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CASE NARRATIVE

Weston Solutions, Inc.

Project Name: RFP 918

Project # N/A

Order ID # Q3321

Test Name: Mercury, Metals ICP-TAL

A. Number of Samples and Date of Receipt:

2 Solid samples were received on 10/09/2025.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL. This data package contains results for Mercury, Metals ICP-TAL.

C. Analytical Techniques:

The analysis of Metals ICP-TAL was based on method 6010D, digestion based on method 3050 (soils). The analysis and digestion of Mercury was based on method 7471B.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

Sample P001-DS-01 was diluted due to high concentrations for Copper, Iron and Silver.

The Blank Spike met requirements for all compounds.

The Duplicate analysis met criteria for all compounds.

The Matrix Spike (OR-02-100925MS) analysis met criteria for all compounds except for Antimony and Potassium due to Chemical Interference during Digestion process.

The Matrix Spike Duplicate (OR-02-100925MSD) analysis met criteria for all compounds except for Antimony, Copper, Potassium and Sodium due to Chemical Interference during Digestion process.

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

The Calibration met the requirements.

The Serial Dilution met criteria for all compounds.

E. Additional Comments:

The Post Digest Spike (OR-02-100925A) analysis met criteria for all compounds except for Antimony, Copper, Potassium and Sodium due to unknown chemical interference of matrix with the addition of spike amount after digestion and before analysis; matrix has suppression effect during addition of spike.

Sample Q3321-01 was oversaturated for Silver parameter so, Silver reported from its 5X Dilution.



Calculation for ICP-AES Soil Sample:

Conversion of Results from mg/L or ppm to mg/kg (Dry Weight Basis):

$$\text{Concentration (mg/kg)} = \frac{C \times V_f \times DF}{W \times S}$$

Where,

C = Instrument value in ppm (The average of all replicate exposures)

V_f = Final digestion volume (mL)

W = Initial aliquot amount (g) (Sample amount taken in prep)

S = % Solids / 100 (Fraction of Percent Solids)

DF = Dilution Factor

Calculation for Hg Soil Sample:

Conversion of Results from µg /L or ppb to mg/kg :

$$\text{Concentration (mg/kg)} = \frac{C \times V_f \times DF}{W \times S} / 1000$$

Where,

C = Instrument response in µg/L from the calibration curve.

V_f = Final prepared (absorbing solution) volume (mL)

W = Initial aliquot amount (g) (Fraction of Sample amount taken in prep)

S = % Solids / 100 (Fraction of Percent Solids)

DF = Dilution Factor

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_____