

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sample ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
RE103D2-20250911	Q3097-01	8260-Low	8270-Modified				
RE125D1-20250911	Q3097-04	8260-Low	8270-Modified				
RE125D3-20250911	Q3097-05	8260-Low	8270-Modified				
RE103D3-20250911	Q3097-06	8260-Low	8270-Modified				
RE108D2-20250911	Q3097-07	8260-Low	8270-Modified				
RE125D2-20250911	Q3097-08	8260-Low	8270-Modified				
RE108D1-20250911	Q3097-09	8260-Low	8270-Modified				
RE120D3-20250911	Q3097-10	8260-Low	8270-Modified				
RE105D1-20250911	Q3097-11	8260-Low	8270-Modified				
DUP04-20250911	Q3097-12	8260-Low	8270-Modified				
DUP05-20250911	Q3097-13	8260-Low	8270-Modified				
RE105D2-20250911	Q3097-14	8260-Low	8270-Modified				
RE117D2-20250911	Q3097-15	8260-Low	8270-Modified				
TB03-20250911	Q3097-16	8260-Low	8270-Modified				
TB04-20250911	Q3097-17	8260-Low	8270-Modified				
TB05-20250912	Q3097-18	8260-Low	8270-Modified				
RE120D1-20250912	Q3097-19	8260-Low	8270-Modified				
DUP06-20250912	Q3097-20	8260-Low	8270-Modified				
RE120D2-20250912	Q3097-21	8260-Low	8270-Modified				
RE134D1-20250912	Q3097-22	8260-Low	8270-Modified				
RE134D4-20250912	Q3097-23	8260-Low	8270-Modified				
RE134D2-20250912	Q3097-24	8260-Low	8270-Modified				
RE134D3-20250912	Q3097-25	8260-Low	8270-Modified				

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sample ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
EB01-20250912	Q3097-26	8260-Low	8270-Modified				

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IIa

SAMPLE PREPARATION AND ANALYSIS SUMMARY SEMIVOLATILE (BNA) ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
Q3097-01	Water	09/11/25	09/12/25	09/15/25	09/18/25
Q3097-04	Water	09/11/25	09/12/25	09/15/25	09/18/25
Q3097-05	Water	09/11/25	09/12/25	09/15/25	09/18/25
Q3097-06	Water	09/11/25	09/12/25	09/15/25	09/18/25
Q3097-07	Water	09/11/25	09/12/25	09/15/25	09/18/25
Q3097-08	Water	09/11/25	09/12/25	09/15/25	09/18/25
Q3097-09	Water	09/11/25	09/12/25	09/15/25	09/18/25
Q3097-10	Water	09/11/25	09/12/25	09/16/25	09/19/25
Q3097-11	Water	09/11/25	09/12/25	09/16/25	09/19/25
Q3097-12	Water	09/11/25	09/12/25	09/16/25	09/19/25
Q3097-13	Water	09/11/25	09/12/25	09/16/25	09/19/25
Q3097-14	Water	09/11/25	09/12/25	09/16/25	09/19/25
Q3097-15	Water	09/11/25	09/12/25	09/16/25	09/19/25
Q3097-19	Water	09/12/25	09/12/25	09/16/25	09/19/25
Q3097-20	Water	09/12/25	09/12/25	09/16/25	09/20/25
Q3097-21	Water	09/12/25	09/12/25	09/16/25	09/19/25
Q3097-22	Water	09/12/25	09/12/25	09/16/25	09/19/25
Q3097-23	Water	09/12/25	09/12/25	09/16/25	09/19/25
Q3097-24	Water	09/12/25	09/12/25	09/16/25	09/19/25
Q3097-25	Water	09/12/25	09/12/25	09/16/25	09/19/25
Q3097-26	Water	09/12/25	09/12/25	09/16/25	09/19/25

* Details For Test : SVOC-SIMGroup1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IIb

SAMPLE PREPARATION AND ANALYSIS SUMMARY VOLATILE (VOA) ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
Q3097-01	Water	09/11/25	09/12/25		09/22/25
Q3097-04	Water	09/11/25	09/12/25		09/19/25
Q3097-05	Water	09/11/25	09/12/25		09/19/25
Q3097-06	Water	09/11/25	09/12/25		09/19/25
Q3097-07	Water	09/11/25	09/12/25		09/19/25
Q3097-08	Water	09/11/25	09/12/25		09/19/25
Q3097-09	Water	09/11/25	09/12/25		09/22/25
Q3097-10	Water	09/11/25	09/12/25		09/22/25
Q3097-11	Water	09/11/25	09/12/25		09/19/25
Q3097-12	Water	09/11/25	09/12/25		09/19/25
Q3097-13	Water	09/11/25	09/12/25		09/19/25
Q3097-14	Water	09/11/25	09/12/25		09/19/25
Q3097-15	Water	09/11/25	09/12/25		09/23/25
Q3097-16	Water	09/11/25	09/12/25		09/23/25
Q3097-17	Water	09/11/25	09/12/25		09/23/25
Q3097-18	Water	09/12/25	09/12/25		09/23/25
Q3097-19	Water	09/12/25	09/12/25		09/23/25
Q3097-20	Water	09/12/25	09/12/25		09/23/25
Q3097-21	Water	09/12/25	09/12/25		09/23/25
Q3097-22	Water	09/12/25	09/12/25		09/23/25
Q3097-23	Water	09/12/25	09/12/25		09/23/25
Q3097-24	Water	09/12/25	09/12/25		09/23/25
Q3097-25	Water	09/12/25	09/12/25		09/24/25
Q3097-26	Water	09/12/25	09/12/25		09/22/25

* Details For Test : VOCMS Group1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-III

SAMPLE PREPARATION AND ANALYSIS SUMMARY MISCELLANEOUS ORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
Q3097-01	Water	8260-Low	5030		
Q3097-02	Water	8260-Low	5030		
Q3097-03	Water	8260-Low	5030		
Q3097-04	Water	8260-Low	5030		
Q3097-05	Water	8260-Low	5030		
Q3097-06	Water	8260-Low	5030		
Q3097-07	Water	8260-Low	5030		
Q3097-08	Water	8260-Low	5030		
Q3097-09	Water	8260-Low	5030		
Q3097-10	Water	8260-Low	5030		
Q3097-11	Water	8260-Low	5030		
Q3097-12	Water	8260-Low	5030		
Q3097-13	Water	8260-Low	5030		
Q3097-14	Water	8260-Low	5030		
Q3097-15	Water	8260-Low	5030		
Q3097-16	Water	8260-Low	5030		
Q3097-17	Water	8260-Low	5030		
Q3097-18	Water	8260-Low	5030		
Q3097-19	Water	8260-Low	5030		
Q3097-20	Water	8260-Low	5030		
Q3097-21	Water	8260-Low	5030		
Q3097-22	Water	8260-Low	5030		
Q3097-23	Water	8260-Low	5030		
Q3097-24	Water	8260-Low	5030		
Q3097-25	Water	8260-Low	5030		
Q3097-26	Water	8260-Low	5030		

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-III

SAMPLE PREPARATION AND ANALYSIS SUMMARY MISCELLANEOUS ORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
Q3097-01	Water	8270-Modified	3510C		
Q3097-02	Water	8270-Modified	3510C		
Q3097-03	Water	8270-Modified	3510C		
Q3097-04	Water	8270-Modified	3510C		
Q3097-05	Water	8270-Modified	3510C		
Q3097-06	Water	8270-Modified	3510C		
Q3097-07	Water	8270-Modified	3510C		
Q3097-08	Water	8270-Modified	3510C		
Q3097-09	Water	8270-Modified	3510C		
Q3097-10	Water	8270-Modified	3510C		
Q3097-11	Water	8270-Modified	3510C		
Q3097-12	Water	8270-Modified	3510C		
Q3097-13	Water	8270-Modified	3510C		
Q3097-14	Water	8270-Modified	3510C		
Q3097-15	Water	8270-Modified	3510C		
Q3097-19	Water	8270-Modified	3510C		
Q3097-20	Water	8270-Modified	3510C		
Q3097-21	Water	8270-Modified	3510C		
Q3097-22	Water	8270-Modified	3510C		
Q3097-23	Water	8270-Modified	3510C		
Q3097-24	Water	8270-Modified	3510C		
Q3097-25	Water	8270-Modified	3510C		
Q3097-26	Water	8270-Modified	3510C		

Cover Page

Order ID : Q3097

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

Client : AECOM Technical Services, Inc.

Lab Sample Number

Q3097-01
Q3097-02
Q3097-03
Q3097-04
Q3097-05
Q3097-06
Q3097-07
Q3097-08
Q3097-09
Q3097-10
Q3097-11
Q3097-12
Q3097-13
Q3097-14
Q3097-15
Q3097-16
Q3097-17
Q3097-18
Q3097-19
Q3097-20
Q3097-21
Q3097-22
Q3097-23
Q3097-24
Q3097-25
Q3097-26

Client Sample Number

RE103D2-20250911
RE103D2-20250911MS
RE103D2-20250911MSD
RE125D1-20250911
RE125D3-20250911
RE103D3-20250911
RE108D2-20250911
RE125D2-20250911
RE108D1-20250911
RE120D3-20250911
RE105D1-20250911
DUP04-20250911
DUP05-20250911
RE105D2-20250911
RE117D2-20250911
TB03-20250911
TB04-20250911
TB05-20250912
RE120D1-20250912
DUP06-20250912
RE120D2-20250912
RE134D1-20250912
RE134D4-20250912
RE134D2-20250912
RE134D3-20250912
EB01-20250912

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: 9/26/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

AECOM Technical Services, Inc.

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

Project # N/A

Order ID # Q3097

Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:

26 Water samples were received on 09/12/2025.

B. Parameters

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

C. Analytical Techniques:

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 Group1 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 except for

RE103D2-20250911 [1,2-Dichloroethane-d4 - 122%],

RE108D2-20250911DL [1,2-Dichloroethane-d4 - 119%, 4-Bromofluorobenzene - 118% and Toluene-d8 - 119%], Due to high concentration of compounds, this sample required dilution. Therefore, sample was reanalyzed with dilution and reported while for RE103D2-20250911MS [Toluene-d8 - 113%], surrogate recoveries passing in parent sample and MSD therefore no corrective action taken.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The MS {Q3097-02MS} with File ID: VX047715.D recoveries met the requirements for all compounds except for Bromochloromethane[124%], Trichloroethene[200%] due to matrix interference.

The MSD {Q3097-03MSD} with File ID: VX047716.D recoveries met the requirements for all compounds except for Trichloroethene[140%] due to matrix interference.

The sample # RE103D2-20250911MS and RE103D2-20250911MSD is failing for Bromochloromethane and Trichloroethene therefore the original sample(RE103D2-20250911) is reported with M flag for this compounds.



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

The RPD for {Q3097-03MSD} with File ID: VX047716.D met criteria except for Trichloroethene[35%] due to difference in results of MS and MSD.

The Blank Spike 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 File ID VX047660.D met the requirements except for Bromomethane and Dichlorodifluoromethane are failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID VX047689.D met the requirements except for Bromomethane, Carbon Disulfide, Chloromethane, Dichlorodifluoromethane and Vinyl Chloride are failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID VX047719.D met the requirements except for Bromomethane, Dichlorodifluoromethane and Vinyl Chloride are failing high and associate sample having hit of Dichlorodifluoromethane but below CRQL therefore no corrective action taken.

The Continuous Calibration File ID VX047746.D met the requirements except for Dichlorodifluoromethane is failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID VX047769.D met the requirements except for Methyl Acetate is failing high but no positive hit in associate sample therefore no corrective action taken.

END CCAL was not analyzed in sequence VX092425 due to power error in laboratory during the night and there are no more vials for re-analysis therefore all samples reported from this sequence without END CCAL.

The Tuning criteria met requirements.

Samples RE103D2-20250911, RE108D2-20250911, RE125D2-20250911, RE105D2-20250911, RE120D1-20250912, DUP06-20250912, RE120D2-20250912, RE134D4-20250912 and RE134D3-20250912 were diluted due to high concentrations.

E. Additional Comments:

The Sample #RE125D1-20250911, RE105D1-20250911, DUP04-20250911, RE120D1-20250912, RE134D1-20250912, RE134D2-20250912 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.



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

The not QT review data is reported in the Miscellaneous.

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_____



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

Order ID # Q3097

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

26 Water samples were received on 09/12/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1. 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-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.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The MS recoveries met the requirements for all compounds.

The MSD recoveries met the requirements for all compounds.

The RPD were met for all analysis.

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.

Samples RE125D2-20250911, DUP05-20250911, RE120D1-20250912, DUP06-20250912, RE134D2-20250912 and RE134D3-20250912 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.



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

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_____

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 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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3097

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 Custody

✓

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: MAYUR DESAI

Date: 09/26/2025