

LAB CHRONICLE

OrderID:	Q3298	OrderDate:	10/6/2025 4:00:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	D31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3298-02	BP-VPB-184-EB-2025 1003	Water			10/03/25			10/06/25
			SVOC-SIMGroup1	8270-Modified		10/08/25	10/13/25	
Q3298-03	VPB184-HYD-202510 03	Water			10/03/25			10/06/25
			SVOC-SIMGroup1	8270-Modified		10/08/25	10/13/25	
Q3298-05	BP-VPB-184-GW-740- 742	Water			10/06/25			10/06/25
			SVOC-SIMGroup1	8270-Modified		10/08/25	10/14/25	



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

Hit Summary Sheet SW-846

SDG No.: Q3298
Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : BP-VPB-184-EB-20251003								
Q3298-02	BP-VPB-184-EB-202510 WATER	1,4-Dioxane	0.110	J	0.09	0.27	0.27	ug/L
Total Svoc :			0.11					
Total Concentration:			0.11					



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	10/03/25
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	10/06/25
Client Sample ID:	BP-VPB-184-EB-20251003		SDG No.:	Q3298
Lab Sample ID:	Q3298-02		Matrix:	Water
Analytical Method:	SW8270ESIM	Level : LOW	% Solid:	0
Sample Wt/Vol:	750 mL	Final Vol: 1000 uL	Test:	SVOC-SIMGroup1
Prep Method :	Prep Date: 10/08/25			

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS										
123-91-1	1,4-Dioxane	0.11	J	1	0.090	0.27	0.27	ug/L	10/13/25 18:36	PB170022
SURROGATES										
7297-45-2	2-Methylnaphthalene-d10	0.36			30 - 150		90%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.44			30 - 150		111%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.39			55 - 111		97%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.44	*		53 - 106		110%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.58	*		58 - 132		144%	SPK: 0.4		
INTERNAL STANDARDS										
		Area								
3855-82-1	1,4-Dichlorobenzene-d4	5120								
1146-65-2	Naphthalene-d8	12400								
15067-26-2	Acenaphthene-d10	6200								
1517-22-2	Phenanthrene-d10	12000								
1719-03-5	Chrysene-d12	10600								
1520-96-3	Perylene-d12	10600								

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:	10/03/25
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	10/06/25
Client Sample ID:	VPB184-HYD-20251003		SDG No.:	Q3298
Lab Sample ID:	Q3298-03		Matrix:	Water
Analytical Method:	SW8270ESIM	Level : LOW	% Solid:	0
Sample Wt/Vol:	1000 mL	Final Vol: 1000 uL	Test:	SVOC-SIMGroup1
Prep Method :	Prep Date: 10/08/25			

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS										
123-91-1	1,4-Dioxane	0.20	U	1	0.070	0.20	0.20	ug/L	10/13/25 19:12	PB170022
SURROGATES										
7297-45-2	2-Methylnaphthalene-d10	0	*		30 - 150		0%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.056	*		30 - 150		14%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.40			55 - 111		99%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.47	*		53 - 106		117%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.59	*		58 - 132		147%	SPK: 0.4		
INTERNAL STANDARDS										
		Area								
3855-82-1	1,4-Dichlorobenzene-d4	5260								
1146-65-2	Naphthalene-d8	13400								
15067-26-2	Acenaphthene-d10	6640								
1517-22-2	Phenanthrene-d10	11400								
1719-03-5	Chrysene-d12	8660								
1520-96-3	Perylene-d12	7770								

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:	10/06/25
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	10/06/25
Client Sample ID:	BP-VPB-184-GW-740-742		SDG No.:	Q3298
Lab Sample ID:	Q3298-05		Matrix:	Water
Analytical Method:	SW8270ESIM	Level : LOW	% Solid:	0
Sample Wt/Vol:	400 mL	Final Vol: 1000 uL	Test:	SVOC-SIMGroup1
Prep Method :	Prep Date: 10/08/25			

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS										
123-91-1	1,4-Dioxane	0.50	UM	1	0.17	0.50	0.50	ug/L	10/14/25 03:07	PB170022
SURROGATES										
7297-45-2	2-Methylnaphthalene-d10	0.27			30 - 150		68%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.32			30 - 150		79%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.29			55 - 111		72%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.33			53 - 106		81%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.47			58 - 132		116%	SPK: 0.4		
INTERNAL STANDARDS										
		Area								
3855-82-1	1,4-Dichlorobenzene-d4	6150								
1146-65-2	Naphthalene-d8	16100								
15067-26-2	Acenaphthene-d10	7710								
1517-22-2	Phenanthrene-d10	13000								
1719-03-5	Chrysene-d12	10100								
1520-96-3	Perylene-d12	9620								

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.: **Q3298**

Client: **Tetra Tech NUS, Inc.**

Analytical Method: **8270-Modified**

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB170022BL	PB170022BL	2-Methylnaphthalene-d10	0.4	0.32	80		30	150
		Fluoranthene-d10	0.4	0.35	88		30	150
		Nitrobenzene-d5	0.4	0.37	92		55	111
		2-Fluorobiphenyl	0.4	0.38	95		53	106
		Terphenyl-d14	0.4	0.49	123		58	132
PB170022BS	PB170022BS	2-Methylnaphthalene-d10	0.4	0.36	89		30	150
		Fluoranthene-d10	0.4	0.32	80		30	150
		Nitrobenzene-d5	0.4	0.37	92		55	111
		2-Fluorobiphenyl	0.4	0.41	103		53	106
		Terphenyl-d14	0.4	0.49	122		58	132
Q3298-02	BP-VPB-184-EB-20251003	2-Methylnaphthalene-d10	0.4	0.36	90		30	150
		Fluoranthene-d10	0.4	0.44	111		30	150
		Nitrobenzene-d5	0.4	0.39	97		55	111
		2-Fluorobiphenyl	0.4	0.44	110	*	53	106
		Terphenyl-d14	0.4	0.58	144	*	58	132
Q3298-03	VPB184-HYD-20251003	2-Methylnaphthalene-d10	0.4	0	0	*	30	150
		Fluoranthene-d10	0.4	0.056	14	*	30	150
		Nitrobenzene-d5	0.4	0.40	99		55	111
		2-Fluorobiphenyl	0.4	0.47	117	*	53	106
		Terphenyl-d14	0.4	0.59	147	*	58	132
Q3298-05	BP-VPB-184-GW-740-742	2-Methylnaphthalene-d10	0.4	0.27	68		30	150
		Fluoranthene-d10	0.4	0.32	79		30	150
		Nitrobenzene-d5	0.4	0.29	72		55	111
		2-Fluorobiphenyl	0.4	0.33	81		53	106
		Terphenyl-d14	0.4	0.47	116		58	132
Q3298-06MS	BP-VPB-184-GW-740-742MS	2-Methylnaphthalene-d10	0.4	0.26	64		30	150
		Fluoranthene-d10	0.4	0.19	48		30	150
		Nitrobenzene-d5	0.4	0.29	72		55	111
		2-Fluorobiphenyl	0.4	0.73	183	*	53	106
		Terphenyl-d14	0.4	1.08	269	*	58	132
Q3298-07MSD	BP-VPB-184-GW-740-742MSD	2-Methylnaphthalene-d10	0.4	0.26	65		30	150
		Fluoranthene-d10	0.4	0.14	36		30	150
		Nitrobenzene-d5	0.4	0.32	79		55	111
		2-Fluorobiphenyl	0.4	0.87	218	*	53	106
		Terphenyl-d14	0.4	2.21	553	*	58	132



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Fax : 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.:

Q3298

Analytical Method:

SW8270-Modified

Client:

Tetra Tech NUS, Inc.

DataFile:

BN038086.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q3298-06MS	Client Sample ID:	BP-VPB-184-GW-740-742MS								
1,4-Dioxane	0.95	0	1.60	ug/L	168	*			70	130	



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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.:

Q3298

Analytical Method:

SW8270-Modified

Client:

Tetra Tech NUS, Inc.

DataFile:

BN038087.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q3298-07MSD	Client Sample ID:	BP-VPB-184-GW-740-742MSD								
1,4-Dioxane	1.1	0	1.90	ug/L	173	*	3		70	130	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3298

Analytical Method: 8270-Modified

Client: Tetra Tech NUS, Inc.

DataFile: BN038071.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB170022BS	1,4-Dioxane	0.4	0.35	ug/L	88				70	130	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID

PB170022BL

Lab Name: Alliance

Contract: TETR06

Lab Code: ACE

SDG NO.: Q3298

Lab File ID: BN038070.D

Lab Sample ID: PB170022BL

Instrument ID: BNA_N

Date Extracted: 10/08/2025

Matrix: (soil/water) Water

Date Analyzed: 10/13/2025

Level: (low/med) LOW

Time Analyzed: 16:12

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB170022BS	PB170022BS	BN038071.D	10/13/2025
BP-VPB-184-EB-20251003	Q3298-02	BN038074.D	10/13/2025
VPB184-HYD-20251003	Q3298-03	BN038075.D	10/13/2025
BP-VPB-184-GW-740-742	Q3298-05	BN038085.D	10/14/2025
BP-VPB-184-GW-740-742MS	Q3298-06MS	BN038086.D	10/14/2025
BP-VPB-184-GW-740-742MSD	Q3298-07MSD	BN038087.D	10/14/2025

COMMENTS: _____

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037860.D
Instrument ID: BNA_N

Contract: TETR06
SDG NO.: Q3298
DFTPP Injection Date: 09/23/2025
DFTPP Injection Time: 11:33

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.6) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
365	Greater than 1% of mass 198	4.2
441	Present, but less than mass 443	72.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.7 (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
SSTDICC0.1	SSTDICC0.1	BN037861.D	09/23/2025	12:13
SSTDICC0.2	SSTDICC0.2	BN037862.D	09/23/2025	12:49
SSTDICCC0.4	SSTDICCC0.4	BN037863.D	09/23/2025	13:25
SSTDICC0.8	SSTDICC0.8	BN037864.D	09/23/2025	14:02
SSTDICC1.6	SSTDICC1.6	BN037865.D	09/23/2025	14:38
SSTDICC3.2	SSTDICC3.2	BN037866.D	09/23/2025	15:15
SSTDICC5.0	SSTDICC5.0	BN037867.D	09/23/2025	15:51

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN038065.D
Instrument ID: BNA_N

Contract: TETR06
SDG NO.: Q3298
DFTPP Injection Date: 10/13/2025
DFTPP Injection Time: 13:08

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.2) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	70.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.2 (21) 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	BN038066.D	10/13/2025	13:47
PB170022BL	PB170022BL	BN038070.D	10/13/2025	16:12
PB170022BS	PB170022BS	BN038071.D	10/13/2025	16:48
BP-VPB-184-EB-20251003	Q3298-02	BN038074.D	10/13/2025	18:36
VPB184-HYD-20251003	Q3298-03	BN038075.D	10/13/2025	19:12
SSTDCCC0.4EC	SSTDCCC0.4	BN038081.D	10/13/2025	23:24

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN038082.D
Instrument ID: BNA_N

Contract: TETR06
SDG NO.: Q3298
DFTPP Injection Date: 10/14/2025
DFTPP Injection Time: 00:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.7 (1.7) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	83.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17 (18) 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	BN038083.D	10/14/2025	01:19
BP-VPB-184-GW-740-742	Q3298-05	BN038085.D	10/14/2025	03:07
BP-VPB-184-GW-740-742MS	Q3298-06MS	BN038086.D	10/14/2025	03:43
BP-VPB-184-GW-740-742MSD	Q3298-07MSD	BN038087.D	10/14/2025	04:19
SSTDCCC0.4EC	SSTDCCC0.4	BN038088.D	10/14/2025	04:56

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3298

Client ID : SSTDCCC0.4

Date Analyzed: 10/13/2025

Lab File ID: BN038066.D

Time Analyzed: 13:47

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	7166	7.797	18651	10.59	10244	14.45
UPPER LIMIT	14332	8.297	37302	11.094	20488	14.952
LOWER LIMIT	3583	7.297	9325.5	10.094	5122	13.952
EPA SAMPLE NO.						
01 PB170022BL	6807	7.80	16619	10.61	7880	14.45
02 PB170022BS	6425	7.80	16580	10.59	7629	14.45
03 BP-VPB-184-EB-20251003	5123	7.80	12401	10.59	6195	14.45
04 VPB184-HYD-20251003	5261	7.80	13388	10.59	6636	14.45

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: Alliance

Lab Code: ACE

SDG NO.: Q3298

Client ID: SSTDCCC0.4

Date Analyzed: 10/13/2025

Lab File ID: BN038066.D

Time Analyzed: 13:47

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	18901	17.198	16827	21.393	17326	23.712
UPPER LIMIT	37802	17.698	33654	21.893	34652	24.212
LOWER LIMIT	9450.5	16.698	8413.5	20.893	8663	23.212
EPA SAMPLE NO.						
01 PB170022BL	12265	17.21	8413 *	21.39	7507 *	23.72
02 PB170022BS	12726	17.20	8201 *	21.39	7302 *	23.71
03 BP-VPB-184-EB-20251003	11996	17.20	10642	21.39	10598	23.72
04 VPB184-HYD-20251003	11371	17.20	8656	21.39	7769 *	23.71

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: Alliance

Lab Code: ACE

SDG NO.: Q3298

Client ID : SSTDCCC0.4

Date Analyzed: 10/14/2025

Lab File ID: BN038083.D

Time Analyzed: 01:19

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	7061	7.797	18151	10.59	9016	14.45
UPPER LIMIT	14122	8.297	36302	11.094	18032	14.952
LOWER LIMIT	3530.5	7.297	9075.5	10.094	4508	13.952
EPA SAMPLE NO.						
01 BP-VPB-184-GW-740-742	6146	7.80	16059	10.59	7706	14.45
02 BP-VPB-184-GW-740-742MS	5765	7.80	14968	10.59	3442 *	14.45
03 BP-VPB-184-GW-740-742MSD	6052	7.80	15943	10.59	3279 *	14.45

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: Alliance

Lab Code: ACE

SDG NO.: Q3298

Client ID: SSTDCCC0.4

Date Analyzed: 10/14/2025

Lab File ID: BN038083.D

Time Analyzed: 01:19

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	16225	17.198	13579	21.384	13727	23.709
UPPER LIMIT	32450	17.698	27158	21.884	27454	24.209
LOWER LIMIT	8112.5	16.698	6789.5	20.884	6863.5	23.209
EPA SAMPLE NO.						
01 BP-VPB-184-GW-740-742	13040	17.20	10129	21.38	9622	23.71
02 BP-VPB-184-GW-740-742MS	10343	17.20	3302 *	21.38	80 *	23.71
03 BP-VPB-184-GW-740-742MSD	9259	17.20	1395 *	21.38	59 *	23.71

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:	PB170022BL		SDG No.:	Q3298
Lab Sample ID:	PB170022BL		Matrix:	Water
Analytical Method:	SW8270ESIM	Level : LOW	% Solid:	0
Sample Wt/Vol:	1000 mL	Final Vol: 1000 uL	Test:	SVOC-SIMGroup1
Prep Method :		Prep Date: 10/08/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS										
123-91-1	1,4-Dioxane	0.20	U	1	0.070	0.20	0.20	ug/L	10/13/25 16:12	PB170022
SURROGATES										
7297-45-2	2-Methylnaphthalene-d10	0.32			30 - 150		80%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.35			30 - 150		88%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.37			55 - 111		92%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.38			53 - 106		95%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.49			58 - 132		123%	SPK: 0.4		
INTERNAL STANDARDS										
		Area								
3855-82-1	1,4-Dichlorobenzene-d4	6810								
1146-65-2	Naphthalene-d8	16600								
15067-26-2	Acenaphthene-d10	7880								
1517-22-2	Phenanthrene-d10	12300								
1719-03-5	Chrysene-d12	8410								
1520-96-3	Perylene-d12	7510								

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.
Project: NWIRP Bethpage 112G08005-WE13
Client Sample ID: PB170022BS
Lab Sample ID: PB170022BS
Analytical Method: SW8270ESIM Level : LOW
Sample Wt/Vol: 1000 mL Final Vol: 1000 uL
Prep Method : Prep Date: 10/08/25

Date Collected:
Date Received:
SDG No.: Q3298
Matrix: Water
% Solid: 0
Test: SVOC-SIMGroup1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS										
123-91-1	1,4-Dioxane	0.35		1	0.070	0.20	0.20	ug/L	10/13/25 16:48	PB170022
SURROGATES										
7297-45-2	2-Methylnaphthalene-d10	0.36			30 - 150		89%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.32			30 - 150		80%	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	0.49			58 - 132		122%	SPK: 0.4		
INTERNAL STANDARDS										
		Area								
3855-82-1	1,4-Dichlorobenzene-d4	6430								
1146-65-2	Naphthalene-d8	16600								
15067-26-2	Acenaphthene-d10	7630								
1517-22-2	Phenanthrene-d10	12700								
1719-03-5	Chrysene-d12	8200								
1520-96-3	Perylene-d12	7300								

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J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

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Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	10/06/25
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	10/06/25
Client Sample ID:	BP-VPB-184-GW-740-742MS		SDG No.:	Q3298
Lab Sample ID:	Q3298-06MS		Matrix:	Water
Analytical Method:	SW8270ESIM	Level : LOW	% Solid:	0
Sample Wt/Vol:	420 mL	Final Vol: 1000 uL	Test:	SVOC-SIMGroup1
Prep Method :	Prep Date: 10/08/25			

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS										
123-91-1	1,4-Dioxane	1.60		1	0.16	0.48	0.48	ug/L	10/14/25 03:43	PB170022
SURROGATES										
7297-45-2	2-Methylnaphthalene-d10	0.26			30 - 150		64%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.19			30 - 150		48%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.29			55 - 111		72%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.73	*		53 - 106		183%	SPK: 0.4		
1718-51-0	Terphenyl-d14	1.08	*		58 - 132		269%	SPK: 0.4		
INTERNAL STANDARDS										
		Area								
3855-82-1	1,4-Dichlorobenzene-d4	5770								
1146-65-2	Naphthalene-d8	15000								
15067-26-2	Acenaphthene-d10	3440								
1517-22-2	Phenanthrene-d10	10300								
1719-03-5	Chrysene-d12	3300								
1520-96-3	Perylene-d12	80.0								

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D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	10/06/25
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	10/06/25
Client Sample ID:	BP-VPB-184-GW-740-742MSD		SDG No.:	Q3298
Lab Sample ID:	Q3298-07MSD		Matrix:	Water
Analytical Method:	SW8270ESIM	Level : LOW	% Solid:	0
Sample Wt/Vol:	360 mL	Final Vol: 1000 uL	Test:	SVOC-SIMGroup1
Prep Method :	Prep Date: 10/08/25			

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS										
123-91-1	1,4-Dioxane	1.90		1	0.18	0.56	0.56	ug/L	10/14/25 04:19	PB170022
SURROGATES										
7297-45-2	2-Methylnaphthalene-d10	0.26			30 - 150		65%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.14			30 - 150		36%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.32			55 - 111		79%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.87	*		53 - 106		218%	SPK: 0.4		
1718-51-0	Terphenyl-d14	2.21	*		58 - 132		553%	SPK: 0.4		
INTERNAL STANDARDS										
		Area								
3855-82-1	1,4-Dichlorobenzene-d4	6050								
1146-65-2	Naphthalene-d8	15900								
15067-26-2	Acenaphthene-d10	3280								
1517-22-2	Phenanthrene-d10	9260								
1719-03-5	Chrysene-d12	1400								
1520-96-3	Perylene-d12	59.0								

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LOD = Limit of Detection

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J = Estimated Value

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() = Laboratory InHouse Limit

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CALIBRATION SUMMARY

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN092325.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Sep 24 11:00:01 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN037861.D 0.2 =BN037862.D 0.4 =BN037863.D 0.8 =BN037864.D 1.6 =BN037865.D 3.2 =BN037866.D 5 =BN037867.D

	Compound	0.1	0.2	0.4	0.8	1.6	3.2	5	Avg	%RSD

1) I	1,4-Dichlorobenzen...	-----ISTD-----								
2)	1,4-Dioxane	0.413	0.410	0.403	0.425	0.410	0.376	0.406	4.04	
3)	n-Nitrosodimet...	0.541	0.517	0.526	0.561	0.549	0.547	0.540	3.03	
4) S	2-Fluorophenol	0.944	0.921	0.856	0.839	0.908	0.923	0.998	0.913	5.84
5) S	Phenol-d6	1.190	1.200	1.118	1.088	1.211	1.236	1.353	1.199	7.15
6)	bis(2-Chloroet...	1.133	1.096	1.082	1.066	1.150	1.124	1.143	1.113	2.89
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.299	0.289	0.289	0.290	0.310	0.320	0.338	0.305	6.14
9)	Naphthalene	1.105	1.089	1.048	1.051	1.123	1.137	1.160	1.102	3.84
10)	Hexachlorobuta...	0.198	0.184	0.182	0.183	0.192	0.188	0.188	0.188	2.94
11) SURR2	Methylnaphth...	0.515	0.518	0.499	0.504	0.553	0.587	0.714	0.556	13.74
12)	2-Methylnaphth...	0.678	0.681	0.668	0.682	0.754	0.775	0.802	0.720	7.68
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.148	0.142	0.135	0.139	0.163	0.184	0.152	12.15	
15) S	2-Fluorobiphenyl	1.660	1.631	1.559	1.547	1.654	1.650	1.762	1.638	4.36
16)	Acenaphthylene	1.698	1.721	1.663	1.680	1.907	1.951	2.094	1.816	9.23
17)	Acenaphthene	1.262	1.230	1.198	1.208	1.351	1.371	1.437	1.294	7.16
18)	Fluorene	1.455	1.455	1.452	1.466	1.664	1.717	1.748	1.565	8.77
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.041	0.044	0.046	0.058	0.071	0.084	0.057	29.75	
21)	4-Bromophenyl-...	0.252	0.247	0.244	0.244	0.272	0.275	0.291	0.261	7.07
22)	Hexachlorobenzene	0.317	0.312	0.305	0.300	0.324	0.323	0.332	0.316	3.53
23)	Atrazine	0.180	0.181	0.172	0.178	0.205	0.224	0.249	0.199	14.70
24)	Pentachlorophenol	0.101	0.092	0.097	0.116	0.136	0.108	16.50		
25)	Phenanthrene	1.301	1.271	1.230	1.224	1.358	1.379	1.452	1.316	6.37
26)	Anthracene	1.034	1.035	1.023	1.057	1.209	1.275	1.361	1.142	12.10
27) SURR	Fluoranthene-d10	0.880	0.918	0.887	0.900	1.004	1.085	1.370	1.006	17.59
28)	Fluoranthene	1.278	1.315	1.311	1.358	1.555	1.617	1.713	1.450	12.07
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.576	1.600	1.521	1.476	1.607	1.595	1.679	1.579	4.12
31) S	Terphenyl-d14	0.799	0.791	0.753	0.735	0.798	0.809	0.893	0.797	6.34
32)	Benzo(a)anthra...	1.376	1.359	1.294	1.285	1.423	1.483	1.567	1.398	7.27
33)	Chrysene	1.508	1.526	1.462	1.446	1.559	1.512	1.569	1.512	3.03
34)	Bis(2-ethylhex...	0.592	0.487	0.476	0.518	0.569	0.676	0.553	13.57	
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN092325.M

36)	Indeno(1,2,3-c...	1.715	1.672	1.658	1.707	1.887	1.996	2.159	1.828	10.52
37)	Benzo(b)fluora...	1.599	1.606	1.641	1.590	1.810	1.848	1.981	1.725	8.95
38)	Benzo(k)fluora...	1.620	1.586	1.597	1.628	1.875	1.917	1.926	1.736	9.26
39) C	Benzo(a)pyrene	1.254	1.296	1.231	1.254	1.413	1.492	1.610	1.364	10.61
40)	Dibenzo(a,h)an...	1.285	1.283	1.303	1.333	1.495	1.587	1.705	1.427	11.87
41)	Benzo(g,h,i)pe...	1.407	1.381	1.404	1.397	1.521	1.613	1.773	1.499	9.85

(#) = Out of Range

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>TETR06</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3298</u>
Instrument ID:	<u>BNA_N</u>	Calibration Date/Time:	<u>10/13/2025 13:47</u>
Lab File ID:	<u>BN038066.D</u>	Init. Calib. Date(s):	<u>09/23/2025 09/23/2025</u>
EPA Sample No.:	<u>SSTDCCC0.4</u>	Init. Calib. Time(s):	<u>12:13 15:51</u>
GC Column:	<u>ZB-GR</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.556	0.571		2.7	20.0
Fluoranthene-d10	1.006	1.065		5.9	20.0
2-Fluorophenol	0.913	0.893		-2.2	20.0
Phenol-d6	1.199	0.939		-21.7	20.0
Nitrobenzene-d5	0.305	0.238		-22.0	20.0
2-Fluorobiphenyl	1.638	1.428		-12.8	20.0
2,4,6-Tribromophenol	0.152	0.137		-9.9	20.0
Terphenyl-d14	0.797	0.724		-9.2	20.0
1,4-Dioxane	0.406	0.465		14.5	20.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>TETR06</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3298</u>
Instrument ID:	<u>BNA_N</u>	Calibration Date/Time:	<u>10/13/2025 23:24</u>
Lab File ID:	<u>BN038081.D</u>	Init. Calib. Date(s):	<u>09/23/2025 09/23/2025</u>
EPA Sample No.:	<u>SSTDCCC0.4EC</u>	Init. Calib. Time(s):	<u>12:13 15:51</u>
GC Column:	<u>ZB-GR</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.556	0.494		-11.2	50.0
Fluoranthene-d10	1.006	0.861		-14.4	50.0
2-Fluorophenol	0.913	0.864		-5.4	50.0
Phenol-d6	1.199	0.927		-22.7	50.0
Nitrobenzene-d5	0.305	0.270		-11.5	50.0
2-Fluorobiphenyl	1.638	1.596		-2.6	50.0
2,4,6-Tribromophenol	0.152	0.107		-29.6	50.0
Terphenyl-d14	0.797	0.757		-5.0	50.0
1,4-Dioxane	0.406	0.485		19.5	50.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>TETR06</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3298</u>
Instrument ID:	<u>BNA_N</u>	Calibration Date/Time:	<u>10/14/2025 01:19</u>
Lab File ID:	<u>BN038083.D</u>	Init. Calib. Date(s):	<u>09/23/2025 09/23/2025</u>
EPA Sample No.:	<u>SSTDCCC0.4</u>	Init. Calib. Time(s):	<u>12:13 15:51</u>
GC Column:	<u>ZB-GR</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.556	0.546		-1.8	20.0
Fluoranthene-d10	1.006	1.016		1.0	20.0
2-Fluorophenol	0.913	0.823		-9.9	20.0
Phenol-d6	1.199	0.940		-21.6	20.0
Nitrobenzene-d5	0.305	0.248		-18.7	20.0
2-Fluorobiphenyl	1.638	1.500		-8.4	20.0
2,4,6-Tribromophenol	0.152	0.116		-23.7	20.0
Terphenyl-d14	0.797	0.709		-11.0	20.0
1,4-Dioxane	0.406	0.473		16.5	20.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>TETR06</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3298</u>
Instrument ID:	<u>BNA_N</u>	Calibration Date/Time:	<u>10/14/2025 04:56</u>
Lab File ID:	<u>BN038088.D</u>	Init. Calib. Date(s):	<u>09/23/2025 09/23/2025</u>
EPA Sample No.:	<u>SSTDCCC0.4EC</u>	Init. Calib. Time(s):	<u>12:13 15:51</u>
GC Column:	<u>ZB-GR</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.556	0.537		-3.4	50.0
Fluoranthene-d10	1.006	0.979		-2.7	50.0
2-Fluorophenol	0.913	0.880		-3.6	50.0
Phenol-d6	1.199	0.975		-18.7	50.0
Nitrobenzene-d5	0.305	0.255		-16.4	50.0
2-Fluorobiphenyl	1.638	1.577		-3.7	50.0
2,4,6-Tribromophenol	0.152	0.119		-21.7	50.0
Terphenyl-d14	0.797	0.748		-6.1	50.0
1,4-Dioxane	0.406	0.494		21.7	50.0

All other compounds must meet a minimum RRF of 0.010.