



284 Sheffield Street, Mountainside, NJ 7092, Phone: 908 789 8900, Fax: 908 789 8922

## **CASE NARRATIVE**

**JACOBS Engineering Group, Inc.**

**Project Name: Former Schlumberger STC PTC Site D3868221**

**Project # N/A**

**Order ID # Q3787**

**Test Name: VOCMS Group3,VOC-SIM,SVOC-SIMGroup1**

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

22 Water samples were received on 12/04/2025.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: VOCMS Group3,VOC-SIM,SVOC-SIMGroup1. This data package contains results for VOCMS Group3(8260-Low),VOC-SIM(SFAM\_VOCSIM),SVOC-SIMGroup1(8270-Modified).

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

VOCMS Group3 : The analysis performed on instrument MSVOA\_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI. The analysis of VOCMS Group3 was based on method 8260D.

VOC-SIM : The analysis performed on instrument MSVOA\_V were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI. The analysis of VOC-SIM was based on method SFAM\_VOCSIM.

SVOC-SIMGroup1 : 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-GGA. 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 were met for all analysis except following

VOCMS Group3 : OWBR-02-170-120425 [4-Bromofluorobenzene - 186%, Dibromofluoromethane - 142%], OWBR-02-170-120425-FD [1,2-Dichloroethane-d4 - 142%, 4-Bromofluorobenzene - 171%, Dibromofluoromethane - 134%], OW-03B-51.5-120425-FD [1,2-Dichloroethane-d4 - 140%, 4-Bromofluorobenzene - 155%] and OW-08B-72.5-120425-FD [Dibromofluoromethane - 136%] these compounds did not meet the NJDKQP criteria but met the in-house criteria while OWBR-02-170-120425RE [4-Bromofluorobenzene - 125%], OWBR-02-170-120425-FDRE [4-Bromofluorobenzene - 122%], OW-03B-51.5-120425 [1,2-Dichloroethane-d4 - 128%], OW-03B-51.5-



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120425RE [4-Bromofluorobenzene - 122%], OW-03B-51.5-120425-FDRE [4-Bromofluorobenzene - 125%] and OW-08B-72.5-120425-FDRE [4-Bromofluorobenzene - 123%] these compounds did not meet the in-house criteria but met NJDKQP criteria, samples were reanalyzed to confirm the failure and reported.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS recoveries met the requirements for all compounds.

The MSD recoveries met the acceptable requirements.

The RPD recoveries met criteria.

The Blank Spike met requirements for all compounds.

The Blank Spike Duplicate met requirements for all compounds.

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.

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

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

VOC-SIM : The SIM analysis is not required for the sample MW-15B-42.5-120425-SIM, MW-15B-42.5-120425-SIM-MS and MW-15B-42.5-120425-SIM-MSD as all the SIM target analytes are detected at or above the sample adjusted CRQLs in the full scan analysis, a SIM analysis is not to be performed for that sample."

#### **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\_\_\_\_\_