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CASE NARRATIVE

Environmental Restoration, LLC

Project Name: CC2-16 Analytical

Project # N/A

Order ID # Q2481

Test Name: TCLP BNA

A. Number of Samples and Date of Receipt:

10 Water samples were received on 06/27/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: TCLP BNA. This data package contains results for TCLP BNA.

C. Analytical Techniques:

The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um df. The samples were analyzed on instrument BNA_P using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGA. The analysis of TCLP BNA was based on method 8270E and extraction was done based on method 3510 and TCLP extraction method was 1311.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis except for,

CC0627-CLOXPL [2,4,6-Tribromophenol - 2058%, 2-Fluorobiphenyl - 2551%, 2-Fluorophenol - 1%, Nitrobenzene-d5 - 15%, Phenol-d6 - 0%, Terphenyl-d14 - 15%],

CC0625-OXBL [2-Fluorophenol - 7%, Nitrobenzene-d5 - 8%, Phenol-d6 - 4%, Terphenyl-d14 - 11%],

CC0627-AOXL [2,4,6-Tribromophenol - 1262%, 2-Fluorobiphenyl - 1236%, Phenol-d6 - 2%, Terphenyl-d14 - 3535%],

CC0625-NL [2,4,6-Tribromophenol - 7%, 2-Fluorobiphenyl - 10%, 2-Fluorophenol - 8%, Nitrobenzene-d5 - 9%, Phenol-d6 - 8%, Terphenyl-d14 - 12%],

CC0267-OXPL [2,4,6-Tribromophenol - 3918%, 2-Fluorobiphenyl - 4832%, 2-Fluorophenol - 2%, Nitrobenzene-d5 - 8%, Phenol-d6 - 0%, Terphenyl-d14 - 11%],

CC0627-OXL [2,4,6-Tribromophenol - 8108%, 2-Fluorobiphenyl - 10034%, 2-Fluorophenol - 0%, Nitrobenzene-d5 - 48%, Phenol-d6 - 0%],

CC0627-CLOXAL [2,4,6-Tribromophenol - 0%, 2-Fluorophenol - 0%, Nitrobenzene-d5 - 11%, Phenol-d6 - 0%, Terphenyl-d14 - 0%], CC0627-BL [2,4,6-Tribromophenol - 2%,

2-Fluorobiphenyl - 10%, 2-Fluorophenol - 1%, Nitrobenzene-d5 - 8%, Phenol-d6 - 2%, Terphenyl-d14 - 10%], CC0627-SFBL [2,4,6-Tribromophenol - 25%, 2-Fluorobiphenyl - 37%, Nitrobenzene-d5 - 34% and Terphenyl-d14 - 27%]. As evidenced by the chromatograms, recoveries of the surrogates were affected by the samples matrix. Therefor no further corrective action was taken.

The Internal Standards Areas were met for all analysis except for, CC0627-CLOXPL, CC0625-OXBL, CC0627-AOXL, CC0625-NL, CC0267-OXPL, CC0627-OXL, CC0627-CLOXAL and CC0627-BL. As evidenced by the chromatograms internal standard were affected by the samples matrix. Therefor no further corrective action was taken.

The Retention Times were met for all analysis.

The MS recoveries met the requirements for all compounds.

The MSD recoveries met the requirements for all compounds.

The RPD were met for all analysis.

The Blank Spike met requirements for all compounds.

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

Samples CC0627-CLOXPL, CC0625-OXBL, CC0625-NL, CC0267-OXPL, CC0627-OXL, CC0627-CLOXAL and CC0627-BL all samples were Chemical treated, Therefor samples were analyzed with direct 10X dilution factor.

E. Additional Comments:

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

All samples used limited volume as samples are not regular environmental samples it is chemical treated samples.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.



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I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____