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## **CASE NARRATIVE**

### **Nobis Group**

**Project Name: Raymark Superfund Site**

**Project # N/A**

**Order ID # Q2638**

**Test Name: SPLP Mercury, SPLP MetalGroup3**

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

14 Solid samples were received on 07/18/2025.

### **B. Parameters:**

According to the Chain of Custody document, the following analyses were requested: Cyanide, Herbicide Group1, Mercury, Metals Group6, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SPLP Extraction, SPLP Mercury, SPLP MetalGroup3, SVOCMS Group3 and VOCMS Group3. This data package contains results for SPLP Mercury, SPLP MetalGroup3.

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

The analysis of SPLP MetalGroup3 was based on method 6020B, digestion based on method 3010 (water). The analysis of SPLP Mercury was based on method 7470A and digestion was based on method 7470 (water).

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

The Holding Times were met for all analysis.

The Blank Spike met requirements for all compounds.

The Duplicate analysis met criteria for all compounds.

The Matrix Spike (OU4-TS-44-071725MS) analysis met criteria for all compounds except for Antimony, Barium, Chromium, Lead, Silver, Thallium and Vanadium due to Chemical interference during Digestion process.

The Matrix Spike Duplicate (OU4-TS-44-071725MSD) analysis met criteria for all compounds except for Antimony, Barium, Chromium, Lead, Silver, Thallium and Vanadium due to Chemical interference during Digestion process.

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

The Calibration met the requirements.

The Serial Dilution met the acceptable requirements.

### **E. Additional Comments:**

The Post Digest Spike (OU4-TS-44-071725A) analysis met criteria for all compounds except for Antimony, Barium, Chromium, Lead, Silver and Vanadium due to unknown chemical interference of matrix with the addition of spike amount after digestion and before analysis; matrix has suppression effect during addition of spike.



Collision cell is being used to remove potential interferences. The analytes Na, Mg, Al, K, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As are being analyzed with collision cell and analytes Be, B, Ca, Ti, Se, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U are being analyzed with Non-Collision Cell. Helium gas is used for the Collision Cell analysis.

Q2638 SPLP all samples diluted 5X Straight due to SPLP fluid which cannot be injected as is without dilution to avoid damage to detector of instrument.

Internal standard 89Y(1) and 89Y(2) was outside qc limit for samples Q2638-04 in Original so for these samples affected parameters are reported from its Dilution.

Internal standard 89Y(1) was outside qc limit for samples Q2638-02, Q2638-06, Q2638-08, Q2638-10, Q2638-12 and Q2638-14 in Original so for these samples affected parameters are reported from its Dilution.

Internal standard 209Bi(1) was outside qc limit for samples Q2638-02, Q2638-04, Q2638-06, Q2638-08, Q2638-10, Q2638-12 and Q2638-14 in Original so for these samples affected parameters are reported from its Dilution.

Internal standard 89Y(1 and 2), 209Bi(1) was outside qc limit for samples Q2639-14Qcs in Original so for these samples affected parameters are reported from its Dilution.

In analytical sequence LB136601, The % recovery was outside of acceptance limit for Beryllium of ICV01, LLICV01 and CCV01 but no any samples parameter associated under this calibration.

In analytical sequence LB136601, The % recovery was outside of acceptance limit for Beryllium and Nickel of ICSAB01 but, no any samples parameter associated under this ICSAB.

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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\_\_\_\_\_