



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	



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

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

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

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

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D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



QC SUMMARY

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	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	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	

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	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.: Q3292

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.: 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: _____

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.: Q3292
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.: Q3292
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
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

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.: Q3292
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-740-742MS	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.: 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.

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.

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.

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

Report of Analysis

Client: Tetra Tech NUS, Inc.
Project: NWIRP Bethpage 112G08005-WE13
Client Sample ID: PB170022BL
Lab Sample ID: PB170022BL
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.: Q3292
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	0.20	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

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D = Dilution

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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:	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								

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-740-742MS		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								

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-740-742MSD		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								

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



CALIBRATION SUMMARY

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-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>Q3292</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>Q3292</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: 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.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>TETR06</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3292</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.



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	Metals Group4	6010D	10/03/25	10/07/25	10/09/25	10/06/25
Q3292-02	RW8-SP303-20251003	Water	Metals Group4	6010D	10/03/25	10/07/25	10/09/25	10/06/25



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

Hit Summary Sheet
SW-846

SDG No.: Q3292

Order ID: Q3292

Client: Tetra Tech NUS, Inc.

Project ID: NWIRP Bethpage 112G08005-WE13

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : RW8-SP100-20251003									
Q3292-01	RW8-SP100-20251003	Water	Iron	704		11.7	40.0	50.0	ug/L
Client ID : RW8-SP303-20251003									
Q3292-02	RW8-SP303-20251003	Water	Iron	49.0	J	11.7	40.0	50.0	ug/L



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:	RW8-SP100-20251003	SDG No.:	Q3292
Lab Sample ID:	Q3292-01	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-89-6	Iron	704		1	11.7	40.0	50.0	ug/L	10/07/25 09:40	10/09/25 16:45	6010D	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Metals Group4			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N =Spiked sample recovery not within control limits

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
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-89-6	Iron	49.0	J	1	11.7	40.0	50.0	ug/L	10/07/25 09:40	10/09/25 16:50	6010D	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Metals Group4			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N =Spiked sample recovery not within control limits



METAL CALIBRATION DATA

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.

SDG No.: Q3292

Contract: TETR06

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Iron	4110	4000	103	90 - 110	P	10/09/2025	11:44	LB137484



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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client:	<u>Tetra Tech NUS, Inc.</u>	SDG No.:	<u>Q3292</u>
Contract:	<u>TETR06</u>	Lab Code:	<u>ACE</u>
Initial Calibration Source:	<u>EPA</u>		
Continuing Calibration Source:	<u>Inorganic Ventures</u>		

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Iron	105	100	105	80 - 120	P	10/09/2025	11:49	LB137484

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.

SDG No.: Q3292

Contract: TETR06

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Iron	5060	5000	101	90 - 110	P	10/09/2025	12:34	LB137484
CCV02	Iron	4790	5000	96	90 - 110	P	10/09/2025	14:16	LB137484
CCV03	Iron	4910	5000	98	90 - 110	P	10/09/2025	15:26	LB137484
CCV04	Iron	4790	5000	96	90 - 110	P	10/09/2025	16:26	LB137484
CCV05	Iron	4660	5000	93	90 - 110	P	10/09/2025	17:27	LB137484
CCV06	Iron	4910	5000	98	90 - 110	P	10/09/2025	18:16	LB137484
CCV07	Iron	5090	5000	102	90 - 110	P	10/09/2025	18:28	LB137484



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

Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: Tetra Tech NUS, Inc.

SDG No.: Q3292

Contract: TETR06

Lab Code: ACE

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Iron	112	100	112	65 - 135	P	10/09/2025	12:04	LB137484



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Fax : 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q3292

Contract: TETR06

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Iron	23.4	+/-50	U	80.0	100	P	10/09/2025	11:59	LB137484

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q3292

Contract: TETR06

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Iron	23.4	+/-50	U	80.0	100	P	10/09/2025	12:46	LB137484
CCB02	Iron	23.4	+/-50	U	80.0	100	P	10/09/2025	14:20	LB137484
CCB03	Iron	23.4	+/-50	U	80.0	100	P	10/09/2025	15:30	LB137484
CCB04	Iron	23.4	+/-50	U	80.0	100	P	10/09/2025	16:41	LB137484
CCB05	Iron	23.4	+/-50	U	80.0	100	P	10/09/2025	17:31	LB137484
CCB06	Iron	23.4	+/-50	U	80.0	100	P	10/09/2025	18:20	LB137484
CCB07	Iron	23.4	+/-50	U	80.0	100	P	10/09/2025	18:33	LB137484

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q3292

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB170009BL		WATER		Batch Number:		PB170009		Prep Date:	10/07/2025	
	Iron	11.7	<25	U	40.0	50.0	P	10/09/2025	18:11	LB137484

Metals

- 4 -

INTERFERENCE CHECK SAMPLE

Client: Tetra Tech NUS, Inc.

SDG No.: Q3292

Contract: TETR06

Lab Code: ACE

ICS Source: EPA

Instrument ID: P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Iron	98600	101000	98	85600	116500	10/09/2025	12:09	LB137484
ICSAB01	Iron	92400	99300	93	84400	114500	10/09/2025	12:19	LB137484



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client:	<u>Tetra Tech NUS, Inc.</u>	level:	<u>low</u>	sdg no.:	<u>Q3292</u>
contract:	<u>TETR06</u>			lab code:	<u>ACE</u>
matrix:	<u>Water</u>	sample id:	<u>Q3292-02</u>	client id:	<u>RW8-SP303-20251003MS</u>
Percent Solids for Sample:	NA	Spiked ID:	Q3292-02MS	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Iron	ug/L	87 - 115	1500		49.0	J	1500	96		P



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Fax : 908 789 8922

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client:

Tetra Tech NUS, Inc.

level:

low

sdg no.:

Q3292

contract:

TETR06

lab code:

ACE

matrix:

Water

sample id:

Q3292-02

client id:

RW8-SP303-20251003MSD

Percent Solids for Sample:

NA

Spiked ID:

Q3292-02MSD

Percent Solids for Spike Sample:

NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Iron	ug/L	87 - 115	1500		49.0	J	1500	97		P

Metals
- 5b -

Client: Tetra Tech NUS, Inc.

SDG No.: Q3292

Contract: TETR06

Lab Code: ACE

Matrix: _____

Level: LOW

Client ID: _____

Sample ID: _____ **Spiked ID:** _____

Analyte	Units	Acceptance Limit %R	C	Sample Result	C	Spike Added	% Recovery	Qual	M
---------	-------	------------------------	---	------------------	---	----------------	---------------	------	---

.....

A
B
C
D
E
F
G
H

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>Tetra Tech NUS, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q3292</u>
Contract:	<u>TETR06</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q3292-02</u>	Client ID:	<u>RW8-SP303-20251003DUP</u>
Percent Solids for Sample:	NA	Duplicate ID	Q3292-02DUP	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	49.0	J	46.2	J	6		P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>Tetra Tech NUS, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q3292</u>
Contract:	<u>TETR06</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q3292-02MS</u>	Client ID:	<u>RW8-SP303-20251003MSD</u>
Percent Solids for Sample:	NA	Duplicate ID	Q3292-02MSD	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	1500		1500		0		P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q3292

Contract: TETR06

Lab Code: ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB170009BS Iron	ug/L	1500	1540		103	87 - 115	P

Metals
-9 -
ICP SERIAL DILUTIONS

SAMPLE NO.

RW8-SP303-20251003L

Lab Name: Alliance

Contract: TETR06

Lab Code: ACE

Lb No.: lb137484

Lab Sample ID : Q3292-02L

SDG No.: Q3292

Matrix (soil/water): Water

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Differ- ence	Q	M
Iron	49.0 J	250 U	100.0		P



METAL PREPARATION & INSTRUMENT DATA

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q3292

Contract: TETR06

Lab Code: ACE

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Al	Ca	Fe	Mg	Ag
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q3292

Contract: TETR06

Lab Code: ACE

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		As	Ba	Be	Cd	Co
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q3292

Contract: TETR06

Lab Code: ACE

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Cr	Cu	K	Mn	Mo
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q3292

Contract: TETR06

Lab Code: ACE

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Na	Ni	Pb	Sb	Se
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q3292

Contract: TETR06

Lab Code: ACE

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Sn	Ti	Tl	V	Zn
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

METAL PREPARATION & ANALYICAL SUMMARY

Metals

- 13 -

SAMPLE PREPARATION SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q3292

Contract: TETR06

Lab Code: ACE

Method: _____

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB170009							
PB170009BL	PB170009BL	MB	WATER	10/07/2025	50.0	25.0	
PB170009BS	PB170009BS	LCS	WATER	10/07/2025	50.0	25.0	
Q3292-01	RW8-SP100-20251003	SAM	WATER	10/07/2025	50.0	25.0	
Q3292-02	RW8-SP303-20251003	SAM	WATER	10/07/2025	50.0	25.0	
Q3292-02DUP	RW8-SP303-20251003DUP	DUP	WATER	10/07/2025	50.0	25.0	
Q3292-02MS	RW8-SP303-20251003MS	MS	WATER	10/07/2025	50.0	25.0	
Q3292-02MSD	RW8-SP303-20251003MSD	MSD	WATER	10/07/2025	50.0	25.0	

metals
- 14 -
ANALYSIS RUN LOG

Client: Tetra Tech NUS, Inc.

Contract: TETR06

Lab code: ACE

Sdg no.: Q3292

Instrument id number: _____

Method: _____

Run number: LB137484

Start date: 10/09/2025

End date: 10/09/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1110	Fe
S1	S1	1	1115	Fe
S2	S2	1	1119	Fe
S3	S3	1	1123	Fe
S4	S4	1	1127	Fe
S5	S5	1	1131	Fe
ICV01	ICV01	1	1144	Fe
LLICV01	LLICV01	1	1149	Fe
ICB01	ICB01	1	1159	Fe
CRI01	CRI01	1	1204	Fe
ICSA01	ICSA01	1	1209	Fe
ICSAB01	ICSAB01	1	1219	Fe
CCV01	CCV01	1	1234	Fe
CCB01	CCB01	1	1246	Fe
CCV02	CCV02	1	1416	Fe
CCB02	CCB02	1	1420	Fe
PB170009BS	PB170009BS	1	1518	Fe
CCV03	CCV03	1	1526	Fe
CCB03	CCB03	1	1530	Fe
CCV04	CCV04	1	1626	Fe
CCB04	CCB04	1	1641	Fe
Q3292-01	RW8-SP100-20251003	1	1645	Fe
Q3292-02	RW8-SP303-20251003	1	1650	Fe
Q3292-02DUP	RW8-SP303-20251003DUP	1	1654	Fe
Q3292-02L	RW8-SP303-20251003L	5	1658	Fe
Q3292-02MS	RW8-SP303-20251003MS	1	1702	Fe
Q3292-02MSD	RW8-SP303-20251003MSD	1	1706	Fe
CCV05	CCV05	1	1727	Fe
CCB05	CCB05	1	1731	Fe
PB170009BL	PB170009BL	1	1811	Fe
CCV06	CCV06	1	1816	Fe
CCB06	CCB06	1	1820	Fe
CCV07	CCV07	1	1828	Fe
CCB07	CCB07	1	1833	Fe

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 13:05			10/06/25
			TDS	SM2540 C			10/06/25 15:30	
			TSS	SM2540 D			10/08/25 10:00	
Q3292-02	RW8-SP303-20251003	WATER			10/03/25 13:13			10/06/25
			TDS	SM2540 C			10/06/25 15:30	
			TSS	SM2540 D			10/08/25 10:00	



SAMPLE DATA

A

B

C

D

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/03/25 13:05
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
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TDS	4.00	J	1	1.00	10.0	10.0	mg/L		10/06/25 15:30	SM 2540 C-20
TSS	4.00	U	1	1.00	4.00	4.00	mg/L		10/08/25 10:00	SM 2540 D-20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/03/25 13:13
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
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TDS	1.00	J	1	1.00	10.0	10.0	mg/L		10/06/25 15:30	SM 2540 C-20
TSS	4.00	U	1	1.00	4.00	4.00	mg/L		10/08/25 10:00	SM 2540 D-20

Comments: _____

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

QC RESULT SUMMARY

Preparation Blank Summary

Client: Tetra Tech NUS, Inc.

SDG No.: Q3292

Project: NWIRP Bethpage 112G08005-WE13

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB137440BL TDS	mg/L	1	5.0000	J	1.0	10	10/06/2025
Sample ID: LB137455BL TSS	mg/L	< 2.0000	2.0000	U	1	4	10/08/2025

Duplicate Sample Summary

Client: Tetra Tech NUS, Inc.	SDG No.: Q3292
Project: NWIRP Bethpage 112G08005-WE13	Sample ID: Q3281-02
Client ID: 002-35TH-AVE(OCT)DUP	Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
TSS	mg/L	+/-5	26.4		26.2		1	0.76		10/08/2025

Duplicate Sample Summary

Client:	Tetra Tech NUS, Inc.	SDG No.:	Q3292
Project:	NWIRP Bethpage 112G08005-WE13	Sample ID:	Q3292-01
Client ID:	RW8-SP100-20251003DUP	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
TDS	mg/L	+/-5	4.00	J	4.00	J	1	0		10/06/2025

Laboratory Control Sample Summary

Client: Tetra Tech NUS, Inc.

SDG No.: Q3292

Project: NWIRP Bethpage 112G08005-WE13

Run No.: LB137440

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137440BS							
TDS	mg/L	100	95.0		95	1	90-110	10/06/2025

Laboratory Control Sample Summary

Client: Tetra Tech NUS, Inc.

SDG No.: Q3292

Project: NWIRP Bethpage 112G08005-WE13

Run No.: LB137455

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137455BS							
TSS	mg/L	550	531		96	1	90-110	10/08/2025