

CHEMTECH

**284 Sheffield Street
Mountainside, NJ 07092**

SDG NARRATIVE

USEPA

SDG # MBFT69

CASE # 48959

CONTRACT # EPW14030

SOW# ISM02.4

LAB NAME: CHEMTECH CONSULTING GROUP

LAB CODE: CHM

CHEMTECH PROJECT #L2987

A. Number of Samples and Date of Receipt

02 Water samples were delivered to the laboratory intact on 06/11/2020.

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: 2.6°C

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

Issue: Sample tags were not received with samples at the laboratory. Sample tag numbers may or may not be listed on the COC.

E. Corrective Action taken for above:

Resolution: In accordance with previous direction from [Region 2], the laboratory will note the issue in the SDG Narrative, and proceed with the analysis of the sample. The Resolution will be applied to all samples received for this Case.

F. Analytical Techniques:

All analyses were based on CLP Methodology by method ISM02.4.

Inter Element correction factors (IECs) are determined annually and correction factor are applied during ICP-AES analysis. ICP-AES Interelement Correction Factors Form 10A-IN & 10B-IN are included in the hardcopy.

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G. Calculation:

Calculation for ICP-AES Water:

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

Where,

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

V_f = Final digestion volume (mL)

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

DF = Dilution Factor

Example Calculation Sample For MBFT69 for Copper:

If $C = 0.0552783\text{ppm}$

$V_f = 50\text{ ml}$

$V_i = 50\text{ ml}$

DF = 1

$$\text{Concentration or Result } (\mu\text{g/L}) = 0.0552783 \times \frac{50}{50} \times 1 \times 1000$$

$$= 55.2783 \mu\text{g/L}$$

$$= 55.3 \mu\text{g/L (Reported Result with Signification)}$$

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 for Zinc. Duplicate sample did meet requirements. Serial Dilution did meet requirement.

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