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LAB CHRONICLE

OrderID:	Q3292	**OrderDate:**	10/6/2025 10:37:00 AM
Client:	Tetra Tech NUS, Inc.	**Project:**	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	**Location:**	D31

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3292-01	**RW8-SP100-20251003**	**Water**			**10/03/25**			**10/06/25**
			SVOC-SIMGroup1	8270-Modified		10/08/25	10/13/25	
Q3292-02	**RW8-SP303-20251003**	**Water**			**10/03/25**			**10/06/25**
			SVOC-SIMGroup1	8270-Modified		10/08/25	10/13/25	

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Hit Summary Sheet
SW-846

SDG No.: Q3292

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	**RW8-SP100-20251003**								
Q3292-01	RW8-SP100-20251003	WATER	1,4-Dioxane	0.120	J	0.07	0.2	0.2	ug/L
			Total Svoc :	**0.12**					
			Total Concentration:	**0.12**					

SAMPLE DATA

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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:	RW8-SP100-20251003	SDG No.:	Q3292
Lab Sample ID:	Q3292-01	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	0.12	J	1	0.070	0.20	0.20	ug/L	10/13/25 17:24	PB170022
SURROGATES										
7297-45-2	2-Methylnaphthalene-d10	0.32			30 - 150		80%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.44			30 - 150		110%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.37			55 - 111		91%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.39			53 - 106		96%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.57	*		58 - 132		143%	SPK: 0.4		
INTERNAL STANDARDS		**Area**								
3855-82-1	1,4-Dichlorobenzene-d4	5760								
1146-65-2	Naphthalene-d8	13900								
15067-26-2	Acenaphthene-d10	7070								
1517-22-2	Phenanthrene-d10	12500								
1719-03-5	Chrysene-d12	10800								
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

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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:	RW8-SP303-20251003	SDG No.:	Q3292
Lab Sample ID:	Q3292-02	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 18:00	PB170022
SURROGATES										
7297-45-2	2-Methylnaphthalene-d10	0.34			30 - 150		85%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.42			30 - 150		104%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.37			55 - 111		92%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.37			53 - 106		92%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.52			58 - 132		131%	SPK: 0.4		
INTERNAL STANDARDS		**Area**								
3855-82-1	1,4-Dichlorobenzene-d4	6020								
1146-65-2	Naphthalene-d8	14300								
15067-26-2	Acenaphthene-d10	7200								
1517-22-2	Phenanthrene-d10	12400								
1719-03-5	Chrysene-d12	10500								
1520-96-3	Perylene-d12	10400								

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

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Surrogate Summary

SW-846

SDG No.: Q3292

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) 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
Q3292-01	RW8-SP100-20251003	2-Methylnaphthalene-d10	0.4	0.32	80		30	150
		Fluoranthene-d10	0.4	0.44	110		30	150
		Nitrobenzene-d5	0.4	0.37	91		55	111
		2-Fluorobiphenyl	0.4	0.39	96		53	106
		Terphenyl-d14	0.4	0.57	143	*	58	132
Q3292-02	RW8-SP303-20251003	2-Methylnaphthalene-d10	0.4	0.34	85		30	150
		Fluoranthene-d10	0.4	0.42	104		30	150
		Nitrobenzene-d5	0.4	0.37	92		55	111
		2-Fluorobiphenyl	0.4	0.37	92		53	106
		Terphenyl-d14	0.4	0.52	131		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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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q3292 **Analytical Method:** SW8270-Modified

Client: Tetra Tech NUS, Inc. **DataFile:** BN038086.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits 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.: Q3292 **Analytical Method:** SW8270-Modified

Client: Tetra Tech NUS, Inc. **DataFile:** BN038087.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits 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

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3292 **Analytical Method:** 8270-Modified

Client: Tetra Tech NUS, Inc. **DataFile:** BN038071.D

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

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID: PB170022BL

Lab Name: Alliance | Contract: TETR06

Lab Code: ACE | SDG NO.: Q3292

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
RW8-SP100-20251003	Q3292-01	BN038072.D	10/13/2025
RW8-SP303-20251003	Q3292-02	BN038073.D	10/13/2025
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:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance | Contract: TETR06

Lab Code: ACE | SDG NO.: Q3292

Lab File ID: BN037860.D | DFTPP Injection Date: 09/23/2025

Instrument ID: BNA_N | 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

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance | Contract: TETR06

Lab Code: ACE | SDG NO.: Q3292

Lab File ID: BN038065.D | DFTPP Injection Date: 10/13/2025

Instrument ID: BNA_N | 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
RW8-SP100-20251003	Q3292-01	BN038072.D	10/13/2025	17:24
RW8-SP303-20251003	Q3292-02	BN038073.D	10/13/2025	18:00
SSTDCCC0.4EC	SSTDCCC0.4	BN038081.D	10/13/2025	23:24

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: TETR06

Lab Code: ACE SDG NO.: Q3292

Lab File ID: BN038082.D DFTPP Injection Date: 10/14/2025

Instrument ID: BNA_N 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-740-742MS	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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3292

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	RW8-SP100-20251003	5762	7.80	13937	10.61	7066	14.45
04	RW8-SP303-20251003	6016	7.80	14258	10.61	7203	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.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3292

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	RW8-SP100-20251003	12532	17.21	10826		21.39	10606		23.72
04	RW8-SP303-20251003	12433	17.21	10491		21.39	10411		23.72

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.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3292

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-740-742MS	5765	7.80	14968	10.59	3442	*	14.45
02	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.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3292

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-740-742MS	10343	17.20	3302	*	21.38	80	*	23.71
02	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

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB170022BL	SDG No.:	Q3292
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

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB170022BS	SDG No.:	Q3292
Lab Sample ID:	PB170022BS	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	0.35		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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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.:	Q3292
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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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-740-742MSD	SDG No.:	Q3292
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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J = Estimated Value
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CALIBRATION SUMMARY

Response Factor Report BNA_N

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)	SURR	2-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

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: TETR06

Lab Code: ACE SDG No.: Q3292

Instrument ID: BNA_N Calibration Date/Time: 10/13/2025 13:47

Lab File ID: BN038066.D Init. Calib. Date(s): 09/23/2025 09/23/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 12:13 15:51

GC Column: ZB-GR ID: 0.25 (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.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: TETR06

Lab Code: ACE SDG No.: Q3292

Instrument ID: BNA_N Calibration Date/Time: 10/13/2025 23:24

Lab File ID: BN038081.D Init. Calib. Date(s): 09/23/2025 09/23/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 12:13 15:51

GC Column: ZB-GR ID: 0.25 (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.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: TETR06

Lab Code: ACE SDG No.: Q3292

Instrument ID: BNA_N Calibration Date/Time: 10/14/2025 01:19

Lab File ID: BN038083.D Init. Calib. Date(s): 09/23/2025 09/23/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 12:13 15:51

GC Column: ZB-GR ID: 0.25 (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.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: TETR06

Lab Code: ACE SDG No.: Q3292

Instrument ID: BNA_N Calibration Date/Time: 10/14/2025 04:56

Lab File ID: BN038088.D Init. Calib. Date(s): 09/23/2025 09/23/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 12:13 15:51

GC Column: ZB-GR ID: 0.25 (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.