

## **CASE NARRATIVE**

**Weston Solutions, Inc.**

**Project Name: RFP 631**

**Project # N/A**

**Chemtech Project # L3837**

**Test Name: Herbicide**

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

20 Solid samples were received on 08/28/2020.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: Corrosivity, Cyanide, Herbicide, Ignitability, Mercury, Metals ICP-TAL, METALS TAL+CN, PCB, Pesticide-TCL, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP METALS and TCLP Pesticide. This data package contains results for Herbicide.

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

The analysis was performed on instrument ECD\_S. The front column is RTX-CLPesticides which is 30 meters, 0.32 mm ID, 0.5 um df, Catalog # 11139. The rear column is RTX-CLPesticides2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 11324. The analysis of Herbicides was based on method 8151A and extraction was done based on method 3541.

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

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Retention Times were acceptable for all samples.

The MS {L3837-14MS} with File ID: PS012011.D recoveries met the requirements for all compounds except for DICAMBA[26%] due to sample matrix interference.

The MS {L3876-13MS} with File ID: PS012132.D recoveries met the requirements for all compounds except for DICAMBA[26%] due to sample matrix interference.

The MSD {L3837-15MSD} with File ID: PS012012.D recoveries met the acceptable requirements except for DICAMBA[33%] due to sample matrix interference.

The MSD {L3876-13MSD} with File ID: PS012133.D recoveries met the acceptable requirements except for DICAMBA[26%] due to sample matrix interference.

The RPD for {L3837-15MSD} with File ID: PS012012.D met criteria except for 2,4,5-T[31%], 2,4,5-TP(Silvex)[28%], 2,4-D[25%], 2,4-DB[21%] and DICAMBA[24%] .

The Blank Spike met requirements for all samples .

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

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

**E. Additional Comments:**

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

$$\text{Concentration ug/Kg (Dry weight basis)} = \frac{(Ax) (Vt) (DF) (GPC)}{(CF) (Vi) (Ws) (D)}$$

Where,

Ax = Response (peak area or height) of the compound to be measured.

CF = Mean Calibration Factor from the initial calibration (area/ng).

Vt = Volume of the concentrated extract in uL

Vi = Volume of extract injected (uL). (If a single injection is made onto two columns, use ½ the volume in the syringe as the volume injected onto each column).

Ws = Weight of sample extracted (g).

D = % dry weight or  $\frac{100 - \% \text{Moisture}}{100}$

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

DF = Dilution Factor

**F. Manual Integration Comments:**

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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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\_\_\_\_\_