

LAB CHRONICLE

OrderID:	Q2805	OrderDate:	8/8/2025 9:48:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	J22

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2805-01	RW8-SP100-20250807	Water			08/07/25			08/08/25
			Metals Group4	6010D		08/08/25	08/11/25	
Q2805-02	RW8-SP303-20250807	Water			08/07/25			08/08/25
			Metals Group4	6010D		08/08/25	08/11/25	



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Hit Summary Sheet
SW-846

SDG No.:	Q2805	Order ID:	Q2805
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-SP100-20250807									
Q2805-01	RW8-SP100-20250807	Water	Iron	599		11.7	40.0	50.0	ug/L
Client ID : RW8-SP303-20250807									
Q2805-02	RW8-SP303-20250807	Water	Iron	33.3	J	11.7	40.0	50.0	ug/L



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	08/07/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	08/08/25
Client Sample ID:	RW8-SP100-20250807	SDG No.:	Q2805
Lab Sample ID:	Q2805-01	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	599		1	11.7	40.0	50.0	ug/L	08/08/25 11:10	08/11/25 18:05	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:	08/07/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	08/08/25
Client Sample ID:	RW8-SP303-20250807	SDG No.:	Q2805
Lab Sample ID:	Q2805-02	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	33.3	J	1	11.7	40.0	50.0	ug/L	08/08/25 11:10	08/11/25 18:09	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.: Q2805

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	3930	4000	98	90 - 110	P	08/11/2025	16:44	LB136779

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.

SDG No.: Q2805

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	84.3	100	84	80 - 120	P	08/11/2025	16:49	LB136779

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.

SDG No.: Q2805

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	4850	5000	97	90 - 110	P	08/11/2025	17:19	LB136779
CCV02	Iron	4960	5000	99	90 - 110	P	08/11/2025	17:44	LB136779
CCV03	Iron	4910	5000	98	90 - 110	P	08/11/2025	18:26	LB136779
CCV04	Iron	4970	5000	99	90 - 110	P	08/11/2025	18:59	LB136779



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Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: Tetra Tech NUS, Inc.

SDG No.: Q2805

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	83.7	100	84	65 - 135	P	08/11/2025	16:58	LB136779



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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q2805

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	08/11/2025	16:54	LB136779

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q2805

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	08/11/2025	17:23	LB136779
CCB02	Iron	23.4	+/-50	U	80.0	100	P	08/11/2025	17:48	LB136779
CCB03	Iron	23.4	+/-50	U	80.0	100	P	08/11/2025	18:30	LB136779
CCB04	Iron	23.4	+/-50	U	80.0	100	P	08/11/2025	19:03	LB136779

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q2805

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB169154BL		WATER		Batch Number:		PB169154		Prep Date:	08/08/2025	
	Iron	11.7	<25	U	40.0	50.0	P	08/11/2025	17:52	LB136779

Metals

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INTERFERENCE CHECK SAMPLE

Client: Tetra Tech NUS, Inc.

SDG No.: Q2805

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	97400	101000	96	85600	116500	08/11/2025	17:02	LB136779
ICSAB01	Iron	97900	99300	99	84400	114500	08/11/2025	17:06	LB136779



METAL QC DATA



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metals
- 5a -
MATRIX SPIKE SUMMARY

client:

Tetra Tech NUS, Inc.

contract:

TETR06

matrix:

Water

level:

low

sample id:

Q2805-02

sdg no.:

Q2805

lab code:

ACE

client id:

RW8-SP303-20250807MS

Percent Solids for Sample:

NA

Spiked ID:

Q2805-02MS

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	1540		33.3	J	1500	100		P



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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Tetra Tech NUS, Inc. level: low sdg no.: Q2805
contract: TETR06 lab code: ACE
matrix: Water sample id: Q2805-02 client id: RW8-SP303-20250807MSD
Percent Solids for Sample: NA Spiked ID: Q2805-02MSD 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	1510		33.3	J	1500	98		P

Metals
- 5b -

Client: Tetra Tech NUS, Inc.

SDG No.: Q2805

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
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.....

A
B
C
D
E
F
G
H

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>Tetra Tech NUS, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2805</u>
Contract:	<u>TETR06</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q2805-02</u>	Client ID:	<u>RW8-SP303-20250807DUP</u>
Percent Solids for Sample:	NA	Duplicate ID	Q2805-02DUP	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	33.3	J	34.9	J	5		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>Tetra Tech NUS, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2805</u>
Contract:	<u>TETR06</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q2805-02MS</u>	Client ID:	<u>RW8-SP303-20250807MSD</u>
Percent Solids for Sample:	NA	Duplicate ID	Q2805-02MSD	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	1540		1510		2		P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q2805

Contract: TETR06

Lab Code: ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB169154BS Iron	ug/L	1500	1500		100	87 - 115	P

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

RW8-SP303-20250807L

Lab Name: Alliance

Contract: TETR06

Lab Code: ACE

Lb No.: lb136779

Lab Sample ID : Q2805-02L

SDG No.: Q2805

Matrix (soil/water): Water

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Differ- ence	Q	M
Iron	33.3	J	250	U	100.0		P



METAL PREPARATION & INSTRUMENT DATA

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q2805

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.: Q2805

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.: Q2805

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

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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q2805

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

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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q2805

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

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SAMPLE PREPARATION SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q2805

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: PB169154							
PB169154BL	PB169154BL	MB	WATER	08/08/2025	50.0	25.0	
PB169154BS	PB169154BS	LCS	WATER	08/08/2025	50.0	25.0	
Q2805-01	RW8-SP100-20250807	SAM	WATER	08/08/2025	50.0	25.0	
Q2805-02	RW8-SP303-20250807	SAM	WATER	08/08/2025	50.0	25.0	
Q2805-02DUP	RW8-SP303-20250807DUP	DUP	WATER	08/08/2025	50.0	25.0	
Q2805-02MS	RW8-SP303-20250807MS	MS	WATER	08/08/2025	50.0	25.0	
Q2805-02MSD	RW8-SP303-20250807MSD	MSD	WATER	08/08/2025	50.0	25.0	

metals
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ANALYSIS RUN LOG

Client: Tetra Tech NUS, Inc.

Contract: TETR06

Lab code: ACE

Sdg no.: Q2805

Instrument id number: _____

Method: _____

Run number: LB136779

Start date: 08/11/2025

End date: 08/11/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1619	Fe
S1	S1	1	1623	Fe
S2	S2	1	1627	Fe
S3	S3	1	1631	Fe
S4	S4	1	1636	Fe
S5	S5	1	1640	Fe
ICV01	ICV01	1	1644	Fe
LLICV01	LLICV01	1	1649	Fe
ICB01	ICB01	1	1654	Fe
CRI01	CRI01	1	1658	Fe
ICSA01	ICSA01	1	1702	Fe
ICSAB01	ICSAB01	1	1706	Fe
CCV01	CCV01	1	1719	Fe
CCB01	CCB01	1	1723	Fe
CCV02	CCV02	1	1744	Fe
CCB02	CCB02	1	1748	Fe
PB169154BL	PB169154BL	1	1752	Fe
PB169154BS	PB169154BS	1	1757	Fe
Q2805-01	RW8-SP100-20250807	1	1805	Fe
Q2805-02	RW8-SP303-20250807	1	1809	Fe
Q2805-02DUP	RW8-SP303-20250807DUP	1	1814	Fe
Q2805-02L	RW8-SP303-20250807L	5	1818	Fe
Q2805-02MS	RW8-SP303-20250807MS	1	1822	Fe
CCV03	CCV03	1	1826	Fe
CCB03	CCB03	1	1830	Fe
Q2805-02MSD	RW8-SP303-20250807MSD	1	1835	Fe
CCV04	CCV04	1	1859	Fe
CCB04	CCB04	1	1903	Fe