



**284 Sheffield Street  
Mountainside, NJ 07092**

## **SDG NARRATIVE**

**USEPA**

**SDG # MBHL80**

**CASE # 51879**

**CONTRACT # 68HERH20D0011**

**SOW# SFAM01.1**

**LAB NAME: Alliance Technical Group, LLC**

**LAB CODE: ACE**

**LAB ORDER ID # P5058**

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

20 Soil samples were delivered to the laboratory intact on 12/03/2024.

### **B. Parameters**

Test requested for Metals CLP FULL = Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc.

### **C. Cooler Temp**

Indicator Bottle: Presence/Absence

Cooler: 1.9°C

### **D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):**

Issue: A "P" or "M" prefix was listed at the beginning of a CLP sample ID.

### **E. Corrective Action taken for above:**

Resolution: To maintain COC integrity, ASB requests no changes to the Sample IDs. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

### **F. Analytical Techniques:**

All analyses were based on CLP Methodology by method SFAM01.1.

Inter Element correction factors (IECs) are determined annually and correction factor are applied during ICP-AES analysis.



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#### **G. Calculation:**

##### **Calculation for ICP-AES Soil Sample:**

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

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

Where,

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

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

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

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

DF = Dilution Factor

##### **Example Calculation For Sample MBHL80 For Antimony:**

If C = 0.0224262 ppm

V<sub>f</sub> = 100 ml

W = 1.17 g

S = 0.863(86.3/100)

DF = 1

$$\text{Concentration (mg/kg)} = 0.0224262 \times \frac{100}{1.17 \times 0.863} \times 1$$

$$= 2.221053 \text{ mg/kg}$$

$$= 2.2 \text{ mg/kg (Reported Result with Signification)}$$

#### **H. QA/ QC**

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements except Silver, Thallium. Duplicate sample did meet requirements except for Aluminum, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Zinc. Serial Dilution did meet requirements except for Aluminum, Barium, Chromium, Cobalt, Iron, Lead, Magnesium, Manganese, Zinc.

Chemical or physical interference effect was suspected and the data for all affected analytes in the sample received and associated with this serial dilution were flagged.



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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. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature\_\_\_\_\_

Name: Nimisha Pandya

Date \_\_\_\_\_

Title: Document Control Officer