

LAB CHRONICLE

OrderID:	Q2329	OrderDate:	6/13/2025 2:09:00 PM
Client:	AECOM Technical Services, Inc.	Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Contact:	Eleanor Vivadou	Location:	D51,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2329-01	TT192D1-20250611	Water	SVOC-SIMGroup1	8270-Modified	06/11/25	06/17/25	06/19/25	06/13/25
Q2329-02	TT188S1-20250612	Water	SVOC-SIMGroup1	8270-Modified	06/12/25	06/17/25	06/19/25	06/13/25
Q2329-03	TT119S1-20250612	Water	SVOC-SIMGroup1	8270-Modified	06/12/25	06/17/25	06/19/25	06/13/25
Q2329-04	FB01-20250613	Water	SVOC-SIMGroup1	8270-Modified	06/13/25	06/17/25	06/19/25	06/13/25
Q2329-05	TT162S1-20250613	Water	SVOC-SIMGroup1	8270-Modified	06/13/25	06/17/25	06/19/25	06/13/25
Q2329-09	TT149S1-20250613	Water	SVOC-SIMGroup1	8270-Modified	06/13/25	06/17/25	06/19/25	06/13/25
Q2329-10	TT172S1-20250613	Water	SVOC-SIMGroup1	8270-Modified	06/13/25	06/17/25	06/18/25	06/13/25
Q2329-14	DUP04-20250613	Water	SVOC-SIMGroup1	8270-Modified	06/13/25	06/17/25	06/19/25	06/13/25
Q2329-15	EB01-20250613	Water	SVOC-SIMGroup1	8270-Modified	06/13/25	06/17/25	06/19/25	06/13/25
Q2329-18	TT163S1-20250613	Water	SVOC-SIMGroup1	8270-Modified	06/13/25	06/17/25	06/19/25	06/13/25

Hit Summary Sheet SW-846

SDG No.: Q2329

Client: AECOM Technical Services, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : TT192D1-20250611									
Q2329-01	TT192D1-20250611	WATER	1,4-Dioxane	1.600		0.07	0.22	0.22	ug/L
			Total Svoc :			1.60			
			Total Concentration:			1.60			
Client ID : TT188S1-20250612									
Q2329-02	TT188S1-20250612	WATER	1,4-Dioxane	0.120	J	0.07	0.2	0.2	ug/L
			Total Svoc :			0.12			
			Total Concentration:			0.12			
Client ID : TT162S1-20250613									
Q2329-05	TT162S1-20250613	WATER	1,4-Dioxane	0.200		0.07	0.2	0.2	ug/L
			Total Svoc :			0.20			
			Total Concentration:			0.20			
Client ID : TT149S1-20250613									
Q2329-09	TT149S1-20250613	WATER	1,4-Dioxane	0.240		0.07	0.2	0.2	ug/L
			Total Svoc :			0.24			
			Total Concentration:			0.24			
Client ID : TT172S1-20250613									
Q2329-10	TT172S1-20250613	WATER	1,4-Dioxane	1.600	M	0.07	0.2	0.2	ug/L
			Total Svoc :			1.60			
			Total Concentration:			1.60			
Client ID : DUP04-20250613									
Q2329-14	DUP04-20250613	WATER	1,4-Dioxane	0.270		0.07	0.21	0.21	ug/L
			Total Svoc :			0.27			
			Total Concentration:			0.27			
Client ID : TT163S1-20250613									
Q2329-18	TT163S1-20250613	WATER	1,4-Dioxane	0.520		0.07	0.2	0.2	ug/L
			Total Svoc :			0.52			
			Total Concentration:			0.52			



SAMPLE DATA

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	06/11/25	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	06/13/25	
Client Sample ID:	TT192D1-20250611		SDG No.:	Q2329	
Lab Sample ID:	Q2329-01		Matrix:	Water	
Analytical Method:	SW8270ESIM		% Solid:	0	
Sample Wt/Vol:	910	Units: mL	Final Vol:	1000	uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1	
Extraction Type :		Decanted : N	Level :	LOW	
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N	PH :
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037328.D	1	06/17/25 08:55	06/19/25 00:28	PB168508

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.60		0.070	0.22	0.22	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		75%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		96%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.25		55 - 111		63%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		77%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		58 - 132		96%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	631	7.575				
1146-65-2	Naphthalene-d8	1440	10.351				
15067-26-2	Acenaphthene-d10	1060	14.224				
1517-22-2	Phenanthrene-d10	2180	16.971				
1719-03-5	Chrysene-d12	2470	21.171				
1520-96-3	Perylene-d12	2820	23.351				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TT188S1-20250612	SDG No.:	Q2329
Lab Sample ID:	Q2329-02	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037329.D	1	06/17/25 08:55	06/19/25 01:04	PB168508

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.12	J	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		85%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		103%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		72%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		84%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.48		58 - 132		119%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	805	7.575				
1146-65-2	Naphthalene-d8	1810	10.351				
15067-26-2	Acenaphthene-d10	1320	14.224				
1517-22-2	Phenanthrene-d10	2640	16.971				
1719-03-5	Chrysene-d12	2640	21.171				
1520-96-3	Perylene-d12	2750	23.357				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	06/12/25	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	06/13/25	
Client Sample ID:	TT119S1-20250612		SDG No.:	Q2329	
Lab Sample ID:	Q2329-03		Matrix:	Water	
Analytical Method:	SW8270ESIM		% Solid:	0	
Sample Wt/Vol:	970	Units: mL	Final Vol:	1000	uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1	
Extraction Type :		Decanted : N	Level :	LOW	
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N	PH :
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037330.D	1	06/17/25 08:55	06/19/25 01:41	PB168508

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.21	U	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		93%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.46		30 - 150		114%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		84%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		98%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		122%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	676	7.575				
1146-65-2	Naphthalene-d8	1470	10.351				
15067-26-2	Acenaphthene-d10	1030	14.224				
1517-22-2	Phenanthrene-d10	2190	16.971				
1719-03-5	Chrysene-d12	2320	21.171				
1520-96-3	Perylene-d12	2520	23.357				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	06/13/25
Client Sample ID:	FB01-20250613		SDG No.:	Q2329
Lab Sample ID:	Q2329-04		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	960	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037331.D	1	06/17/25 08:55	06/19/25 02:17	PB168508

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.21	U	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.40		30 - 150		100%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		112%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		80%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		100%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.50		58 - 132		124%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	726		7.568			
1146-65-2	Naphthalene-d8	1560		10.351			
15067-26-2	Acenaphthene-d10	1140		14.224			
1517-22-2	Phenanthrene-d10	2310		16.971			
1719-03-5	Chrysene-d12	2350		21.171			
1520-96-3	Perylene-d12	2630		23.354			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	06/13/25
Client Sample ID:	TT162S1-20250613		SDG No.:	Q2329
Lab Sample ID:	Q2329-05		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037332.D	1	06/17/25 08:55	06/19/25 02:53	PB168508

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.36		30 - 150		89%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		108%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		76%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		90%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.50		58 - 132		125%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	715	7.575				
1146-65-2	Naphthalene-d8	1480	10.351				
15067-26-2	Acenaphthene-d10	1100	14.224				
1517-22-2	Phenanthrene-d10	2290	16.971				
1719-03-5	Chrysene-d12	2300	21.171				
1520-96-3	Perylene-d12	2450	23.357				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	06/13/25
Client Sample ID:	TT149S1-20250613		SDG No.:	Q2329
Lab Sample ID:	Q2329-09		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037333.D	1	06/17/25 08:55	06/19/25 03:29	PB168508

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.24		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		77%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		105%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		75%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		79%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.44		58 - 132		111%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	693	7.568				
1146-65-2	Naphthalene-d8	1540	10.351				
15067-26-2	Acenaphthene-d10	1130	14.224				
1517-22-2	Phenanthrene-d10	2490	16.971				
1719-03-5	Chrysene-d12	2570	21.171				
1520-96-3	Perylene-d12	2710	23.354				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	06/13/25	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	06/13/25	
Client Sample ID:	TT172S1-20250613		SDG No.:	Q2329	
Lab Sample ID:	Q2329-10		Matrix:	Water	
Analytical Method:	SW8270ESIM		% Solid:	0	
Sample Wt/Vol:	980	Units: mL	Final Vol:	1000	uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1	
Extraction Type :		Decanted : N	Level :	LOW	
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N	PH :
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037325.D	1	06/17/25 08:55	06/18/25 22:39	PB168508

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.60	M	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.42		30 - 150		104%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		111%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		99%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		122%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	552		7.575			
1146-65-2	Naphthalene-d8	1220		10.351			
15067-26-2	Acenaphthene-d10	954		14.224			
1517-22-2	Phenanthrene-d10	1980		16.971			
1719-03-5	Chrysene-d12	2040		21.171			
1520-96-3	Perylene-d12	2140		23.357			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	06/13/25	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	06/13/25	
Client Sample ID:	DUP04-20250613		SDG No.:	Q2329	
Lab Sample ID:	Q2329-14		Matrix:	Water	
Analytical Method:	SW8270ESIM		% Solid:	0	
Sample Wt/Vol:	950	Units: mL	Final Vol:	1000	uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1	
Extraction Type :		Decanted : N	Level :	LOW	
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N	PH :
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037334.D	1	06/17/25 08:55	06/19/25 04:05	PB168508

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.27		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		84%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		104%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		76%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		87%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		58 - 132		118%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	756	7.568				
1146-65-2	Naphthalene-d8	1700	10.351				
15067-26-2	Acenaphthene-d10	1190	14.213				
1517-22-2	Phenanthrene-d10	2600	16.971				
1719-03-5	Chrysene-d12	2690	21.171				
1520-96-3	Perylene-d12	2780	23.354				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	06/13/25	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	06/13/25	
Client Sample ID:	EB01-20250613		SDG No.:	Q2329	
Lab Sample ID:	Q2329-15		Matrix:	Water	
Analytical Method:	SW8270ESIM		% Solid:	0	
Sample Wt/Vol:	990	Units: mL	Final Vol:	1000	uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1	
Extraction Type :		Decanted : N	Level :	LOW	
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N	PH :
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037335.D	1	06/17/25 08:55	06/19/25 04:42	PB168508

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.36		30 - 150		90%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		102%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		89%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		115%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	786		7.568			
1146-65-2	Naphthalene-d8	1730		10.351			
15067-26-2	Acenaphthene-d10	1240		14.224			
1517-22-2	Phenanthrene-d10	2670		16.971			
1719-03-5	Chrysene-d12	2620		21.171			
1520-96-3	Perylene-d12	2770		23.354			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	06/13/25
Client Sample ID:	TT163S1-20250613		SDG No.:	Q2329
Lab Sample ID:	Q2329-18		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037336.D	1	06/17/25 08:55	06/19/25 05:18	PB168508

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.52		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		87%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.49		30 - 150		123%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		85%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		83%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.44		58 - 132		111%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	800	7.568				
1146-65-2	Naphthalene-d8	1770	10.351				
15067-26-2	Acenaphthene-d10	1340	14.213				
1517-22-2	Phenanthrene-d10	3030	16.971				
1719-03-5	Chrysene-d12	3750	21.171				
1520-96-3	Perylene-d12	4130	23.351				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



QC SUMMARY

Surrogate Summary

SW-846

SDG No.: Q2329

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB168508BL	PB168508BL	2-Methylnaphthalene-d10	0.4	0.38	94		30	150
		Fluoranthene-d10	0.4	0.45	113		30	150
		Nitrobenzene-d5	0.4	0.35	87		55	111
		2-Fluorobiphenyl	0.4	0.36	91		53	106
		Terphenyl-d14	0.4	0.42	106		58	132
PB168508BS	PB168508BS	2-Methylnaphthalene-d10	0.4	0.37	93		30	150
		Fluoranthene-d10	0.4	0.33	82		30	150
		Nitrobenzene-d5	0.4	0.34	85		55	111
		2-Fluorobiphenyl	0.4	0.37	92		53	106
		Terphenyl-d14	0.4	0.36	91		58	132
Q2329-01	TT192D1-20250611	2-Methylnaphthalene-d10	0.4	0.30	75		30	150
		Fluoranthene-d10	0.4	0.39	96		30	150
		Nitrobenzene-d5	0.4	0.25	63		55	111
		2-Fluorobiphenyl	0.4	0.31	77		53	106
		Terphenyl-d14	0.4	0.38	96		58	132
Q2329-02	TT188S1-20250612	2-Methylnaphthalene-d10	0.4	0.34	85		30	150
		Fluoranthene-d10	0.4	0.41	103		30	150
		Nitrobenzene-d5	0.4	0.29	72		55	111
		2-Fluorobiphenyl	0.4	0.34	84		53	106
		Terphenyl-d14	0.4	0.48	119		58	132
Q2329-03	TT119S1-20250612	2-Methylnaphthalene-d10	0.4	0.37	93		30	150
		Fluoranthene-d10	0.4	0.46	114		30	150
		Nitrobenzene-d5	0.4	0.34	84		55	111
		2-Fluorobiphenyl	0.4	0.39	98		53	106
		Terphenyl-d14	0.4	0.49	122		58	132
Q2329-04	FB01-20250613	2-Methylnaphthalene-d10	0.4	0.40	100		30	150
		Fluoranthene-d10	0.4	0.45	112		30	150
		Nitrobenzene-d5	0.4	0.32	80		55	111
		2-Fluorobiphenyl	0.4	0.40	100		53	106
		Terphenyl-d14	0.4	0.50	124		58	132
Q2329-05	TT162S1-20250613	2-Methylnaphthalene-d10	0.4	0.36	89		30	150
		Fluoranthene-d10	0.4	0.43	108		30	150
		Nitrobenzene-d5	0.4	0.30	76		55	111
		2-Fluorobiphenyl	0.4	0.36	90		53	106
		Terphenyl-d14	0.4	0.50	125		58	132
Q2329-09	TT149S1-20250613	2-Methylnaphthalene-d10	0.4	0.31	77		30	150
		Fluoranthene-d10	0.4	0.42	105		30	150
		Nitrobenzene-d5	0.4	0.30	75		55	111
		2-Fluorobiphenyl	0.4	0.31	79		53	106
		Terphenyl-d14	0.4	0.44	111		58	132
Q2329-10	TT172S1-20250613	2-Methylnaphthalene-d10	0.4	0.42	104		30	150
		Fluoranthene-d10	0.4	0.44	111		30	150
		Nitrobenzene-d5	0.4	0.32	81		55	111
		2-Fluorobiphenyl	0.4	0.40	99		53	106
		Terphenyl-d14	0.4	0.49	122		58	132
Q2329-11MS	TT172S1-20250613MS	2-Methylnaphthalene-d10	0.4	0.39	98		30	150
		Fluoranthene-d10	0.4	0.43	108		30	150
		Nitrobenzene-d5	0.4	0.33	83		55	111
		2-Fluorobiphenyl	0.4	0.36	89		53	106
		Terphenyl-d14	0.4	0.54	134	*	58	132
Q2329-12MSD	TT172S1-20250613MSD	2-Methylnaphthalene-d10	0.4	0.36	90		30	150

Surrogate Summary

SW-846

SDG No.: Q2329

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
Q2329-12MSD	TT172S1-20250613MSD	Fluoranthene-d10	0.4	0.45	111		30	150
		Nitrobenzene-d5	0.4	0.32	81		55	111
		2-Fluorobiphenyl	0.4	0.36	91		53	106
		Terphenyl-d14	0.4	0.53	133	*	58	132
Q2329-14	DUP04-20250613	2-Methylnaphthalene-d10	0.4	0.34	84		30	150
		Fluoranthene-d10	0.4	0.42	104		30	150
		Nitrobenzene-d5	0.4	0.31	76		55	111
		2-Fluorobiphenyl	0.4	0.35	87		53	106
Q2329-15	EB01-20250613	Terphenyl-d14	0.4	0.47	118		58	132
		2-Methylnaphthalene-d10	0.4	0.36	90		30	150
		Fluoranthene-d10	0.4	0.41	102		30	150
		Nitrobenzene-d5	0.4	0.32	79		55	111
Q2329-18	TT163S1-20250613	2-Fluorobiphenyl	0.4	0.36	89		53	106
		Terphenyl-d14	0.4	0.46	115		58	132
		2-Methylnaphthalene-d10	0.4	0.35	87		30	150
		Fluoranthene-d10	0.4	0.49	123		30	150
		Nitrobenzene-d5	0.4	0.34	85		55	111
		2-Fluorobiphenyl	0.4	0.33	83		53	106
		Terphenyl-d14	0.4	0.44	111		58	132



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

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: Q2329
Client: AECOM Technical Services, Inc.
Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID: Q2329-11MS		Client Sample ID: TT172S1-20250613MS						DataFile: BN037326.D			
1,4-Dioxane	0.41	1.60	1.50	ug/L	-24	*			70	130	



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

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: Q2329
Client: AECOM Technical Services, Inc.
Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID: Q2329-12MSD		Client Sample ID: TT172S1-20250613MSD						DataFile: BN037327.D			
1,4-Dioxane	0.4	1.60	1.50	ug/L	-25	*	4		70	130	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2329

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified DataFile: BN037337.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB168508BS	1,4-Dioxane	0.4	0.44	ug/L	110				70	130	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168508BL

Lab Name: CHEMTECH

Contract: AECO15

Lab Code: CHEM Case No.: Q2329

SAS No.: Q2329 SDG NO.: Q2329

Lab File ID: BN037324.D

Lab Sample ID: PB168508BL

Instrument ID: BNA_N

Date Extracted: 06/17/2025

Matrix: (soil/water) Water

Date Analyzed: 06/18/2025

Level: (low/med) LOW

Time Analyzed: 22:02

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168508BS	PB168508BS	BN037337.D	06/19/2025
TT192D1-20250611	Q2329-01	BN037328.D	06/19/2025
TT188S1-20250612	Q2329-02	BN037329.D	06/19/2025
TT119S1-20250612	Q2329-03	BN037330.D	06/19/2025
FB01-20250613	Q2329-04	BN037331.D	06/19/2025
TT172S1-20250613	Q2329-10	BN037325.D	06/18/2025
TT172S1-20250613MS	Q2329-11MS	BN037326.D	06/18/2025
TT172S1-20250613MSD	Q2329-12MSD	BN037327.D	06/18/2025
TT162S1-20250613	Q2329-05	BN037332.D	06/19/2025
TT149S1-20250613	Q2329-09	BN037333.D	06/19/2025
DUP04-20250613	Q2329-14	BN037334.D	06/19/2025
EB01-20250613	Q2329-15	BN037335.D	06/19/2025
TT163S1-20250613	Q2329-18	BN037336.D	06/19/2025

COMMENTS: _____

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: AECO15

Lab Code: CHEM

SAS No.: Q2329

SDG NO.: Q2329

Lab File ID: BN037312.D

DFTPP Injection Date: 06/18/2025

Instrument ID: BNA_N

DFTPP Injection Time: 13:27

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.1 (0.3) 1
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
365	Greater than 1% of mass 198	7.2
441	Present, but less than mass 443	78.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	15.9 (20.1) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN037313.D	06/18/2025	14:06
SSTDICC0.2	SSTDICC0.2	BN037314.D	06/18/2025	14:42
SSTDICCC0.4	SSTDICCC0.4	BN037315.D	06/18/2025	15:18
SSTDICC0.8	SSTDICC0.8	BN037316.D	06/18/2025	15:55
SSTDICC1.6	SSTDICC1.6	BN037317.D	06/18/2025	16:31
SSTDICC3.2	SSTDICC3.2	BN037318.D	06/18/2025	17:07
SSTDICC5.0	SSTDICC5.0	BN037319.D	06/18/2025	17:43

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: AECO15

Lab Code: CHEM

SAS No.: Q2329

SDG NO.: Q2329

Lab File ID: BN037322.D

DFTPP Injection Date: 06/18/2025

Instrument ID: BNA_N

DFTPP Injection Time: 20:47

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.5) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.1 (0.5) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
365	Greater than 1% of mass 198	7.8
441	Present, but less than mass 443	85.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	15.1 (18.9) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN037323.D	06/18/2025	21:26
PB168508BL	PB168508BL	BN037324.D	06/18/2025	22:02
TT172S1-20250613	Q2329-10	BN037325.D	06/18/2025	22:39
TT172S1-20250613MS	Q2329-11MS	BN037326.D	06/18/2025	23:15
TT172S1-20250613MSD	Q2329-12MSD	BN037327.D	06/18/2025	23:52
TT192D1-20250611	Q2329-01	BN037328.D	06/19/2025	00:28
TT188S1-20250612	Q2329-02	BN037329.D	06/19/2025	01:04
TT119S1-20250612	Q2329-03	BN037330.D	06/19/2025	01:41
FB01-20250613	Q2329-04	BN037331.D	06/19/2025	02:17
TT162S1-20250613	Q2329-05	BN037332.D	06/19/2025	02:53
TT149S1-20250613	Q2329-09	BN037333.D	06/19/2025	03:29
DUP04-20250613	Q2329-14	BN037334.D	06/19/2025	04:05
EB01-20250613	Q2329-15	BN037335.D	06/19/2025	04:42
TT163S1-20250613	Q2329-18	BN037336.D	06/19/2025	05:18
PB168508BS	PB168508BS	BN037337.D	06/19/2025	05:54
SSTDCCC0.4EC	SSTDCCC0.4	BN037338.D	06/19/2025	07:06

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2329 SAS No.: Q2329 SDG NO.: Q2329

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/18/2025

Lab File ID: BN037323.D Time Analyzed: 21:26

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	749	7.575	1639	10.35	1188	14.22
UPPER LIMIT	1498	8.075	3278	10.851	2376	14.724
LOWER LIMIT	374.5	7.075	819.5	9.851	594	13.724
EPA SAMPLE NO.						
01 PB168508BL	562	7.58	1150	10.36	831	14.22
02 TT172S1-20250613	552	7.58	1224	10.35	954	14.22
03 TT192D1-20250611	631	7.58	1435	10.35	1064	14.22
04 TT188S1-20250612	805	7.58	1809	10.35	1315	14.22
05 TT119S1-20250612	676	7.58	1473	10.35	1030	14.22
06 FB01-20250613	726	7.57	1555	10.35	1144	14.22
07 PB168508BS	1288	7.57	2690	10.34	1686	14.21
08 TT162S1-20250613	715	7.58	1482	10.35	1103	14.22
09 TT149S1-20250613	693	7.57	1543	10.35	1129	14.22
10 TT172S1-20250613MS	620	7.57	1373	10.35	997	14.22
11 TT172S1-20250613MSD	652	7.57	1479	10.35	1035	14.22
12 DUP04-20250613	756	7.57	1697	10.35	1190	14.21
13 EB01-20250613	786	7.57	1733	10.35	1237	14.22
14 TT163S1-20250613	800	7.57	1772	10.35	1339	14.21

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2329 SAS No.: Q2329 SDG NO.: Q2329

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/18/2025

Lab File ID: BN037323.D Time Analyzed: 21:26

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	2584	16.971	2436	21.171	2490	23.357
	UPPER LIMIT	5168	17.471	4872	21.671	4980	23.857
	LOWER LIMIT	1292	16.471	1218	20.671	1245	22.857
	EPA SAMPLE NO.						
01	PB168508BL	1490	16.98	1687	21.18	1359	23.37
02	TT172S1-20250613	1976	16.97	2039	21.17	2136	23.36
03	TT192D1-20250611	2175	16.97	2468	21.17	2823	23.35
04	TT188S1-20250612	2637	16.97	2639	21.17	2745	23.36
05	TT119S1-20250612	2192	16.97	2323	21.17	2519	23.36
06	FB01-20250613	2312	16.97	2354	21.17	2632	23.35
07	PB168508BS	3212	16.97	3029	21.17	3232	23.35
08	TT162S1-20250613	2287	16.97	2301	21.17	2452	23.36
09	TT149S1-20250613	2488	16.97	2574	21.17	2711	23.35
10	TT172S1-20250613MS	2208	16.97	2274	21.17	2391	23.36
11	TT172S1-20250613MSD	2193	16.97	2332	21.17	2470	23.35
12	DUP04-20250613	2601	16.97	2687	21.17	2780	23.35
13	EB01-20250613	2666	16.97	2615	21.17	2770	23.35
14	TT163S1-20250613	3031	16.97	3753	21.17	4134	23.35

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



QC SAMPLE DATA

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	
Client Sample ID:	PB168508BL		SDG No.:	Q2329
Lab Sample ID:	PB168508BL		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037324.D	1	06/17/25 08:55	06/18/25 22:02	PB168508

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.38		30 - 150		94%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		113%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		87%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		91%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		58 - 132		106%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	562	7.575				
1146-65-2	Naphthalene-d8	1150	10.362				
15067-26-2	Acenaphthene-d10	831	14.224				
1517-22-2	Phenanthrene-d10	1490	16.984				
1719-03-5	Chrysene-d12	1690	21.18				
1520-96-3	Perylene-d12	1360	23.366				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	
Client Sample ID:	PB168508BS		SDG No.:	Q2329
Lab Sample ID:	PB168508BS		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037337.D	1	06/17/25 08:55	06/19/25 05:54	PB168508

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.44		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		93%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150		82%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		85%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		92%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		58 - 132		91%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1290	7.568				
1146-65-2	Naphthalene-d8	2690	10.34				
15067-26-2	Acenaphthene-d10	1690	14.213				
1517-22-2	Phenanthrene-d10	3210	16.971				
1719-03-5	Chrysene-d12	3030	21.171				
1520-96-3	Perylene-d12	3230	23.354				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	06/13/25	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	06/13/25	
Client Sample ID:	TT172S1-20250613MS		SDG No.:	Q2329	
Lab Sample ID:	Q2329-11MS		Matrix:	Water	
Analytical Method:	SW8270ESIM		% Solid:	0	
Sample Wt/Vol:	970	Units: mL	Final Vol:	1000	uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1	
Extraction Type :		Decanted : N	Level :	LOW	
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N	PH :
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037326.D	1	06/17/25 08:55	06/18/25 23:15	PB168508

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.50		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.39		30 - 150		98%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		108%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		83%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		89%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.54	*	58 - 132		134%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	620	7.568				
1146-65-2	Naphthalene-d8	1370	10.351				
15067-26-2	Acenaphthene-d10	997	14.224				
1517-22-2	Phenanthrene-d10	2210	16.971				
1719-03-5	Chrysene-d12	2270	21.171				
1520-96-3	Perylene-d12	2390	23.357				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TT172S1-20250613MSD	SDG No.:	Q2329
Lab Sample ID:	Q2329-12MSD	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037327.D	1	06/17/25 08:55	06/18/25 23:52	PB168508

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.50		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.36		30 - 150		90%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		111%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		91%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.53	*	58 - 132		133%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	652	7.568				
1146-65-2	Naphthalene-d8	1480	10.351				
15067-26-2	Acenaphthene-d10	1040	14.224				
1517-22-2	Phenanthrene-d10	2190	16.971				
1719-03-5	Chrysene-d12	2330	21.171				
1520-96-3	Perylene-d12	2470	23.351				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



CALIBRATION SUMMARY

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN061925.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Jun 18 18:40:16 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN037313.D 0.2 =BN037314.D 0.4 =BN037315.D 0.8 =BN037316.D 1.6 =BN037317.D 3.2 =BN037318.D 5.0 =BN037319.D

	Compound	0.1	0.2	0.4	0.8	1.6	3.2	5.0	Avg	%RSD

1) I	1,4-Dichlorobenzen...	-----ISTD-----								
2)	1,4-Dioxane	0.422	0.403	0.336	0.344	0.319	0.318	0.357	12.55	
3)	n-Nitrosodimet...	0.478	0.403	0.399	0.423	0.392	0.387	0.414	8.21	
4) S	2-Fluorophenol	0.728	0.755	0.721	0.701	0.751	0.710	0.723	0.727	2.76
5) S	Phenol-d6	0.508	0.618	0.704	0.713	0.800	0.811	0.849	0.715	16.83
6)	bis(2-Chloroet...	0.451	0.517	0.558	0.643	0.712	0.693	0.709	0.612	16.95
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.327	0.262	0.328	0.314	0.368	0.362	0.372	0.333	11.64
9)	Naphthalene	1.023	1.012	1.032	1.010	1.085	1.028	1.055	1.035	2.57
10)	Hexachlorobuta...	0.565	0.542	0.559	0.522	0.541	0.481	0.454	0.524	7.89
11) SURR	2-Methylnaphth...	0.582	0.585	0.688	0.639	0.697	0.669	0.692	0.650	7.62
12)	2-Methylnaphth...	0.593	0.695	0.710	0.726	0.802	0.771	0.804	0.729	10.14
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.315	0.274	0.290	0.289	0.318	0.294	0.285	0.295	5.44
15) S	2-Fluorobiphenyl	1.547	1.636	1.764	1.756	1.928	1.835	1.804	1.753	7.22
16)	Acenaphthylene	1.677	1.605	1.625	1.624	1.768	1.728	1.752	1.683	3.98
17)	Acenaphthene	1.102	1.115	1.092	1.071	1.169	1.134	1.139	1.117	2.92
18)	Fluorene	1.455	1.522	1.548	1.564	1.692	1.649	1.656	1.584	5.37
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.110	0.094	0.118	0.134	0.139	0.143	0.123	15.61	
21)	4-Bromophenyl-...	0.329	0.333	0.316	0.320	0.350	0.341	0.334	0.332	3.55
22)	Hexachlorobenzene	0.364	0.377	0.364	0.336	0.354	0.324	0.315	0.348	6.67
23)	Atrazine	0.247	0.262	0.245	0.253	0.275	0.268	0.265	0.259	4.37
24)	Pentachlorophenol	0.196	0.171	0.187	0.205	0.199	0.198	0.193	6.31	
25)	Phenanthrene	1.100	1.077	1.075	1.081	1.186	1.165	1.200	1.126	4.92
26)	Anthracene	0.954	1.000	0.996	1.019	1.118	1.141	1.166	1.056	7.92
27) SURR	Fluoranthene-d10	1.279	1.248	1.320	1.279	1.291	1.234	1.226	1.268	2.65
28)	Fluoranthene	1.584	1.540	1.494	1.576	1.613	1.570	1.574	1.564	2.42
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.497	1.481	1.602	1.395	1.602	1.518	1.570	1.523	4.90
31) S	Terphenyl-d14	0.829	0.875	0.957	0.866	0.997	0.944	0.956	0.918	6.66
32)	Benzo(a)anthra...	1.066	1.166	1.197	1.305	1.429	1.395	1.460	1.288	11.60
33)	Chrysene	1.845	1.729	1.648	1.539	1.696	1.528	1.524	1.644	7.41
34)	Bis(2-ethylhex...	0.570	0.536	0.501	0.524	0.502	0.537	0.528	4.89	
35) I	Perylene-d12	-----ISTD-----								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\

Method File : 8270-SIM-BN061925.M

36)	Indeno(1,2,3-c...	1.366	1.552	1.601	1.655	1.845	1.893	1.863	1.682	11.58
37)	Benzo(b)fluora...	1.268	1.244	1.290	1.382	1.543	1.499	1.554	1.397	9.60
38)	Benzo(k)fluora...	1.429	1.439	1.528	1.525	1.627	1.587	1.608	1.535	5.13
39) C	Benzo(a)pyrene	1.215	1.223	1.244	1.271	1.372	1.360	1.371	1.294	5.54
40)	Dibenzo(a,h)an...	1.180	1.246	1.241	1.286	1.498	1.504	1.504	1.351	10.70
41)	Benzo(g,h,i)pe...	1.468	1.470	1.481	1.486	1.661	1.625	1.604	1.542	5.45

(#) = Out of Range

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2329 SAS No.: Q2329 SDG No.: Q2329

Instrument ID: BNA_N Calibration Date/Time: 06/18/2025 21:26

Lab File ID: BN037323.D Init. Calib. Date(s): 06/18/2025 06/18/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 14:06 17:43

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.650	0.700		7.7	20.0
Fluoranthene-d10	1.268	1.254		-1.1	20.0
2-Fluorophenol	0.727	0.722		-0.7	20.0
Phenol-d6	0.715	0.725		1.4	20.0
Nitrobenzene-d5	0.333	0.337		1.2	20.0
2-Fluorobiphenyl	1.753	1.795		2.4	20.0
2,4,6-Tribromophenol	0.295	0.291		-1.4	20.0
Terphenyl-d14	0.918	0.934		1.7	20.0
1,4-Dioxane	0.357	0.374		4.8	20.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15
 Lab Code: CHEM Case No.: Q2329 SAS No.: Q2329 SDG No.: Q2329
 Instrument ID: BNA_N Calibration Date/Time: 06/19/2025 07:06
 Lab File ID: BN037338.D Init. Calib. Date(s): 06/18/2025 06/18/2025
 EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 14:06 17:43
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.650	0.706		8.6	50.0
Fluoranthene-d10	1.268	1.307		3.1	50.0
2-Fluorophenol	0.727	0.740		1.8	50.0
Phenol-d6	0.715	0.739		3.4	50.0
Nitrobenzene-d5	0.333	0.352		5.7	50.0
2-Fluorobiphenyl	1.753	1.672		-4.6	50.0
2,4,6-Tribromophenol	0.295	0.257		-12.9	50.0
Terphenyl-d14	0.918	0.879		-4.2	50.0
1,4-Dioxane	0.357	0.318		-10.9	50.0

All other compounds must meet a minimum RRF of 0.010.