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## **CASE NARRATIVE**

**Weston Solutions, Inc.**

**Project Name: RFP 905**

**Project # N/A**

**Chemtech Project # Q1664**

**Test Name: Cyanide, SPLP Cyanide**

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

22 Solid samples were received on 03/27/2025.

### **B. Parameters:**

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

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

The analysis of Cyanide, SPLP Cyanide was based on method 9012B.

### **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 analysis met criteria for all samples.

The Matrix Spike Duplicate analysis met criteria for all samples.

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

The Calibration met the requirements.

### **E. Calculations:**

#### **Calculation for CN Soil Sample:**

Conversion of Results from  $\mu\text{g/L}$  or ppb to mg/kg:

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

Where,

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

Vf = 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



**Calculation for CN SPLP Sample:**

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

Where,

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

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

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

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 \_\_\_\_\_