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00202	0.00141	mg/Kg	☼	10/03/24 10:32	10/05/24 00:32	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg	☼	10/03/24 10:32	10/05/24 00:32	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg	☼	10/03/24 10:32	10/05/24 00:32	1
m-Xylene & p-Xylene	<0.00231	U	0.00405	0.00231	mg/Kg	☼	10/03/24 10:32	10/05/24 00:32	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg	☼	10/03/24 10:32	10/05/24 00:32	1
Xylenes, Total	<0.00231	U	0.00405	0.00231	mg/Kg	☼	10/03/24 10:32	10/05/24 00:32	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 94Y

Job ID: 880-49315-1

Client Sample ID: 224

Lab Sample ID: 880-49315-24
Date Collected: 10/01/24 17:18
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 98.7

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*10/03/24 10:32*	*10/05/24 00:32*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*10/03/24 10:32*	*10/05/24 00:32*	*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	<14.7	U *+	50.6	14.7	mg/Kg	☼	10/03/24 09:22	10/05/24 06:07	1
Diesel Range Organics (Over C10-C28)	<15.3	U *+	50.6	15.3	mg/Kg	☼	10/03/24 09:22	10/05/24 06:07	1
Oil Range Organics (Over C28-C36)	<15.3	U	50.6	15.3	mg/Kg	☼	10/03/24 09:22	10/05/24 06:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*10/03/24 09:22*	*10/05/24 06:07*	*1*
o-Terphenyl	*88*		*70 - 130*	*10/03/24 09:22*	*10/05/24 06:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**463**		5.02	0.396	mg/Kg	☼		10/04/24 10:19	1

Client Sample ID: 225

Lab Sample ID: 880-49315-25
Date Collected: 10/01/24 17:20
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 97.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00142	U	0.00204	0.00142	mg/Kg	☼	10/03/24 10:32	10/05/24 00:52	1
Toluene	<0.00204	U	0.00204	0.00204	mg/Kg	☼	10/03/24 10:32	10/05/24 00:52	1
Ethylbenzene	<0.00111	U	0.00204	0.00111	mg/Kg	☼	10/03/24 10:32	10/05/24 00:52	1
m-Xylene & p-Xylene	<0.00233	U	0.00409	0.00233	mg/Kg	☼	10/03/24 10:32	10/05/24 00:52	1
o-Xylene	<0.00162	U	0.00204	0.00162	mg/Kg	☼	10/03/24 10:32	10/05/24 00:52	1
Xylenes, Total	<0.00233	U	0.00409	0.00233	mg/Kg	☼	10/03/24 10:32	10/05/24 00:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*10/03/24 10:32*	*10/05/24 00:52*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*10/03/24 10:32*	*10/05/24 00:52*	*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	<14.8	U *+	50.8	14.8	mg/Kg	☼	10/03/24 09:22	10/05/24 06:23	1
Diesel Range Organics (Over C10-C28)	<15.4	U *+	50.8	15.4	mg/Kg	☼	10/03/24 09:22	10/05/24 06:23	1
Oil Range Organics (Over C28-C36)	<15.4	U	50.8	15.4	mg/Kg	☼	10/03/24 09:22	10/05/24 06:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*10/03/24 09:22*	*10/05/24 06:23*	*1*
o-Terphenyl	*86*		*70 - 130*	*10/03/24 09:22*	*10/05/24 06:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**91.0**		5.09	0.402	mg/Kg	☼		10/04/24 10:26	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-49315-1
Project/Site: Seawolf 94Y

Client Sample ID: 226
Lab Sample ID: 880-49315-26
Date Collected: 10/01/24 17:22
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00162	U	0.00233	0.00162	mg/Kg	☼	10/03/24 10:32	10/05/24 01:13	1
Toluene	<0.00233	U	0.00233	0.00233	mg/Kg	☼	10/03/24 10:32	10/05/24 01:13	1
Ethylbenzene	<0.00127	U	0.00233	0.00127	mg/Kg	☼	10/03/24 10:32	10/05/24 01:13	1
m-Xylene & p-Xylene	<0.00266	U	0.00466	0.00266	mg/Kg	☼	10/03/24 10:32	10/05/24 01:13	1
o-Xylene	<0.00184	U	0.00233	0.00184	mg/Kg	☼	10/03/24 10:32	10/05/24 01:13	1
Xylenes, Total	<0.00266	U	0.00466	0.00266	mg/Kg	☼	10/03/24 10:32	10/05/24 01:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*10/03/24 10:32*	*10/05/24 01:13*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*10/03/24 10:32*	*10/05/24 01:13*	*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	<16.8	U *+	57.9	16.8	mg/Kg	☼	10/03/24 09:22	10/05/24 06:39	1
Diesel Range Organics (Over C10-C28)	**62.9**	***+**	57.9	17.5	mg/Kg	☼	10/03/24 09:22	10/05/24 06:39	1
Oil Range Organics (Over C28-C36)	<17.5	U	57.9	17.5	mg/Kg	☼	10/03/24 09:22	10/05/24 06:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*10/03/24 09:22*	*10/05/24 06:39*	*1*
o-Terphenyl	*93*		*70 - 130*	*10/03/24 09:22*	*10/05/24 06:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**331**		5.76	0.455	mg/Kg	☼		10/04/24 10:32	1

Client Sample ID: 227
Lab Sample ID: 880-49315-27
Date Collected: 10/01/24 17:25
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 99.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg	☼	10/03/24 10:32	10/05/24 01:33	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg	☼	10/03/24 10:32	10/05/24 01:33	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg	☼	10/03/24 10:32	10/05/24 01:33	1
m-Xylene & p-Xylene	<0.00230	U	0.00403	0.00230	mg/Kg	☼	10/03/24 10:32	10/05/24 01:33	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg	☼	10/03/24 10:32	10/05/24 01:33	1
Xylenes, Total	<0.00230	U	0.00403	0.00230	mg/Kg	☼	10/03/24 10:32	10/05/24 01:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*10/03/24 10:32*	*10/05/24 01:33*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*10/03/24 10:32*	*10/05/24 01:33*	*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	<14.6	U *+	50.4	14.6	mg/Kg	☼	10/03/24 09:22	10/05/24 06:55	1
Diesel Range Organics (Over C10-C28)	**135**	***+**	50.4	15.2	mg/Kg	☼	10/03/24 09:22	10/05/24 06:55	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.4	15.2	mg/Kg	☼	10/03/24 09:22	10/05/24 06:55	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 880-49315-1
Project/Site: Seawolf 94Y

Client Sample ID: 227
Lab Sample ID: 880-49315-27
Date Collected: 10/01/24 17:25
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 99.1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*10/03/24 09:22*	*10/05/24 06:55*	*1*
o-Terphenyl	*83*		*70 - 130*	*10/03/24 09:22*	*10/05/24 06:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**515**		5.08	0.402	mg/Kg	☼		10/04/24 10:52	1

Client Sample ID: 228
Lab Sample ID: 880-49315-28
Date Collected: 10/01/24 17:28
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 98.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00202	0.00141	mg/Kg	☼	10/03/24 10:32	10/05/24 01:54	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg	☼	10/03/24 10:32	10/05/24 01:54	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg	☼	10/03/24 10:32	10/05/24 01:54	1
m-Xylene & p-Xylene	<0.00231	U	0.00405	0.00231	mg/Kg	☼	10/03/24 10:32	10/05/24 01:54	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg	☼	10/03/24 10:32	10/05/24 01:54	1
Xylenes, Total	<0.00231	U	0.00405	0.00231	mg/Kg	☼	10/03/24 10:32	10/05/24 01:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*10/03/24 10:32*	*10/05/24 01:54*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*10/03/24 10:32*	*10/05/24 01:54*	*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	<14.7	U *+	50.6	14.7	mg/Kg	☼	10/03/24 09:22	10/05/24 07:13	1
Diesel Range Organics (Over C10-C28)	**28.1**	**J *+**	50.6	15.3	mg/Kg	☼	10/03/24 09:22	10/05/24 07:13	1
Oil Range Organics (Over C28-C36)	<15.3	U	50.6	15.3	mg/Kg	☼	10/03/24 09:22	10/05/24 07:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*10/03/24 09:22*	*10/05/24 07:13*	*1*
o-Terphenyl	*83*		*70 - 130*	*10/03/24 09:22*	*10/05/24 07:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**83.3**		5.05	0.399	mg/Kg	☼		10/04/24 10:58	1

Client Sample ID: 229
Lab Sample ID: 880-49315-29
Date Collected: 10/01/24 17:55
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 98.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00202	0.00141	mg/Kg	☼	10/03/24 10:32	10/05/24 02:14	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg	☼	10/03/24 10:32	10/05/24 02:14	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg	☼	10/03/24 10:32	10/05/24 02:14	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg	☼	10/03/24 10:32	10/05/24 02:14	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg	☼	10/03/24 10:32	10/05/24 02:14	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg	☼	10/03/24 10:32	10/05/24 02:14	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 94Y

Job ID: 880-49315-1

Client Sample ID: 229

Lab Sample ID: 880-49315-29
Date Collected: 10/01/24 17:55
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 98.4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*10/03/24 10:32*	*10/05/24 02:14*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*10/03/24 10:32*	*10/05/24 02:14*	*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	<14.7	U *+	50.5	14.7	mg/Kg	☼	10/03/24 09:22	10/05/24 07:28	1
Diesel Range Organics (Over C10-C28)	**260**	***+**	50.5	15.3	mg/Kg	☼	10/03/24 09:22	10/05/24 07:28	1
Oil Range Organics (Over C28-C36)	<15.3	U	50.5	15.3	mg/Kg	☼	10/03/24 09:22	10/05/24 07:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*10/03/24 09:22*	*10/05/24 07:28*	*1*
o-Terphenyl	*91*		*70 - 130*	*10/03/24 09:22*	*10/05/24 07:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3950**		50.4	3.98	mg/Kg	☼		10/04/24 11:04	10

Client Sample ID: 230

Lab Sample ID: 880-49315-30
Date Collected: 10/01/24 17:58
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 96.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00144	U	0.00206	0.00144	mg/Kg	☼	10/03/24 10:32	10/05/24 02:35	1
Toluene	<0.00206	U	0.00206	0.00206	mg/Kg	☼	10/03/24 10:32	10/05/24 02:35	1
Ethylbenzene	<0.00112	U	0.00206	0.00112	mg/Kg	☼	10/03/24 10:32	10/05/24 02:35	1
m-Xylene & p-Xylene	<0.00236	U	0.00412	0.00236	mg/Kg	☼	10/03/24 10:32	10/05/24 02:35	1
o-Xylene	<0.00163	U	0.00206	0.00163	mg/Kg	☼	10/03/24 10:32	10/05/24 02:35	1
Xylenes, Total	<0.00236	U	0.00412	0.00236	mg/Kg	☼	10/03/24 10:32	10/05/24 02:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*10/03/24 10:32*	*10/05/24 02:35*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*10/03/24 10:32*	*10/05/24 02:35*	*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	<15.0	U *+	51.4	15.0	mg/Kg	☼	10/03/24 09:22	10/05/24 07:45	1
Diesel Range Organics (Over C10-C28)	**279**	***+**	51.4	15.6	mg/Kg	☼	10/03/24 09:22	10/05/24 07:45	1
Oil Range Organics (Over C28-C36)	<15.6	U	51.4	15.6	mg/Kg	☼	10/03/24 09:22	10/05/24 07:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*10/03/24 09:22*	*10/05/24 07:45*	*1*
o-Terphenyl	*97*		*70 - 130*	*10/03/24 09:22*	*10/05/24 07:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5380**		52.2	4.12	mg/Kg	☼		10/04/24 11:11	10

Surrogate Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 94Y

Job ID: 880-49315-1

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-49315-1	201	149 S1+	92
880-49315-1 MS	201	137 S1+	91
880-49315-1 MSD	201	136 S1+	91
880-49315-2	202	145 S1+	92
880-49315-3	203	143 S1+	92
880-49315-4	204	146 S1+	93
880-49315-5	205	145 S1+	92
880-49315-6	206	145 S1+	91
880-49315-7	207	226 S1+	104
880-49315-8	208	139 S1+	90
880-49315-9	209	147 S1+	92
880-49315-10	210	143 S1+	91
880-49315-11	211	151 S1+	92
880-49315-12	212	142 S1+	93
880-49315-13	213	141 S1+	93
880-49315-14	214	141 S1+	93
880-49315-15	215	143 S1+	92
880-49315-16	216	144 S1+	91
880-49315-17	217	147 S1+	92
880-49315-18	218	143 S1+	91
880-49315-19	219	146 S1+	91
880-49315-20	220	147 S1+	92
880-49315-21	221	111	103
880-49315-21 MS	221	100	102
880-49315-21 MSD	221	109	102
880-49315-22	222	118	104
880-49315-23	223	116	101
880-49315-24	224	117	102
880-49315-25	225	115	101
880-49315-26	226	114	94
880-49315-27	227	112	100
880-49315-28	228	114	101
880-49315-29	229	104	103
880-49315-30	230	110	100
LCS 880-92464/1-A	Lab Control Sample	132 S1+	90
LCS 880-92465/1-A	Lab Control Sample	101	101
LCSD 880-92464/2-A	Lab Control Sample Dup	133 S1+	90
LCSD 880-92465/2-A	Lab Control Sample Dup	104	102
MB 880-92246/5-A	Method Blank	103	99
MB 880-92464/5-A	Method Blank	136 S1+	88
MB 880-92465/5-A	Method Blank	102	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 94Y

Job ID: 880-49315-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
880-49315-1	201	99	102								
880-49315-2	202	92	97								
880-49315-2 MS	202	103	97								
880-49315-2 MSD	202	103	97								
880-49315-3	203	110	119								
880-49315-4	204	83	90								
880-49315-5	205	82	93								
880-49315-6	206	83	94								
880-49315-7	207	96	107								
880-49315-8	208	83	99								
880-49315-9	209	83	96								
880-49315-10	210	83	92								
880-49315-11	211	77	86								
880-49315-12	212	73	82								
880-49315-13	213	84	90								
880-49315-14	214	101	108								
880-49315-15	215	100	105								
880-49315-16	216	89	93								
880-49315-17	217	94	102								
880-49315-18	218	85	91								
880-49315-19	219	105	115								
880-49315-20	220	91	99								
880-49315-21	221	82	90								
880-49315-22	222	102	89								
880-49315-23	223	102	92								
880-49315-24	224	104	88								
880-49315-25	225	103	86								
880-49315-26	226	108	93								
880-49315-27	227	96	83								
880-49315-28	228	97	83								
880-49315-29	229	100	91								
880-49315-30	230	111	97								
LCS 880-92451/2-A	Lab Control Sample	162 S1+	146 S1+								
LCS 880-92457/2-A	Lab Control Sample	156 S1+	145 S1+								
LCS 880-92458/2-A	Lab Control Sample	144 S1+	142 S1+								
LCSD 880-92451/3-A	Lab Control Sample Dup	175 S1+	162 S1+								
LCSD 880-92457/3-A	Lab Control Sample Dup	161 S1+	152 S1+								
LCSD 880-92458/3-A	Lab Control Sample Dup	126	124								
MB 880-92451/1-A	Method Blank	139 S1+	173 S1+								
MB 880-92457/1-A	Method Blank	123	130								
MB 880-92458/1-A	Method Blank	81	87								

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 94Y

Job ID: 880-49315-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-92246/5-A
Matrix: Solid
Analysis Batch: 92553

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92246

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		10/01/24 10:25	10/04/24 12:32	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		10/01/24 10:25	10/04/24 12:32	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		10/01/24 10:25	10/04/24 12:32	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		10/01/24 10:25	10/04/24 12:32	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		10/01/24 10:25	10/04/24 12:32	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		10/01/24 10:25	10/04/24 12:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*10/01/24 10:25*	*10/04/24 12:32*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*10/01/24 10:25*	*10/04/24 12:32*	*1*

Lab Sample ID: MB 880-92464/5-A
Matrix: Solid
Analysis Batch: 92640

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92464

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		10/03/24 10:27	10/06/24 20:21	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		10/03/24 10:27	10/06/24 20:21	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		10/03/24 10:27	10/06/24 20:21	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		10/03/24 10:27	10/06/24 20:21	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		10/03/24 10:27	10/06/24 20:21	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		10/03/24 10:27	10/06/24 20:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*	*10/03/24 10:27*	*10/06/24 20:21*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*10/03/24 10:27*	*10/06/24 20:21*	*1*

Lab Sample ID: LCS 880-92464/1-A
Matrix: Solid
Analysis Batch: 92640

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92464

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1000		mg/Kg		100	70 - 130
Toluene	0.100	0.1025		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.1049		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2165		mg/Kg		108	70 - 130
o-Xylene	0.100	0.1083		mg/Kg		108	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: LCSD 880-92464/2-A
Matrix: Solid
Analysis Batch: 92640

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 92464

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1017		mg/Kg		102	70 - 130	2	35

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 94Y

Job ID: 880-49315-1

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

Lab Sample ID: LCSD 880-92464/2-A
Matrix: Solid
Analysis Batch: 92640

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 92464

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1039		mg/Kg		104	70 - 130	1	35
Ethylbenzene			0.100	0.1063		mg/Kg		106	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.2190		mg/Kg		110	70 - 130	1	35
o-Xylene			0.100	0.1100		mg/Kg		110	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: 880-49315-1 MS
Matrix: Solid
Analysis Batch: 92640

Client Sample ID: 201
Prep Type: Total/NA
Prep Batch: 92464

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00146	U	0.105	0.09932		mg/Kg	☼	95	70 - 130
Toluene	<0.00210	U	0.105	0.09352		mg/Kg	☼	89	70 - 130
Ethylbenzene	<0.00114	U	0.105	0.08535		mg/Kg	☼	82	70 - 130
m-Xylene & p-Xylene	<0.00240	U	0.209	0.1755		mg/Kg	☼	84	70 - 130
o-Xylene	<0.00166	U	0.105	0.09027		mg/Kg	☼	86	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: 880-49315-1 MSD
Matrix: Solid
Analysis Batch: 92640

Client Sample ID: 201
Prep Type: Total/NA
Prep Batch: 92464

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00146	U	0.105	0.09741		mg/Kg	☼	93	70 - 130	2	35
Toluene	<0.00210	U	0.105	0.08966		mg/Kg	☼	85	70 - 130	4	35
Ethylbenzene	<0.00114	U	0.105	0.08036		mg/Kg	☼	77	70 - 130	6	35
m-Xylene & p-Xylene	<0.00240	U	0.210	0.1639		mg/Kg	☼	78	70 - 130	7	35
o-Xylene	<0.00166	U	0.105	0.08552		mg/Kg	☼	82	70 - 130	5	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: MB 880-92465/5-A
Matrix: Solid
Analysis Batch: 92553

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92465

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		10/03/24 10:32	10/04/24 23:09	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		10/03/24 10:32	10/04/24 23:09	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		10/03/24 10:32	10/04/24 23:09	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		10/03/24 10:32	10/04/24 23:09	1

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 94Y

Job ID: 880-49315-1

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

Lab Sample ID: MB 880-92465/5-A
Matrix: Solid
Analysis Batch: 92553

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92465

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		10/03/24 10:32	10/04/24 23:09	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		10/03/24 10:32	10/04/24 23:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*10/03/24 10:32*	*10/04/24 23:09*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*10/03/24 10:32*	*10/04/24 23:09*	*1*

Lab Sample ID: LCS 880-92465/1-A
Matrix: Solid
Analysis Batch: 92553

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92465

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08273		mg/Kg		83	70 - 130
Toluene	0.100	0.07740		mg/Kg		77	70 - 130
Ethylbenzene	0.100	0.07463		mg/Kg		75	70 - 130
m-Xylene & p-Xylene	0.200	0.1592		mg/Kg		80	70 - 130
o-Xylene	0.100	0.08215		mg/Kg		82	70 - 130

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

Lab Sample ID: LCSD 880-92465/2-A
Matrix: Solid
Analysis Batch: 92553

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 92465

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08418		mg/Kg		84	70 - 130	2	35
Toluene	0.100	0.08004		mg/Kg		80	70 - 130	3	35
Ethylbenzene	0.100	0.07944		mg/Kg		79	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1709		mg/Kg		85	70 - 130	7	35
o-Xylene	0.100	0.08741		mg/Kg		87	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 880-49315-21 MS
Matrix: Solid
Analysis Batch: 92553

Client Sample ID: 221
Prep Type: Total/NA
Prep Batch: 92465

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00141	U	0.101	0.07207		mg/Kg	☼	71	70 - 130
Toluene	<0.00203	U F1	0.101	0.06683	F1	mg/Kg	☼	66	70 - 130
Ethylbenzene	<0.00110	U F1	0.101	0.06461	F1	mg/Kg	☼	64	70 - 130
m-Xylene & p-Xylene	<0.00232	U F1	0.202	0.1373	F1	mg/Kg	☼	68	70 - 130
o-Xylene	<0.00161	U F1	0.101	0.06971	F1	mg/Kg	☼	69	70 - 130

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 94Y

Job ID: 880-49315-1

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

Lab Sample ID: 880-49315-21 MS
Matrix: Solid
Analysis Batch: 92553

Client Sample ID: 221
Prep Type: Total/NA
Prep Batch: 92465

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 880-49315-21 MSD
Matrix: Solid
Analysis Batch: 92553

Client Sample ID: 221
Prep Type: Total/NA
Prep Batch: 92465

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00141	U	0.101	0.07943		mg/Kg	☼	78	70 - 130	10	35
Toluene	<0.00203	U F1	0.101	0.07238		mg/Kg	☼	71	70 - 130	8	35
Ethylbenzene	<0.00110	U F1	0.101	0.06843	F1	mg/Kg	☼	67	70 - 130	6	35
m-Xylene & p-Xylene	<0.00232	U F1	0.203	0.1448		mg/Kg	☼	71	70 - 130	5	35
o-Xylene	<0.00161	U F1	0.101	0.07255		mg/Kg	☼	72	70 - 130	4	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

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

Lab Sample ID: MB 880-92451/1-A
Matrix: Solid
Analysis Batch: 92613

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92451

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		10/03/24 09:22	10/05/24 01:00	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		10/03/24 09:22	10/05/24 01:00	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		10/03/24 09:22	10/05/24 01:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*139*	*S1+*	*70 - 130*	*10/03/24 09:22*	*10/05/24 01:00*	*1*
o-Terphenyl	*173*	*S1+*	*70 - 130*	*10/03/24 09:22*	*10/05/24 01:00*	*1*

Lab Sample ID: LCS 880-92451/2-A
Matrix: Solid
Analysis Batch: 92613

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92451

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1397	*+	mg/Kg		140	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1199		mg/Kg		120	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	*162*	*S1+*	*70 - 130*
o-Terphenyl	*146*	*S1+*	*70 - 130*

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 94Y

Job ID: 880-49315-1

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

Lab Sample ID: LCSD 880-92451/3-A
Matrix: Solid
Analysis Batch: 92613

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 92451

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1448	*+	mg/Kg		145	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	1323	*+	mg/Kg		132	70 - 130	10	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*175*	*S1+*	*70 - 130*
o-Terphenyl	*162*	*S1+*	*70 - 130*

Lab Sample ID: MB 880-92457/1-A
Matrix: Solid
Analysis Batch: 92490

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92457

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	19.31	J	50.0	14.5	mg/Kg		10/03/24 09:59	10/04/24 12:27	1
Diesel Range Organics (Over C10-C28)	23.07	J	50.0	15.1	mg/Kg		10/03/24 09:59	10/04/24 12:27	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		10/03/24 09:59	10/04/24 12:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*70 - 130*	*10/03/24 09:59*	*10/04/24 12:27*	*1*
o-Terphenyl	*130*		*70 - 130*	*10/03/24 09:59*	*10/04/24 12:27*	*1*

Lab Sample ID: LCS 880-92457/2-A
Matrix: Solid
Analysis Batch: 92490

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92457

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1156		mg/Kg		116	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1156		mg/Kg		116	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*156*	*S1+*	*70 - 130*
o-Terphenyl	*145*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-92457/3-A
Matrix: Solid
Analysis Batch: 92490

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 92457

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1131		mg/Kg		113	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1173		mg/Kg		117	70 - 130	1	20

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 94Y

Job ID: 880-49315-1

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

Lab Sample ID: LCSD 880-92457/3-A
Matrix: Solid
Analysis Batch: 92490

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 92457

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	161	S1+	70 - 130
o-Terphenyl	152	S1+	70 - 130

Lab Sample ID: MB 880-92458/1-A
Matrix: Solid
Analysis Batch: 92492

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92458

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		10/03/24 10:03	10/04/24 12:27	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		10/03/24 10:03	10/04/24 12:27	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		10/03/24 10:03	10/04/24 12:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	10/03/24 10:03	10/04/24 12:27	1
o-Terphenyl	87		70 - 130	10/03/24 10:03	10/04/24 12:27	1

Lab Sample ID: LCS 880-92458/2-A
Matrix: Solid
Analysis Batch: 92492

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92458

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	998.5		mg/Kg		100	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1160		mg/Kg		116	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	144	S1+	70 - 130
o-Terphenyl	142	S1+	70 - 130

Lab Sample ID: LCSD 880-92458/3-A
Matrix: Solid
Analysis Batch: 92492

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 92458

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	867.9		mg/Kg		87	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	1000	970.1		mg/Kg		97	70 - 130	18	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	126		70 - 130
o-Terphenyl	124		70 - 130

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 94Y

Job ID: 880-49315-1

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

Lab Sample ID: 880-49315-2 MS
Matrix: Solid
Analysis Batch: 92492

Client Sample ID: 202
Prep Type: Total/NA
Prep Batch: 92458

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	1030	938.5		mg/Kg	☼	91	70 - 130
Diesel Range Organics (Over C10-C28)	99.7		1030	915.6		mg/Kg	☼	79	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 130*
o-Terphenyl	*97*		*70 - 130*

Lab Sample ID: 880-49315-2 MSD
Matrix: Solid
Analysis Batch: 92492

Client Sample ID: 202
Prep Type: Total/NA
Prep Batch: 92458

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	<15.0	U	1030	947.3		mg/Kg	☼	92	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	99.7		1030	941.4		mg/Kg	☼	81	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 130*
o-Terphenyl	*97*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-92462/1-A
Matrix: Solid
Analysis Batch: 92497

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			10/05/24 00:12	1

Lab Sample ID: LCS 880-92462/2-A
Matrix: Solid
Analysis Batch: 92497

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	267.7		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-92462/3-A
Matrix: Solid
Analysis Batch: 92497

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	262.6		mg/Kg		105	90 - 110	2	20

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 94Y

Job ID: 880-49315-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-92463/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 92498

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			10/04/24 20:27	1

Lab Sample ID: LCS 880-92463/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 92498

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	262.7		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-92463/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 92498

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	260.8		mg/Kg		104	90 - 110	1	20

Lab Sample ID: 880-49315-2 MS — **Client Sample ID: 202**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 92498

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2930	F1	1300	4626	F1	mg/Kg	☼	130	90 - 110

Lab Sample ID: 880-49315-2 MSD — **Client Sample ID: 202**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 92498

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2930	F1	1300	4587	F1	mg/Kg	☼	127	90 - 110	1	20

Lab Sample ID: 880-49315-12 MS — **Client Sample ID: 212**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 92498

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	6900	F1	2590	10830	F1	mg/Kg	☼	151	90 - 110

Lab Sample ID: 880-49315-12 MSD — **Client Sample ID: 212**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 92498

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	6900	F1	2590	10820	F1	mg/Kg	☼	151	90 - 110	0	20

Lab Sample ID: MB 880-92521/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 92552

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			10/04/24 09:34	1

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 94Y

Job ID: 880-49315-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-92521/2-A
Matrix: Solid
Analysis Batch: 92552

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	250.7		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-92521/3-A
Matrix: Solid
Analysis Batch: 92552

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	248.0		mg/Kg		99	90 - 110	1	20

Lab Sample ID: 880-49315-22 MS
Matrix: Solid
Analysis Batch: 92552

Client Sample ID: 222
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	762	F1	251	976.7	F1	mg/Kg	☼	86	90 - 110		

Lab Sample ID: 880-49315-22 MSD
Matrix: Solid
Analysis Batch: 92552

Client Sample ID: 222
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	762	F1	251	980.7	F1	mg/Kg	☼	87	90 - 110	0	20

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 94Y

Job ID: 880-49315-1

GC VOA

Prep Batch: 92246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-92246/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 92464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49315-1	201	Total/NA	Solid	5035	
880-49315-2	202	Total/NA	Solid	5035	
880-49315-3	203	Total/NA	Solid	5035	
880-49315-4	204	Total/NA	Solid	5035	
880-49315-5	205	Total/NA	Solid	5035	
880-49315-6	206	Total/NA	Solid	5035	
880-49315-7	207	Total/NA	Solid	5035	
880-49315-8	208	Total/NA	Solid	5035	
880-49315-9	209	Total/NA	Solid	5035	
880-49315-10	210	Total/NA	Solid	5035	
880-49315-11	211	Total/NA	Solid	5035	
880-49315-12	212	Total/NA	Solid	5035	
880-49315-13	213	Total/NA	Solid	5035	
880-49315-14	214	Total/NA	Solid	5035	
880-49315-15	215	Total/NA	Solid	5035	
880-49315-16	216	Total/NA	Solid	5035	
880-49315-17	217	Total/NA	Solid	5035	
880-49315-18	218	Total/NA	Solid	5035	
880-49315-19	219	Total/NA	Solid	5035	
880-49315-20	220	Total/NA	Solid	5035	
MB 880-92464/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-92464/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-92464/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-49315-1 MS	201	Total/NA	Solid	5035	
880-49315-1 MSD	201	Total/NA	Solid	5035	

Prep Batch: 92465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49315-21	221	Total/NA	Solid	5035	
880-49315-22	222	Total/NA	Solid	5035	
880-49315-23	223	Total/NA	Solid	5035	
880-49315-24	224	Total/NA	Solid	5035	
880-49315-25	225	Total/NA	Solid	5035	
880-49315-26	226	Total/NA	Solid	5035	
880-49315-27	227	Total/NA	Solid	5035	
880-49315-28	228	Total/NA	Solid	5035	
880-49315-29	229	Total/NA	Solid	5035	
880-49315-30	230	Total/NA	Solid	5035	
MB 880-92465/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-92465/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-92465/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-49315-21 MS	221	Total/NA	Solid	5035	
880-49315-21 MSD	221	Total/NA	Solid	5035	

Analysis Batch: 92553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49315-21	221	Total/NA	Solid	8021B	92465

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 94Y

Job ID: 880-49315-1

GC VOA (Continued)

Analysis Batch: 92553 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49315-22	222	Total/NA	Solid	8021B	92465
880-49315-23	223	Total/NA	Solid	8021B	92465
880-49315-24	224	Total/NA	Solid	8021B	92465
880-49315-25	225	Total/NA	Solid	8021B	92465
880-49315-26	226	Total/NA	Solid	8021B	92465
880-49315-27	227	Total/NA	Solid	8021B	92465
880-49315-28	228	Total/NA	Solid	8021B	92465
880-49315-29	229	Total/NA	Solid	8021B	92465
880-49315-30	230	Total/NA	Solid	8021B	92465
MB 880-92246/5-A	Method Blank	Total/NA	Solid	8021B	92246
MB 880-92465/5-A	Method Blank	Total/NA	Solid	8021B	92465
LCS 880-92465/1-A	Lab Control Sample	Total/NA	Solid	8021B	92465
LCSD 880-92465/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	92465
880-49315-21 MS	221	Total/NA	Solid	8021B	92465
880-49315-21 MSD	221	Total/NA	Solid	8021B	92465

Analysis Batch: 92640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49315-1	201	Total/NA	Solid	8021B	92464
880-49315-2	202	Total/NA	Solid	8021B	92464
880-49315-3	203	Total/NA	Solid	8021B	92464
880-49315-4	204	Total/NA	Solid	8021B	92464
880-49315-5	205	Total/NA	Solid	8021B	92464
880-49315-6	206	Total/NA	Solid	8021B	92464
880-49315-7	207	Total/NA	Solid	8021B	92464
880-49315-8	208	Total/NA	Solid	8021B	92464
880-49315-9	209	Total/NA	Solid	8021B	92464
880-49315-10	210	Total/NA	Solid	8021B	92464
880-49315-11	211	Total/NA	Solid	8021B	92464
880-49315-12	212	Total/NA	Solid	8021B	92464
880-49315-13	213	Total/NA	Solid	8021B	92464
880-49315-14	214	Total/NA	Solid	8021B	92464
880-49315-15	215	Total/NA	Solid	8021B	92464
880-49315-16	216	Total/NA	Solid	8021B	92464
880-49315-17	217	Total/NA	Solid	8021B	92464
880-49315-18	218	Total/NA	Solid	8021B	92464
880-49315-19	219	Total/NA	Solid	8021B	92464
880-49315-20	220	Total/NA	Solid	8021B	92464
MB 880-92464/5-A	Method Blank	Total/NA	Solid	8021B	92464
LCS 880-92464/1-A	Lab Control Sample	Total/NA	Solid	8021B	92464
LCSD 880-92464/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	92464
880-49315-1 MS	201	Total/NA	Solid	8021B	92464
880-49315-1 MSD	201	Total/NA	Solid	8021B	92464

GC Semi VOA

Prep Batch: 92451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49315-22	222	Total/NA	Solid	8015NM Prep	
880-49315-23	223	Total/NA	Solid	8015NM Prep	
880-49315-24	224	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 94Y

Job ID: 880-49315-1

GC Semi VOA (Continued)

Prep Batch: 92451 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49315-25	225	Total/NA	Solid	8015NM Prep	
880-49315-26	226	Total/NA	Solid	8015NM Prep	
880-49315-27	227	Total/NA	Solid	8015NM Prep	
880-49315-28	228	Total/NA	Solid	8015NM Prep	
880-49315-29	229	Total/NA	Solid	8015NM Prep	
880-49315-30	230	Total/NA	Solid	8015NM Prep	
MB 880-92451/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-92451/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-92451/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 92457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49315-1	201	Total/NA	Solid	8015NM Prep	
MB 880-92457/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-92457/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-92457/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 92458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49315-2	202	Total/NA	Solid	8015NM Prep	
880-49315-3	203	Total/NA	Solid	8015NM Prep	
880-49315-4	204	Total/NA	Solid	8015NM Prep	
880-49315-5	205	Total/NA	Solid	8015NM Prep	
880-49315-6	206	Total/NA	Solid	8015NM Prep	
880-49315-7	207	Total/NA	Solid	8015NM Prep	
880-49315-8	208	Total/NA	Solid	8015NM Prep	
880-49315-9	209	Total/NA	Solid	8015NM Prep	
880-49315-10	210	Total/NA	Solid	8015NM Prep	
880-49315-11	211	Total/NA	Solid	8015NM Prep	
880-49315-12	212	Total/NA	Solid	8015NM Prep	
880-49315-13	213	Total/NA	Solid	8015NM Prep	
880-49315-14	214	Total/NA	Solid	8015NM Prep	
880-49315-15	215	Total/NA	Solid	8015NM Prep	
880-49315-16	216	Total/NA	Solid	8015NM Prep	
880-49315-17	217	Total/NA	Solid	8015NM Prep	
880-49315-18	218	Total/NA	Solid	8015NM Prep	
880-49315-19	219	Total/NA	Solid	8015NM Prep	
880-49315-20	220	Total/NA	Solid	8015NM Prep	
880-49315-21	221	Total/NA	Solid	8015NM Prep	
MB 880-92458/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-92458/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-92458/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-49315-2 MS	202	Total/NA	Solid	8015NM Prep	
880-49315-2 MSD	202	Total/NA	Solid	8015NM Prep	

Analysis Batch: 92490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49315-1	201	Total/NA	Solid	8015B NM	92457
MB 880-92457/1-A	Method Blank	Total/NA	Solid	8015B NM	92457
LCS 880-92457/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	92457
LCSD 880-92457/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	92457

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 94Y

Job ID: 880-49315-1

GC Semi VOA

Analysis Batch: 92492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49315-2	202	Total/NA	Solid	8015B NM	92458
880-49315-3	203	Total/NA	Solid	8015B NM	92458
880-49315-4	204	Total/NA	Solid	8015B NM	92458
880-49315-5	205	Total/NA	Solid	8015B NM	92458
880-49315-6	206	Total/NA	Solid	8015B NM	92458
880-49315-7	207	Total/NA	Solid	8015B NM	92458
880-49315-8	208	Total/NA	Solid	8015B NM	92458
880-49315-9	209	Total/NA	Solid	8015B NM	92458
880-49315-10	210	Total/NA	Solid	8015B NM	92458
880-49315-11	211	Total/NA	Solid	8015B NM	92458
880-49315-12	212	Total/NA	Solid	8015B NM	92458
880-49315-13	213	Total/NA	Solid	8015B NM	92458
880-49315-14	214	Total/NA	Solid	8015B NM	92458
880-49315-15	215	Total/NA	Solid	8015B NM	92458
880-49315-16	216	Total/NA	Solid	8015B NM	92458
880-49315-17	217	Total/NA	Solid	8015B NM	92458
880-49315-18	218	Total/NA	Solid	8015B NM	92458
880-49315-19	219	Total/NA	Solid	8015B NM	92458
880-49315-20	220	Total/NA	Solid	8015B NM	92458
880-49315-21	221	Total/NA	Solid	8015B NM	92458
MB 880-92458/1-A	Method Blank	Total/NA	Solid	8015B NM	92458
LCS 880-92458/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	92458
LCSD 880-92458/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	92458
880-49315-2 MS	202	Total/NA	Solid	8015B NM	92458
880-49315-2 MSD	202	Total/NA	Solid	8015B NM	92458

Analysis Batch: 92613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49315-22	222	Total/NA	Solid	8015B NM	92451
880-49315-23	223	Total/NA	Solid	8015B NM	92451
880-49315-24	224	Total/NA	Solid	8015B NM	92451
880-49315-25	225	Total/NA	Solid	8015B NM	92451
880-49315-26	226	Total/NA	Solid	8015B NM	92451
880-49315-27	227	Total/NA	Solid	8015B NM	92451
880-49315-28	228	Total/NA	Solid	8015B NM	92451
880-49315-29	229	Total/NA	Solid	8015B NM	92451
880-49315-30	230	Total/NA	Solid	8015B NM	92451
MB 880-92451/1-A	Method Blank	Total/NA	Solid	8015B NM	92451
LCS 880-92451/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	92451
LCSD 880-92451/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	92451

HPLC/IC

Leach Batch: 92462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49315-1	201	Soluble	Solid	DI Leach	
MB 880-92462/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-92462/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-92462/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 94Y

Job ID: 880-49315-1

HPLC/IC

Leach Batch: 92463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49315-2	202	Soluble	Solid	DI Leach	
880-49315-3	203	Soluble	Solid	DI Leach	
880-49315-4	204	Soluble	Solid	DI Leach	
880-49315-5	205	Soluble	Solid	DI Leach	
880-49315-6	206	Soluble	Solid	DI Leach	
880-49315-7	207	Soluble	Solid	DI Leach	
880-49315-8	208	Soluble	Solid	DI Leach	
880-49315-9	209	Soluble	Solid	DI Leach	
880-49315-10	210	Soluble	Solid	DI Leach	
880-49315-11	211	Soluble	Solid	DI Leach	
880-49315-12	212	Soluble	Solid	DI Leach	
880-49315-13	213	Soluble	Solid	DI Leach	
880-49315-14	214	Soluble	Solid	DI Leach	
880-49315-15	215	Soluble	Solid	DI Leach	
880-49315-16	216	Soluble	Solid	DI Leach	
880-49315-17	217	Soluble	Solid	DI Leach	
880-49315-18	218	Soluble	Solid	DI Leach	
880-49315-19	219	Soluble	Solid	DI Leach	
880-49315-20	220	Soluble	Solid	DI Leach	
880-49315-21	221	Soluble	Solid	DI Leach	
MB 880-92463/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-92463/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-92463/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-49315-2 MS	202	Soluble	Solid	DI Leach	
880-49315-2 MSD	202	Soluble	Solid	DI Leach	
880-49315-12 MS	212	Soluble	Solid	DI Leach	
880-49315-12 MSD	212	Soluble	Solid	DI Leach	

Analysis Batch: 92497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49315-1	201	Soluble	Solid	300.0	92462
MB 880-92462/1-A	Method Blank	Soluble	Solid	300.0	92462
LCS 880-92462/2-A	Lab Control Sample	Soluble	Solid	300.0	92462
LCSD 880-92462/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	92462

Analysis Batch: 92498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49315-2	202	Soluble	Solid	300.0	92463
880-49315-3	203	Soluble	Solid	300.0	92463
880-49315-4	204	Soluble	Solid	300.0	92463
880-49315-5	205	Soluble	Solid	300.0	92463
880-49315-6	206	Soluble	Solid	300.0	92463
880-49315-7	207	Soluble	Solid	300.0	92463
880-49315-8	208	Soluble	Solid	300.0	92463
880-49315-9	209	Soluble	Solid	300.0	92463
880-49315-10	210	Soluble	Solid	300.0	92463
880-49315-11	211	Soluble	Solid	300.0	92463
880-49315-12	212	Soluble	Solid	300.0	92463
880-49315-13	213	Soluble	Solid	300.0	92463
880-49315-14	214	Soluble	Solid	300.0	92463
880-49315-15	215	Soluble	Solid	300.0	92463

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 94Y

Job ID: 880-49315-1

HPLC/IC (Continued)

Analysis Batch: 92498 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49315-16	216	Soluble	Solid	300.0	92463
880-49315-17	217	Soluble	Solid	300.0	92463
880-49315-18	218	Soluble	Solid	300.0	92463
880-49315-19	219	Soluble	Solid	300.0	92463
880-49315-20	220	Soluble	Solid	300.0	92463
880-49315-21	221	Soluble	Solid	300.0	92463
MB 880-92463/1-A	Method Blank	Soluble	Solid	300.0	92463
LCS 880-92463/2-A	Lab Control Sample	Soluble	Solid	300.0	92463
LCSD 880-92463/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	92463
880-49315-2 MS	202	Soluble	Solid	300.0	92463
880-49315-2 MSD	202	Soluble	Solid	300.0	92463
880-49315-12 MS	212	Soluble	Solid	300.0	92463
880-49315-12 MSD	212	Soluble	Solid	300.0	92463

Leach Batch: 92521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49315-22	222	Soluble	Solid	DI Leach	
880-49315-23	223	Soluble	Solid	DI Leach	
880-49315-24	224	Soluble	Solid	DI Leach	
880-49315-25	225	Soluble	Solid	DI Leach	
880-49315-26	226	Soluble	Solid	DI Leach	
880-49315-27	227	Soluble	Solid	DI Leach	
880-49315-28	228	Soluble	Solid	DI Leach	
880-49315-29	229	Soluble	Solid	DI Leach	
880-49315-30	230	Soluble	Solid	DI Leach	
MB 880-92521/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-92521/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-92521/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-49315-22 MS	222	Soluble	Solid	DI Leach	
880-49315-22 MSD	222	Soluble	Solid	DI Leach	

Analysis Batch: 92552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49315-22	222	Soluble	Solid	300.0	92521
880-49315-23	223	Soluble	Solid	300.0	92521
880-49315-24	224	Soluble	Solid	300.0	92521
880-49315-25	225	Soluble	Solid	300.0	92521
880-49315-26	226	Soluble	Solid	300.0	92521
880-49315-27	227	Soluble	Solid	300.0	92521
880-49315-28	228	Soluble	Solid	300.0	92521
880-49315-29	229	Soluble	Solid	300.0	92521
880-49315-30	230	Soluble	Solid	300.0	92521
MB 880-92521/1-A	Method Blank	Soluble	Solid	300.0	92521
LCS 880-92521/2-A	Lab Control Sample	Soluble	Solid	300.0	92521
LCSD 880-92521/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	92521
880-49315-22 MS	222	Soluble	Solid	300.0	92521
880-49315-22 MSD	222	Soluble	Solid	300.0	92521

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 94Y

Job ID: 880-49315-1

General Chemistry

Analysis Batch: 92532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49315-1	201	Total/NA	Solid	D2216	
880-49315-2	202	Total/NA	Solid	D2216	
880-49315-3	203	Total/NA	Solid	D2216	
880-49315-4	204	Total/NA	Solid	D2216	
880-49315-5	205	Total/NA	Solid	D2216	
880-49315-6	206	Total/NA	Solid	D2216	
880-49315-7	207	Total/NA	Solid	D2216	
880-49315-8	208	Total/NA	Solid	D2216	
880-49315-9	209	Total/NA	Solid	D2216	
880-49315-10	210	Total/NA	Solid	D2216	
880-49315-11	211	Total/NA	Solid	D2216	
880-49315-12	212	Total/NA	Solid	D2216	
880-49315-13	213	Total/NA	Solid	D2216	
880-49315-14	214	Total/NA	Solid	D2216	
880-49315-15	215	Total/NA	Solid	D2216	
880-49315-16	216	Total/NA	Solid	D2216	
880-49315-17	217	Total/NA	Solid	D2216	
880-49315-18	218	Total/NA	Solid	D2216	
880-49315-19	219	Total/NA	Solid	D2216	
880-49315-20	220	Total/NA	Solid	D2216	
MB 880-92532/1	Method Blank	Total/NA	Solid	D2216	
880-49315-1 DU	201	Total/NA	Solid	D2216	
880-49315-11 DU	211	Total/NA	Solid	D2216	

Analysis Batch: 92533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49315-21	221	Total/NA	Solid	D2216	
880-49315-22	222	Total/NA	Solid	D2216	
880-49315-23	223	Total/NA	Solid	D2216	
880-49315-24	224	Total/NA	Solid	D2216	
880-49315-25	225	Total/NA	Solid	D2216	
880-49315-26	226	Total/NA	Solid	D2216	
880-49315-27	227	Total/NA	Solid	D2216	
880-49315-28	228	Total/NA	Solid	D2216	
880-49315-29	229	Total/NA	Solid	D2216	
880-49315-30	230	Total/NA	Solid	D2216	
MB 880-92533/1	Method Blank	Total/NA	Solid	D2216	
880-49315-21 DU	221	Total/NA	Solid	D2216	

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-49315-1
Project/Site: Seawolf 94Y

Client Sample ID: 201
Lab Sample ID: 880-49315-1
Date Collected: 10/01/24 16:15
Matrix: Solid
Date Received: 10/03/24 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			92532	10/03/24 19:17	SMC	EET MID

Client Sample ID: 201
Lab Sample ID: 880-49315-1
Date Collected: 10/01/24 16:15
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 95.5

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	92464	10/03/24 10:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92640	10/06/24 20:43	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10.00 mL	92457	10/03/24 09:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92490	10/04/24 23:10	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	92462	10/03/24 10:17	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	92497	10/05/24 03:24	CH	EET MID

Client Sample ID: 202
Lab Sample ID: 880-49315-2
Date Collected: 10/01/24 16:18
Matrix: Solid
Date Received: 10/03/24 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			92532	10/03/24 19:17	SMC	EET MID

Client Sample ID: 202
Lab Sample ID: 880-49315-2
Date Collected: 10/01/24 16:18
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 96.5

Prep 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	92464	10/03/24 10:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92640	10/06/24 21:03	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10.00 mL	92458	10/03/24 10:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92492	10/04/24 17:40	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	92463	10/03/24 10:20	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	92498	10/04/24 20:46	CH	EET MID

Client Sample ID: 203
Lab Sample ID: 880-49315-3
Date Collected: 10/01/24 16:20
Matrix: Solid
Date Received: 10/03/24 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			92532	10/03/24 19:17	SMC	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 94Y

Job ID: 880-49315-1

Client Sample ID: 203
Lab Sample ID: 880-49315-3
Date Collected: 10/01/24 16:20
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 95.8

Prep 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	92464	10/03/24 10:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92640	10/06/24 21:24	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10.00 mL	92458	10/03/24 10:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92492	10/04/24 18:26	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	92463	10/03/24 10:20	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92498	10/04/24 21:05	CH	EET MID

Client Sample ID: 204
Lab Sample ID: 880-49315-4
Date Collected: 10/01/24 16:22
Matrix: Solid
Date Received: 10/03/24 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			92532	10/03/24 19:17	SMC	EET MID

Client Sample ID: 204
Lab Sample ID: 880-49315-4
Date Collected: 10/01/24 16:22
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 93.1

Prep 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	92464	10/03/24 10:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92640	10/06/24 21:44	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10.00 mL	92458	10/03/24 10:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92492	10/04/24 18:41	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	92463	10/03/24 10:20	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	92498	10/04/24 21:12	CH	EET MID

Client Sample ID: 205
Lab Sample ID: 880-49315-5
Date Collected: 10/01/24 16:25
Matrix: Solid
Date Received: 10/03/24 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			92532	10/03/24 19:17	SMC	EET MID

Client Sample ID: 205
Lab Sample ID: 880-49315-5
Date Collected: 10/01/24 16:25
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 95.8

Prep 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	92464	10/03/24 10:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92640	10/06/24 22:04	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10.00 mL	92458	10/03/24 10:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92492	10/04/24 18:57	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	92463	10/03/24 10:20	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	92498	10/04/24 21:18	CH	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 94Y

Job ID: 880-49315-1

Client Sample ID: 206
Lab Sample ID: 880-49315-6
Date Collected: 10/01/24 16:28
Matrix: Solid
Date Received: 10/03/24 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			92532	10/03/24 19:17	SMC	EET MID

Client Sample ID: 206
Lab Sample ID: 880-49315-6
Date Collected: 10/01/24 16:28
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 95.8

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	92464	10/03/24 10:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92640	10/06/24 22:25	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10.00 mL	92458	10/03/24 10:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92492	10/04/24 19:11	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	92463	10/03/24 10:20	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	92498	10/04/24 21:25	CH	EET MID

Client Sample ID: 207
Lab Sample ID: 880-49315-7
Date Collected: 10/01/24 16:31
Matrix: Solid
Date Received: 10/03/24 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			92532	10/03/24 19:17	SMC	EET MID

Client Sample ID: 207
Lab Sample ID: 880-49315-7
Date Collected: 10/01/24 16:31
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 96.9

Prep 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	92464	10/03/24 10:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92640	10/06/24 22:45	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	92458	10/03/24 10:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92492	10/04/24 19:26	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	92463	10/03/24 10:20	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	92498	10/04/24 21:44	CH	EET MID

Client Sample ID: 208
Lab Sample ID: 880-49315-8
Date Collected: 10/01/24 16:35
Matrix: Solid
Date Received: 10/03/24 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			92532	10/03/24 19:17	SMC	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-49315-1
Project/Site: Seawolf 94Y

Client Sample ID: 208
Lab Sample ID: 880-49315-8
Date Collected: 10/01/24 16:35
Matrix: Solid
Date Received: 10/03/24 08:23
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			5.02 g	5 mL	92464	10/03/24 10:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92640	10/06/24 23:06	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10.00 mL	92458	10/03/24 10:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92492	10/04/24 19:41	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	92463	10/03/24 10:20	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	92498	10/04/24 21:50	CH	EET MID

Client Sample ID: 209
Lab Sample ID: 880-49315-9
Date Collected: 10/01/24 16:38
Matrix: Solid
Date Received: 10/03/24 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			92532	10/03/24 19:17	SMC	EET MID

Client Sample ID: 209
Lab Sample ID: 880-49315-9
Date Collected: 10/01/24 16:38
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 98.2

Prep 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	92464	10/03/24 10:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92640	10/06/24 23:26	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10.00 mL	92458	10/03/24 10:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92492	10/04/24 19:57	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	92463	10/03/24 10:20	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	92498	10/04/24 21:57	CH	EET MID

Client Sample ID: 210
Lab Sample ID: 880-49315-10
Date Collected: 10/01/24 16:40
Matrix: Solid
Date Received: 10/03/24 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			92532	10/03/24 19:17	SMC	EET MID

Client Sample ID: 210
Lab Sample ID: 880-49315-10
Date Collected: 10/01/24 16:40
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 95.8

Prep 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	92464	10/03/24 10:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92640	10/06/24 23:47	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10.00 mL	92458	10/03/24 10:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92492	10/04/24 20:11	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	92463	10/03/24 10:20	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	92498	10/04/24 22:03	CH	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-49315-1
Project/Site: Seawolf 94Y

Client Sample ID: 211
Lab Sample ID: 880-49315-11
Date Collected: 10/01/24 16:45
Matrix: Solid
Date Received: 10/03/24 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			92532	10/03/24 19:17	SMC	EET MID

Client Sample ID: 211
Lab Sample ID: 880-49315-11
Date Collected: 10/01/24 16:45
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 96.1

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	92464	10/03/24 10:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92640	10/07/24 01:21	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10.00 mL	92458	10/03/24 10:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92492	10/04/24 20:26	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	92463	10/03/24 10:20	SA	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	92498	10/04/24 22:10	CH	EET MID

Client Sample ID: 212
Lab Sample ID: 880-49315-12
Date Collected: 10/01/24 16:48
Matrix: Solid
Date Received: 10/03/24 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			92532	10/03/24 19:17	SMC	EET MID

Client Sample ID: 212
Lab Sample ID: 880-49315-12
Date Collected: 10/01/24 16:48
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 95.6

Prep 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	92464	10/03/24 10:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92640	10/07/24 01:42	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10.00 mL	92458	10/03/24 10:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92492	10/04/24 20:56	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	92463	10/03/24 10:20	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	92498	10/04/24 22:16	CH	EET MID

Client Sample ID: 213
Lab Sample ID: 880-49315-13
Date Collected: 10/01/24 16:50
Matrix: Solid
Date Received: 10/03/24 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			92532	10/03/24 19:17	SMC	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-49315-1
Project/Site: Seawolf 94Y

Client Sample ID: 213
Lab Sample ID: 880-49315-13
Date Collected: 10/01/24 16:50
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 97.3

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	92464	10/03/24 10:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92640	10/07/24 02:02	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	92458	10/03/24 10:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92492	10/04/24 21:11	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	92463	10/03/24 10:20	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	92498	10/04/24 22:35	CH	EET MID

Client Sample ID: 214
Lab Sample ID: 880-49315-14
Date Collected: 10/01/24 16:52
Matrix: Solid
Date Received: 10/03/24 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			92532	10/03/24 19:17	SMC	EET MID

Client Sample ID: 214
Lab Sample ID: 880-49315-14
Date Collected: 10/01/24 16:52
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 76.7

Prep 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	92464	10/03/24 10:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92640	10/07/24 02:22	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10.00 mL	92458	10/03/24 10:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92492	10/04/24 21:26	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	92463	10/03/24 10:20	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	92498	10/04/24 22:42	CH	EET MID

Client Sample ID: 215
Lab Sample ID: 880-49315-15
Date Collected: 10/01/24 16:55
Matrix: Solid
Date Received: 10/03/24 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			92532	10/03/24 19:17	SMC	EET MID

Client Sample ID: 215
Lab Sample ID: 880-49315-15
Date Collected: 10/01/24 16:55
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 97.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	92464	10/03/24 10:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92640	10/07/24 02:43	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10.00 mL	92458	10/03/24 10:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92492	10/04/24 21:40	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	92463	10/03/24 10:20	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	92498	10/04/24 23:01	CH	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-49315-1
Project/Site: Seawolf 94Y

Client Sample ID: 216
Lab Sample ID: 880-49315-16
Date Collected: 10/01/24 16:58
Matrix: Solid
Date Received: 10/03/24 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			92532	10/03/24 19:17	SMC	EET MID

Client Sample ID: 216
Lab Sample ID: 880-49315-16
Date Collected: 10/01/24 16:58
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 96.6

Prep 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	92464	10/03/24 10:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92640	10/07/24 03:03	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10.00 mL	92458	10/03/24 10:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92492	10/04/24 21:55	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	92463	10/03/24 10:20	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	92498	10/04/24 23:07	CH	EET MID

Client Sample ID: 217
Lab Sample ID: 880-49315-17
Date Collected: 10/01/24 17:00
Matrix: Solid
Date Received: 10/03/24 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			92532	10/03/24 19:17	SMC	EET MID

Client Sample ID: 217
Lab Sample ID: 880-49315-17
Date Collected: 10/01/24 17:00
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 97.6

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	92464	10/03/24 10:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92640	10/07/24 03:24	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10.00 mL	92458	10/03/24 10:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92492	10/04/24 22:10	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	92463	10/03/24 10:20	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	92498	10/04/24 23:14	CH	EET MID

Client Sample ID: 218
Lab Sample ID: 880-49315-18
Date Collected: 10/01/24 17:03
Matrix: Solid
Date Received: 10/03/24 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			92532	10/03/24 19:17	SMC	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-49315-1
Project/Site: Seawolf 94Y

Client Sample ID: 218
Lab Sample ID: 880-49315-18
Date Collected: 10/01/24 17:03
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 97.8

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	92464	10/03/24 10:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92640	10/07/24 03:44	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10.00 mL	92458	10/03/24 10:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92492	10/04/24 22:25	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	92463	10/03/24 10:20	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	92498	10/04/24 23:20	CH	EET MID

Client Sample ID: 219
Lab Sample ID: 880-49315-19
Date Collected: 10/01/24 17:05
Matrix: Solid
Date Received: 10/03/24 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			92532	10/03/24 19:17	SMC	EET MID

Client Sample ID: 219
Lab Sample ID: 880-49315-19
Date Collected: 10/01/24 17:05
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 97.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	92464	10/03/24 10:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92640	10/07/24 04:05	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	92458	10/03/24 10:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92492	10/04/24 22:39	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	92463	10/03/24 10:20	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92498	10/04/24 23:27	CH	EET MID

Client Sample ID: 220
Lab Sample ID: 880-49315-20
Date Collected: 10/01/24 17:10
Matrix: Solid
Date Received: 10/03/24 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			92532	10/03/24 19:17	SMC	EET MID

Client Sample ID: 220
Lab Sample ID: 880-49315-20
Date Collected: 10/01/24 17:10
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 98.6

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	92464	10/03/24 10:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92640	10/07/24 04:25	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10.00 mL	92458	10/03/24 10:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92492	10/04/24 22:54	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	92463	10/03/24 10:20	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	92498	10/04/24 23:33	CH	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-49315-1
Project/Site: Seawolf 94Y

Client Sample ID: 221
Lab Sample ID: 880-49315-21
Date Collected: 10/01/24 17:12
Matrix: Solid
Date Received: 10/03/24 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			92533	10/03/24 19:20	SMC	EET MID

Client Sample ID: 221
Lab Sample ID: 880-49315-21
Date Collected: 10/01/24 17:12
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 98.8

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	92465	10/03/24 10:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92553	10/04/24 23:30	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10.00 mL	92458	10/03/24 10:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92492	10/04/24 23:10	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	92463	10/03/24 10:20	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92498	10/04/24 23:39	CH	EET MID

Client Sample ID: 222
Lab Sample ID: 880-49315-22
Date Collected: 10/01/24 17:14
Matrix: Solid
Date Received: 10/03/24 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			92533	10/03/24 19:20	SMC	EET MID

Client Sample ID: 222
Lab Sample ID: 880-49315-22
Date Collected: 10/01/24 17:14
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 99.1

Prep 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	92465	10/03/24 10:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92553	10/04/24 23:51	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10.00 mL	92451	10/03/24 09:22	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92613	10/05/24 05:34	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	92521	10/03/24 16:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92552	10/04/24 09:54	SMC	EET MID

Client Sample ID: 223
Lab Sample ID: 880-49315-23
Date Collected: 10/01/24 17:16
Matrix: Solid
Date Received: 10/03/24 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			92533	10/03/24 19:20	SMC	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-49315-1
Project/Site: Seawolf 94Y

Client Sample ID: 223
Lab Sample ID: 880-49315-23
Date Collected: 10/01/24 17:16
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 98.2

Prep 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	92465	10/03/24 10:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92553	10/05/24 00:11	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10.00 mL	92451	10/03/24 09:22	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92613	10/05/24 05:51	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	92521	10/03/24 16:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92552	10/04/24 10:13	SMC	EET MID

Client Sample ID: 224
Lab Sample ID: 880-49315-24
Date Collected: 10/01/24 17:18
Matrix: Solid
Date Received: 10/03/24 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			92533	10/03/24 19:20	SMC	EET MID

Client Sample ID: 224
Lab Sample ID: 880-49315-24
Date Collected: 10/01/24 17:18
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 98.7

Prep 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	92465	10/03/24 10:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92553	10/05/24 00:32	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10.00 mL	92451	10/03/24 09:22	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92613	10/05/24 06:07	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	92521	10/03/24 16:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92552	10/04/24 10:19	SMC	EET MID

Client Sample ID: 225
Lab Sample ID: 880-49315-25
Date Collected: 10/01/24 17:20
Matrix: Solid
Date Received: 10/03/24 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			92533	10/03/24 19:20	SMC	EET MID

Client Sample ID: 225
Lab Sample ID: 880-49315-25
Date Collected: 10/01/24 17:20
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 97.9

Prep 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	92465	10/03/24 10:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92553	10/05/24 00:52	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10.00 mL	92451	10/03/24 09:22	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92613	10/05/24 06:23	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	92521	10/03/24 16:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92552	10/04/24 10:26	SMC	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-49315-1
Project/Site: Seawolf 94Y

Client Sample ID: 226
Lab Sample ID: 880-49315-26
Date Collected: 10/01/24 17:22
Matrix: Solid
Date Received: 10/03/24 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			92533	10/03/24 19:20	SMC	EET MID

Client Sample ID: 226
Lab Sample ID: 880-49315-26
Date Collected: 10/01/24 17:22
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 86.1

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	92465	10/03/24 10:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92553	10/05/24 01:13	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10.00 mL	92451	10/03/24 09:22	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92613	10/05/24 06:39	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	92521	10/03/24 16:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92552	10/04/24 10:32	SMC	EET MID

Client Sample ID: 227
Lab Sample ID: 880-49315-27
Date Collected: 10/01/24 17:25
Matrix: Solid
Date Received: 10/03/24 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			92533	10/03/24 19:20	SMC	EET MID

Client Sample ID: 227
Lab Sample ID: 880-49315-27
Date Collected: 10/01/24 17:25
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 99.1

Prep 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	92465	10/03/24 10:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92553	10/05/24 01:33	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	92451	10/03/24 09:22	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92613	10/05/24 06:55	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	92521	10/03/24 16:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92552	10/04/24 10:52	SMC	EET MID

Client Sample ID: 228
Lab Sample ID: 880-49315-28
Date Collected: 10/01/24 17:28
Matrix: Solid
Date Received: 10/03/24 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			92533	10/03/24 19:20	SMC	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-49315-1
Project/Site: Seawolf 94Y

Client Sample ID: 228
Lab Sample ID: 880-49315-28
Date Collected: 10/01/24 17:28
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 98.5

Prep 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	92465	10/03/24 10:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92553	10/05/24 01:54	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10.00 mL	92451	10/03/24 09:22	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92613	10/05/24 07:13	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	92521	10/03/24 16:55	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92552	10/04/24 10:58	SMC	EET MID

Client Sample ID: 229
Lab Sample ID: 880-49315-29
Date Collected: 10/01/24 17:55
Matrix: Solid
Date Received: 10/03/24 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			92533	10/03/24 19:20	SMC	EET MID

Client Sample ID: 229
Lab Sample ID: 880-49315-29
Date Collected: 10/01/24 17:55
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 98.4

Prep 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	92465	10/03/24 10:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92553	10/05/24 02:14	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10.00 mL	92451	10/03/24 09:22	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92613	10/05/24 07:28	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	92521	10/03/24 16:55	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	92552	10/04/24 11:04	SMC	EET MID

Client Sample ID: 230
Lab Sample ID: 880-49315-30
Date Collected: 10/01/24 17:58
Matrix: Solid
Date Received: 10/03/24 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			92533	10/03/24 19:20	SMC	EET MID

Client Sample ID: 230
Lab Sample ID: 880-49315-30
Date Collected: 10/01/24 17:58
Matrix: Solid
Date Received: 10/03/24 08:23
Percent Solids: 96.8

Prep 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	92465	10/03/24 10:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92553	10/05/24 02:35	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10.00 mL	92451	10/03/24 09:22	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92613	10/05/24 07:45	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	92521	10/03/24 16:55	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	92552	10/04/24 11:11	SMC	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 94Y

Job ID: 880-49315-1

Laboratory References:

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

Accreditation/Certification Summary

Client: Civil & Environmental Consultants Inc Job ID: 880-49315-1
Project/Site: Seawolf 94Y

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

Method Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 94Y

Job ID: 880-49315-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
D2216	Percent Moisture	ASTM	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 94Y

Job ID: 880-49315-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-49315-1	201	Solid	10/01/24 16:15	10/03/24 08:23
880-49315-2	202	Solid	10/01/24 16:18	10/03/24 08:23
880-49315-3	203	Solid	10/01/24 16:20	10/03/24 08:23
880-49315-4	204	Solid	10/01/24 16:22	10/03/24 08:23
880-49315-5	205	Solid	10/01/24 16:25	10/03/24 08:23
880-49315-6	206	Solid	10/01/24 16:28	10/03/24 08:23
880-49315-7	207	Solid	10/01/24 16:31	10/03/24 08:23
880-49315-8	208	Solid	10/01/24 16:35	10/03/24 08:23
880-49315-9	209	Solid	10/01/24 16:38	10/03/24 08:23
880-49315-10	210	Solid	10/01/24 16:40	10/03/24 08:23
880-49315-11	211	Solid	10/01/24 16:45	10/03/24 08:23
880-49315-12	212	Solid	10/01/24 16:48	10/03/24 08:23
880-49315-13	213	Solid	10/01/24 16:50	10/03/24 08:23
880-49315-14	214	Solid	10/01/24 16:52	10/03/24 08:23
880-49315-15	215	Solid	10/01/24 16:55	10/03/24 08:23
880-49315-16	216	Solid	10/01/24 16:58	10/03/24 08:23
880-49315-17	217	Solid	10/01/24 17:00	10/03/24 08:23
880-49315-18	218	Solid	10/01/24 17:03	10/03/24 08:23
880-49315-19	219	Solid	10/01/24 17:05	10/03/24 08:23
880-49315-20	220	Solid	10/01/24 17:10	10/03/24 08:23
880-49315-21	221	Solid	10/01/24 17:12	10/03/24 08:23
880-49315-22	222	Solid	10/01/24 17:14	10/03/24 08:23
880-49315-23	223	Solid	10/01/24 17:16	10/03/24 08:23
880-49315-24	224	Solid	10/01/24 17:18	10/03/24 08:23
880-49315-25	225	Solid	10/01/24 17:20	10/03/24 08:23
880-49315-26	226	Solid	10/01/24 17:22	10/03/24 08:23
880-49315-27	227	Solid	10/01/24 17:25	10/03/24 08:23
880-49315-28	228	Solid	10/01/24 17:28	10/03/24 08:23
880-49315-29	229	Solid	10/01/24 17:55	10/03/24 08:23
880-49315-30	230	Solid	10/01/24 17:58	10/03/24 08:23

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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
Little Rock, AR (501) 224-5060

Work Or

880-49315 Chain of Custody

Project Manager:	MS. Laura Campbell	Bill to: (if different)	
Company Name:	Civil and Environmental Consultants	Company Name:	
Address:	700 Cherrington Parkway	Address:	
City, State ZIP:	Moon Township, PA	City, State ZIP:	
Phone:	800-365-2324	Email:	Lcampbell@cecinc.com

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:	Seawolf 94Y	Turn Around	
Project Number:	331-073	☑ Routine ☐ Rush	
Project Location:		Due Date:	3-day TAT
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	IR8	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-.1	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	2.7	
Total Containers:		Corrected Temperature:	2.6	

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: 300_ORGFM_28D-Chloride	8015MOD_NM – Full TPH	8021B- BTEX	Moisture_2540G-Loss/Method	Sample Comments
201		10/1/24	1615		C	2		X	X	X	X	
202			1618		C	2		X	X	X	X	
203			1620		C	2		X	X	X	X	
204			1622		C	2		X	X	X	X	
205			1625		C	2		X	X	X	X	
206			1628		C	2		X	X	X	X	
207			1631		C	2		X	X	X	X	
208			1635		C	2		X	X	X	X	
209			1638		C	2		X	X	X	X	
210			1640		C	2		X	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 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 Tl 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 Travis Montgomery		10/3/24 8:23	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Released to Imaging: 12/27/2024 8:50:37 AM
Received by OCD: 12/18/2024 11:14:17 AM

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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
Little Rock, AR (501) 224-5060

Work Order No: 49315

Project Manager:	Ms. Laura Campbell	Bill to: (if different)	
Company Name:	Civil and Environmental Consultants	Company Name:	
Address:	700 Cherrington Park Way	Address:	
City, State ZIP:	Moon Township, PA	City, State ZIP:	
Phone:	800-365-2324	Email:	Lcampbell@cecinc.com

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:	Seawolf 94Y	Turn Around	
Project Number:	331-073	☑ Routine ☐ Rush	
Project Location:		Due Date:	3-day TAT
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	300_ORGFM_28D-Chloride	8015MOD_NM-Full TPH	8021B-BTEX	Moisture_2540G-Total Method	Sample Comments
211		10/1/24	1645		C	2		X	X	X	X	
212			1648		C	2		X	X	X	X	
213			1650		C	2		X	X	X	X	
214			1652		C	2		X	X	X	X	
215			1655		C	2		X	X	X	X	
216			1658		C	2		X	X	X	X	
217			1700		C	2		X	X	X	X	
218			1703		C	2		X	X	X	X	
219			1705		C	2		X	X	X	X	
220			1710		C	2		X	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 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

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1 Travis Montgomery		10/3/24 8:2	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Released to Imaging: 12/27/2024 8:50:37 AM
Received by OCD: 12/18/2024 11:14:17 AM

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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
Little Rock, AR (501) 224-5060

Work Order No: 4935

Project Manager:	Ms. Laura Campbell	Bill to: (if different)	
Company Name:	Civil and Environmental Consultants	Company Name:	
Address:	200 Cherrington Parkway	Address:	
City, State ZIP:	Moon Township, PA	City, State ZIP:	
Phone:	800-365-2324	Email:	Lcampbell@cecinc.com

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:	Sea Wolf 94P	Turn Around	
Project Number:	331-073	☑ Routine ☐ Rush	
Project Location:		Due Date:	3-day TAT
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3; H_2S0_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: 300_ORGFM_28D-Chloride	8015 MOD_NM - FULLTPH	8021B - BTEX	moisture_25406-Local Method	Sample Comments
221		10/1/24	1712		C	2		X	X	X	X	
222			1714		C	2		X	X	X	X	
223			1716		C	2		X	X	X	X	
224			1718		C	2		X	X	X	X	
225			1720		C	2		X	X	X	X	
226			1722		C	2		X	X	X	X	
227			1725		C	2		X	X	X	X	
228			1728		C	2		X	X	X	X	
229			1755		C	2		X	X	X	X	
230		↓	1758		C	2		X	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 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 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
1 Tim Montgomery		10/3/24 8:23	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Civil & Environmental Consultants Inc Job Number: 880-49315-1

Login Number: 49315 **List Source: Eurofins Midland**
List Number: 1
Creator: Vasquez, Julisa

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Laura Campbell
Civil & Environmental Consultants Inc
700 Cherrington Parkway
Moon Township, Pennsylvania 15108

Generated 10/31/2024 2:31:28 PM

JOB DESCRIPTION

Seawolf 1 12 Federal #94Y

JOB NUMBER

880-50342-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 12/27/2024 8:30:37 AM

my EOL

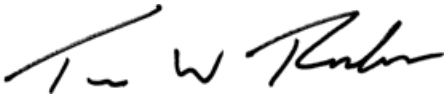
Eurofins Midland

Job Notes

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

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

Authorization



Generated
10/31/2024 2:31:28 PM

Authorized for release by
Travis Richter, Project Manager
Travis.Richter@et.eurofinsus.com
(281)794-7216

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal #94Y

Laboratory Job ID: 880-50342-1

Table of Contents

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QC Sample Results 8
QC Association Summary 11
Lab Chronicle 12
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Definitions/Glossary

Client: Civil & Environmental Consultants Inc Job ID: 880-50342-1
Project/Site: Seawolf 1 12 Federal #94Y

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, 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: Civil & Environmental Consultants Inc
Project: Seawolf 1 12 Federal #94Y

Job ID: 880-50342-1

Job ID: 880-50342-1 Eurofins Midland

Job Narrative
880-50342-1

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

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

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

Receipt
The sample was received on 10/29/2024 8:32 AM. 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 4.8°C.

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: CS-209A (880-50342-1).

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

Diesel Range Organics
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-94304 and analytical batch 880-94326 was outside the upper control limits.

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

HPLC/IC
Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-94354 and analytical batch 880-94357 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

The associated samples are: CS-209A (880-50342-1), (880-50098-A-4-A), (880-50098-A-4-B MS) and (880-50098-A-4-C MSD).

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

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

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal #94Y

Job ID: 880-50342-1

Client Sample ID: CS-209A

Date Collected: 10/28/24 18:10
Date Received: 10/29/24 08:32

Lab Sample ID: 880-50342-1

Matrix: Solid
Percent Solids: 95.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00146	U	0.00210	0.00146	mg/Kg	☼	10/29/24 08:37	10/29/24 13:40	1
Toluene	<0.00210	U	0.00210	0.00210	mg/Kg	☼	10/29/24 08:37	10/29/24 13:40	1
Ethylbenzene	<0.00114	U	0.00210	0.00114	mg/Kg	☼	10/29/24 08:37	10/29/24 13:40	1
m-Xylene & p-Xylene	<0.00240	U	0.00419	0.00240	mg/Kg	☼	10/29/24 08:37	10/29/24 13:40	1
o-Xylene	<0.00166	U	0.00210	0.00166	mg/Kg	☼	10/29/24 08:37	10/29/24 13:40	1
Xylenes, Total	<0.00240	U	0.00419	0.00240	mg/Kg	☼	10/29/24 08:37	10/29/24 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*10/29/24 08:37*	*10/29/24 13:40*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*10/29/24 08:37*	*10/29/24 13:40*	*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	<15.3	U	52.5	15.3	mg/Kg	☼	10/29/24 08:26	10/29/24 22:38	1
Diesel Range Organics (Over C10-C28)	**40.1**	**J**	52.5	15.9	mg/Kg	☼	10/29/24 08:26	10/29/24 22:38	1
Oil Range Organics (Over C28-C36)	<15.9	U	52.5	15.9	mg/Kg	☼	10/29/24 08:26	10/29/24 22:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*10/29/24 08:26*	*10/29/24 22:38*	*1*
o-Terphenyl	*104*		*70 - 130*	*10/29/24 08:26*	*10/29/24 22:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3910**		105	4.16	mg/Kg	☼		10/29/24 23:03	10

Surrogate Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal #94Y

Job ID: 880-50342-1

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-50342-1	CS-209A	115	97
LCS 880-94305/1-A	Lab Control Sample	104	104
LCSD 880-94305/2-A	Lab Control Sample Dup	104	99
MB 880-94305/5-A	Method Blank	113	90

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-50342-1	CS-209A	110	104
LCS 880-94304/2-A	Lab Control Sample	121	124
LCSD 880-94304/3-A	Lab Control Sample Dup	128	130
MB 880-94304/1-A	Method Blank	146 S1+	139 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal #94Y

Job ID: 880-50342-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-94305/5-A
Matrix: Solid
Analysis Batch: 94298

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94305

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		10/29/24 08:37	10/29/24 11:15	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		10/29/24 08:37	10/29/24 11:15	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		10/29/24 08:37	10/29/24 11:15	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		10/29/24 08:37	10/29/24 11:15	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		10/29/24 08:37	10/29/24 11:15	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		10/29/24 08:37	10/29/24 11:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*10/29/24 08:37*	*10/29/24 11:15*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*10/29/24 08:37*	*10/29/24 11:15*	*1*

Lab Sample ID: LCS 880-94305/1-A
Matrix: Solid
Analysis Batch: 94298

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94305

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1072		mg/Kg		107	70 - 130		
Toluene			0.100	0.1091		mg/Kg		109	70 - 130		
Ethylbenzene			0.100	0.1077		mg/Kg		108	70 - 130		
m-Xylene & p-Xylene			0.200	0.2123		mg/Kg		106	70 - 130		
o-Xylene			0.100	0.1068		mg/Kg		107	70 - 130		

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

Lab Sample ID: LCSD 880-94305/2-A
Matrix: Solid
Analysis Batch: 94298

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 94305

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1046		mg/Kg		105	70 - 130	2	35
Toluene			0.100	0.1047		mg/Kg		105	70 - 130	4	35
Ethylbenzene			0.100	0.1028		mg/Kg		103	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2007		mg/Kg		100	70 - 130	6	35
o-Xylene			0.100	0.1013		mg/Kg		101	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal #94Y

Job ID: 880-50342-1

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

Lab Sample ID: MB 880-94304/1-A
Matrix: Solid
Analysis Batch: 94326

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94304

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		10/29/24 08:24	10/29/24 19:35	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		10/29/24 08:24	10/29/24 19:35	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		10/29/24 08:24	10/29/24 19:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*146*	*S1+*	*70 - 130*	*10/29/24 08:24*	*10/29/24 19:35*	*1*
o-Terphenyl	*139*	*S1+*	*70 - 130*	*10/29/24 08:24*	*10/29/24 19:35*	*1*

Lab Sample ID: LCS 880-94304/2-A
Matrix: Solid
Analysis Batch: 94326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94304

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	818.1		mg/Kg		82	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	731.9		mg/Kg		73	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*121*		*70 - 130*
o-Terphenyl	*124*		*70 - 130*

Lab Sample ID: LCSD 880-94304/3-A
Matrix: Solid
Analysis Batch: 94326

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 94304

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	873.1		mg/Kg		87	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			1000	788.0		mg/Kg		79	70 - 130	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*128*		*70 - 130*
o-Terphenyl	*130*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-94354/1-A
Matrix: Solid
Analysis Batch: 94357

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	10.0	0.395	mg/Kg			10/29/24 22:06	1

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal #94Y

Job ID: 880-50342-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-94354/2-A
Matrix: Solid
Analysis Batch: 94357

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	229.5		mg/Kg		92	90 - 110

Lab Sample ID: LCSD 880-94354/3-A
Matrix: Solid
Analysis Batch: 94357

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	254.1		mg/Kg		102	90 - 110	10	20

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal #94Y

Job ID: 880-50342-1

GC VOA

Analysis Batch: 94298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50342-1	CS-209A	Total/NA	Solid	8021B	94305
MB 880-94305/5-A	Method Blank	Total/NA	Solid	8021B	94305
LCS 880-94305/1-A	Lab Control Sample	Total/NA	Solid	8021B	94305
LCSD 880-94305/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	94305

Prep Batch: 94305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50342-1	CS-209A	Total/NA	Solid	5035	
MB 880-94305/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-94305/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-94305/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 94304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50342-1	CS-209A	Total/NA	Solid	8015NM Prep	
MB 880-94304/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-94304/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-94304/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 94326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50342-1	CS-209A	Total/NA	Solid	8015B NM	94304
MB 880-94304/1-A	Method Blank	Total/NA	Solid	8015B NM	94304
LCS 880-94304/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	94304
LCSD 880-94304/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	94304

HPLC/IC

Leach Batch: 94354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50342-1	CS-209A	Soluble	Solid	DI Leach	
MB 880-94354/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-94354/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-94354/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 94357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50342-1	CS-209A	Soluble	Solid	300.0	94354
MB 880-94354/1-A	Method Blank	Soluble	Solid	300.0	94354
LCS 880-94354/2-A	Lab Control Sample	Soluble	Solid	300.0	94354
LCSD 880-94354/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	94354

General Chemistry

Analysis Batch: 94453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50342-1	CS-209A	Total/NA	Solid	D2216	
MB 880-94453/1	Method Blank	Total/NA	Solid	D2216	

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Job ID: 880-50342-1
Project/Site: Seawolf 1 12 Federal #94Y

Client Sample ID: CS-209A
Lab Sample ID: 880-50342-1
Date Collected: 10/28/24 18:10
Matrix: Solid
Date Received: 10/29/24 08:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			94453	10/30/24 18:13	SMC	EET MID

Client Sample ID: CS-209A
Lab Sample ID: 880-50342-1
Date Collected: 10/28/24 18:10
Matrix: Solid
Date Received: 10/29/24 08:32
Percent Solids: 95.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	94305	10/29/24 08:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	94298	10/29/24 13:40	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	94304	10/29/24 08:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	94326	10/29/24 22:38	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	94354	10/29/24 15:44	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	94357	10/29/24 23:03	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Civil & Environmental Consultants Inc Job ID: 880-50342-1
Project/Site: Seawolf 1 12 Federal #94Y

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

Method Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal #94Y

Job ID: 880-50342-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
D2216	Percent Moisture	ASTM	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Civil & Environmental Consultants Inc
Project/Site: Seawolf 1 12 Federal #94Y

Job ID: 880-50342-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-50342-1	CS-209A	Solid	10/28/24 18:10	10/29/24 08:32

Released to Imaging: 12/27/2024 8:50:37 AM
Received by OCD: 12/18/2024 11:14:17 AM

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record

880-50342 Chain of Custody

Client Information	Sampler: Travis Montgomery	Lab PM: Richter, Travis W	Carrier Tracking No(s):
Client Contact: Ms. Laura Campbell	Phone: 918-281-9663	E-Mail: Travis.Richter@et.eurofinsus.com	State of Origin:
Company: Civil & Environmental Consultants Inc	PWSID:		
Address: 700 Cherrington Parkway	Due Date Requested:		
City: Moon Township	TAT Requested (days): 3		
State, Zip: PA, 15108	Compliance Project: Δ Yes Δ No		
Phone: 800-365-2324(Tel)	PO #:		
Email: lcampbell@cecinc.com	WO #:		
Project Name: Fighting Okra 18-19 31H-CTB2 Seawolf 1 12 Federal #4Y	Project #: 88001737 ~~331-070~~ 331-073		
Site:	SSOW#:		

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D - Chloride	8015MOD_NM - Full TPH	8021B - BTEX	MOISTURE_2540G - Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N		
CS-209a	10/28/24	1810	C	Solid			X	X	X	X	2	
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								

Preservation Codes: N - None
Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Travis Montgomery	10/29/24 8:24	CEC		10/29/24 832	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.9 | 4.8 -1

Ver: 04/02/2024

Login Sample Receipt Checklist

Client: Civil & Environmental Consultants Inc

Job Number: 880-50342-1

Login Number: 50342

List Source: Eurofins Midland

List Number: 1

Creator: Vasquez, Julisa

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Laura Campbell
Civil & Environmental Consultants Inc
700 Cherrington Parkway
Moon Township, Pennsylvania 15108

Generated 11/6/2023 1:13:18 PM

JOB DESCRIPTION

general

JOB NUMBER

820-10712-1

Eurofins Lubbock
6701 Aberdeen Ave.
Suite 8
Lubbock TX 79424

See page two for job notes and contact information.

Released to Imaging: 12/27/2024 8:30:37 AM

my EOL

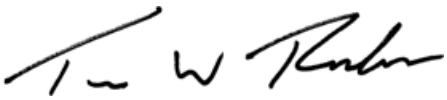
Eurofins Lubbock

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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11/6/2023 1:13:18 PM

Authorized for release by
Travis Richter, Project Manager
Travis.Richter@et.eurofinsus.com
(281)794-7216

Client: Civil & Environmental Consultants Inc
Project/Site: general

Laboratory Job ID: 820-10712-1

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Definitions/Glossary

Client: Civil & Environmental Consultants Inc Job ID: 820-10712-1
Project/Site: general

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, 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: Civil & Environmental Consultants Inc
Project/Site: general

Job ID: 820-10712-1

Job ID: 820-10712-1

Laboratory: Eurofins Lubbock

Narrative

Job Narrative
820-10712-1

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

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

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

Receipt
The samples were received on 10/31/2023 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.7°C

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-66099 and analytical batch 880-66131 was outside the upper control limits.

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-65997 and analytical batch 880-66029 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-66029/20) and (CCV 880-66029/5). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-65997 and analytical batch 880-66029 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: An incorrect volume of spiking solution was inadvertently added to the CCV associated with analytical batch 880-66029. Percent recoveries are based on the amount spiked.

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

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

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

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: general

Job ID: 820-10712-1

Client Sample ID: BH-29 0-1'

Lab Sample ID: 820-10712-1
Date Collected: 10/30/23 13:50
Matrix: Solid
Date Received: 10/31/23 10:30
Percent Solids: 92.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000413	U	0.00215	0.000413	mg/Kg	☼	11/02/23 15:23	11/03/23 19:12	1
Toluene	<0.000489	U	0.00215	0.000489	mg/Kg	☼	11/02/23 15:23	11/03/23 19:12	1
Ethylbenzene	<0.000606	U	0.00215	0.000606	mg/Kg	☼	11/02/23 15:23	11/03/23 19:12	1
m-Xylene & p-Xylene	<0.00108	U	0.00429	0.00108	mg/Kg	☼	11/02/23 15:23	11/03/23 19:12	1
o-Xylene	<0.000369	U	0.00215	0.000369	mg/Kg	☼	11/02/23 15:23	11/03/23 19:12	1
Xylenes, Total	<0.00108	U	0.00429	0.00108	mg/Kg	☼	11/02/23 15:23	11/03/23 19:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*11/02/23 15:23*	*11/03/23 19:12*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*11/02/23 15:23*	*11/03/23 19:12*	*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	<16.3	U	54.4	16.3	mg/Kg	☼	11/01/23 14:49	11/02/23 18:06	1
Diesel Range Organics (Over C10-C28)	**20.6**	**J B**	54.4	16.3	mg/Kg	☼	11/01/23 14:49	11/02/23 18:06	1
Oil Range Organics (Over C28-C36)	<16.3	U	54.4	16.3	mg/Kg	☼	11/01/23 14:49	11/02/23 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*11/01/23 14:49*	*11/02/23 18:06*	*1*
o-Terphenyl	*91*		*70 - 130*	*11/01/23 14:49*	*11/02/23 18:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**95.2**		5.36	0.423	mg/Kg	☼		11/04/23 13:31	1

Client Sample ID: BH-29 1-2'

Lab Sample ID: 820-10712-2
Date Collected: 10/30/23 13:55
Matrix: Solid
Date Received: 10/31/23 10:30
Percent Solids: 92.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000415	U	0.00215	0.000415	mg/Kg	☼	11/02/23 15:23	11/03/23 19:33	1
Toluene	<0.000491	U	0.00215	0.000491	mg/Kg	☼	11/02/23 15:23	11/03/23 19:33	1
Ethylbenzene	<0.000608	U	0.00215	0.000608	mg/Kg	☼	11/02/23 15:23	11/03/23 19:33	1
m-Xylene & p-Xylene	<0.00109	U	0.00431	0.00109	mg/Kg	☼	11/02/23 15:23	11/03/23 19:33	1
o-Xylene	<0.000370	U	0.00215	0.000370	mg/Kg	☼	11/02/23 15:23	11/03/23 19:33	1
Xylenes, Total	<0.00109	U	0.00431	0.00109	mg/Kg	☼	11/02/23 15:23	11/03/23 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*11/02/23 15:23*	*11/03/23 19:33*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*11/02/23 15:23*	*11/03/23 19:33*	*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	<16.2	U	53.8	16.2	mg/Kg	☼	11/01/23 14:49	11/02/23 18:28	1
Diesel Range Organics (Over C10-C28)	<16.2	U	53.8	16.2	mg/Kg	☼	11/01/23 14:49	11/02/23 18:28	1
Oil Range Organics (Over C28-C36)	<16.2	U	53.8	16.2	mg/Kg	☼	11/01/23 14:49	11/02/23 18:28	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Job ID: 820-10712-1
Project/Site: general

Client Sample ID: BH-29 1-2'
Lab Sample ID: 820-10712-2
Date Collected: 10/30/23 13:55
Matrix: Solid
Date Received: 10/31/23 10:30
Percent Solids: 92.3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*11/01/23 14:49*	*11/02/23 18:28*	*1*
o-Terphenyl	*92*		*70 - 130*	*11/01/23 14:49*	*11/02/23 18:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**147**		5.46	0.431	mg/Kg	☼		11/04/23 13:38	1

Client Sample ID: BH-30 0-1'
Lab Sample ID: 820-10712-3
Date Collected: 10/30/23 14:09
Matrix: Solid
Date Received: 10/31/23 10:30
Percent Solids: 95.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000398	U	0.00207	0.000398	mg/Kg	☼	11/02/23 15:23	11/03/23 19:53	1
Toluene	<0.000471	U	0.00207	0.000471	mg/Kg	☼	11/02/23 15:23	11/03/23 19:53	1
Ethylbenzene	<0.000584	U	0.00207	0.000584	mg/Kg	☼	11/02/23 15:23	11/03/23 19:53	1
m-Xylene & p-Xylene	<0.00104	U	0.00413	0.00104	mg/Kg	☼	11/02/23 15:23	11/03/23 19:53	1
o-Xylene	<0.000356	U	0.00207	0.000356	mg/Kg	☼	11/02/23 15:23	11/03/23 19:53	1
Xylenes, Total	<0.00104	U	0.00413	0.00104	mg/Kg	☼	11/02/23 15:23	11/03/23 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*11/02/23 15:23*	*11/03/23 19:53*	*1*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*	*11/02/23 15:23*	*11/03/23 19:53*	*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	<15.6	U	52.0	15.6	mg/Kg	☼	11/01/23 14:49	11/02/23 18:50	1
Diesel Range Organics (Over C10-C28)	<15.6	U	52.0	15.6	mg/Kg	☼	11/01/23 14:49	11/02/23 18:50	1
OII Range Organics (Over C28-C36)	<15.6	U	52.0	15.6	mg/Kg	☼	11/01/23 14:49	11/02/23 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*11/01/23 14:49*	*11/02/23 18:50*	*1*
o-Terphenyl	*92*		*70 - 130*	*11/01/23 14:49*	*11/02/23 18:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**87.3**		5.19	0.410	mg/Kg	☼		11/04/23 13:45	1

Client Sample ID: BH-30 1-2'
Lab Sample ID: 820-10712-4
Date Collected: 10/30/23 14:12
Matrix: Solid
Date Received: 10/31/23 10:30
Percent Solids: 91.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000420	U	0.00218	0.000420	mg/Kg	☼	11/02/23 15:23	11/03/23 20:13	1
Toluene	<0.000497	U	0.00218	0.000497	mg/Kg	☼	11/02/23 15:23	11/03/23 20:13	1
Ethylbenzene	<0.000616	U	0.00218	0.000616	mg/Kg	☼	11/02/23 15:23	11/03/23 20:13	1
m-Xylene & p-Xylene	<0.00110	U	0.00436	0.00110	mg/Kg	☼	11/02/23 15:23	11/03/23 20:13	1
o-Xylene	<0.000375	U	0.00218	0.000375	mg/Kg	☼	11/02/23 15:23	11/03/23 20:13	1
Xylenes, Total	<0.00110	U	0.00436	0.00110	mg/Kg	☼	11/02/23 15:23	11/03/23 20:13	1

Client Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: general

Job ID: 820-10712-1

Client Sample ID: BH-30 1-2'

Date Collected: 10/30/23 14:12
Date Received: 10/31/23 10:30

Lab Sample ID: 820-10712-4

Matrix: Solid
Percent Solids: 91.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*11/02/23 15:23*	*11/03/23 20:13*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*11/02/23 15:23*	*11/03/23 20:13*	*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	<16.4	U	54.7	16.4	mg/Kg	☼	11/01/23 14:49	11/02/23 19:12	1
Diesel Range Organics (Over C10-C28)	**17.1**	**J B**	54.7	16.4	mg/Kg	☼	11/01/23 14:49	11/02/23 19:12	1
OII Range Organics (Over C28-C36)	<16.4	U	54.7	16.4	mg/Kg	☼	11/01/23 14:49	11/02/23 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*86*		*70 - 130*	*11/01/23 14:49*	*11/02/23 19:12*	*1*
o-Terphenyl	*87*		*70 - 130*	*11/01/23 14:49*	*11/02/23 19:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**165**		5.39	0.426	mg/Kg	☼		11/04/23 14:04	1

Surrogate Summary

Client: Civil & Environmental Consultants Inc
Project/Site: general

Job ID: 820-10712-1

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
820-10712-1	BH-29 0-1'	97	116
820-10712-2	BH-29 1-2'	97	113
820-10712-3	BH-30 0-1'	105	119
820-10712-4	BH-30 1-2'	98	115
LCS 880-66099/1-A	Lab Control Sample	94	98
LCSD 880-66099/2-A	Lab Control Sample Dup	111	114
MB 880-66099/5-A	Method Blank	107	132 S1+

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
820-10712-1	BH-29 0-1'	87	91
820-10712-2	BH-29 1-2'	90	92
820-10712-3	BH-30 0-1'	92	92
820-10712-4	BH-30 1-2'	86	87
LCS 880-65997/2-A	Lab Control Sample	93	105
LCSD 880-65997/3-A	Lab Control Sample Dup	89	95
MB 880-65997/1-A	Method Blank	141 S1+	140 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: general

Job ID: 820-10712-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-66099/5-A
Matrix: Solid
Analysis Batch: 66131

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 66099

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		11/02/23 15:23	11/03/23 11:31	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		11/02/23 15:23	11/03/23 11:31	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		11/02/23 15:23	11/03/23 11:31	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		11/02/23 15:23	11/03/23 11:31	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		11/02/23 15:23	11/03/23 11:31	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		11/02/23 15:23	11/03/23 11:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*11/02/23 15:23*	*11/03/23 11:31*	*1*
1,4-Difluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*11/02/23 15:23*	*11/03/23 11:31*	*1*

Lab Sample ID: LCS 880-66099/1-A
Matrix: Solid
Analysis Batch: 66131

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 66099

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09472		mg/Kg		95	70 - 130		
Toluene			0.100	0.08916		mg/Kg		89	70 - 130		
Ethylbenzene			0.100	0.08943		mg/Kg		89	70 - 130		
m-Xylene & p-Xylene			0.200	0.1799		mg/Kg		90	70 - 130		
o-Xylene			0.100	0.08528		mg/Kg		85	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 880-66099/2-A
Matrix: Solid
Analysis Batch: 66131

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 66099

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1093		mg/Kg		109	70 - 130	14	35
Toluene			0.100	0.08697		mg/Kg		87	70 - 130	2	35
Ethylbenzene			0.100	0.1013		mg/Kg		101	70 - 130	12	35
m-Xylene & p-Xylene			0.200	0.2185		mg/Kg		109	70 - 130	19	35
o-Xylene			0.100	0.1004		mg/Kg		100	70 - 130	16	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: general

Job ID: 820-10712-1

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

Lab Sample ID: MB 880-65997/1-A
Matrix: Solid
Analysis Batch: 66029

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65997

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		11/01/23 14:48	11/02/23 08:33	1
Diesel Range Organics (Over C10-C28)	23.39	J	50.0	15.0	mg/Kg		11/01/23 14:48	11/02/23 08:33	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		11/01/23 14:48	11/02/23 08:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*141*	*S1+*	*70 - 130*	*11/01/23 14:48*	*11/02/23 08:33*	*1*
o-Terphenyl	*140*	*S1+*	*70 - 130*	*11/01/23 14:48*	*11/02/23 08:33*	*1*

Lab Sample ID: LCS 880-65997/2-A
Matrix: Solid
Analysis Batch: 66029

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 65997

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	908.9		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	961.8		mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*105*		*70 - 130*

Lab Sample ID: LCSD 880-65997/3-A
Matrix: Solid
Analysis Batch: 66029

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 65997

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	915.4		mg/Kg		92	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	951.2		mg/Kg		95	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*89*		*70 - 130*
o-Terphenyl	*95*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-65991/1-A
Matrix: Solid
Analysis Batch: 66206

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			11/04/23 11:28	1

QC Sample Results

Client: Civil & Environmental Consultants Inc
Project/Site: general

Job ID: 820-10712-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-65991/2-A
Matrix: Solid
Analysis Batch: 66206

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	253.6		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-65991/3-A
Matrix: Solid
Analysis Batch: 66206

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	254.0		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 820-10712-3 MS
Matrix: Solid
Analysis Batch: 66206

Client Sample ID: BH-30 0-1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	87.3		259	319.7		mg/Kg	☼	90	90 - 110		

Lab Sample ID: 820-10712-3 MSD
Matrix: Solid
Analysis Batch: 66206

Client Sample ID: BH-30 0-1'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	87.3		259	320.1		mg/Kg	☼	90	90 - 110	0	20

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: general

Job ID: 820-10712-1

GC VOA

Prep Batch: 66099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-10712-1	BH-29 0-1'	Total/NA	Solid	5035	
820-10712-2	BH-29 1-2'	Total/NA	Solid	5035	
820-10712-3	BH-30 0-1'	Total/NA	Solid	5035	
820-10712-4	BH-30 1-2'	Total/NA	Solid	5035	
MB 880-66099/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-66099/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-66099/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 66131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-10712-1	BH-29 0-1'	Total/NA	Solid	8021B	66099
820-10712-2	BH-29 1-2'	Total/NA	Solid	8021B	66099
820-10712-3	BH-30 0-1'	Total/NA	Solid	8021B	66099
820-10712-4	BH-30 1-2'	Total/NA	Solid	8021B	66099
MB 880-66099/5-A	Method Blank	Total/NA	Solid	8021B	66099
LCS 880-66099/1-A	Lab Control Sample	Total/NA	Solid	8021B	66099
LCSD 880-66099/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	66099

GC Semi VOA

Prep Batch: 65997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-10712-1	BH-29 0-1'	Total/NA	Solid	8015NM Prep	
820-10712-2	BH-29 1-2'	Total/NA	Solid	8015NM Prep	
820-10712-3	BH-30 0-1'	Total/NA	Solid	8015NM Prep	
820-10712-4	BH-30 1-2'	Total/NA	Solid	8015NM Prep	
MB 880-65997/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-65997/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-65997/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 66029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-10712-1	BH-29 0-1'	Total/NA	Solid	8015B NM	65997
820-10712-2	BH-29 1-2'	Total/NA	Solid	8015B NM	65997
820-10712-3	BH-30 0-1'	Total/NA	Solid	8015B NM	65997
820-10712-4	BH-30 1-2'	Total/NA	Solid	8015B NM	65997
MB 880-65997/1-A	Method Blank	Total/NA	Solid	8015B NM	65997
LCS 880-65997/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	65997
LCSD 880-65997/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	65997

HPLC/IC

Leach Batch: 65991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-10712-1	BH-29 0-1'	Soluble	Solid	DI Leach	
820-10712-2	BH-29 1-2'	Soluble	Solid	DI Leach	
820-10712-3	BH-30 0-1'	Soluble	Solid	DI Leach	
820-10712-4	BH-30 1-2'	Soluble	Solid	DI Leach	
MB 880-65991/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-65991/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-65991/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-10712-3 MS	BH-30 0-1'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Civil & Environmental Consultants Inc
Project/Site: general

Job ID: 820-10712-1

HPLC/IC (Continued)

Leach Batch: 65991 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-10712-3 MSD	BH-30 0-1'	Soluble	Solid	DI Leach	

Analysis Batch: 66206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-10712-1	BH-29 0-1'	Soluble	Solid	300.0	65991
820-10712-2	BH-29 1-2'	Soluble	Solid	300.0	65991
820-10712-3	BH-30 0-1'	Soluble	Solid	300.0	65991
820-10712-4	BH-30 1-2'	Soluble	Solid	300.0	65991
MB 880-65991/1-A	Method Blank	Soluble	Solid	300.0	65991
LCS 880-65991/2-A	Lab Control Sample	Soluble	Solid	300.0	65991
LCSD 880-65991/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	65991
820-10712-3 MS	BH-30 0-1'	Soluble	Solid	300.0	65991
820-10712-3 MSD	BH-30 0-1'	Soluble	Solid	300.0	65991

General Chemistry

Analysis Batch: 65998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-10712-1	BH-29 0-1'	Total/NA	Solid	D2216	
820-10712-2	BH-29 1-2'	Total/NA	Solid	D2216	
820-10712-3	BH-30 0-1'	Total/NA	Solid	D2216	
820-10712-4	BH-30 1-2'	Total/NA	Solid	D2216	
MB 880-65998/1	Method Blank	Total/NA	Solid	D2216	

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Project/Site: general

Job ID: 820-10712-1

Client Sample ID: BH-29 0-1'
Lab Sample ID: 820-10712-1
Date Collected: 10/30/23 13:50
Matrix: Solid
Date Received: 10/31/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			65998	11/02/23 13:14	SMC	EET MID

Client Sample ID: BH-29 0-1'
Lab Sample ID: 820-10712-1
Date Collected: 10/30/23 13:50
Matrix: Solid
Date Received: 10/31/23 10:30
Percent Solids: 92.8

Prep 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	66099	11/02/23 15:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66131	11/03/23 19:12	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	65997	11/01/23 14:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66029	11/02/23 18:06	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	65991	11/01/23 14:25	SMC	EET MID
Soluble	Analysis	300.0		1			66206	11/04/23 13:31	CH	EET MID

Client Sample ID: BH-29 1-2'
Lab Sample ID: 820-10712-2
Date Collected: 10/30/23 13:55
Matrix: Solid
Date Received: 10/31/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			65998	11/02/23 13:14	SMC	EET MID

Client Sample ID: BH-29 1-2'
Lab Sample ID: 820-10712-2
Date Collected: 10/30/23 13:55
Matrix: Solid
Date Received: 10/31/23 10:30
Percent Solids: 92.3

Prep 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	66099	11/02/23 15:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66131	11/03/23 19:33	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	65997	11/01/23 14:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66029	11/02/23 18:28	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	65991	11/01/23 14:25	SMC	EET MID
Soluble	Analysis	300.0		1			66206	11/04/23 13:38	CH	EET MID

Client Sample ID: BH-30 0-1'
Lab Sample ID: 820-10712-3
Date Collected: 10/30/23 14:09
Matrix: Solid
Date Received: 10/31/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			65998	11/02/23 13:14	SMC	EET MID

Lab Chronicle

Client: Civil & Environmental Consultants Inc
Project/Site: general

Job ID: 820-10712-1

Client Sample ID: BH-30 0-1'

Lab Sample ID: 820-10712-3
Date Collected: 10/30/23 14:09
Matrix: Solid
Date Received: 10/31/23 10:30
Percent Solids: 95.8

Prep 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	66099	11/02/23 15:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66131	11/03/23 19:53	MNR	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	65997	11/01/23 14:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66029	11/02/23 18:50	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	65991	11/01/23 14:25	SMC	EET MID
Soluble	Analysis	300.0		1			66206	11/04/23 13:45	CH	EET MID

Client Sample ID: BH-30 1-2'

Lab Sample ID: 820-10712-4
Date Collected: 10/30/23 14:12
Matrix: Solid
Date Received: 10/31/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D2216		1			65998	11/02/23 13:14	SMC	EET MID

Client Sample ID: BH-30 1-2'

Lab Sample ID: 820-10712-4
Date Collected: 10/30/23 14:12
Matrix: Solid
Date Received: 10/31/23 10:30
Percent Solids: 91.9

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	66099	11/02/23 15:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66131	11/03/23 20:13	MNR	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	65997	11/01/23 14:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66029	11/02/23 19:12	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	65991	11/01/23 14:25	SMC	EET MID
Soluble	Analysis	300.0		1			66206	11/04/23 14:04	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Civil & Environmental Consultants Inc Job ID: 820-10712-1
Project/Site: general

Laboratory: Eurofins Midland

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

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

Method Summary

Client: Civil & Environmental Consultants Inc
Project/Site: general

Job ID: 820-10712-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
D2216	Percent Moisture	ASTM	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Civil & Environmental Consultants Inc
Project/Site: general

Job ID: 820-10712-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-10712-1	BH-29 0-1'	Solid	10/30/23 13:50	10/31/23 10:30
820-10712-2	BH-29 1-2'	Solid	10/30/23 13:55	10/31/23 10:30
820-10712-3	BH-30 0-1'	Solid	10/30/23 14:09	10/31/23 10:30
820-10712-4	BH-30 1-2'	Solid	10/30/23 14:12	10/31/23 10:30

Released to Imaging: 12/27/2024 8:50:37 AM
Received by OCD: 12/18/2024 11:14:17 AM

Loc: 820
10712

rofins | Environment Testing

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
Little Rock, AR (501) 224-5060

820-10712 Chain of Custody

Page 1 of 1

Project Manager:	LAURA CAMPBELL	Bill to: (if different)	DEVON
Company Name:	CEC	Company Name:	
Address:	700 E HERRINGTON PKWY	Address:	
City, State ZIP:	MOON TOWNSHIP, PA 15108	City, State ZIP:	
Phone:		Email:	LCAMPBELL@CECINC.COM

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:	SEAWOLF 1-12 FED. 9H	Turn Around	☒ Routine ☐ Rush
Project Number:	331-073	Due Date:	
Project Location:	SEAWOLF 1-12 FEDERAL 9H	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	B. BRITAIN		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR-4
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	3.8
Total Containers:	8	Corrected Temperature:	3.7

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: 300 ORGFM 28D CL	8015MOD_NM - FULL TPH	8021 - BTEX	MOISTURE, 2540G - COUNT	Sample Comments
BH-29 0-1'	S	10/30/23	1350	0-1'	G	2	↓	↓	↓	↓	
BH-29 1-2'	S	10/30/23	1355	1-2'							
BH-30 0-1'	S	10/30/23	1409	0-1'							
BH-30 1-2'	S	10/30/23	1412	1-2'	↓	↓					

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 Tl 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	Colby Ingblett	10/31/23@1000 1030	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Civil & Environmental Consultants Inc Job Number: 820-10712-1

Login Number: 10712 **List Source: Eurofins Lubbock**
List Number: 1
Creator: Triplett, Colby

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.	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").	N/A	

Login Sample Receipt Checklist

Client: Civil & Environmental Consultants Inc

Job Number: 820-10712-1

Login Number: 10712
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 11/01/23 12:57 PM

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

APPENDIX G
PHOTOGRAPHIC LOG

331-073
Seawolf 1 12 Federal 94Y
January 9, 2018 Release
Devon Energy Corporation
October 2024



View of excavation, facing southeast



View of excavation, facing south



View of excavation, facing southeast



View of excavation, facing southeast



View of excavation, facing east



View of excavation, facing northeast

331-073
Seawolf 1 12 Federal 94Y
January 9, 2018 Release
Devon Energy Corporation
October 2024



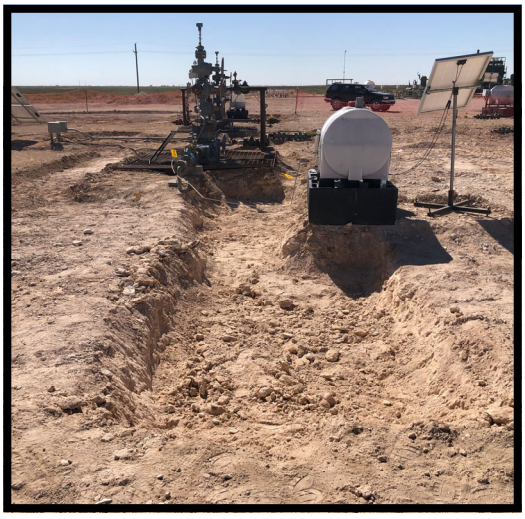
View of excavation, facing southeast



View of excavation, facing north



CS-209A, facing northeast, on October 23, 2024



CS-209A, facing south, on October 23, 2024



Excavation area following backfilling, on November 25, 2024



Excavation area following backfilling, on November 25, 2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 413409

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 413409
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nOY1802642217**
Incident Name	**NOY1802642217 SEAWOLF 1 12 FEDERAL #094Y @ 30-025-44138**
Incident Type	**Release Other**
Incident Status	**Remediation Closure Report Received**
Incident Well	**[30-025-44138] SEAWOLF 1 12 FEDERAL #094Y**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	SEAWOLF 1 12 FEDERAL #094Y
Date Release Discovered	01/09/2018
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Release Other
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	*Not answered.*
Is the concentration of chloride in the produced water >10,000 mg/l	*Not answered.*
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	Cause: Overflow - Tank, Pit, Etc. | Other (Specify) | Drilling Mud/Fluid | Released: 5 BBL | Recovered: 3 BBL | Lost: 2 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

Sante Fe Main Office
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QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 413409
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**More info needed to determine if this will be treated as a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**No**
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

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

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

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 12/18/2024

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QUESTIONS (continued)

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QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	Attached Document
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission		Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.		
Have the lateral and vertical extents of contamination been fully delineated		Yes
Was this release entirely contained within a lined containment area		No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride	(EPA 300.0 or SM4500 Cl B)	22100
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	7060
GRO+DRO	(EPA SW-846 Method 8015M)	7060
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence		09/05/2024
On what date will (or did) the final sampling or liner inspection occur		10/28/2024
On what date will (or was) the remediation complete(d)		10/30/2024
What is the estimated surface area (in square feet) that will be reclaimed		11820
What is the estimated volume (in cubic yards) that will be reclaimed		320
What is the estimated surface area (in square feet) that will be remediated		11820
What is the estimated volume (in cubic yards) that will be remediated		320
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.		

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QUESTIONS (continued)

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QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 12/18/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

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QUESTIONS

Deferral Requests Only *Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.*	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS (continued)

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QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**395307**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**10/28/2024**
What was the (estimated) number of samples that were to be gathered	**1**
What was the sampling surface area in square feet	**100**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	11820
What was the total volume (cubic yards) remediated	320
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	11820
What was the total volume (in cubic yards) reclaimed	320
Summarize any additional remediation activities not included by answers (above)	The areas where excavation was performed to remediate the Site were restored by backfilling with clean fill to stabilize the disturbed areas and return them to the existing grade, and provide a soil cover that prevents ponding of water and minimizes dust and erosion in accordance with Sections A., B. and C of 19.15.29.13 NMAC. Restoration activities were conducted on March 1, 2024. Reclamation will be performed at a later date after the affected area is no longer needed for production operations or drilling operations
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 12/18/2024

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QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	12/27/2024
amaxwell	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	12/27/2024
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	12/27/2024