

CASE NARRATIVE

First Environment, Inc.

Project Name: USACE018-44 DOD

Project # N/A

Order ID # Q2819

Test Name: Pesticide-TCL

A. Number of Samples and Date of Receipt:

20 Solid samples were received on 08/08/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20 and VOC-TCLVOA-10. This data package contains results for Pesticide-TCL.

C. Analytical Techniques:

The analysis was performed on instrument ECD_D. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df,; Catalog # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 7HMG017- 11. The analysis of Pesticide-TCLs was based on method 8081B and extraction was done based on method 3541.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for 84SB-W [Decachlorobiphenyl(1)48%] as per method one surrogate is allowed to failed, therefore no corrective action was taken. 17M-WDL2 [Tetrachloro-m-xylene(2)132%] but this sample was required dilution as well due to high concentration, therefore no further corrective action taken..

The Retention Times were acceptable for all samples.

The MS recoveries for {Q2819-14MS} with File ID: PD089894.D met requirements for all samples except for [alpha-Chlordane(1)-31% - alpha-Chlordane(2)-15%], [gamma-Chlordane(1)-5% - gamma-Chlordane(2)15%], [Heptachlor epoxide(1)137% - Heptachlor epoxide(2)161%], , [Endosulfan II(2)514%], and [Endrin(2)177%] Due to matrix interference due to matrix interference.

The MSD {Q2819-14MSD} with File ID: PD089895.D recoveries met the acceptable requirements except for [alpha-Chlordane(1)-36% - alpha-Chlordane(2)-10%], [gamma-Chlordane(1)-15% - gamma-Chlordane(2)5%], [Heptachlor epoxide(1)148% -



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Heptachlor epoxide(2)160%], [Endosulfan II(2)520%], and [Endrin(2)176%] Due to matrix interference due to matrix interference.

The RPD for {Q2819-14MSD} with File ID: PD089895.D met criteria except for [Aldrin(1)50%], [gamma-Chlordane(1)100%], [Endosulfan I(2)39%] [Alpha-Chlordane(2)40%],[Gamma-Chlordane(2)100%] and [4,4-DDD(2)42%]due to difference in results of MS and MSD.

The Blank Spike met requirements for all samples .

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

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

Samples 11M-S, 17M-W and 17M-WDL were diluted due to high concentrations.

E. Additional Comments:

The not QT review data is reported in the Miscellaneous.

The soil samples results are based on a dry weight basis.

F. Manual Integration Comments:

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

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_____