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## **CASE NARRATIVE**

### **Weston Solutions**

**Project Name: Ft Meade Tipton Airfield Parcel RI - PO 0111169**

**Project # N/A**

**Chemtech Project # P5117**

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

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

2 Solid samples were received on 12/05/2024.

### **B. Parameters:**

According to the Chain of Custody document, the following analyses were requested: Anions Group1, Cyanide, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP METALS, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TOC and TS. This data package contains results for TCLP Mercury, TCLP ICP Metals.

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

The analysis of TCLP ICP Metals 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 samples.

The Duplicate analysis met criteria for all samples.

The Matrix Spike (COMP-1MS) analysis met criteria for all samples except for Barium due to matrix interference.

The Matrix Spike Duplicate (COMP-1MSD) analysis met criteria for all samples except for Barium due to matrix interference.

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

The Calibration met the requirements.

The Serial Dilution met the acceptable requirements.

### **E. Calculations:**

#### **Calculation for TCLP Metals:**

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

Where,

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

Vf = Final digestion volume (mL)

Vi = Initial aliquot amount (mL) (Sample amount taken in prep)

DF = Dilution Factor



**Calculation for TCLP Hg:**

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

Where,

$C$  = Instrument response in  $\mu\text{g/L}$  from the calibration curve.

$DF$  = Dilution Factor

**F. Additional Comments:**

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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 \_\_\_\_\_