

CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger Site Princeton NJ 2025

Project # N/A

Order ID # Q2008

Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:

1 Water sample was received on 05/09/2025.

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B. Parameters

According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Flash Point, Gasoline Range Organics, Mercury, Metals ICP-TAL, METALS-TAL, pH, SVOC-TCL BNA -20 and VOC-TCLVOA-10. This data package contains results for SVOC-TCL BNA -20.

C. Analytical Techniques:

The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um dfThe analysis of SVOC-TCL BNA -20 was based on method 8270E 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 IDW-AQ-DRUM-633-05092025 [2-Fluorophenol - 13%- Phenol-d6 - 9%]. 2-Fluorophenol did not meet the NJDKQP criteria but met the in-house criteria. AS per method one Acid surrogate is allowed to fail, Therefore no corrective action required.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS {Q1993-02MS} with File ID: BF142341.D recoveries met the requirements for all compounds except for 2-Methylphenol[64%], 3-Nitroaniline[50%], 4-Chloroaniline[29%], Benzo(g,h,i)perylene[64%], Caprolactam[19%] and Diethylphthalate[60%] . These compounds did not meet the NJDKQP criteria but met the in-house criteria, due to matrix interference.

The MSD {Q1993-03MSD} with File ID: BF142342.D recoveries met the acceptable requirements except for 2-Methylphenol[68%], 3-Nitroaniline[52%], 4-Chloroaniline[30%], Benzo(g,h,i)perylene[66%] and Diethylphthalate[68%]. These compounds did not meet the NJDKQP criteria but met the in-house criteria, due to matrix interference.

The RPD met criteria .



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

The Blank Spike for {PB167951BS} with File ID: BF142338.D met requirements for all samples except for 4-Chloroaniline[25%] . This compound did not meet the NJDKQP criteria but met the in-house criteria.

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

The % RSD is greater than 20% in the Initial Calibration (8270-BF050525.M) for 2-Nitrophenol, 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, Butylbenzophthalate, Bis(2-ethylhexyl)phthalate, Di-n-octyl phthalate, these compound are passing on Linear Regression .

The Continuous Calibration File ID BF142336.D met the requirements except for 2,3,4,6-Tetrachlorophenol,2,4,5-Trichlorophenol,2,4,6-Trichlorophenol,2,4-Dichlorophenol,2,4-Dinitrotoluene,2,6-Dinitrotoluene,2-Nitroaniline,3,3-Dichlorobenzidine,3-Nitroaniline,4-Nitroaniline,4-Nitrophenol,Atrazine,Caprolactam,Di-n-butylphthalate, Hexachlorocyclopentadiene, Nitrobenzene, Pentachlorophenol, Phenol,2,4,6-Tribromophenol and Nitrobenzene-d5 . But associated samples have not positive hit for these compounds therefore no corrective action was taken.
The Tuning criteria met requirements.

E. Additional Comments:

The Form 6 is not included in the data package because the Initial Calibration was performed using 8 points.

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.

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_____