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## **CASE NARRATIVE**

**Weston Solutions, Inc.**

**Project Name: RFP 905A**

**Project # N/A**

**Order ID # Q2641**

**Test Name: TCLP Mercury, TCLP Metals Group1**

### **A. Number of Samples and Date of Receipt:**

2 Solid samples were received on 07/18/2025.

### **B. Parameters:**

According to the Chain of Custody document, the following analyses were requested: PCB, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP Mercury, TCLP Metals+Cu+Ni+Zn, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction and TCLP Metals Group1. This data package contains results for TCLP Mercury, TCLP Metals Group1.

### **C. Analytical Techniques:**

The analysis of TCLP Metals Group1 was based on method 6010D, digestion based on method 3010 (waters). The analysis and digestion of TCLP Mercury was based on method 7470A and TCLP extraction method was 1311.

### **D. QA/ QC Samples:**

The Holding Times were met for all analysis.

The Blank Spike met requirements for all compounds.

The Duplicate analysis met criteria for all compounds.

The Matrix Spike (WC-6MS) analysis met criteria for all compounds except for Barium, Mercury and Zinc due to Chemical Interference during Digestion Process.

The Matrix Spike Duplicate (WC-6MSD) analysis met criteria for all compounds except for Barium, Mercury and Zinc 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 the acceptable requirements.

### **E. Additional Comments:**

The Post Digest Spike (WC-6A) analysis met criteria for all compounds except for Barium and Zinc 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.



**Calculation for TCLP ICP:**

$$\text{Concentration or Result } (\mu\text{g/L}) = C \times \frac{V_f}{V_i} \times \text{DF} \times 1000$$

Where,

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

V<sub>f</sub> = Final digestion volume (mL)

V<sub>i</sub> = Initial aliquot amount (mL) (Sample amount taken in prep)

DF = Dilution Factor

**Calculation for TCLP HG:**

$$\text{Concentration or Result } (\mu\text{g/L}) = C \times \frac{V_f}{V_i} \times \text{DF}$$

Where,

C = Instrument value in ppb

V<sub>f</sub> = Final digestion volume (mL)

V<sub>i</sub> = Initial aliquot amount (mL) (Sample amount taken in prep)

DF = Dilution Factor

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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\_\_\_\_\_