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

LAB CHRONICLE

OrderID:	Q2314	**OrderDate:**	6/12/2025 3:59:00 PM
Client:	Tetra Tech NUS, Inc.	**Project:**	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	**Location:**	D41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2314-04	**BP-VPB-182-GW-880-882**	**Water**			**06/12/25**			**06/12/25**
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/14/25	
Q2314-05	**BP-VPB-182-EB-20250612**	**Water**			**06/12/25**			**06/12/25**
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/15/25	
Q2314-06	**VPB182-HYD-20250612**	**Water**			**06/12/25**			**06/12/25**
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/15/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2314

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	**BP-VPB-182-EB-20250612**							
Q2314-05	BP-VPB-182-EB-202506 WATER	1,4-Dioxane	0.300		0.07	0.21	0.21	ug/L
		Total Svoc :		**0.30**				
		Total Concentration:		**0.30**				

SAMPLE DATA

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	06/12/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	06/12/25
Client Sample ID:	BP-VPB-182-GW-880-882	SDG No.:	Q2314
Lab Sample ID:	Q2314-04	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	960 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037275.D	1	06/13/25 11:00	06/14/25 23:43	PB168476

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	0.36		30 - 150		89%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		70%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		53 - 106		79%	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	1140	7.575				
1146-65-2	Naphthalene-d8	2850	10.351				
15067-26-2	Acenaphthene-d10	1520	14.224				
1517-22-2	Phenanthrene-d10	2710	16.971				
1719-03-5	Chrysene-d12	2170	21.171				
1520-96-3	Perylene-d12	2120	23.354				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	06/12/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	06/12/25
Client Sample ID:	BP-VPB-182-EB-20250612	SDG No.:	Q2314
Lab Sample ID:	Q2314-05	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037276.D	1	06/13/25 11:00	06/15/25 00:18	PB168476

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.30		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		72%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		87%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.25		55 - 111		63%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		74%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		58 - 132		91%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1180	7.575				
1146-65-2	Naphthalene-d8	3050	10.351				
15067-26-2	Acenaphthene-d10	1580	14.224				
1517-22-2	Phenanthrene-d10	2710	16.971				
1719-03-5	Chrysene-d12	2260	21.171				
1520-96-3	Perylene-d12	2220	23.357				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	06/12/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	06/12/25
Client Sample ID:	VPB182-HYD-20250612	SDG No.:	Q2314
Lab Sample ID:	Q2314-06	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
BN037277.D	1	06/13/25 11:00	06/15/25 00:54	PB168476

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	0.027	*	30 - 150		7%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.29		30 - 150		73%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		69%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		82%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		99%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1180	7.575				
1146-65-2	Naphthalene-d8	2840	10.351				
15067-26-2	Acenaphthene-d10	1500	14.224				
1517-22-2	Phenanthrene-d10	2630	16.971				
1719-03-5	Chrysene-d12	2000	21.171				
1520-96-3	Perylene-d12	1330	23.36				

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.: Q2314

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
PB168476BL	PB168476BL	2-Methylnaphthalene-d10	0.4	0.33	83		30	150
		Fluoranthene-d10	0.4	0.36	90		30	150
		Nitrobenzene-d5	0.4	0.29	74		55	111
		2-Fluorobiphenyl	0.4	0.34	84		53	106
		Terphenyl-d14	0.4	0.38	95		58	132
PB168476BS	PB168476BS	2-Methylnaphthalene-d10	0.4	0.43	108		30	150
		Fluoranthene-d10	0.4	0.34	85		30	150
		Nitrobenzene-d5	0.4	0.38	94		55	111
		2-Fluorobiphenyl	0.4	0.39	97		53	106
		Terphenyl-d14	0.4	0.38	95		58	132
PB168476BSD	PB168476BSD	2-Methylnaphthalene-d10	0.4	0.40	99		30	150
		Fluoranthene-d10	0.4	0.32	81		30	150
		Nitrobenzene-d5	0.4	0.34	85		55	111
		2-Fluorobiphenyl	0.4	0.36	89		53	106
		Terphenyl-d14	0.4	0.36	90		58	132
Q2314-04	BP-VPB-182-GW-880-882	2-Methylnaphthalene-d10	0.4	0.31	76		30	150
		Fluoranthene-d10	0.4	0.36	89		30	150
		Nitrobenzene-d5	0.4	0.28	70		55	111
		2-Fluorobiphenyl	0.4	0.32	79		53	106
		Terphenyl-d14	0.4	0.39	97		58	132
Q2314-05	BP-VPB-182-EB-20250612	2-Methylnaphthalene-d10	0.4	0.29	72		30	150
		Fluoranthene-d10	0.4	0.35	87		30	150
		Nitrobenzene-d5	0.4	0.25	63		55	111
		2-Fluorobiphenyl	0.4	0.30	74		53	106
		Terphenyl-d14	0.4	0.36	91		58	132
Q2314-06	VPB182-HYD-20250612	2-Methylnaphthalene-d10	0.4	0.027	7	*	30	150
		Fluoranthene-d10	0.4	0.29	73		30	150
		Nitrobenzene-d5	0.4	0.28	69		55	111
		2-Fluorobiphenyl	0.4	0.33	82		53	106
		Terphenyl-d14	0.4	0.40	99		58	132

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2314

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified **DataFile:** BN037280.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB168476BS	1,4-Dioxane	0.4	0.30	ug/L	75				70	130	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2314

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified **DataFile:** BN037281.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB168476BSD	1,4-Dioxane	0.4	0.28	ug/L	70	7			70	130	20

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168476BL

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2314 SAS No.: Q2314 SDG NO.: Q2314

Lab File ID: BN037274.D Lab Sample ID: PB168476BL

Instrument ID: BNA_N Date Extracted: 06/13/2025

Matrix: (soil/water) Water Date Analyzed: 06/14/2025

Level: (low/med) LOW Time Analyzed: 23:07

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168476BS	PB168476BS	BN037280.D	06/15/2025
BP-VPB-182-GW-880-882	Q2314-04	BN037275.D	06/14/2025
BP-VPB-182-EB-20250612	Q2314-05	BN037276.D	06/15/2025
VPB182-HYD-20250612	Q2314-06	BN037277.D	06/15/2025
PB168476BSD	PB168476BSD	BN037281.D	06/15/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: Q2314 SDG NO.: Q2314

Lab File ID: BN037223.D DFTPP Injection Date: 06/13/2025

Instrument ID: BNA_N DFTPP Injection Time: 11:34

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.7 (1.1) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.3 (0.4) 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	6.7
365	Greater than 1% of mass 198	5.3
441	Present, but less than mass 443	90.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	12.6 (20.1) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN037225.D	06/13/2025	13:33
SSTDICC0.2	SSTDICC0.2	BN037226.D	06/13/2025	14:10
SSTDICCC0.4	SSTDICCC0.4	BN037227.D	06/13/2025	14:46
SSTDICC0.8	SSTDICC0.8	BN037228.D	06/13/2025	15:22
SSTDICC1.6	SSTDICC1.6	BN037229.D	06/13/2025	15:59
SSTDICC3.2	SSTDICC3.2	BN037230.D	06/13/2025	16:35
SSTDICC5.0	SSTDICC5.0	BN037231.D	06/13/2025	17:11

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: Q2314 SDG NO.: Q2314

Lab File ID: BN037272.D DFTPP Injection Date: 06/14/2025

Instrument ID: BNA_N DFTPP Injection Time: 21:51

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	1 (1.5) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.4 (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	7
365	Greater than 1% of mass 198	5.1
441	Present, but less than mass 443	82.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	12 (20.1) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN037273.D	06/14/2025	22:31
PB168476BL	PB168476BL	BN037274.D	06/14/2025	23:07
BP-VPB-182-GW-880-882	Q2314-04	BN037275.D	06/14/2025	23:43
BP-VPB-182-EB-20250612	Q2314-05	BN037276.D	06/15/2025	00:18
VPB182-HYD-20250612	Q2314-06	BN037277.D	06/15/2025	00:54
PB168476BS	PB168476BS	BN037280.D	06/15/2025	02:42
PB168476BSD	PB168476BSD	BN037281.D	06/15/2025	03:18

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2314 SAS No.: Q2314 SDG NO.: Q2314

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/14/2025

Lab File ID: BN037273.D Time Analyzed: 22:31

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	1389	7.575	3410	10.35	1759	14.22
	UPPER LIMIT	2778	8.075	6820	10.851	3518	14.724
	LOWER LIMIT	694.5	7.075	1705	9.851	879.5	13.724
	EPA SAMPLE NO.						
01	PB168476BL	1111	7.58	2537	10.36	1345	14.22
02	PB168476BS	1101	7.58	2637	10.35	1350	14.22
03	PB168476BSD	1070	7.58	2630	10.35	1332	14.22
04	BP-VPB-182-GW-880-882	1138	7.58	2846	10.35	1516	14.22
05	BP-VPB-182-EB-20250612	1177	7.58	3045	10.35	1578	14.22
06	VPB182-HYD-20250612	1176	7.58	2844	10.35	1497	14.22

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: CHEMTECH

Lab Code: CHEM Case No.: Q2314 SAS No.: Q2314 SDG NO.: Q2314

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/14/2025

Lab File ID: BN037273.D Time Analyzed: 22:31

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	3220	16.971	2454	21.171	2514		23.357
	UPPER LIMIT	6440	17.471	4908	21.671	5028		23.857
	LOWER LIMIT	1610	16.471	1227	20.671	1257		22.857
	EPA SAMPLE NO.							
01	PB168476BL	2242	16.98	1645	21.17	1590		23.36
02	PB168476BS	2251	16.97	1528	21.17	1224	*	23.36
03	PB168476BSD	2256	16.97	1565	21.17	1276		23.35
04	BP-VPB-182-GW-880-882	2706	16.97	2168	21.17	2115		23.35
05	BP-VPB-182-EB-20250612	2705	16.97	2258	21.17	2222		23.36
06	VPB182-HYD-20250612	2633	16.97	1998	21.17	1328		23.36

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:	PB168476BL	SDG No.:	Q2314
Lab Sample ID:	PB168476BL	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
BN037274.D	1	06/13/25 11:00	06/14/25 23:07	PB168476

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	0.33		30 - 150		83%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		90%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		74%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		84%	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	1110	7.575				
1146-65-2	Naphthalene-d8	2540	10.361				
15067-26-2	Acenaphthene-d10	1350	14.224				
1517-22-2	Phenanthrene-d10	2240	16.984				
1719-03-5	Chrysene-d12	1650	21.171				
1520-96-3	Perylene-d12	1590	23.357				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB168476BS	SDG No.:	Q2314
Lab Sample ID:	PB168476BS	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
BN037280.D	1	06/13/25 11:00	06/15/25 02:42	PB168476

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.30		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	0.38		55 - 111		94%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		97%	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	1100	7.575				
1146-65-2	Naphthalene-d8	2640	10.351				
15067-26-2	Acenaphthene-d10	1350	14.224				
1517-22-2	Phenanthrene-d10	2250	16.971				
1719-03-5	Chrysene-d12	1530	21.171				
1520-96-3	Perylene-d12	1220	23.357				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB168476BSD	SDG No.:	Q2314
Lab Sample ID:	PB168476BSD	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
BN037281.D	1	06/13/25 11:00	06/15/25 03:18	PB168476

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.28		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	0.32		30 - 150		81%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		85%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		89%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		58 - 132		90%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1070	7.575				
1146-65-2	Naphthalene-d8	2630	10.351				
15067-26-2	Acenaphthene-d10	1330	14.223				
1517-22-2	Phenanthrene-d10	2260	16.971				
1719-03-5	Chrysene-d12	1570	21.17				
1520-96-3	Perylene-d12	1280	23.354				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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D = Dilution
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CALIBRATION SUMMARY

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN061325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jun 13 18:43:34 2025
Response Via : Initial Calibration

Calibration Files
0.1 =BN037225.D 0.2 =BN037226.D 0.4 =BN037227.D 0.8 =BN037228.D 1.6 =BN037229.D 3.2 =BN037230.D 5.0 =BN037231.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		0.683	0.525	0.535	0.549	0.515	0.486	0.549	12.56
3)		n-Nitrosodimet...		1.357	1.277	1.208	1.295	1.232	1.134	1.250	6.18
4)	S	2-Fluorophenol	1.043	1.026	0.942	0.907	0.996	0.990	0.972	0.982	4.80
5)	S	Phenol-d6	0.875	0.937	0.963	0.986	1.148	1.166	1.173	1.035	11.94
6)		bis(2-Chloroet...	0.768	0.709	0.870	0.955	1.086	1.064	1.040	0.927	16.08
7)	I	Naphthalene-d8	----------ISTD----------								
8)	S	Nitrobenzene-d5	0.366	0.304	0.384	0.377	0.440	0.442	0.453	0.395	13.53
9)		Naphthalene	1.186	1.153	1.133	1.109	1.208	1.161	1.159	1.158	2.83
10)		Hexachlorobuta...	0.299	0.290	0.302	0.271	0.285	0.267	0.258	0.282	5.91
11)	SURR	2-Methylnaphth...	0.496	0.504	0.557	0.520	0.576	0.552	0.553	0.537	5.64
12)		2-Methylnaphth...	0.631	0.634	0.704	0.699	0.769	0.746	0.745	0.704	7.77
13)	I	Acenaphthene-d10	----------ISTD----------								
14)	S	2,4,6-Tribromo...	0.126	0.146	0.171	0.171	0.188	0.183	0.178	0.166	13.42
15)	S	2-Fluorobiphenyl	1.566	1.530	1.699	1.658	1.822	1.777	1.715	1.681	6.31
16)		Acenaphthylene	1.907	1.870	1.870	1.915	2.077	2.062	2.021	1.960	4.61
17)		Acenaphthene	1.242	1.209	1.240	1.230	1.341	1.318	1.277	1.265	3.87
18)		Fluorene	1.544	1.509	1.593	1.610	1.757	1.714	1.649	1.625	5.46
19)	I	Phenanthrene-d10	----------ISTD----------								
20)		4,6-Dinitro-2-...		0.074	0.066	0.086	0.100	0.110	0.116	0.092	21.86
21)		4-Bromophenyl-...	0.248	0.248	0.244	0.256	0.278	0.276	0.273	0.261	5.65
22)		Hexachlorobenzene	0.342	0.318	0.311	0.284	0.297	0.284	0.279	0.302	7.65
23)		Atrazine	0.223	0.229	0.222	0.228	0.241	0.241	0.244	0.232	3.84
24)		Pentachlorophenol		0.139	0.124	0.137	0.154	0.162	0.171	0.148	11.86
25)		Phenanthrene	1.253	1.225	1.186	1.238	1.324	1.328	1.327	1.269	4.54
26)		Anthracene	1.094	1.079	1.080	1.138	1.221	1.257	1.261	1.161	7.13
27)	SURR	Fluoranthene-d10	1.015	1.073	1.053	1.017	1.053	1.043	1.073	1.046	2.27
28)		Fluoranthene	1.470	1.508	1.412	1.449	1.509	1.510	1.537	1.485	2.94
29)	I	Chrysene-d12	----------ISTD----------								
30)		Pyrene	1.850	1.740	1.962	1.849	2.016	1.892	1.854	1.881	4.74
31)	S	Terphenyl-d14	0.815	0.845	0.946	0.871	0.990	0.939	0.924	0.904	6.89
32)		Benzo(a)anthra...	1.175	1.204	1.225	1.332	1.512	1.507	1.499	1.351	11.36
33)		Chrysene	1.783	1.722	1.695	1.617	1.711	1.633	1.616	1.683	3.73
34)		Bis(2-ethylhex...		1.104	1.024	1.000	1.006	0.942	0.960	1.006	5.65
35)	I	Perylene-d12	----------ISTD----------								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN061325.M

36)		Indeno(1,2,3-c...	1.506	1.503	1.507	1.486	1.718	1.757	1.813	1.613	8.87
37)		Benzo(b)fluora...	1.309	1.288	1.376	1.456	1.618	1.576	1.620	1.463	9.81
38)		Benzo(k)fluora...	1.835	1.503	1.628	1.667	1.757	1.704	1.728	1.689	6.24
39)	C	Benzo(a)pyrene	1.271	1.208	1.234	1.298	1.407	1.382	1.413	1.316	6.42
40)		Dibenzo(a,h)an...	1.106	1.102	1.049	1.118	1.362	1.425	1.427	1.227	13.76
41)		Benzo(g,h,i)pe...	1.504	1.460	1.441	1.386	1.557	1.566	1.557	1.496	4.63

(#) = Out of Range

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2314 SAS No.: Q2314 SDG No.: Q2314

Instrument ID: BNA_N Calibration Date/Time: 06/14/2025 22:31

Lab File ID: BN037273.D Init. Calib. Date(s): 06/13/2025 06/13/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 13:33 17:11

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.537	0.562		4.7	20.0
Fluoranthene-d10	1.047	1.055		0.9	20.0
2-Fluorophenol	0.982	0.959		-2.3	20.0
Phenol-d6	1.035	1.017		-1.7	20.0
Nitrobenzene-d5	0.395	0.415		5.1	20.0
2-Fluorobiphenyl	1.681	1.763		4.9	20.0
2,4,6-Tribromophenol	0.166	0.170		2.4	20.0
Terphenyl-d14	0.904	0.900		-0.4	20.0
1,4-Dioxane	0.549	0.499		-9.1	20.0

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2314 SAS No.: Q2314 SDG No.: Q2314

Instrument ID: BNA_N Calibration Date/Time: 06/15/2025 03:54

Lab File ID: BN037282.D Init. Calib. Date(s): 06/13/2025 06/13/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 13:33 17:11

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.537	0.562		4.7	50.0
Fluoranthene-d10	1.047	1.054		0.8	50.0
2-Fluorophenol	0.982	0.915		-6.8	50.0
Phenol-d6	1.035	1.040		0.5	50.0
Nitrobenzene-d5	0.395	0.420		6.3	50.0
2-Fluorobiphenyl	1.681	1.736		3.3	50.0
2,4,6-Tribromophenol	0.166	0.171		3.0	50.0
Terphenyl-d14	0.904	0.949		5.0	50.0
1,4-Dioxane	0.549	0.485		-11.7	50.0

All other compounds must meet a minimum RRF of 0.010.