

LAB CHRONICLE

OrderID:	Q2251	OrderDate:	6/5/2025 4:31:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	L31,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2251-03	BP-VPB-182-GW-760-762	Water			06/03/25			06/05/25
			SVOC-SIMGroup1	8270-Modified		06/06/25	06/09/25	
Q2251-05	BP-VPB-182-EB-20250604	Water			06/04/25			06/05/25
			SVOC-SIMGroup1	8270-Modified		06/06/25	06/09/25	
Q2251-06	VPB182-HYD-20250605	Water			06/05/25			06/05/25
			SVOC-SIMGroup1	8270-Modified		06/06/25	06/09/25	



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

Hit Summary Sheet
SW-846

SDG No.: Q2251
Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : BP-VPB-182-EB-20250604								
Q2251-05	BP-VPB-182-EB-202506	WATER 1,4-Dioxane	2.500		0.08	0.23	0.23	ug/L
Total Svoc :				2.50				
Total Concentration:				2.50				



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	06/03/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	06/05/25
Client Sample ID:	BP-VPB-182-GW-760-762	SDG No.:	Q2251
Lab Sample ID:	Q2251-03	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	850 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
BN037194.D	1	06/06/25 11:54	06/09/25 16:26	PB168336

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.24	U	0.080	0.24	0.24	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		88%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		94%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.42		53 - 106		105%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.64	*	58 - 132		161%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2000	7.589				
1146-65-2	Naphthalene-d8	5090	10.372				
15067-26-2	Acenaphthene-d10	2680	14.235				
1517-22-2	Phenanthrene-d10	4800	16.984				
1719-03-5	Chrysene-d12	3020	21.189				
1520-96-3	Perylene-d12	2810	23.38				

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:	Tetra Tech NUS, Inc.	Date Collected:	06/04/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	06/05/25
Client Sample ID:	BP-VPB-182-EB-20250604	SDG No.:	Q2251
Lab Sample ID:	Q2251-05	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	870 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
BN037195.D	1	06/06/25 11:54	06/09/25 17:02	PB168336

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.50		0.080	0.23	0.23	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		76%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		88%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		78%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		82%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.44		58 - 132		109%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2000	7.59				
1146-65-2	Naphthalene-d8	5200	10.362				
15067-26-2	Acenaphthene-d10	2690	14.235				
1517-22-2	Phenanthrene-d10	4840	16.984				
1719-03-5	Chrysene-d12	3060	21.189				
1520-96-3	Perylene-d12	1310	23.38				

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:	Tetra Tech NUS, Inc.	Date Collected:	06/05/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	06/05/25
Client Sample ID:	VPB182-HYD-20250605	SDG No.:	Q2251
Lab Sample ID:	Q2251-06	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	890 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
BN037196.D	1	06/06/25 11:54	06/09/25 17:39	PB168336

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.22	U	0.070	0.22	0.22	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.011	*	30 - 150		3%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.30		30 - 150		74%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		93%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		100%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		58 - 132		112%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1770	7.589				
1146-65-2	Naphthalene-d8	4440	10.372				
15067-26-2	Acenaphthene-d10	2270	14.235				
1517-22-2	Phenanthrene-d10	3800	16.984				
1719-03-5	Chrysene-d12	2630	21.189				
1520-96-3	Perylene-d12	2440	23.377				

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.: Q2251

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB168336BL	PB168336BL	2-Methylnaphthalene-d10	0.4	0.36	91		30	150
		Fluoranthene-d10	0.4	0.40	99		30	150
		Nitrobenzene-d5	0.4	0.37	92		55	111
		2-Fluorobiphenyl	0.4	0.40	101		53	106
		Terphenyl-d14	0.4	0.42	105		58	132
PB168336BS	PB168336BS	2-Methylnaphthalene-d10	0.4	0.36	90		30	150
		Fluoranthene-d10	0.4	0.30	76		30	150
		Nitrobenzene-d5	0.4	0.36	90		55	111
		2-Fluorobiphenyl	0.4	0.38	95		53	106
		Terphenyl-d14	0.4	0.38	95		58	132
Q2250-02MS	MW-11A-13.5-060525MS	2-Methylnaphthalene-d10	0.4	0.30	75		30	150
		Fluoranthene-d10	0.4	0.37	92		30	150
		Nitrobenzene-d5	0.4	0.32	79		55	111
		2-Fluorobiphenyl	0.4	0.34	86		53	106
		Terphenyl-d14	0.4	0.47	118		58	132
Q2250-03MSD	MW-11A-13.5-060525MSD	2-Methylnaphthalene-d10	0.4	0.30	75		30	150
		Fluoranthene-d10	0.4	0.37	91		30	150
		Nitrobenzene-d5	0.4	0.32	79		55	111
		2-Fluorobiphenyl	0.4	0.35	86		53	106
		Terphenyl-d14	0.4	0.45	113		58	132
Q2251-03	BP-VPB-182-GW-760-762	2-Methylnaphthalene-d10	0.4	0.35	88		30	150
		Fluoranthene-d10	0.4	0.40	100		30	150
		Nitrobenzene-d5	0.4	0.38	94		55	111
		2-Fluorobiphenyl	0.4	0.42	105		53	106
		Terphenyl-d14	0.4	0.64	161	*	58	132
Q2251-05	BP-VPB-182-EB-20250604	2-Methylnaphthalene-d10	0.4	0.31	76		30	150
		Fluoranthene-d10	0.4	0.35	88		30	150
		Nitrobenzene-d5	0.4	0.31	78		55	111
		2-Fluorobiphenyl	0.4	0.33	82		53	106
		Terphenyl-d14	0.4	0.44	109		58	132
Q2251-06	VPB182-HYD-20250605	2-Methylnaphthalene-d10	0.4	0.011	3	*	30	150
		Fluoranthene-d10	0.4	0.30	74		30	150
		Nitrobenzene-d5	0.4	0.37	93		55	111
		2-Fluorobiphenyl	0.4	0.40	100		53	106
		Terphenyl-d14	0.4	0.45	112		58	132

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: Q2251
Client: Tetra Tech NUS, Inc.
Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID: Q2250-02MS		Client Sample ID: MW-11A-13.5-060525MS						DataFile: BN037192.D			
1,4-Dioxane	0.42	2.50	3.20	ug/L	167	*			70	130	

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: Q2251
Client: Tetra Tech NUS, Inc.
Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID: Q2250-03MSD		Client Sample ID: MW-11A-13.5-060525MSD						DataFile: BN037193.D			
1,4-Dioxane	0.4	2.50	3.30	ug/L	200	*	18		70	130	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2251

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN037201.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB168336BS	1,4-Dioxane	0.4	0.40	ug/L	100				70	130	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168336BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q2251

SAS No.: Q2251 SDG NO.: Q2251

Lab File ID: BN037190.D

Lab Sample ID: PB168336BL

Instrument ID: BNA_N

Date Extracted: 06/06/2025

Matrix: (soil/water) Water

Date Analyzed: 06/09/2025

Level: (low/med) LOW

Time Analyzed: 11:30

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168336BS	PB168336BS	BN037201.D	06/09/2025
MW-11A-13.5-060525MS	Q2250-02MS	BN037192.D	06/09/2025
MW-11A-13.5-060525MSD	Q2250-03MSD	BN037193.D	06/09/2025
BP-VPB-182-GW-760-762	Q2251-03	BN037194.D	06/09/2025
BP-VPB-182-EB-20250604	Q2251-05	BN037195.D	06/09/2025
VPB182-HYD-20250605	Q2251-06	BN037196.D	06/09/2025

COMMENTS: _____

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM

SAS No.: Q2251 SDG NO.: Q2251

Lab File ID: BN037142.D

DFTPP Injection Date: 06/03/2025

Instrument ID: BNA_N

DFTPP Injection Time: 10:21

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	69.8
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	58.7
70	Less than 2.0% of mass 69	0.3 (0.5) 1
127	10.0 - 80.0% of mass 198	53.9
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	24.4
365	Greater than 1% of mass 198	4.5
441	Present, but less than mass 443	10.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	12.1 (19.8) 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
SSTDICC0.1	SSTDICC0.1	BN037143.D	06/03/2025	11:39
SSTDICC0.2	SSTDICC0.2	BN037144.D	06/03/2025	12:15
SSTDICCC0.4	SSTDICCC0.4	BN037145.D	06/03/2025	12:51
SSTDICC0.8	SSTDICC0.8	BN037146.D	06/03/2025	13:26
SSTDICC1.6	SSTDICC1.6	BN037147.D	06/03/2025	14:02
SSTDICC3.2	SSTDICC3.2	BN037148.D	06/03/2025	14:38
SSTDICC5.0	SSTDICC5.0	BN037149.D	06/03/2025	15:14

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM

SAS No.: Q2251

SDG NO.: Q2251

Lab File ID: BN037188.D

DFTPP Injection Date: 06/09/2025

Instrument ID: BNA_N

DFTPP Injection Time: 10:15

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	74
68	Less than 2.0% of mass 69	0.4 (0.7) 1
69	Mass 69 relative abundance	59.6
70	Less than 2.0% of mass 69	0.4 (0.6) 1
127	10.0 - 80.0% of mass 198	53
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	24.1
365	Greater than 1% of mass 198	4.4
441	Present, but less than mass 443	8.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.5 (18.5) 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	BN037189.D	06/09/2025	10:54
PB168336BL	PB168336BL	BN037190.D	06/09/2025	11:30
MW-11A-13.5-060525MS	Q2250-02MS	BN037192.D	06/09/2025	14:33
MW-11A-13.5-060525MSD	Q2250-03MSD	BN037193.D	06/09/2025	15:47
BP-VPB-182-GW-760-762	Q2251-03	BN037194.D	06/09/2025	16:26
BP-VPB-182-EB-20250604	Q2251-05	BN037195.D	06/09/2025	17:02
VPB182-HYD-20250605	Q2251-06	BN037196.D	06/09/2025	17:39
PB168336BS	PB168336BS	BN037201.D	06/09/2025	20:40
SSTDCCC0.4EC	SSTDCCC0.4	BN037202.D	06/09/2025	21:16

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2251 SAS No.: Q2251 SDG NO.: Q2251

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/09/2025

Lab File ID: BN037189.D Time Analyzed: 10:54

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	2093	7.589	5342	10.36	2894	14.24
UPPER LIMIT	4186	8.089	10684	10.862	5788	14.735
LOWER LIMIT	1046.5	7.089	2671	9.862	1447	13.735
EPA SAMPLE NO.						
01 PB168336BL	1816	7.59	4227	10.37	2101	14.25
02 MW-11A-13.5-060525MS	2144	7.59	5670	10.36	2991	14.23
03 MW-11A-13.5-060525MSD	2169	7.59	5646	10.36	2926	14.24
04 BP-VPB-182-GW-760-762	1999	7.59	5087	10.37	2679	14.24
05 BP-VPB-182-EB-20250604	1997	7.59	5202	10.36	2686	14.24
06 VPB182-HYD-20250605	1771	7.59	4440	10.37	2270	14.24
07 PB168336BS	2227	7.59	5466	10.36	2607	14.23

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.: Q2251 SAS No.: Q2251 SDG NO.: Q2251

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/09/2025

Lab File ID: BN037189.D Time Analyzed: 10:54

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	5308	16.984	3516	21.18	3185	23.377
UPPER LIMIT	10616	17.484	7032	21.68	6370	23.877
LOWER LIMIT	2654	16.484	1758	20.68	1592.5	22.877
EPA SAMPLE NO.						
01 PB168336BL	3500	17.00	2446	21.19	2291	23.39
02 MW-11A-13.5-060525MS	5389	16.98	3448	21.19	3177	23.38
03 MW-11A-13.5-060525MSD	5139	16.98	3419	21.18	3336	23.37
04 BP-VPB-182-GW-760-762	4804	16.98	3021	21.19	2805	23.38
05 BP-VPB-182-EB-20250604	4836	16.98	3055	21.19	1312 *	23.38
06 VPB182-HYD-20250605	3800	16.98	2625	21.19	2435	23.38
07 PB168336BS	4253	16.98	2468	21.19	2373	23.38

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:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	PB168336BL		SDG No.:	Q2251
Lab Sample ID:	PB168336BL		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
BN037190.D	1	06/06/25 11:54	06/09/25 11:30	PB168336

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		91%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		99%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		92%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		101%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		58 - 132		105%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1820	7.589				
1146-65-2	Naphthalene-d8	4230	10.372				
15067-26-2	Acenaphthene-d10	2100	14.245				
1517-22-2	Phenanthrene-d10	3500	16.996				
1719-03-5	Chrysene-d12	2450	21.189				
1520-96-3	Perylene-d12	2290	23.386				

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:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	PB168336BS		SDG No.:	Q2251
Lab Sample ID:	PB168336BS		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
BN037201.D	1	06/06/25 11:54	06/09/25 20:40	PB168336

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.40		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	0.30		30 - 150		76%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		95%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		58 - 132		95%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2230	7.589				
1146-65-2	Naphthalene-d8	5470	10.361				
15067-26-2	Acenaphthene-d10	2610	14.234				
1517-22-2	Phenanthrene-d10	4250	16.984				
1719-03-5	Chrysene-d12	2470	21.188				
1520-96-3	Perylene-d12	2370	23.377				

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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:	Tetra Tech NUS, Inc.	Date Collected:	06/05/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	06/05/25
Client Sample ID:	MW-11A-13.5-060525MS	SDG No.:	Q2251
Lab Sample ID:	Q2250-02MS	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
BN037192.D	1	06/06/25 11:54	06/09/25 14:33	PB168336

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.20		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	0.37		30 - 150		92%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		86%	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	2140	7.589				
1146-65-2	Naphthalene-d8	5670	10.361				
15067-26-2	Acenaphthene-d10	2990	14.234				
1517-22-2	Phenanthrene-d10	5390	16.984				
1719-03-5	Chrysene-d12	3450	21.188				
1520-96-3	Perylene-d12	3180	23.38				

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:	Tetra Tech NUS, Inc.	Date Collected:	06/05/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	06/05/25
Client Sample ID:	MW-11A-13.5-060525MSD	SDG No.:	Q2251
Lab Sample ID:	Q2250-03MSD	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
BN037193.D	1	06/06/25 11:54	06/09/25 15:47	PB168336

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.30		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		75%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		86%	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	2170	7.59				
1146-65-2	Naphthalene-d8	5650	10.362				
15067-26-2	Acenaphthene-d10	2930	14.235				
1517-22-2	Phenanthrene-d10	5140	16.984				
1719-03-5	Chrysene-d12	3420	21.18				
1520-96-3	Perylene-d12	3340	23.374				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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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-BN060325.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Jun 04 01:52:03 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN037143.D 0.2 =BN037144.D 0.4 =BN037145.D 0.8 =BN037146.D 1.6 =BN037147.D 3.2 =BN037148.D 5.0 =BN037149.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	0.598	0.657	0.510	0.506	0.526	0.477	0.458	0.533	13.16
3)	n-Nitrosodimet...	1.098	1.031	1.061	1.067	1.163	1.061	1.012	1.071	4.60
4) S	2-Fluorophenol	1.027	1.017	0.940	0.945	1.036	0.984	0.975	0.989	3.91
5) S	Phenol-d6	1.156	1.144	1.127	1.126	1.293	1.261	1.285	1.199	6.42
6)	bis(2-Chloroet...	1.138	1.139	1.128	1.089	1.223	1.146	1.146	1.144	3.51
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.393	0.383	0.421	0.407	0.455	0.450	0.446	0.422	6.86
9)	Naphthalene	1.183	1.125	1.119	1.111	1.215	1.165	1.160	1.154	3.31
10)	Hexachlorobuta...	0.253	0.249	0.261	0.247	0.266	0.246	0.238	0.251	3.81
11) SURR	2-Methylnaphth...	0.520	0.515	0.562	0.536	0.598	0.577	0.588	0.557	5.97
12)	2-Methylnaphth...	0.704	0.680	0.691	0.719	0.809	0.783	0.793	0.740	7.22
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.124	0.147	0.146	0.157	0.185	0.182	0.186	0.161	15.03
15) S	2-Fluorobiphenyl	1.722	1.691	1.626	1.654	1.814	1.706	1.725	1.705	3.52
16)	Acenaphthylene	1.946	1.905	1.768	1.871	2.112	2.050	2.075	1.961	6.32
17)	Acenaphthene	1.290	1.253	1.159	1.212	1.370	1.309	1.320	1.273	5.59
18)	Fluorene	1.701	1.577	1.518	1.611	1.823	1.736	1.752	1.674	6.48
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.039	0.050	0.067	0.090	0.102	0.114	0.077		38.58
21)	4-Bromophenyl-...	0.256	0.253	0.244	0.254	0.281	0.276	0.271	0.262	5.32
22)	Hexachlorobenzene	0.289	0.284	0.269	0.279	0.301	0.284	0.274	0.283	3.72
23)	Atrazine	0.194	0.200	0.187	0.209	0.241	0.238	0.247	0.216	11.42
24)	Pentachlorophenol	0.086	0.092	0.107	0.140	0.153	0.165	0.124		26.72
25)	Phenanthrene	1.285	1.242	1.193	1.248	1.386	1.357	1.361	1.296	5.64
26)	Anthracene	1.098	1.099	1.036	1.143	1.294	1.290	1.317	1.183	9.71
27) SURR	Fluoranthene-d10	0.969	0.937	0.975	0.956	1.092	1.071	1.114	1.016	7.22
28)	Fluoranthene	1.339	1.294	1.277	1.365	1.579	1.563	1.605	1.432	10.09
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	2.051	1.974	1.827	1.928	2.048	1.955	1.885	1.953	4.20
31) S	Terphenyl-d14	0.964	0.909	0.896	0.941	1.006	0.952	0.923	0.942	3.96
32)	Benzo(a)anthra...	1.369	1.367	1.291	1.404	1.582	1.553	1.570	1.448	8.15
33)	Chrysene	1.755	1.636	1.473	1.582	1.698	1.584	1.556	1.612	5.81
34)	Bis(2-ethylhex...	1.032	0.859	0.774	0.858	0.956	0.914	1.002	0.914	9.90
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN060325.M

36)	Indeno(1,2,3-c...	1.443	1.605	1.501	1.526	1.695	1.673	1.697	1.591	6.44
37)	Benzo(b)fluora...	1.529	1.520	1.421	1.575	1.763	1.713	1.781	1.615	8.58
38)	Benzo(k)fluora...	1.576	1.565	1.461	1.612	1.777	1.743	1.805	1.648	7.79
39) C	Benzo(a)pyrene	1.310	1.287	1.219	1.294	1.451	1.426	1.481	1.352	7.32
40)	Dibenzo(a,h)an...	1.074	1.167	1.160	1.196	1.333	1.332	1.328	1.227	8.48
41)	Benzo(g,h,i)pe...	1.368	1.450	1.351	1.372	1.477	1.424	1.425	1.410	3.33

(#) = Out of Range

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2251 SAS No.: Q2251 SDG No.: Q2251

Instrument ID: BNA_N Calibration Date/Time: 06/09/2025 10:54

Lab File ID: BN037189.D Init. Calib. Date(s): 06/03/2025 06/03/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:39 15:14

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.557	0.558		0.2	20.0
Fluoranthene-d10	1.016	0.960		-5.5	20.0
2-Fluorophenol	0.989	0.924		-6.6	20.0
Phenol-d6	1.199	1.124		-6.3	20.0
Nitrobenzene-d5	0.422	0.422		0.0	20.0
2-Fluorobiphenyl	1.705	1.691		-0.8	20.0
2,4,6-Tribromophenol	0.161	0.142		-11.8	20.0
Terphenyl-d14	0.942	0.909		-3.5	20.0
1,4-Dioxane	0.533	0.519		-2.6	20.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2251 SAS No.: Q2251 SDG No.: Q2251

Instrument ID: BNA_N Calibration Date/Time: 06/09/2025 21:16

Lab File ID: BN037202.D Init. Calib. Date(s): 06/03/2025 06/03/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 11:39 15:14

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.557	0.557		0.0	50.0
Fluoranthene-d10	1.016	0.913		-10.1	50.0
2-Fluorophenol	0.989	0.956		-3.3	50.0
Phenol-d6	1.199	1.158		-3.4	50.0
Nitrobenzene-d5	0.422	0.434		2.8	50.0
2-Fluorobiphenyl	1.705	1.635		-4.1	50.0
2,4,6-Tribromophenol	0.161	0.144		-10.6	50.0
Terphenyl-d14	0.942	0.923		-2.0	50.0
1,4-Dioxane	0.533	0.496		-6.9	50.0

All other compounds must meet a minimum RRF of 0.010.