284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Cover Page

Order ID : Q2924

Project ID : National Grid Equity - Brooklyn NY

Client : AECOM

Lab Sample Number	Client Sample Number
Q2924-01	MW-10C-082025
Q2924-02	MW-201-082025
Q2924-03	Q2924-02MS
Q2924-04	Q2924-02MSD
Q2924-05	MW-2B-082025
Q2924-06	MW-2A-082025
Q2924-07	MW-18C-082025
Q2924-08	MW-16A-082025
Q2924-09	MW-16C-082025
Q2924-10	MW-8A-082025
Q2924-11	FB-01-082025
Q2924-12	TB

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 manager or his designee, as verified by the following signature.

Signature : _____

Date: 8/30/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

AECOM
Project Name: National Grid Equity - Brooklyn NY
Project # N/A
Order ID # Q2924
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
12 Water samples were received on 08/20/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
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-TCLVOA-10 was based on method 8260D.

D. QA/ QC Samples:

The Holding Times were met for all analysis.
The Surrogate recoveries were met for all analysis.
The Internal Standards Areas were met for all analysis.
The Retention Times were met for all analysis.

The MS {Q2924-03MS} with File ID: VV039005.D recoveries met the requirements for all compounds except for 1,1,2,2-Tetrachloroethane[58%], 1,2-Dibromoethane[80%], 1,2-Dichloroethane[360%], 1,2-Dichloropropane[82%], 2-Hexanone[64%], Benzene[-200%], cis-1,2-Dichloroethene[40%], Ethyl Benzene[0%], Isopropylbenzene[70%], m/p-Xylenes[-100%], o-Xylene[-600%], Styrene[-200%], Toluene[-200%] and trans-1,2-Dichloroethene[20%] due to matrix interference.

The MSD {Q2924-04MSD} with File ID: VV039006.D recoveries met the requirements for all compounds except for 1,2-Dichloroethane[360%], 2-Hexanone[68%], Benzene[-200%], cis-1,2-Dichloroethene[60%], Ethyl Benzene[0%], m/p-Xylenes[-100%], o-Xylene[0%], Styrene[0%] and Toluene[-400%] due to matrix interference.

The RPD for {Q2924-04MSD} with File ID: VV039006.D met criteria except for 1,1,2,2-Tetrachloroethane[50%], 1,2-Dibromo-3-Chloropropane[29%], Acetone[21%], Ethyl Benzene[200%], o-Xylene[200%], Styrene[200%], Bromoform[32%], Bromomethane[22%], Chloromethane[41%], cis-1,2-Dichloroethene[40%], Isopropylbenzene[42%], Methyl Acetate[26%], Methylene Chloride[21%],

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Toluene[67%], trans-1,2-Dichloroethene[120%] and Vinyl chloride[37%] due to difference in results of MS and MSD.

The Blank Spike for {VV0822WBS01} with File ID: VV039011.D met requirements for all compounds except for Bromochloromethane[126%], Methyl Acetate[135%], Methyl tert-butyl Ether[118%] are failing high but no positive hit in associate sample while trans-1,2-Dichloroethene[109%] failing high and associate sample having hit of trans-1,2-Dichloroethene but below CRQL therefore no corrective action taken.

The Blank analysis did not indicate the presence of lab contamination.
The %RSD is greater than 20% in the Initial Calibration method (82V082125W.M) for Bromochloromethane, 2-Hexanone these compounds are passing on Quadratic regression.

The Continuous Calibration File ID VV038982.D met the requirements except for Methyl Acetate is failing high but no positive hit in associate sample therefore no corrective action taken while Styrene is failing marginally high therefore no corrective action taken.

The Continuous Calibration File ID VV039009.D met the requirements except for Bromomethane and Chloromethane are failing low, while 2-Butanone, Acetone, Methyl Acetate and Methyl tert-butyl Ether failing high but only dilution sample analyzed under this CCAL and dilution not required for mentioned analyte therefore no corrective action taken.

The Tuning criteria met requirements.

Samples MW-201-082025, MW-201-082025DL, MW-2B-082025 and MW-2B-082025DL were diluted due to high concentrations.

E. Additional Comments:
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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CASE NARRATIVE

AECOM
Project Name: National Grid Equity - Brooklyn NY
Project # N/A
Order ID # Q2924
Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:
11 Water samples were received on 08/20/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: SVOC-TCL BNA -20. 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 df. The samples were analyzed on instrument BNA_P 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-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 were met for all analysis except for MW-201-082025 [Nitrobenzene-d5 - 171%], MW-201-082025DL2 [Phenol-d6 - 9%], MW-201-082025MS [Nitrobenzene-d5 - 148%] and MW-201-082025MSD [Nitrobenzene-d5 - 149%]. As per SOP one Acid and one Base surrogates are allowed to fail, Therefor no further corrective action was taken.

The Internal Standards Areas were met for all analysis.
The Retention Times were met for all analysis.

The MS {Q2924-03MS} with File ID: BP025602.D recoveries met the requirements for all compounds except for 2,2-oxybis(1-Chloropropane)[33%], 2,4-Dichlorophenol[157%], 2,4-Dimethylphenol[147%], 2-Methylnaphthalene[-233%], 2-Nitrophenol[168%], 4-Chloro-3-methylphenol[149%], Acetophenone[170%], Hexachlorobutadiene[139%], Hexachloroethane[181%], Isophorone[159%], Naphthalene[-777%] and Nitrobenzene[167%]. Recovery failed due to matrix interference, Therefor no further corrective action was taken.

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The MSD {Q2924-04MSD} with File ID: BP025603.D recoveries met the requirements for all compounds except for 2,2-oxybis(1-Chloropropane)[35%], 2,4-Dichlorophenol[162%], 2,4-Dimethylphenol[149%], 2-Methylnaphthalene[-133%], 2-Nitrophenol[172%], 4-Chloro-3-methylphenol[151%], Acetophenone[172%], Hexachlorobutadiene[142%], Hexachloroethane[184%], Isophorone[162%], Naphthalene[-190%] and Nitrobenzene[169%]. Recovery failed due to matrix interference, Therefor no further corrective action was taken.

The RPD for {Q2924-04MSD} with File ID: BP025603.D met criteria except for 2-Methylnaphthalene[55%], Naphthalene[121%]. RPD failed due to result difference between MS and MSD results; Therefor no further corrective action was taken.
The Blank Spike met requirements for all compounds.

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

The %RSD is greater than 20% in the Initial Calibration (Method 8270-BF082025.M) for Hexachlorocyclopentadiene, 2,4-Dinitrophenol these Compounds are passing on Linear regression.

The %RSD is greater than 20% for certain compounds in the Initial Calibration (Method 8270-BF082625.M) 2-Nitroaniline, 2,6-Dinitrotoluene, 3-Nitroaniline, 4-Nitrophenol, 2,4-Dinitrotoluene,4-Nitroaniline, Butylbenzylphthalate, Bis(2-ethylhexyl)phthalate Kept on Linear Regression and Compounds 2-Nitrophenol, 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, Di-n-octyl phthalate Kept on Quadratic Regression.

The Continuous Calibration File ID BF143596.D met the requirements except for 2-Nitrophenol. Failed high but associated samples does not have hit for this compounds, therefor no further corrective action was taken.

The Continuous Calibration File ID BP025544.D met the requirements except for 2,4-Dinitrophenol and Benzaldehyde. Failed high but associated samples does not have hit for this compounds, therefor no further corrective action was taken.

The Continuous Calibration File ID BP025561.D met the requirements except for 2,4-Dinitrophenol and Benzaldehyde. Failed high but associated samples does not have hit for this compounds, therefor no further corrective action was taken.

The Continuous Calibration File ID BP025579.D met the requirements except for 2,4-Dinitrophenol and Benzaldehyde. Failed high but associated samples does not have hit for this compounds, therefor no further corrective action was taken.

The Continuous Calibration File ID BP025596.D met the requirements except for 2!4-Dinitrophenol and Benzaldehyde. Failed high but associated samples does not have hit for this compounds, therefor no further corrective action was taken.

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The Tuning criteria met requirements.

Samples MW-201-082025, MW-201-082025DL, MW-2B-082025 and MW-2B-082025DL 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.
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.

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DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q2924**

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: **SOHIL JODHANI** **Date:** **08/30/2025**