



284 Sheffield Street, Mountainside, NJ 07092  
Phone: 908 789 8900 Fax: 908 789 8922

## **CASE NARRATIVE**

**AECOM Technical Services, Inc.**

**Project Name: NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258**

**Project # N/A**

**Chemtech Project # Q1559**

**Test Name: SVOC-SIMGroup1**

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

22 Water samples were received on 03/12/2025.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1 and VOCMS Group1. This data package contains results for SVOC-SIMGroup1.

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

The samples were analyzed on instrument BNA\_N using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GG. The analysis of SVOC-SIMGroup1 was based on method 8270-Modified and extraction was done based on method 3510.

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

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for BPOW6-9-20250312MS [Terphenyl-d14 - 163%], BPOW6-9-20250312MSD [Terphenyl-d14 - 172%], RE115D1-20250310 [Terphenyl-d14 - 151%], RE115D1-20250310DL [2-Fluorobiphenyl - 126%, Terphenyl-d14 - 180%], RE115D2-20250310 [2-Fluorobiphenyl - 108%, Terphenyl-d14 - 140%], RE134D1-20250310 [2-Fluorobiphenyl - 114%], RE134D3-20250310 [2-Fluorobiphenyl - 111%, Terphenyl-d14 - 134%], RE134D4-20250310 [2-Fluorobiphenyl - 109%, Terphenyl-d14 - 138%] and RE120D3-20250312DL [Terphenyl-d14 - 139%]. Failure surrogates are not associated with the client list, as per criteria affected surrogates were passing, therefore no corrective action was taken also RE115D2-20250310DL [2-Fluorobiphenyl - 154%, 2-Methylnaphthalene-d10 - 159%, Fluoranthene-d10 - 200%, Nitrobenzene-d5 - 144%, Terphenyl-d14 - 210%], RE134D3-20250310DL [2-Fluorobiphenyl - 160%, Fluoranthene-d10 - 184%, Nitrobenzene-d5 - 135%, Terphenyl-d14 - 211%], but these samples were required dilution as well due to high concentration, therefore original and Dilution analysis were reported and no further corrective action taken.

The Internal Standards Areas met the acceptable requirements except for PB167131BL, failure Internal Standard is not associated with the client list, as per criteria affected Internal Standard were passing, therefore no corrective action was taken.



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The Retention Times were acceptable for all samples.

The MS {Q1557-04MS} with File ID: BN036611.D recoveries met the requirements for all compounds except for 1,4-Dioxane[55%] due to matrix interference.

The MSD {Q1557-05MSD} with File ID: BN036612.D recoveries met the acceptable requirements except for 1,4-Dioxane[58%] due to matrix interference.

The RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank Spike Duplicate 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 .

The Tuning criteria met requirements.

Samples RE115D1-20250310, RE115D2-20250310, RE134D3-20250310, DUP03-20250310 and RE120D3-20250312 were diluted due to high concentrations.

**E. Additional Comments:**

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

The not QT review data is reported in the Miscellaneous.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

**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\_\_\_\_\_