

CASE NARRATIVE

Weston Solutions, Inc.

Project Name: RFP 905

Project # N/A

Order ID # Q3447

Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:

8 Solid samples were received on 10/23/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: SVOC-TCL BNA -20. This data package contains results for SVOC-TCL BNA -20.

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_G using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGA. The samples were analyzed on instrument The analysis of SVOC-TCL BNA -20 was based on method 8270E and extraction was done based on method 3541.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The MS recoveries met the requirements for all compounds.

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The RPD were met for all analysis.

The Blank Spike for {PB170246BS} with File ID: BG064588.D met requirements for all compounds except for Hexachloroethane[71%], failed marginally low, Therefore no further corrective action was taken.

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

The %RSD is greater than 20% in the Method 8270-BG102421.M for 2-Nitrophenol, 2-Nitroaniline, 2,6-Dinitrotoluene, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 4,6-Dinitro-2-methylphenol these Compounds are passing on Linear regression.

The Continuous Calibration File ID BF144097.D met the requirements except for Caprolactam, Pyrene and Terphenyl-d14. Under this Continuous Calibration only diluted sample was analyzed, and failed compounds in Continuous Calibration is not associated with dilution, therefore no further corrective action was taken.

The Continuous Calibration File ID BG064583.D met the requirements except for 2-Chlorophenol, Benzaldehyde, bis(2-Chloroethyl)ether, Phenol, 2-Fluorophenol and Phenol-d6. Associated samples does not have hit for these compounds, therefore no further corrective action was taken.

The Tuning criteria met requirements.

Samples P001-TW1-251023-01, P001-TW2-251023-01, P001-TW3-251023-01 and P001-TW4-251023-01 were diluted due to viscous matrix.

Sample P001-TW1-251023-01 was diluted due to high concentration.

E. Calculation:

Concentration ug/Kg,

$$(\text{dry weight basis}) = \frac{(A_x) (I_s) (V_t) (DF) (GPC)}{(A_{is}) (RRF) (V_i) (W_t) (D)}$$

Where,

A_x = Area of the characteristic ion for the compound to be measured.

A_{is} = Area of the characteristic ion for the internal standard.

I_s = Amount of internal standard injected in ng.

V_i = Volume of extract injected in microliters (uL)

V_t = Volume of concentrated extract in microliters (uL)

W_t = Weight of the original sample extracted in g

D_f = Dilution factor

RRF = Mean Relative Response Factor determined from the initial calibration standard.

GPC = $\frac{V_{in}}{V_{out}}$ = GPC factor (If no GPC is performed, GPC=1)

V_{out} = Volume of extract collected after GPC cleanup.

$$D = \frac{100 - \% \text{moisture}}{100}$$

F. Additional Comments:

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

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



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The Sample P001-TW4-251023-01 has the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

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_____