

LAB CHRONICLE

OrderID:	Q2745	OrderDate:	8/1/2025 10:26:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage - CTO WE13 1132341 WR6
Contact:	Ernie Wu	Location:	O41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2745-01	RW8-SP100-2025073 1	Water			07/31/25			08/01/25
			SVOC-SIMGroup1	8270-Modified		08/04/25	08/05/25	
Q2745-02	RW8-SP303-2025073 1	Water			07/31/25			08/01/25
			SVOC-SIMGroup1	8270-Modified		08/04/25	08/05/25	



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

Hit Summary Sheet
SW-846

SDG No.: Q2745
Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :				0.000					
Total Svoc :					0.00				
Total Concentration:					0.00				



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/31/25
Project:	NWIRP Bethpage - CTO WE13 1132341 WR6	Date Received:	08/01/25
Client Sample ID:	RW8-SP100-20250731	SDG No.:	Q2745
Lab Sample ID:	Q2745-01	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
BN037561.D	1	08/04/25 08:40	08/05/25 10:47	PB169094

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	0.32		30 - 150		79%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		85%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		96%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		114%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2320	7.717				
1146-65-2	Naphthalene-d8	5680	10.498				
15067-26-2	Acenaphthene-d10	2800	14.345				
1517-22-2	Phenanthrene-d10	5310	17.087				
1719-03-5	Chrysene-d12	4330	21.277				
1520-96-3	Perylene-d12	3860	23.508				

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:	07/31/25
Project:	NWIRP Bethpage - CTO WE13 1132341 WR6		Date Received:	08/01/25
Client Sample ID:	RW8-SP303-20250731		SDG No.:	Q2745
Lab Sample ID:	Q2745-02		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
BN037562.D	1	08/04/25 08:40	08/05/25 11:23	PB169094

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	0.30		30 - 150		75%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		88%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		80%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		90%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		58 - 132		116%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1760	7.724				
1146-65-2	Naphthalene-d8	4430	10.498				
15067-26-2	Acenaphthene-d10	2200	14.345				
1517-22-2	Phenanthrene-d10	4200	17.086				
1719-03-5	Chrysene-d12	3120	21.277				
1520-96-3	Perylene-d12	2700	23.508				

U = Not Detected

LOQ = Limit of Quantitation

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LOD = Limit of Detection

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QC SUMMARY

Surrogate Summary

SW-846

SDG No.: Q2745

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB169094BL	PB169094BL	2-Methylnaphthalene-d10	0.4	0.31	78		30	150
		Fluoranthene-d10	0.4	0.32	81		30	150
		Nitrobenzene-d5	0.4	0.35	88		55	111
		2-Fluorobiphenyl	0.4	0.38	94		53	106
		Terphenyl-d14	0.4	0.39	97		58	132
PB169094BS	PB169094BS	2-Methylnaphthalene-d10	0.4	0.34	85		30	150
		Fluoranthene-d10	0.4	0.31	77		30	150
		Nitrobenzene-d5	0.4	0.35	87		55	111
		2-Fluorobiphenyl	0.4	0.41	102		53	106
		Terphenyl-d14	0.4	0.36	90		58	132
PB169094BSD	PB169094BSD	2-Methylnaphthalene-d10	0.4	0.34	84		30	150
		Fluoranthene-d10	0.4	0.30	75		30	150
		Nitrobenzene-d5	0.4	0.35	88		55	111
		2-Fluorobiphenyl	0.4	0.40	100		53	106
		Terphenyl-d14	0.4	0.37	92		58	132
Q2745-01	RW8-SP100-20250731	2-Methylnaphthalene-d10	0.4	0.32	79		30	150
		Fluoranthene-d10	0.4	0.38	94		30	150
		Nitrobenzene-d5	0.4	0.34	85		55	111
		2-Fluorobiphenyl	0.4	0.38	96		53	106
		Terphenyl-d14	0.4	0.46	114		58	132
Q2745-02	RW8-SP303-20250731	2-Methylnaphthalene-d10	0.4	0.30	75		30	150
		Fluoranthene-d10	0.4	0.35	88		30	150
		Nitrobenzene-d5	0.4	0.32	80		55	111
		2-Fluorobiphenyl	0.4	0.36	90		53	106
		Terphenyl-d14	0.4	0.47	116		58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2745

Analytical Method: 8270-Modified

Client: Tetra Tech NUS, Inc.

DataFile: BN037566.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB169094BS	1,4-Dioxane	0.4	0.31	ug/L	78				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2745

Analytical Method: 8270-Modified

Client: Tetra Tech NUS, Inc.

DataFile: BN037567.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB169094BSD	1,4-Dioxane	0.4	0.29	ug/L	73	7			70	130	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID

PB169094BL

Lab Name: Alliance

Contract: TETR06

Lab Code: ACE

SDG NO.: Q2745

Lab File ID: BN037560.D

Lab Sample ID: PB169094BL

Instrument ID: BNA_N

Date Extracted: 08/04/2025

Matrix: (soil/water) Water

Date Analyzed: 08/05/2025

Level: (low/med) LOW

Time Analyzed: 10:11

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB169094BS	PB169094BS	BN037566.D	08/05/2025
RW8-SP100-20250731	Q2745-01	BN037561.D	08/05/2025
RW8-SP303-20250731	Q2745-02	BN037562.D	08/05/2025
PB169094BSD	PB169094BSD	BN037567.D	08/05/2025

COMMENTS: _____

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037497.D
Instrument ID: BNA_N

Contract: TETR06
SDG NO.: Q2745
DFTPP Injection Date: 07/15/2025
DFTPP Injection Time: 10:57

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.0 (0.0) 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	6.7
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	83.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.4 (19.4) 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	BN037499.D	07/15/2025	12:36
SSTDICC0.2	SSTDICC0.2	BN037500.D	07/15/2025	13:12
SSTDICCC0.4	SSTDICCC0.4	BN037501.D	07/15/2025	13:49
SSTDICC0.8	SSTDICC0.8	BN037502.D	07/15/2025	14:25
SSTDICC1.6	SSTDICC1.6	BN037503.D	07/15/2025	15:01
SSTDICC3.2	SSTDICC3.2	BN037504.D	07/15/2025	15:38
SSTDICC5.0	SSTDICC5.0	BN037505.D	07/15/2025	16:14

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037558.D
Instrument ID: BNA_N

Contract: TETR06
SDG NO.: Q2745
DFTPP Injection Date: 08/05/2025
DFTPP Injection Time: 08:56

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.4 (0.9) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.3 (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
441	Present, but less than mass 443	90.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14.5 (19.2) 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	BN037559.D	08/05/2025	09:35
PB169094BL	PB169094BL	BN037560.D	08/05/2025	10:11
RW8-SP100-20250731	Q2745-01	BN037561.D	08/05/2025	10:47
RW8-SP303-20250731	Q2745-02	BN037562.D	08/05/2025	11:23
PB169094BS	PB169094BS	BN037566.D	08/05/2025	13:47
PB169094BSD	PB169094BSD	BN037567.D	08/05/2025	14:23
SSTDCCC0.4EC	SSTDCCC0.4	BN037568.D	08/05/2025	15:03

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q2745

Client ID : SSTDCCC0.4

Date Analyzed: 08/05/2025

Lab File ID: BN037559.D

Time Analyzed: 09:35

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	2357	7.717	6191	10.50	3180	14.35
UPPER LIMIT	4714	8.217	12382	10.998	6360	14.845
LOWER LIMIT	1178.5	7.217	3095.5	9.998	1590	13.845
EPA SAMPLE NO.						
01 PB169094BL	2263	7.72	5525	10.50	2603	14.35
02 RW8-SP100-20250731	2323	7.72	5684	10.50	2801	14.35
03 RW8-SP303-20250731	1755	7.72	4432	10.50	2203	14.35
04 PB169094BS	1587	7.72	3862	10.50	1765	14.35
05 PB169094BSD	1690	7.72	4042	10.50	1850	14.35

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.: Q2745

Client ID: SSTDCCC0.4

Date Analyzed: 08/05/2025

Lab File ID: BN037559.D

Time Analyzed: 09:35

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	5684	17.086	4703	21.268	3993	23.505
UPPER LIMIT	11368	17.586	9406	21.768	7986	24.005
LOWER LIMIT	2842	16.586	2351.5	20.768	1996.5	23.005
EPA SAMPLE NO.						
01 PB169094BL	4745	17.09	3478	21.28	3099	23.51
02 RW8-SP100-20250731	5308	17.09	4328	21.28	3857	23.51
03 RW8-SP303-20250731	4201	17.09	3117	21.28	2700	23.51
04 PB169094BS	3214	17.09	2404	21.27	2051	23.51
05 PB169094BSD	3303	17.09	2343 *	21.27	2004	23.51

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



QC SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage - CTO WE13 1132341 WR6		Date Received:	
Client Sample ID:	PB169094BL		SDG No.:	Q2745
Lab Sample ID:	PB169094BL		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
BN037560.D	1	08/04/25 08:40	08/05/25 10:11	PB169094

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	0.31		30 - 150		78%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 - 150		81%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		94%	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	2260	7.724				
1146-65-2	Naphthalene-d8	5530	10.498				
15067-26-2	Acenaphthene-d10	2600	14.345				
1517-22-2	Phenanthrene-d10	4750	17.086				
1719-03-5	Chrysene-d12	3480	21.277				
1520-96-3	Perylene-d12	3100	23.507				

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J = Estimated Value

B = Analyte Found in Associated Method Blank

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D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage - CTO WE13 1132341 WR6		Date Received:	
Client Sample ID:	PB169094BS		SDG No.:	Q2745
Lab Sample ID:	PB169094BS		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
BN037566.D	1	08/04/25 08:40	08/05/25 13:47	PB169094

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.31		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		85%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.31		30 - 150		77%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		87%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.41		53 - 106		102%	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	1590	7.717				
1146-65-2	Naphthalene-d8	3860	10.498				
15067-26-2	Acenaphthene-d10	1770	14.345				
1517-22-2	Phenanthrene-d10	3210	17.087				
1719-03-5	Chrysene-d12	2400	21.268				
1520-96-3	Perylene-d12	2050	23.508				

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage - CTO WE13 1132341 WR6	Date Received:	
Client Sample ID:	PB169094BSD	SDG No.:	Q2745
Lab Sample ID:	PB169094BSD	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
BN037567.D	1	08/04/25 08:40	08/05/25 14:23	PB169094

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.29		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		84%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.30		30 - 150		75%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		100%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		58 - 132		92%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1690	7.717				
1146-65-2	Naphthalene-d8	4040	10.498				
15067-26-2	Acenaphthene-d10	1850	14.345				
1517-22-2	Phenanthrene-d10	3300	17.086				
1719-03-5	Chrysene-d12	2340	21.268				
1520-96-3	Perylene-d12	2000	23.508				

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A = Aldol-Condensation Reaction Products



CALIBRATION SUMMARY

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN071525.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Jul 16 02:38:11 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN037499.D 0.2 =BN037500.D 0.4 =BN037501.D 0.8 =BN037502.D 1.6 =BN037503.D 3.2 =BN037504.D 5 =BN037505.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	0.409	0.395	0.371	0.398	0.380	0.354	0.385		5.29
3)	n-Nitrosodimet...	0.466	0.464	0.465	0.508	0.499	0.501	0.484		4.31
4) S	2-Fluorophenol	1.038	1.011	0.985	0.908	0.982	0.971	1.030	0.989	4.42
5) S	Phenol-d6	1.448	1.238	1.190	1.105	1.201	1.229	1.275	1.241	8.52
6)	bis(2-Chloroet...	1.082	1.052	1.024	0.983	1.037	1.033	1.016	1.033	2.99
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.311	0.288	0.283	0.270	0.300	0.305	0.336	0.299	7.20
9)	Naphthalene	1.069	1.054	1.046	1.009	1.091	1.073	1.126	1.067	3.45
10)	Hexachlorobuta...	0.229	0.237	0.235	0.223	0.245	0.236	0.246	0.236	3.44
11) SURR2	Methylnaphth...	0.556	0.534	0.541	0.522	0.562	0.590	0.711	0.574	11.24
12)	2-Methylnaphth...	0.704	0.655	0.678	0.665	0.716	0.736	0.756	0.701	5.34
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.197	0.173	0.173	0.176	0.194	0.215	0.248	0.197	13.98
15) S	2-Fluorobiphenyl	1.818	1.794	2.045	2.024	2.277	2.205	2.397	2.080	10.91
16)	Acenaphthylene	1.723	1.708	1.719	1.684	1.830	1.895	1.981	1.792	6.30
17)	Acenaphthene	1.239	1.160	1.172	1.150	1.238	1.251	1.320	1.218	5.03
18)	Fluorene	1.592	1.488	1.485	1.486	1.605	1.606	1.717	1.569	5.56
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.044	0.041	0.047	0.057	0.070	0.080	0.057		27.89
21)	4-Bromophenyl-...	0.248	0.247	0.243	0.242	0.268	0.272	0.274	0.256	5.58
22)	Hexachlorobenzene	0.315	0.330	0.328	0.321	0.345	0.340	0.338	0.331	3.26
23)	Atrazine	0.173	0.161	0.159	0.158	0.181	0.200	0.220	0.179	13.24
24)	Pentachlorophenol	0.131	0.125	0.126	0.151	0.170	0.189	0.149		17.64
25)	Phenanthrene	1.167	1.163	1.160	1.129	1.248	1.248	1.273	1.198	4.70
26)	Anthracene	1.025	1.025	1.013	1.023	1.160	1.176	1.232	1.093	8.45
27) SURR	Fluoranthene-d10	1.023	0.998	0.962	0.928	1.041	1.078	1.385	1.060	14.34
28)	Fluoranthene	1.358	1.310	1.290	1.270	1.429	1.431	1.585	1.382	7.96
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.754	1.559	1.607	1.549	1.607	1.665	1.539	1.612	4.74
31) S	Terphenyl-d14	0.926	0.815	0.844	0.811	0.854	0.902	0.865	0.859	4.94
32)	Benzo(a)anthra...	1.414	1.357	1.341	1.285	1.429	1.464	1.517	1.401	5.63
33)	Chrysene	1.452	1.461	1.434	1.358	1.488	1.490	1.528	1.459	3.70
34)	Bis(2-ethylhex...	0.603	0.564	0.538	0.603	0.693	0.779	0.630		14.26
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN071525.M

36)	Indeno(1,2,3-c...	1.493	1.528	1.514	1.559	1.771	1.805	1.991	1.666	11.48
37)	Benzo(b)fluora...	1.464	1.378	1.454	1.436	1.589	1.617	1.692	1.518	7.53
38)	Benzo(k)fluora...	1.516	1.420	1.486	1.470	1.661	1.689	1.724	1.567	7.75
39) C	Benzo(a)pyrene	1.189	1.152	1.192	1.176	1.320	1.369	1.469	1.267	9.51
40)	Dibenzo(a,h)an...	1.201	1.218	1.216	1.256	1.444	1.483	1.627	1.349	12.46
41)	Benzo(g,h,i)pe...	1.247	1.283	1.309	1.297	1.482	1.497	1.663	1.397	10.98

(#) = Out of Range

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: TETR06
Lab Code: ACE SDG No.: Q2745
Instrument ID: BNA_N Calibration Date/Time: 08/05/2025 09:35
Lab File ID: BN037559.D Init. Calib. Date(s): 07/15/2025 07/15/2025
EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 12:36 16:14
GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.574	0.515		-10.3	20.0
Fluoranthene-d10	1.060	0.889		-16.1	20.0
2-Fluorophenol	0.989	0.880		-11.0	20.0
Phenol-d6	1.241	1.098		-11.5	20.0
Nitrobenzene-d5	0.299	0.279		-6.7	20.0
2-Fluorobiphenyl	2.080	2.181		4.9	20.0
2,4,6-Tribromophenol	0.197	0.140		-28.9	20.0
Terphenyl-d14	0.859	0.738		-14.1	20.0
1,4-Dioxane	0.385	0.404		4.9	20.0

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.: Q2745
 Instrument ID: BNA_N Calibration Date/Time: 08/05/2025 15:03
 Lab File ID: BN037568.D Init. Calib. Date(s): 07/15/2025 07/15/2025
 EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 12:36 16:14
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.574	0.505		-12.0	50.0
Fluoranthene-d10	1.060	0.905		-14.6	50.0
2-Fluorophenol	0.989	0.840		-15.1	50.0
Phenol-d6	1.241	1.017		-18.0	50.0
Nitrobenzene-d5	0.299	0.288		-3.7	50.0
2-Fluorobiphenyl	2.080	2.112		1.5	50.0
2,4,6-Tribromophenol	0.197	0.145		-26.4	50.0
Terphenyl-d14	0.859	0.819		-4.7	50.0
1,4-Dioxane	0.385	0.388		0.8	50.0

All other compounds must meet a minimum RRF of 0.010.

LAB CHRONICLE

OrderID:	Q2745	OrderDate:	8/1/2025 10:26:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage - CTO WE13 1132341 WR6
Contact:	Ernie Wu	Location:	O41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2745-01	RW8-SP100-2025073 1	Water			07/31/25			08/01/25
			Metals Group4	6010D		08/04/25	08/04/25	
Q2745-02	RW8-SP303-2025073 1	Water			07/31/25			08/01/25
			Metals Group4	6010D		08/04/25	08/04/25	



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Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.:	Q2745	Order ID:	Q2745
Client:	Tetra Tech NUS, Inc.	Project ID:	NWIRP Bethpage - CTO WE13 1132341 W

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	RW8-SP303-20250731								
Q2745-02	RW8-SP303-20250731	Water	Iron	42.8	J	11.7	40.0	50.0	ug/L



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/31/25
Project:	NWIRP Bethpage - CTO WE13 1132341 WR6	Date Received:	08/01/25
Client Sample ID:	RW8-SP100-20250731	SDG No.:	Q2745
Lab Sample ID:	Q2745-01	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	40.0	UN	1	11.7	40.0	50.0	ug/L	08/04/25 10:10	08/04/25 17:08	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:	07/31/25
Project:	NWIRP Bethpage - CTO WE13 1132341 WR6	Date Received:	08/01/25
Client Sample ID:	RW8-SP303-20250731	SDG No.:	Q2745
Lab Sample ID:	Q2745-02	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	42.8	JN	1	11.7	40.0	50.0	ug/L	08/04/25 10:10	08/04/25 17:12	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.: Q2745

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	3980	4000	100	90 - 110	P	08/04/2025	11:41	LB136697

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.

SDG No.: Q2745

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
LLICV01	Iron	102	100	102	80 - 120	P	08/04/2025	11:45	LB136697

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.

SDG No.: Q2745

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	4860	5000	97	90 - 110	P	08/04/2025	12:25	LB136697
CCV02	Iron	4930	5000	99	90 - 110	P	08/04/2025	13:37	LB136697
CCV03	Iron	4990	5000	100	90 - 110	P	08/04/2025	14:43	LB136697
CCV04	Iron	4900	5000	98	90 - 110	P	08/04/2025	15:48	LB136697
CCV05	Iron	5040	5000	101	90 - 110	P	08/04/2025	16:51	LB136697
CCV06	Iron	5210	5000	104	90 - 110	P	08/04/2025	17:41	LB136697
CCV07	Iron	5150	5000	103	90 - 110	P	08/04/2025	17:58	LB136697

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.

SDG No.: Q2745

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	4000	4000	100	90 - 110	P	08/06/2025	11:55	LB136729

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.

SDG No.: Q2745

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
LLICV01	Iron	108	100	108	80 - 120	P	08/06/2025	12:09	LB136729

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.

SDG No.: Q2745

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	4990	5000	100	90 - 110	P	08/06/2025	12:47	LB136729
CCV02	Iron	4940	5000	99	90 - 110	P	08/06/2025	13:37	LB136729
CCV03	Iron	5270	5000	106	90 - 110	P	08/06/2025	14:49	LB136729



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Fax : 908 789 8922

Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: Tetra Tech NUS, Inc.

SDG No.: Q2745

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	111	100	111	65 - 135	P	08/04/2025	11:57	LB136697
CRI01	Iron	97.9	100	98	65 - 135	P	08/06/2025	12:26	LB136729



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Fax : 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q2745

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	08/04/2025	11:52	LB136697

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q2745

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	08/04/2025	12:29	LB136697
CCB02	Iron	23.4	+/-50	U	80.0	100	P	08/04/2025	13:41	LB136697
CCB03	Iron	23.4	+/-50	U	80.0	100	P	08/04/2025	14:54	LB136697
CCB04	Iron	23.4	+/-50	U	80.0	100	P	08/04/2025	15:53	LB136697
CCB05	Iron	23.4	+/-50	U	80.0	100	P	08/04/2025	16:55	LB136697
CCB06	Iron	23.4	+/-50	U	80.0	100	P	08/04/2025	17:45	LB136697
CCB07	Iron	23.4	+/-50	U	80.0	100	P	08/04/2025	18:02	LB136697

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q2745

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	08/06/2025	12:21	LB136729

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q2745

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	08/06/2025	12:52	LB136729
CCB02	Iron	23.4	+/-50	U	80.0	100	P	08/06/2025	13:52	LB136729
CCB03	Iron	23.4	+/-50	U	80.0	100	P	08/06/2025	14:53	LB136729

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q2745

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB169098BL		WATER		Batch Number:		PB169098		Prep Date:	08/04/2025	
	Iron	11.7	<25	U	40.0	50.0	P	08/06/2025	12:57	LB136729

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: <u>Tetra Tech NUS, Inc.</u>	SDG No.: <u>Q2745</u>
Contract: <u>TETR06</u>	Lab Code: <u>ACE</u>
ICS Source: <u>EPA</u>	Instrument ID: <u>P4</u>

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	98400	101000	97	85600	116500	08/04/2025	12:01	LB136697
ICSAB01	Iron	101000	99300	102	84400	114500	08/04/2025	12:05	LB136697
ICSA01	Iron	102000	101000	101	85600	116500	08/06/2025	12:31	LB136729
ICSAB01	Iron	101000	99300	102	84400	114500	08/06/2025	12:35	LB136729



METAL QC DATA



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metals
- 5a -
MATRIX SPIKE SUMMARY

client:

Tetra Tech NUS, Inc.

contract:

TETR06

matrix:

Water

level:

low

sdg no.:

Q2745

lab code:

ACE

sample id:

Q2756-01

client id:

71725MS

Percent Solids for Sample:

NA

Spiked ID:

Q2756-01MS

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	6750		5880		1500	58	N	P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client:	Tetra Tech NUS, Inc.	level:	low	sdg no.:	Q2745
contract:	TETR06			lab code:	ACE
matrix:	Water	sample id:	Q2756-01	client id:	71725MSD
Percent Solids for Sample:	NA	Spiked ID:	Q2756-01MSD	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	7070		5880		1500	79	N	P

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client:	<u>Tetra Tech NUS, Inc.</u>	SDG No.:	<u>Q2745</u>
Contract:	<u>TETR06</u>	Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Level:	<u>LOW</u>
Sample ID:	<u>Q2756-01</u>	Client ID:	<u>71725A</u>
Spiked ID:	<u>Q2756-01A</u>		

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Iron	ug/L	87 - 115	7270		5880		1500	93		P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>Tetra Tech NUS, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2745</u>
Contract:	<u>TETR06</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q2756-01</u>	Client ID:	<u>71725DUP</u>
Percent Solids for Sample:	NA	Duplicate ID	Q2756-01DUP	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	5880		5820		1		P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>Tetra Tech NUS, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2745</u>
Contract:	<u>TETR06</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q2756-01MS</u>	Client ID:	<u>71725MSD</u>
Percent Solids for Sample:	NA	Duplicate ID	Q2756-01MSD	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	6750		7070		5		P

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q2745

Contract: TETR06

Lab Code: ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB169098BS Iron	ug/L	1500	1550		103	87 - 115	P

Metals
-9 -
ICP SERIAL DILUTIONS

SAMPLE NO.

71725L

Lab Name: Alliance

Contract: TETR06

Lab Code: ACE

Lb No.: lb136729

Lab Sample ID : Q2756-01L

SDG No.: Q2745

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	5880	5280	10		P



METAL PREPARATION & INSTRUMENT DATA

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q2745

Contract: TETR06

Lab Code: ACE

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement 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.: Q2745

Contract: TETR06

Lab Code: ACE

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement 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.: Q2745

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.: Q2745

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.: Q2745

Contract: TETR06

Lab Code: ACE

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement 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.: Q2745

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: PB169098							
PB169098BL	PB169098BL	MB	WATER	08/04/2025	50.0	25.0	
PB169098BS	PB169098BS	LCS	WATER	08/04/2025	50.0	25.0	
Q2745-01	RW8-SP100-20250731	SAM	WATER	08/04/2025	50.0	25.0	
Q2745-02	RW8-SP303-20250731	SAM	WATER	08/04/2025	50.0	25.0	
Q2756-01DUP	71725DUP	DUP	WATER	08/04/2025	50.0	25.0	
Q2756-01MS	71725MS	MS	WATER	08/04/2025	50.0	25.0	
Q2756-01MSD	71725MSD	MSD	WATER	08/04/2025	50.0	25.0	

metals
- 14 -
ANALYSIS RUN LOG

Client: Tetra Tech NUS, Inc.

Contract: TETR06

Lab code: ACE

Sdg no.: Q2745

Instrument id number: _____

Method: _____

Run number: LB136697

Start date: 08/04/2025

End date: 08/04/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1115	Fe
S1	S1	1	1120	Fe
S2	S2	1	1124	Fe
S3	S3	1	1128	Fe
S4	S4	1	1132	Fe
S5	S5	1	1136	Fe
ICV01	ICV01	1	1141	Fe
LLICV01	LLICV01	1	1145	Fe
ICB01	ICB01	1	1152	Fe
CRI01	CRI01	1	1157	Fe
ICSA01	ICSA01	1	1201	Fe
ICSAB01	ICSAB01	1	1205	Fe
CCV01	CCV01	1	1225	Fe
CCB01	CCB01	1	1229	Fe
CCV02	CCV02	1	1337	Fe
CCB02	CCB02	1	1341	Fe
CCV03	CCV03	1	1443	Fe
CCB03	CCB03	1	1454	Fe
CCV04	CCV04	1	1548	Fe
CCB04	CCB04	1	1553	Fe
CCV05	CCV05	1	1651	Fe
CCB05	CCB05	1	1655	Fe
Q2745-01	RW8-SP100-20250731	1	1708	Fe
Q2745-02	RW8-SP303-20250731	1	1712	Fe
CCV06	CCV06	1	1741	Fe
CCB06	CCB06	1	1745	Fe
CCV07	CCV07	1	1758	Fe
CCB07	CCB07	1	1802	Fe

metals
- 14 -
ANALYSIS RUN LOG

Client: Tetra Tech NUS, Inc.

Contract: TETR06

Lab code: ACE

Sdg no.: Q2745

Instrument id number: _____

Method: _____

Run number: LB136729

Start date: 08/06/2025

End date: 08/06/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1130	Fe
S1	S1	1	1135	Fe
S2	S2	1	1139	Fe
S3	S3	1	1143	Fe
S4	S4	1	1147	Fe
S5	S5	1	1151	Fe
ICV01	ICV01	1	1155	Fe
LLICV01	LLICV01	1	1209	Fe
ICB01	ICB01	1	1221	Fe
CRI01	CRI01	1	1226	Fe
ICSA01	ICSA01	1	1231	Fe
ICSAB01	ICSAB01	1	1235	Fe
CCV01	CCV01	1	1247	Fe
CCB01	CCB01	1	1252	Fe
PB169098BL	PB169098BL	1	1257	Fe
PB169098BS	PB169098BS	1	1301	Fe
Q2756-01DUP	71725DUP	1	1314	Fe
Q2756-01L	71725L	5	1318	Fe
Q2756-01MS	71725MS	1	1322	Fe
Q2756-01MSD	71725MSD	1	1329	Fe
Q2756-01A	71725A	1	1333	Fe
CCV02	CCV02	1	1337	Fe
CCB02	CCB02	1	1352	Fe
CCV03	CCV03	1	1449	Fe
CCB03	CCB03	1	1453	Fe

LAB CHRONICLE

OrderID:	Q2745	OrderDate:	8/1/2025 10:26:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage - CTO WE13 1132341 WR6
Contact:	Ernie Wu	Location:	O41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2745-02	RW8-SP303-2025073 1	WATER			07/31/25 13:13			08/01/25
			TDS	SM2540 C			08/04/25 12:30	
			TSS	SM2540 D			08/06/25 10:30	



SAMPLE DATA

A

B

C

D

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/31/25 13:13
Project:	NWIRP Bethpage - CTO WE13 1132341 WR6	Date Received:	08/01/25
Client Sample ID:	RW8-SP303-20250731	SDG No.:	Q2745
Lab Sample ID:	Q2745-02	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TDS	19.0		1	1.00	10.0	10.0	mg/L		08/04/25 12:30	SM 2540 C-20
TSS	4.00	U	1	1.00	4.00	4.00	mg/L		08/06/25 10:30	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.: Q2745

Project: NWIRP Bethpage - CTO WE13 1132341 WR6

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB136685BL							
TDS	mg/L	1	5.0000	J	1.0	10	08/04/2025
Sample ID: LB136718BL							
TSS	mg/L	1	2.0000	J	1	4	08/06/2025

Duplicate Sample Summary

Client:	Tetra Tech NUS, Inc.	SDG No.:	Q2745
Project:	NWIRP Bethpage - CTO WE13 1132341 WR6	Sample ID:	Q2745-02
Client ID:	RW8-SP303-20250731DUP	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	19.0		19.0		1	0		08/04/2025

Duplicate Sample Summary

Client:	Tetra Tech NUS, Inc.	SDG No.:	Q2745
Project:	NWIRP Bethpage - CTO WE13 1132341 WR6	Sample ID:	Q2759-04
Client ID:	LIQUID-DRUMSDUP	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	1580		1620		1	2.5		08/06/2025

Laboratory Control Sample Summary

Client:	Tetra Tech NUS, Inc.	SDG No.:	Q2745
Project:	NWIRP Bethpage - CTO WE13 1132341 WR6	Run No.:	LB136685

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136685BS							
TDS	mg/L	100	96.0		96	1	90-110	08/04/2025

Laboratory Control Sample Summary

Client: Tetra Tech NUS, Inc.

SDG No.: Q2745

Project: NWIRP Bethpage - CTO WE13 1132341 WR6

Run No.: LB136718

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136718BS							
TSS	mg/L	550	531		96	1	90-110	08/06/2025