

LAB CHRONICLE

OrderID:	Q1582	OrderDate:	3/14/2025 1:09:00 PM
Client:	AECOM Technical Services, Inc.	Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Contact:	Eleanor Vivadou	Location:	I42,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1582-01	RE117D1-20250313	Water	SVOC-SIMGroup1	8270-Modified	03/13/25	03/17/25	03/17/25	03/14/25
Q1582-02	TT180D1-20250313	Water	SVOC-SIMGroup1	8270-Modified	03/13/25	03/17/25	03/17/25	03/14/25
Q1582-03	TT180D2-20250313	Water	SVOC-SIMGroup1	8270-Modified	03/13/25	03/17/25	03/17/25	03/14/25
Q1582-03DL	TT180D2-20250313DL	Water	SVOC-SIMGroup1	8270-Modified	03/13/25	03/17/25	03/18/25	03/14/25
Q1582-04	TT180D-20250313	Water	SVOC-SIMGroup1	8270-Modified	03/13/25	03/17/25	03/17/25	03/14/25
Q1582-05	FB02-20250313	Water	SVOC-SIMGroup1	8270-Modified	03/13/25	03/17/25	03/17/25	03/14/25
Q1582-06	RE131D1-20250313	Water	SVOC-SIMGroup1	8270-Modified	03/13/25	03/17/25	03/17/25	03/14/25
Q1582-06DL	RE131D1-20250313DL	Water	SVOC-SIMGroup1	8270-Modified	03/13/25	03/17/25	03/18/25	03/14/25
Q1582-07	RE131D2-20250313	Water	SVOC-SIMGroup1	8270-Modified	03/13/25	03/17/25	03/17/25	03/14/25
Q1582-07DL	RE131D2-20250313DL	Water	SVOC-SIMGroup1	8270-Modified	03/13/25	03/17/25	03/18/25	03/14/25
Q1582-08	RE131D3-20250313	Water	SVOC-SIMGroup1	8270-Modified	03/13/25	03/17/25	03/17/25	03/14/25

LAB CHRONICLE

Q1582-09	TT119S1-20250313	Water			03/13/25		03/14/25
			SVOC-SIMGroup1	8270-Modified		03/17/25	03/17/25
Q1582-10	RE114D1-20250313	Water			03/13/25		03/14/25
			SVOC-SIMGroup1	8270-Modified		03/17/25	03/18/25
Q1582-11	BPOW1-7-20250314	Water			03/14/25		03/14/25
			SVOC-SIMGroup1	8270-Modified		03/17/25	03/18/25
Q1582-12	BPOW1-8-20250314	Water			03/14/25		03/14/25
			SVOC-SIMGroup1	8270-Modified		03/17/25	03/18/25
Q1582-13	TT191D1-20250314	Water			03/14/25		03/14/25
			SVOC-SIMGroup1	8270-Modified		03/17/25	03/18/25
Q1582-14	TT191D2-20250314	Water			03/14/25		03/14/25
			SVOC-SIMGroup1	8270-Modified		03/17/25	03/18/25
Q1582-15	DUP06-20250314	Water			03/14/25		03/14/25
			SVOC-SIMGroup1	8270-Modified		03/17/25	03/18/25

Hit Summary Sheet SW-846

SDG No.: Q1582

Client: AECOM Technical Services, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	RE117D1-20250313								
Q1582-01	RE117D1-20250313	WATER	1,4-Dioxane	0.740		0.07	0.2	0.2	ug/L
			Total Svoc :			0.74			
			Total Concentration:			0.74			
Client ID :	TT180D1-20250313								
Q1582-02	TT180D1-20250313	WATER	1,4-Dioxane	3.900		0.07	0.21	0.21	ug/L
			Total Svoc :			3.90			
			Total Concentration:			3.90			
Client ID :	TT180D2-20250313								
Q1582-03	TT180D2-20250313	WATER	1,4-Dioxane	5.200	E	0.07	0.2	0.2	ug/L
			Total Svoc :			5.20			
			Total Concentration:			5.20			
Client ID :	TT180D2-20250313DL								
Q1582-03DL	TT180D2-20250313DL	WATER	1,4-Dioxane	5.000	D	0.14	0.4	0.4	ug/L
			Total Svoc :			5.00			
			Total Concentration:			5.00			
Client ID :	TT180D-20250313								
Q1582-04	TT180D-20250313	WATER	1,4-Dioxane	0.200		0.07	0.2	0.2	ug/L
			Total Svoc :			0.20			
			Total Concentration:			0.20			
Client ID :	RE131D1-20250313								
Q1582-06	RE131D1-20250313	WATER	1,4-Dioxane	9.000	E	0.07	0.2	0.2	ug/L
			Total Svoc :			9.00			
			Total Concentration:			9.00			
Client ID :	RE131D1-20250313DL								
Q1582-06DL	RE131D1-20250313DL	WATER	1,4-Dioxane	9.700	D	0.35	1	1	ug/L
			Total Svoc :			9.70			
			Total Concentration:			9.70			
Client ID :	RE131D2-20250313								
Q1582-07	RE131D2-20250313	WATER	1,4-Dioxane	10.700	E	0.07	0.21	0.21	ug/L
			Total Svoc :			10.70			
			Total Concentration:			10.70			
Client ID :	RE131D2-20250313DL								
Q1582-07DL	RE131D2-20250313DL	WATER	1,4-Dioxane	11.600	D	0.36	1.1	1.1	ug/L
			Total Svoc :			11.60			

Hit Summary Sheet
SW-846

SDG No.: Q1582
Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Total Concentration:			11.60					
Client ID :	RE131D3-20250313							
Q1582-08	RE131D3-20250313	WATER	1,4-Dioxane	2.500	0.07	0.2	0.2	ug/L
Total Svoc :			2.50					
Total Concentration:			2.50					
Client ID :	RE114D1-20250313							
Q1582-10	RE114D1-20250313	WATER	1,4-Dioxane	4.000	0.07	0.2	0.2	ug/L
Total Svoc :			4.00					
Total Concentration:			4.00					
Client ID :	TT191D1-20250314							
Q1582-13	TT191D1-20250314	WATER	1,4-Dioxane	2.600	0.07	0.21	0.21	ug/L
Total Svoc :			2.60					
Total Concentration:			2.60					
Client ID :	TT191D2-20250314							
Q1582-14	TT191D2-20250314	WATER	1,4-Dioxane	0.570	0.07	0.2	0.2	ug/L
Total Svoc :			0.57					
Total Concentration:			0.57					



SAMPLE DATA

Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	03/14/25
Client Sample ID:	RE117D1-20250313		SDG No.:	Q1582
Lab Sample ID:	Q1582-01		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
BN036659.D	1	03/17/25 08:48	03/17/25 14:55	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.74		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.33		30 - 150		82%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		106%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		82%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		94%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		58 - 132		113%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1600	7.717				
1146-65-2	Naphthalene-d8	3740	10.498				
15067-26-2	Acenaphthene-d10	2090	14.355				
1517-22-2	Phenanthrene-d10	3760	17.099				
1719-03-5	Chrysene-d12	2670	21.295				
1520-96-3	Perylene-d12	2460	23.546				

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:	03/13/25	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	03/14/25	
Client Sample ID:	TT180D1-20250313		SDG No.:	Q1582	
Lab Sample ID:	Q1582-02		Matrix:	Water	
Analytical Method:	SW8270ESIM		% Solid:	0	
Sample Wt/Vol:	940	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
BN036660.D	1	03/17/25 08:48	03/17/25 15:31	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.90		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		73%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		108%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		72%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		77%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.51		58 - 132		127%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1530	7.717				
1146-65-2	Naphthalene-d8	3720	10.509				
15067-26-2	Acenaphthene-d10	2290	14.355				
1517-22-2	Phenanthrene-d10	4470	17.099				
1719-03-5	Chrysene-d12	2910	21.295				
1520-96-3	Perylene-d12	2390	23.546				

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:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	03/14/25
Client Sample ID:	TT180D2-20250313		SDG No.:	Q1582
Lab Sample ID:	Q1582-03		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
BN036661.D	1	03/17/25 08:48	03/17/25 16:07	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.20	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		69%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		110%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		73%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.27		53 - 106		68%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.51		58 - 132		127%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1480	7.717				
1146-65-2	Naphthalene-d8	3510	10.509				
15067-26-2	Acenaphthene-d10	2180	14.356				
1517-22-2	Phenanthrene-d10	4400	17.099				
1719-03-5	Chrysene-d12	2930	21.295				
1520-96-3	Perylene-d12	2430	23.549				

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:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	TT180D2-20250313DL	SDG No.:	Q1582
Lab Sample ID:	Q1582-03DL	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
BN036679.D	2	03/17/25 08:48	03/18/25 03:40	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.00	D	0.14	0.40	0.40	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.26		30 - 150		64%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		101%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.27		55 - 111		67%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.24		53 - 106		59%	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	1630	7.717				
1146-65-2	Naphthalene-d8	3810	10.509				
15067-26-2	Acenaphthene-d10	2400	14.355				
1517-22-2	Phenanthrene-d10	4730	17.099				
1719-03-5	Chrysene-d12	3080	21.295				
1520-96-3	Perylene-d12	2490	23.545				

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:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	03/14/25
Client Sample ID:	TT180D-20250313		SDG No.:	Q1582
Lab Sample ID:	Q1582-04		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
BN036662.D	1	03/17/25 08:48	03/17/25 16:43	PB167159

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	0.29		30 - 150		72%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		102%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		76%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		83%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		114%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1470	7.717				
1146-65-2	Naphthalene-d8	3490	10.509				
15067-26-2	Acenaphthene-d10	1970	14.355				
1517-22-2	Phenanthrene-d10	3400	17.099				
1719-03-5	Chrysene-d12	2380	21.295				
1520-96-3	Perylene-d12	2180	23.548				

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:	03/13/25	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	03/14/25	
Client Sample ID:	FB02-20250313		SDG No.:	Q1582	
Lab Sample ID:	Q1582-05		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
BN036663.D	1	03/17/25 08:48	03/17/25 17:19	PB167159

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	0.30		30 - 150		75%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		107%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		80%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		83%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.53		58 - 132		132%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1550	7.717				
1146-65-2	Naphthalene-d8	3770	10.509				
15067-26-2	Acenaphthene-d10	2230	14.355				
1517-22-2	Phenanthrene-d10	4300	17.099				
1719-03-5	Chrysene-d12	2710	21.295				
1520-96-3	Perylene-d12	2310	23.548				

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:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	RE131D1-20250313	SDG No.:	Q1582
Lab Sample ID:	Q1582-06	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
BN036664.D	1	03/17/25 08:48	03/17/25 17:55	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	9.00	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.26		30 - 150		66%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		102%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		72%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		78%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		58 - 132		113%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1390	7.717				
1146-65-2	Naphthalene-d8	3220	10.509				
15067-26-2	Acenaphthene-d10	1820	14.356				
1517-22-2	Phenanthrene-d10	3280	17.099				
1719-03-5	Chrysene-d12	2280	21.295				
1520-96-3	Perylene-d12	2090	23.546				

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:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	03/14/25
Client Sample ID:	RE131D1-20250313DL		SDG No.:	Q1582
Lab Sample ID:	Q1582-06DL		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
BN036685.D	5	03/17/25 08:48	03/18/25 10:34	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	9.70	D	0.35	1.00	1.00	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		74%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.46		30 - 150		115%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.28		53 - 106		69%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.64	*	58 - 132		160%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1660		7.717			
1146-65-2	Naphthalene-d8	3780		10.509			
15067-26-2	Acenaphthene-d10	2380		14.355			
1517-22-2	Phenanthrene-d10	4560		17.099			
1719-03-5	Chrysene-d12	3010		21.295			
1520-96-3	Perylene-d12	2750		23.543			

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:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	03/14/25
Client Sample ID:	RE131D2-20250313		SDG No.:	Q1582
Lab Sample ID:	Q1582-07		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
BN036670.D	1	03/17/25 08:48	03/17/25 22:15	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	10.7	E	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.25		30 - 150		62%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		102%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.27		55 - 111		67%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.27		53 - 106		67%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		114%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1740	7.717				
1146-65-2	Naphthalene-d8	4240	10.498				
15067-26-2	Acenaphthene-d10	2510	14.355				
1517-22-2	Phenanthrene-d10	4780	17.099				
1719-03-5	Chrysene-d12	3200	21.295				
1520-96-3	Perylene-d12	2740	23.543				

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:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	03/14/25
Client Sample ID:	RE131D2-20250313DL		SDG No.:	Q1582
Lab Sample ID:	Q1582-07DL		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
BN036686.D	5	03/17/25 08:48	03/18/25 11:10	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	11.6	D	0.36	1.10	1.10	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		69%	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		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		74%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		58 - 132		116%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2030	7.71				
1146-65-2	Naphthalene-d8	4850	10.498				
15067-26-2	Acenaphthene-d10	3030	14.356				
1517-22-2	Phenanthrene-d10	6210	17.099				
1719-03-5	Chrysene-d12	4360	21.286				
1520-96-3	Perylene-d12	3810	23.537				

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:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	03/14/25
Client Sample ID:	RE131D3-20250313		SDG No.:	Q1582
Lab Sample ID:	Q1582-08		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
BN036671.D	1	03/17/25 08:48	03/17/25 22:51	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.50		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		76%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.46		30 - 150		116%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		84%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.55	*	58 - 132		137%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1480	7.717				
1146-65-2	Naphthalene-d8	3710	10.498				
15067-26-2	Acenaphthene-d10	2270	14.355				
1517-22-2	Phenanthrene-d10	4570	17.099				
1719-03-5	Chrysene-d12	3100	21.295				
1520-96-3	Perylene-d12	2530	23.545				

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:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	03/14/25
Client Sample ID:	TT119S1-20250313		SDG No.:	Q1582
Lab Sample ID:	Q1582-09		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
BN036672.D	1	03/17/25 08:48	03/17/25 23:27	PB167159

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	0.29		30 - 150		73%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		110%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		76%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		77%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		123%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1720	7.717				
1146-65-2	Naphthalene-d8	4150	10.498				
15067-26-2	Acenaphthene-d10	2560	14.355				
1517-22-2	Phenanthrene-d10	5110	17.099				
1719-03-5	Chrysene-d12	3480	21.295				
1520-96-3	Perylene-d12	2790	23.545				

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:	03/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	03/14/25
Client Sample ID:	RE114D1-20250313		SDG No.:	Q1582
Lab Sample ID:	Q1582-10		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
BN036673.D	1	03/17/25 08:48	03/18/25 00:03	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.00		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.24		30 - 150		61%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.25		55 - 111		63%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.27		53 - 106		67%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		97%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1660	7.717				
1146-65-2	Naphthalene-d8	4100	10.498				
15067-26-2	Acenaphthene-d10	2450	14.355				
1517-22-2	Phenanthrene-d10	5060	17.099				
1719-03-5	Chrysene-d12	3830	21.295				
1520-96-3	Perylene-d12	3190	23.546				

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:	03/14/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	03/14/25
Client Sample ID:	BPOW1-7-20250314		SDG No.:	Q1582
Lab Sample ID:	Q1582-11		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
BN036674.D	1	03/17/25 08:48	03/18/25 00:39	PB167159

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	0.29		30 - 150		73%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		108%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		70%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.29		53 - 106		74%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.51		58 - 132		127%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1840	7.717				
1146-65-2	Naphthalene-d8	4420	10.498				
15067-26-2	Acenaphthene-d10	2740	14.355				
1517-22-2	Phenanthrene-d10	5300	17.099				
1719-03-5	Chrysene-d12	3400	21.295				
1520-96-3	Perylene-d12	2780	23.54				

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:	03/14/25	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	03/14/25	
Client Sample ID:	BPOW1-8-20250314		SDG No.:	Q1582	
Lab Sample ID:	Q1582-12		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
BN036675.D	1	03/17/25 08:48	03/18/25 01:15	PB167159

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	0.31		30 - 150		76%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		109%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		74%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		81%	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	1650	7.717				
1146-65-2	Naphthalene-d8	4060	10.498				
15067-26-2	Acenaphthene-d10	2500	14.356				
1517-22-2	Phenanthrene-d10	4950	17.099				
1719-03-5	Chrysene-d12	3330	21.295				
1520-96-3	Perylene-d12	2720	23.546				

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:	03/14/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	TT191D1-20250314	SDG No.:	Q1582
Lab Sample ID:	Q1582-13	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
BN036676.D	1	03/17/25 08:48	03/18/25 01:51	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.60		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.25		30 - 150		63%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		107%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		74%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.29		53 - 106		74%	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	1730	7.717				
1146-65-2	Naphthalene-d8	4300	10.498				
15067-26-2	Acenaphthene-d10	2550	14.355				
1517-22-2	Phenanthrene-d10	5080	17.099				
1719-03-5	Chrysene-d12	3520	21.295				
1520-96-3	Perylene-d12	2790	23.546				

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:	03/14/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	03/14/25
Client Sample ID:	TT191D2-20250314	SDG No.:	Q1582
Lab Sample ID:	Q1582-14	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
BN036677.D	1	03/17/25 08:48	03/18/25 02:28	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.57		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.24		30 - 150		60%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		72%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.27		53 - 106		67%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		58 - 132		102%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1800	7.717				
1146-65-2	Naphthalene-d8	4500	10.498				
15067-26-2	Acenaphthene-d10	2730	14.355				
1517-22-2	Phenanthrene-d10	5580	17.099				
1719-03-5	Chrysene-d12	3990	21.294				
1520-96-3	Perylene-d12	3140	23.539				

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:	03/14/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	03/14/25
Client Sample ID:	DUP06-20250314		SDG No.:	Q1582
Lab Sample ID:	Q1582-15		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
BN036678.D	1	03/17/25 08:48	03/18/25 03:04	PB167159

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	0.24		30 - 150		60%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		105%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		72%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.27		53 - 106		68%	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	1970	7.717				
1146-65-2	Naphthalene-d8	4650	10.509				
15067-26-2	Acenaphthene-d10	2790	14.356				
1517-22-2	Phenanthrene-d10	5580	17.099				
1719-03-5	Chrysene-d12	3550	21.295				
1520-96-3	Perylene-d12	2800	23.546				

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.: Q1582

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB167159BL	PB167159BL	2-Methylnaphthalene-d10	0.4	0.35	86		30	150
		Fluoranthene-d10	0.4	0.42	105		30	150
		Nitrobenzene-d5	0.4	0.36	91		55	111
		2-Fluorobiphenyl	0.4	0.25	63		53	106
		Terphenyl-d14	0.4	0.43	107		58	132
PB167159BS	PB167159BS	2-Methylnaphthalene-d10	0.4	0.43	108		30	150
		Fluoranthene-d10	0.4	0.34	85		30	150
		Nitrobenzene-d5	0.4	0.37	92		55	111
		2-Fluorobiphenyl	0.4	0.41	103		53	106
		Terphenyl-d14	0.4	0.41	102		58	132
PB167159BSD	PB167159BSD	2-Methylnaphthalene-d10	0.4	0.40	99		30	150
		Fluoranthene-d10	0.4	0.38	94		30	150
		Nitrobenzene-d5	0.4	0.38	94		55	111
		2-Fluorobiphenyl	0.4	0.43	108	*	53	106
		Terphenyl-d14	0.4	0.43	107		58	132
Q1582-01	RE117D1-20250313	2-Methylnaphthalene-d10	0.4	0.33	82		30	150
		Fluoranthene-d10	0.4	0.43	106		30	150
		Nitrobenzene-d5	0.4	0.33	82		55	111
		2-Fluorobiphenyl	0.4	0.38	94		53	106
		Terphenyl-d14	0.4	0.45	113		58	132
Q1582-02	TT180D1-20250313	2-Methylnaphthalene-d10	0.4	0.29	73		30	150
		Fluoranthene-d10	0.4	0.43	108		30	150
		Nitrobenzene-d5	0.4	0.29	72		55	111
		2-Fluorobiphenyl	0.4	0.31	77		53	106
		Terphenyl-d14	0.4	0.51	127		58	132
Q1582-03	TT180D2-20250313	2-Methylnaphthalene-d10	0.4	0.28	69		30	150
		Fluoranthene-d10	0.4	0.44	110		30	150
		Nitrobenzene-d5	0.4	0.29	73		55	111
		2-Fluorobiphenyl	0.4	0.27	68		53	106
		Terphenyl-d14	0.4	0.51	127		58	132
Q1582-03DL	TT180D2-20250313DL	2-Methylnaphthalene-d10	0.4	0.26	64		30	150
		Fluoranthene-d10	0.4	0.41	101		30	150
		Nitrobenzene-d5	0.4	0.27	67		55	111
		2-Fluorobiphenyl	0.4	0.24	59		53	106
		Terphenyl-d14	0.4	0.47	118		58	132
Q1582-04	TT180D-20250313	2-Methylnaphthalene-d10	0.4	0.29	72		30	150
		Fluoranthene-d10	0.4	0.41	102		30	150
		Nitrobenzene-d5	0.4	0.31	76		55	111
		2-Fluorobiphenyl	0.4	0.33	83		53	106
		Terphenyl-d14	0.4	0.46	114		58	132
Q1582-05	FB02-20250313	2-Methylnaphthalene-d10	0.4	0.30	75		30	150
		Fluoranthene-d10	0.4	0.43	107		30	150
		Nitrobenzene-d5	0.4	0.32	80		55	111
		2-Fluorobiphenyl	0.4	0.33	83		53	106
		Terphenyl-d14	0.4	0.53	132		58	132
Q1582-06	RE131D1-20250313	2-Methylnaphthalene-d10	0.4	0.26	66		30	150
		Fluoranthene-d10	0.4	0.41	102		30	150
		Nitrobenzene-d5	0.4	0.29	72		55	111
		2-Fluorobiphenyl	0.4	0.31	78		53	106
		Terphenyl-d14	0.4	0.45	113		58	132
Q1582-06DL	RE131D1-20250313DL	2-Methylnaphthalene-d10	0.4	0.30	74		30	150

Surrogate Summary

SW-846

SDG No.: Q1582

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
Q1582-06DL	RE131D1-20250313DL	Fluoranthene-d10	0.4	0.46	115		30	150
		Nitrobenzene-d5	0.4	0.32	79		55	111
		2-Fluorobiphenyl	0.4	0.28	69		53	106
		Terphenyl-d14	0.4	0.64	160	*	58	132
Q1582-07	RE131D2-20250313	2-Methylnaphthalene-d10	0.4	0.25	62		30	150
		Fluoranthene-d10	0.4	0.41	102		30	150
		Nitrobenzene-d5	0.4	0.27	67		55	111
		2-Fluorobiphenyl	0.4	0.27	67		53	106
Q1582-07DL	RE131D2-20250313DL	Terphenyl-d14	0.4	0.46	114		58	132
		2-Methylnaphthalene-d10	0.4	0.28	69		30	150
		Fluoranthene-d10	0.4	0.45	111		30	150
		Nitrobenzene-d5	0.4	0.32	79		55	111
Q1582-08	RE131D3-20250313	2-Fluorobiphenyl	0.4	0.30	74		53	106
		Terphenyl-d14	0.4	0.47	116		58	132
		2-Methylnaphthalene-d10	0.4	0.31	76		30	150
		Fluoranthene-d10	0.4	0.46	116		30	150
Q1582-09	TT119S1-20250313	Nitrobenzene-d5	0.4	0.32	81		55	111
		2-Fluorobiphenyl	0.4	0.34	84		53	106
		Terphenyl-d14	0.4	0.55	137	*	58	132
		2-Methylnaphthalene-d10	0.4	0.29	73		30	150
Q1582-10	RE114D1-20250313	Fluoranthene-d10	0.4	0.44	110		30	150
		Nitrobenzene-d5	0.4	0.30	76		55	111
		2-Fluorobiphenyl	0.4	0.31	77		53	106
		Terphenyl-d14	0.4	0.49	123		58	132
Q1582-11	BPOW1-7-20250314	2-Methylnaphthalene-d10	0.4	0.24	61		30	150
		Fluoranthene-d10	0.4	0.38	94		30	150
		Nitrobenzene-d5	0.4	0.25	63		55	111
		2-Fluorobiphenyl	0.4	0.27	67		53	106
Q1582-12	BPOW1-8-20250314	Terphenyl-d14	0.4	0.39	97		58	132
		2-Methylnaphthalene-d10	0.4	0.29	73		30	150
		Fluoranthene-d10	0.4	0.43	108		30	150
		Nitrobenzene-d5	0.4	0.28	70		55	111
Q1582-13	TT191D1-20250314	2-Fluorobiphenyl	0.4	0.29	74		53	106
		Terphenyl-d14	0.4	0.51	127		58	132
		2-Methylnaphthalene-d10	0.4	0.31	76		30	150
		Fluoranthene-d10	0.4	0.44	109		30	150
Q1582-14	TT191D2-20250314	Nitrobenzene-d5	0.4	0.30	74		55	111
		2-Fluorobiphenyl	0.4	0.33	81		53	106
		Terphenyl-d14	0.4	0.50	124		58	132
		2-Methylnaphthalene-d10	0.4	0.25	63		30	150
Q1582-15	DUP06-20250314	Fluoranthene-d10	0.4	0.43	107		30	150
		Nitrobenzene-d5	0.4	0.30	74		55	111
		2-Fluorobiphenyl	0.4	0.29	74		53	106
		Terphenyl-d14	0.4	0.46	115		58	132
Q1582-15	DUP06-20250314	2-Methylnaphthalene-d10	0.4	0.24	60		30	150
		Fluoranthene-d10	0.4	0.40	100		30	150
		Nitrobenzene-d5	0.4	0.29	72		55	111
		2-Fluorobiphenyl	0.4	0.27	67		53	106
Q1582-15	DUP06-20250314	Terphenyl-d14	0.4	0.41	102		58	132
		2-Methylnaphthalene-d10	0.4	0.24	60		30	150
Q1582-15	DUP06-20250314	Fluoranthene-d10	0.4	0.42	105		30	150

Surrogate Summary

SW-846

SDG No.: Q1582

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
Q1582-15	DUP06-20250314	Nitrobenzene-d5	0.4	0.29	72		55	111
		2-Fluorobiphenyl	0.4	0.27	68		53	106
		Terphenyl-d14	0.4	0.49	122		58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1582

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified **DataFile:** BN036665.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB167159BS	1,4-Dioxane	0.4	0.37	ug/L	93				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1582

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified **DataFile:** BN036680.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB167159BSD	1,4-Dioxane	0.4	0.38	ug/L	95	3			70	130	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167159BL

Lab Name: CHEMTECH

Contract: AECO15

Lab Code: CHEM Case No.: Q1582

SAS No.: Q1582 SDG NO.: Q1582

Lab File ID: BN036684.D

Lab Sample ID: PB167159BL

Instrument ID: BNA_N

Date Extracted: 03/17/2025

Matrix: (soil/water) Water

Date Analyzed: 03/18/2025

Level: (low/med) LOW

Time Analyzed: 09:57

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167159BS	PB167159BS	BN036665.D	03/17/2025
PB167159BSD	PB167159BSD	BN036680.D	03/18/2025
RE117D1-20250313	Q1582-01	BN036659.D	03/17/2025
TT180D1-20250313	Q1582-02	BN036660.D	03/17/2025
TT180D2-20250313	Q1582-03	BN036661.D	03/17/2025
TT180D-20250313	Q1582-04	BN036662.D	03/17/2025
FB02-20250313	Q1582-05	BN036663.D	03/17/2025
RE131D1-20250313	Q1582-06	BN036664.D	03/17/2025
RE131D2-20250313	Q1582-07	BN036670.D	03/17/2025
RE131D3-20250313	Q1582-08	BN036671.D	03/17/2025
TT119S1-20250313	Q1582-09	BN036672.D	03/17/2025
RE114D1-20250313	Q1582-10	BN036673.D	03/18/2025
BPOW1-7-20250314	Q1582-11	BN036674.D	03/18/2025
BPOW1-8-20250314	Q1582-12	BN036675.D	03/18/2025
TT191D1-20250314	Q1582-13	BN036676.D	03/18/2025
TT191D2-20250314	Q1582-14	BN036677.D	03/18/2025
DUP06-20250314	Q1582-15	BN036678.D	03/18/2025

COMMENTS: _____

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: AECO15

Lab Code: CHEM

SAS No.: Q1582 SDG NO.: Q1582

Lab File ID: BN036556.D

DFTPP Injection Date: 03/10/2025

Instrument ID: BNA_N

DFTPP Injection Time: 11:03

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	58.6
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	52.3
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	50.7
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	6.9
275	10.0 - 60.0% of mass 198	24.8
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	9.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.9 (19.6) 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	BN036557.D	03/10/2025	11:42
SSTDICC0.2	SSTDICC0.2	BN036558.D	03/10/2025	12:18
SSTDICCC0.4	SSTDICCC0.4	BN036559.D	03/10/2025	12:54
SSTDICC0.8	SSTDICC0.8	BN036560.D	03/10/2025	13:31
SSTDICC1.6	SSTDICC1.6	BN036561.D	03/10/2025	14:07
SSTDICC3.2	SSTDICC3.2	BN036562.D	03/10/2025	14:43
SSTDICC5.0	SSTDICC5.0	BN036563.D	03/10/2025	15:19

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: AECO15

Lab Code: CHEM

SAS No.: Q1582

SDG NO.: Q1582

Lab File ID: BN036650.D

DFTPP Injection Date: 03/17/2025

Instrument ID: BNA_N

DFTPP Injection Time: 09:10

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	71.6
68	Less than 2.0% of mass 69	0.9 (1.5) 1
69	Mass 69 relative abundance	60.1
70	Less than 2.0% of mass 69	0.4 (0.6) 1
127	10.0 - 80.0% of mass 198	55
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	7.2
275	10.0 - 60.0% of mass 198	24.7
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	8.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.3 (21.3) 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	BN036651.D	03/17/2025	09:49
RE117D1-20250313	Q1582-01	BN036659.D	03/17/2025	14:55
TT180D1-20250313	Q1582-02	BN036660.D	03/17/2025	15:31
TT180D2-20250313	Q1582-03	BN036661.D	03/17/2025	16:07
TT180D-20250313	Q1582-04	BN036662.D	03/17/2025	16:43
FB02-20250313	Q1582-05	BN036663.D	03/17/2025	17:19
RE131D1-20250313	Q1582-06	BN036664.D	03/17/2025	17:55
PB167159BS	PB167159BS	BN036665.D	03/17/2025	18:31
SSTDCCC0.4EC	SSTDCCC0.4	BN036666.D	03/17/2025	19:08

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: AECO15

Lab Code: CHEM

SAS No.: Q1582

SDG NO.: Q1582

Lab File ID: BN036667.D

DFTPP Injection Date: 03/17/2025

Instrument ID: BNA_N

DFTPP Injection Time: 20:23

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	76.1
68	Less than 2.0% of mass 69	0.4 (0.7) 1
69	Mass 69 relative abundance	62.3
70	Less than 2.0% of mass 69	0.2 (0.3) 1
127	10.0 - 80.0% of mass 198	55.2
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	6.8
275	10.0 - 60.0% of mass 198	24.6
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	8.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.5 (20.8) 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	BN036668.D	03/17/2025	21:02
RE131D2-20250313	Q1582-07	BN036670.D	03/17/2025	22:15
RE131D3-20250313	Q1582-08	BN036671.D	03/17/2025	22:51
TT119S1-20250313	Q1582-09	BN036672.D	03/17/2025	23:27
RE114D1-20250313	Q1582-10	BN036673.D	03/18/2025	00:03
BPOW1-7-20250314	Q1582-11	BN036674.D	03/18/2025	00:39
BPOW1-8-20250314	Q1582-12	BN036675.D	03/18/2025	01:15
TT191D1-20250314	Q1582-13	BN036676.D	03/18/2025	01:51
TT191D2-20250314	Q1582-14	BN036677.D	03/18/2025	02:28
DUP06-20250314	Q1582-15	BN036678.D	03/18/2025	03:04
TT180D2-20250313DL	Q1582-03DL	BN036679.D	03/18/2025	03:40
PB167159BSD	PB167159BSD	BN036680.D	03/18/2025	04:16
SSTDCCC0.4EC	SSTDCCC0.4	BN036681.D	03/18/2025	04:52

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: AECO15

Lab Code: CHEM

SAS No.: Q1582

SDG NO.: Q1582

Lab File ID: BN036682.D

DFTPP Injection Date: 03/18/2025

Instrument ID: BNA_N

DFTPP Injection Time: 08:42

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	69.5
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	58.3
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	53.4
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
275	10.0 - 60.0% of mass 198	23.7
365	Greater than 1% of mass 198	4.2
441	Present, but less than mass 443	9.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.3 (18.7) 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	BN036683.D	03/18/2025	09:21
PB167159BL	PB167159BL	BN036684.D	03/18/2025	09:57
RE131D1-20250313DL	Q1582-06DL	BN036685.D	03/18/2025	10:34
RE131D2-20250313DL	Q1582-07DL	BN036686.D	03/18/2025	11:10
SSTDCCC0.4EC	SSTDCCC0.4	BN036687.D	03/18/2025	12:35

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1582 SAS No.: Q1582 SDG NO.: Q1582

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/17/2025

Lab File ID: BN036651.D Time Analyzed: 09:49

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	2063	7.717	5025	10.50	2968	14.36
UPPER LIMIT	4126	8.217	10050	10.998	5936	14.856
LOWER LIMIT	1031.5	7.217	2512.5	9.998	1484	13.856
EPA SAMPLE NO.						
01 RE117D1-20250313	1599	7.72	3736	10.50	2090	14.36
02 TT180D1-20250313	1526	7.72	3719	10.51	2286	14.36
03 TT180D2-20250313	1480	7.72	3511	10.51	2177	14.36
04 TT180D-20250313	1471	7.72	3486	10.51	1974	14.36
05 FB02-20250313	1550	7.72	3768	10.51	2232	14.36
06 RE131D1-20250313	1388	7.72	3220	10.51	1815	14.36
07 PB167159BS	1650	7.72	3863	10.50	1951	14.36

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.: Q1582 SAS No.: Q1582 SDG NO.: Q1582

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/17/2025

Lab File ID: BN036651.D Time Analyzed: 09:49

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	5703	17.099	3893	21.295	3363	23.546
UPPER LIMIT	11406	17.599	7786	21.795	6726	24.046
LOWER LIMIT	2851.5	16.599	1946.5	20.795	1681.5	23.046
EPA SAMPLE NO.						
01 RE117D1-20250313	3762	17.10	2674	21.30	2457	23.55
02 TT180D1-20250313	4473	17.10	2911	21.30	2391	23.55
03 TT180D2-20250313	4400	17.10	2930	21.30	2432	23.55
04 TT180D-20250313	3397	17.10	2382	21.30	2179	23.55
05 FB02-20250313	4299	17.10	2706	21.30	2307	23.55
06 RE131D1-20250313	3277	17.10	2281	21.30	2088	23.55
07 PB167159BS	3290	17.10	1972	21.30	1878	23.55

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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1582 SAS No.: Q1582 SDG NO.: Q1582

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/17/2025

Lab File ID: BN036668.D Time Analyzed: 21:02

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	1326	7.717	3375	10.50	1969	14.36
UPPER LIMIT	2652	8.217	6750	10.998	3938	14.856
LOWER LIMIT	663	7.217	1687.5	9.998	984.5	13.856
EPA SAMPLE NO.						
01 TT119S1-20250313	1721	7.72	4150	10.50	2557	14.36
02 RE114D1-20250313	1655	7.72	4102	10.50	2453	14.36
03 TT180D2-20250313DL	1626	7.72	3810	10.51	2398	14.36
04 BPOW1-7-20250314	1843	7.72	4422	10.50	2743	14.36
05 BPOW1-8-20250314	1645	7.72	4058	10.50	2499	14.36
06 TT191D1-20250314	1725	7.72	4299	10.50	2552	14.36
07 TT191D2-20250314	1797	7.72	4496	10.50	2727	14.36
08 DUP06-20250314	1973	7.72	4653	10.51	2790	14.36
09 PB167159BSD	1799	7.72	4271	10.50	2251	14.36
10 RE131D2-20250313	1739	7.72	4240	10.50	2511	14.36
11 RE131D3-20250313	1476	7.72	3714	10.50	2273	14.36

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.: Q1582 SAS No.: Q1582 SDG NO.: Q1582

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/17/2025

Lab File ID: BN036668.D Time Analyzed: 21:02

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	3924	17.099	2929	21.295	2659	23.543
	UPPER LIMIT	7848	17.599	5858	21.795	5318	24.043
	LOWER LIMIT	1962	16.599	1464.5	20.795	1329.5	23.043
	EPA SAMPLE NO.						
01	TT119S1-20250313	5105	17.10	3477	21.30	2786	23.55
02	RE114D1-20250313	5059	17.10	3831	21.30	3185	23.55
03	TT180D2-20250313DL	4730	17.10	3082	21.30	2493	23.55
04	BPOW1-7-20250314	5303	17.10	3399	21.30	2777	23.54
05	BPOW1-8-20250314	4951	17.10	3334	21.30	2721	23.55
06	TT191D1-20250314	5075	17.10	3524	21.30	2792	23.55
07	TT191D2-20250314	5582	17.10	3987	21.29	3141	23.54
08	DUP06-20250314	5581	17.10	3549	21.30	2795	23.55
09	PB167159BSD	4157	17.10	2623	21.30	2261	23.54
10	RE131D2-20250313	4784	17.10	3199	21.30	2740	23.54
11	RE131D3-20250313	4572	17.10	3100	21.30	2528	23.55

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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1582 SAS No.: Q1582 SDG NO.: Q1582

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/18/2025

Lab File ID: BN036683.D Time Analyzed: 09:21

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	1819	7.71	4524	10.50	2641	14.36
UPPER LIMIT	3638	8.21	9048	10.998	5282	14.855
LOWER LIMIT	909.5	7.21	2262	9.998	1320.5	13.855
EPA SAMPLE NO.						
01 PB167159BL	1698	7.72	3698	10.52	2056	14.37
02 RE131D1-20250313DL	1658	7.72	3783	10.51	2382	14.36
03 RE131D2-20250313DL	2029	7.71	4853	10.50	3032	14.36

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.: Q1582 SAS No.: Q1582 SDG NO.: Q1582

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/18/2025

Lab File ID: BN036683.D Time Analyzed: 09:21

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	5270	17.099	3871	21.286	3319	23.537
UPPER LIMIT	10540	17.599	7742	21.786	6638	24.037
LOWER LIMIT	2635	16.599	1935.5	20.786	1659.5	23.037
EPA SAMPLE NO.						
01 PB167159BL	3776	17.12	2642	21.30	2442	23.55
02 RE131D1-20250313DL	4560	17.10	3005	21.30	2748	23.54
03 RE131D2-20250313DL	6208	17.10	4364	21.29	3806	23.54

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:	PB167159BL		SDG No.:	Q1582
Lab Sample ID:	PB167159BL		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
BN036684.D	1	03/17/25 08:48	03/18/25 09:57	PB167159

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	0.35		30 - 150		86%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		105%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		91%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.25		53 - 106		63%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.43		58 - 132		107%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1700	7.717				
1146-65-2	Naphthalene-d8	3700	10.52				
15067-26-2	Acenaphthene-d10	2060	14.366				
1517-22-2	Phenanthrene-d10	3780	17.124				
1719-03-5	Chrysene-d12	2640	21.304				
1520-96-3	Perylene-d12	2440	23.549				

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:	PB167159BS		SDG No.:	Q1582
Lab Sample ID:	PB167159BS		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
BN036665.D	1	03/17/25 08:48	03/17/25 18:31	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.37		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.43		30 - 150		108%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		85%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		92%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.41		53 - 106		103%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		58 - 132		102%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1650	7.717				
1146-65-2	Naphthalene-d8	3860	10.498				
15067-26-2	Acenaphthene-d10	1950	14.356				
1517-22-2	Phenanthrene-d10	3290	17.099				
1719-03-5	Chrysene-d12	1970	21.295				
1520-96-3	Perylene-d12	1880	23.552				

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:	PB167159BSD		SDG No.:	Q1582
Lab Sample ID:	PB167159BSD		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
BN036680.D	1	03/17/25 08:48	03/18/25 04:16	PB167159

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.38		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.40		30 - 150		99%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		94%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.43	*	53 - 106		108%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.43		58 - 132		107%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1800	7.717				
1146-65-2	Naphthalene-d8	4270	10.498				
15067-26-2	Acenaphthene-d10	2250	14.355				
1517-22-2	Phenanthrene-d10	4160	17.099				
1719-03-5	Chrysene-d12	2620	21.295				
1520-96-3	Perylene-d12	2260	23.543				

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-BN031025.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Mon Mar 10 16:06:28 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN036557.D 0.2 =BN036558.D 0.4 =BN036559.D 0.8 =BN036560.D 1.6 =BN036561.D 3.2 =BN036562.D 5.0 =BN036563.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	0.434	0.439	0.498	0.451	0.440	0.445	0.399	0.444	6.60
3)	n-Nitrosodimet...	1.112	0.874	0.935	0.841	0.850	0.883	0.789	0.898	11.64
4) S	2-Fluorophenol	0.931	0.908	0.987	0.878	0.914	0.996	0.911	0.932	4.67
5) S	Phenol-d6	1.243	1.057	1.128	1.067	1.133	1.254	1.180	1.152	6.79
6)	bis(2-Chloroet...	1.426	1.150	1.183	1.129	1.132	1.210	1.104	1.190	9.22
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.572	0.396	0.415	0.401	0.402	0.450	0.411	0.435	14.47
9)	Naphthalene	1.371	1.125	1.206	1.111	1.108	1.222	1.094	1.177	8.45
10)	Hexachlorobuta...	0.296	0.283	0.294	0.267	0.261	0.286	0.251	0.277	6.24
11) SURR	2-Methylnaphth...	0.656	0.549	0.606	0.562	0.577	0.633	0.581	0.595	6.55
12)	2-Methylnaphth...	0.810	0.696	0.765	0.703	0.734	0.802	0.731	0.749	6.03
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.181	0.160	0.187	0.169	0.188	0.197	0.188	0.182	7.04
15) S	2-Fluorobiphenyl	2.208	1.982	2.398	2.350	2.364	2.566	2.419	2.327	7.96
16)	Acenaphthylene	1.882	1.756	1.938	1.794	1.834	2.074	1.935	1.888	5.66
17)	Acenaphthene	1.257	1.159	1.281	1.171	1.199	1.339	1.243	1.236	5.17
18)	Fluorene	1.629	1.600	1.764	1.609	1.670	1.778	1.650	1.672	4.32
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.057	0.077	0.075	0.088	0.110	0.111	0.086		24.66
21)	4-Bromophenyl-...	0.243	0.227	0.274	0.238	0.241	0.278	0.253	0.251	7.53
22)	Hexachlorobenzene	0.306	0.288	0.336	0.295	0.283	0.322	0.289	0.303	6.58
23)	Atrazine	0.193	0.191	0.213	0.192	0.200	0.216	0.200	0.201	5.08
24)	Pentachlorophenol	0.140	0.116	0.137	0.122	0.135	0.161	0.155	0.138	11.76
25)	Phenanthrene	1.190	1.111	1.297	1.141	1.165	1.300	1.195	1.200	6.09
26)	Anthracene	1.026	0.971	1.147	1.033	1.075	1.215	1.112	1.083	7.60
27) SURR	Fluoranthene-d10	1.037	0.955	1.116	0.956	1.025	1.087	1.000	1.025	5.98
28)	Fluoranthene	1.341	1.243	1.452	1.272	1.364	1.447	1.316	1.348	5.95
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.945	2.005	2.131	1.910	1.870	1.992	1.837	1.956	5.04
31) S	Terphenyl-d14	0.962	0.965	1.028	0.924	0.915	0.987	0.926	0.958	4.23
32)	Benzo(a)anthra...	1.389	1.315	1.437	1.304	1.347	1.528	1.415	1.391	5.63
33)	Chrysene	1.486	1.509	1.610	1.507	1.462	1.616	1.448	1.520	4.44
34)	Bis(2-ethylhex...	1.196	1.100	1.044	0.865	0.946	0.912	0.870	0.990	12.74
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN031025.M

36)	Indeno(1,2,3-c...	1.160	1.316	1.546	1.404	1.417	1.693	1.571	1.444	12.27
37)	Benzo(b)fluora...	1.311	1.360	1.547	1.402	1.477	1.595	1.498	1.456	7.04
38)	Benzo(k)fluora...	1.504	1.397	1.620	1.481	1.521	1.635	1.534	1.527	5.34
39) C	Benzo(a)pyrene	1.090	1.152	1.303	1.195	1.223	1.350	1.268	1.226	7.29
40)	Dibenzo(a,h)an...	0.893	0.981	1.163	1.126	1.102	1.351	1.252	1.124	13.76
41)	Benzo(g,h,i)pe...	1.138	1.213	1.382	1.250	1.233	1.449	1.334	1.286	8.36

(#) = Out of Range

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q1582 SAS No.: Q1582 SDG No.: Q1582

Instrument ID: BNA_N Calibration Date/Time: 03/17/2025 09:49

Lab File ID: BN036651.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.593		-0.3	20.0
Fluoranthene-d10	1.025	1.098		7.1	20.0
2-Fluorophenol	0.932	0.906		-2.8	20.0
Phenol-d6	1.152	1.101		-4.4	20.0
Nitrobenzene-d5	0.435	0.424		-2.5	20.0
2-Fluorobiphenyl	2.327	2.428		4.3	20.0
2,4,6-Tribromophenol	0.182	0.165		-9.3	20.0
Terphenyl-d14	0.958	1.008		5.2	20.0
1,4-Dioxane	0.444	0.497		11.9	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.: Q1582 SAS No.: Q1582 SDG No.: Q1582
 Instrument ID: BNA_N Calibration Date/Time: 03/17/2025 19:08
 Lab File ID: BN036666.D Init. Calib. Date(s): 03/10/2025 03/10/2025
 EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 11:42 15:19
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.595		0.0	50.0
Fluoranthene-d10	1.025	1.103		7.6	50.0
2-Fluorophenol	0.932	0.954		2.4	50.0
Phenol-d6	1.152	1.135		-1.5	50.0
Nitrobenzene-d5	0.435	0.398		-8.5	50.0
2-Fluorobiphenyl	2.327	2.343		0.7	50.0
2,4,6-Tribromophenol	0.182	0.187		2.7	50.0
Terphenyl-d14	0.958	0.991		3.4	50.0
1,4-Dioxane	0.444	0.534		20.3	50.0

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.: Q1582 SAS No.: Q1582 SDG No.: Q1582

Instrument ID: BNA_N Calibration Date/Time: 03/17/2025 21:02

Lab File ID: BN036668.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.600		0.8	20.0
Fluoranthene-d10	1.025	1.125		9.8	20.0
2-Fluorophenol	0.932	0.932		0.0	20.0
Phenol-d6	1.152	1.154		0.2	20.0
Nitrobenzene-d5	0.435	0.426		-2.1	20.0
2-Fluorobiphenyl	2.327	2.408		3.5	20.0
2,4,6-Tribromophenol	0.182	0.192		5.5	20.0
Terphenyl-d14	0.958	0.968		1.0	20.0
1,4-Dioxane	0.444	0.488		9.9	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.: Q1582 SAS No.: Q1582 SDG No.: Q1582

Instrument ID: BNA_N Calibration Date/Time: 03/18/2025 04:52

Lab File ID: BN036681.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.521		-12.4	50.0
Fluoranthene-d10	1.025	0.920		-10.2	50.0
2-Fluorophenol	0.932	0.847		-9.1	50.0
Phenol-d6	1.152	0.989		-14.1	50.0
Nitrobenzene-d5	0.435	0.371		-14.7	50.0
2-Fluorobiphenyl	2.327	2.156		-7.3	50.0
2,4,6-Tribromophenol	0.182	0.158		-13.2	50.0
Terphenyl-d14	0.958	0.864		-9.8	50.0
1,4-Dioxane	0.444	0.465		4.7	50.0

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.: Q1582 SAS No.: Q1582 SDG No.: Q1582

Instrument ID: BNA_N Calibration Date/Time: 03/18/2025 09:21

Lab File ID: BN036683.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.523		-12.1	20.0
Fluoranthene-d10	1.025	0.969		-5.5	20.0
2-Fluorophenol	0.932	0.812		-12.9	20.0
Phenol-d6	1.152	1.004		-12.8	20.0
Nitrobenzene-d5	0.435	0.380		-12.6	20.0
2-Fluorobiphenyl	2.327	2.136		-8.2	20.0
2,4,6-Tribromophenol	0.182	0.172		-5.5	20.0
Terphenyl-d14	0.958	0.834		-12.9	20.0
1,4-Dioxane	0.444	0.465		4.7	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.: Q1582 SAS No.: Q1582 SDG No.: Q1582

Instrument ID: BNA_N Calibration Date/Time: 03/18/2025 12:35

Lab File ID: BN036687.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.532		-10.6	50.0
Fluoranthene-d10	1.025	0.964		-6.0	50.0
2-Fluorophenol	0.932	0.829		-11.1	50.0
Phenol-d6	1.152	1.015		-11.9	50.0
Nitrobenzene-d5	0.435	0.372		-14.5	50.0
2-Fluorobiphenyl	2.327	2.097		-9.9	50.0
2,4,6-Tribromophenol	0.182	0.166		-8.8	50.0
Terphenyl-d14	0.958	0.858		-10.4	50.0
1,4-Dioxane	0.444	0.434		-2.3	50.0

All other compounds must meet a minimum RRF of 0.010.