

LAB CHRONICLE

OrderID:	Q3237	OrderDate:	9/29/2025 11:28:00 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
Q3237-01	RW8-SP100-2025092 6	Water			09/26/25			09/29/25
			Metals Group4	6010D		09/30/25	10/01/25	
Q3237-02	RW8-SP303-2025092 6	Water			09/26/25			09/29/25
			Metals Group4	6010D		09/30/25	10/01/25	



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

SDG No.:	Q3237	Order ID:	Q3237
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 : Q3237-01	RW8-SP100-20250926 RW8-SP100-20250926	Water	Iron	693		11.7	40.0	50.0	ug/L
Client ID : Q3237-02	RW8-SP303-20250926 RW8-SP303-20250926	Water	Iron	51.3		11.7	40.0	50.0	ug/L



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	09/26/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/29/25
Client Sample ID:	RW8-SP100-20250926	SDG No.:	Q3237
Lab Sample ID:	Q3237-01	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	693		1	11.7	40.0	50.0	ug/L	09/30/25 10:35	10/01/25 17:54	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:	09/26/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/29/25
Client Sample ID:	RW8-SP303-20250926	SDG No.:	Q3237
Lab Sample ID:	Q3237-02	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	51.3		1	11.7	40.0	50.0	ug/L	09/30/25 10:35	10/01/25 17:58	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.: Q3237

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	3860	4000	96	90 - 110	P	10/01/2025	12:33	LB137389

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.

SDG No.: Q3237

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	107	100	107	80 - 120	P	10/01/2025	12:41	LB137389

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.

SDG No.: Q3237

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	4920	5000	98	90 - 110	P	10/01/2025	13:10	LB137389
CCV02	Iron	4910	5000	98	90 - 110	P	10/01/2025	14:02	LB137389
CCV03	Iron	4980	5000	100	90 - 110	P	10/01/2025	15:00	LB137389
CCV04	Iron	4960	5000	99	90 - 110	P	10/01/2025	15:51	LB137389
CCV05	Iron	4990	5000	100	90 - 110	P	10/01/2025	16:42	LB137389
CCV06	Iron	4940	5000	99	90 - 110	P	10/01/2025	17:32	LB137389
CCV07	Iron	5110	5000	102	90 - 110	P	10/01/2025	18:28	LB137389
CCV08	Iron	4870	5000	97	90 - 110	P	10/01/2025	19:19	LB137389



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Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: Tetra Tech NUS, Inc.

SDG No.: Q3237

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	103	100	103	65 - 135	P	10/01/2025	12:49	LB137389



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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q3237

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	10/01/2025	12:45	LB137389

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q3237

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	10/01/2025	13:14	LB137389
CCB02	Iron	23.4	+/-50	U	80.0	100	P	10/01/2025	14:06	LB137389
CCB03	Iron	23.4	+/-50	U	80.0	100	P	10/01/2025	15:04	LB137389
CCB04	Iron	23.4	+/-50	U	80.0	100	P	10/01/2025	15:55	LB137389
CCB05	Iron	23.4	+/-50	U	80.0	100	P	10/01/2025	16:46	LB137389
CCB06	Iron	23.4	+/-50	U	80.0	100	P	10/01/2025	17:41	LB137389
CCB07	Iron	23.4	+/-50	U	80.0	100	P	10/01/2025	18:32	LB137389
CCB08	Iron	23.4	+/-50	U	80.0	100	P	10/01/2025	19:23	LB137389

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q3237

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB169912BL		WATER		Batch Number:		PB169912		Prep Date:	09/30/2025	
	Iron	11.7	<25	U	40.0	50.0	P	10/01/2025	15:25	LB137389

Metals
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INTERFERENCE CHECK SAMPLE

Client: Tetra Tech NUS, Inc. **SDG No.:** Q3237
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	10/01/2025	12:53	LB137389
ICSAB01	Iron	98100	99300	99	84400	114500	10/01/2025	12:57	LB137389



METAL QC DATA



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metals
- 5a -
MATRIX SPIKE SUMMARY

client:

Tetra Tech NUS, Inc.

level:

low

sdg no.:

Q3237

contract:

TETR06

lab code:

ACE

matrix:

Water

sample id:

Q3237-02

client id:

RW8-SP303-20250926MS

Percent Solids for Sample:

NA

Spiked ID:

Q3237-02MS

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		51.3		1500	97		P



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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client:

Tetra Tech NUS, Inc.

level:

low

sdg no.:

Q3237

contract:

TETR06

lab code:

ACE

matrix:

Water

sample id:

Q3237-02

client id:

RW8-SP303-20250926MSD

Percent Solids for Sample:

NA

Spiked ID:

Q3237-02MSD

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		51.3		1500	97		P

Metals
- 5b -

Client: Tetra Tech NUS, Inc.

SDG No.: Q3237

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>Q3237</u>
Contract:	<u>TETR06</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q3237-02</u>	Client ID:	<u>RW8-SP303-20250926DUP</u>
Percent Solids for Sample:	NA	Duplicate ID	Q3237-02DUP	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	51.3		42.1	J	20		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>Tetra Tech NUS, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q3237</u>
Contract:	<u>TETR06</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q3237-02MS</u>	Client ID:	<u>RW8-SP303-20250926MSD</u>
Percent Solids for Sample:	NA	Duplicate ID	Q3237-02MSD	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	1500		1510		1		P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q3237

Contract: TETR06

Lab Code: ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB169912BS Iron	ug/L	1500	1410		94	87 - 115	P

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

RW8-SP303-20250926L

Lab Name: Alliance

Contract: TETR06

Lab Code: ACE

Lb No.: lb137389

Lab Sample ID : Q3237-02L

SDG No.: Q3237

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	51.3	59.4 J	16		P



METAL PREPARATION & INSTRUMENT DATA

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q3237

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.: Q3237

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.: Q3237

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.: Q3237

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.: Q3237

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.: Q3237

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: PB169912							
PB169912BL	PB169912BL	MB	WATER	09/30/2025	50.0	25.0	
PB169912BS	PB169912BS	LCS	WATER	09/30/2025	50.0	25.0	
Q3237-01	RW8-SP100-20250926	SAM	WATER	09/30/2025	50.0	25.0	
Q3237-02	RW8-SP303-20250926	SAM	WATER	09/30/2025	50.0	25.0	
Q3237-02DUP	RW8-SP303-20250926DUP	DUP	WATER	09/30/2025	50.0	25.0	
Q3237-02MS	RW8-SP303-20250926MS	MS	WATER	09/30/2025	50.0	25.0	
Q3237-02MSD	RW8-SP303-20250926MSD	MSD	WATER	09/30/2025	50.0	25.0	

metals
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ANALYSIS RUN LOG

Client: Tetra Tech NUS, Inc.

Contract: TETR06

Lab code: ACE

Sdg no.: Q3237

Instrument id number: _____

Method: _____

Run number: LB137389

Start date: 10/01/2025

End date: 10/01/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1208	Fe
S1	S1	1	1212	Fe
S2	S2	1	1217	Fe
S3	S3	1	1221	Fe
S4	S4	1	1225	Fe
S5	S5	1	1229	Fe
ICV01	ICV01	1	1233	Fe
LLICV01	LLICV01	1	1241	Fe
ICB01	ICB01	1	1245	Fe
CRI01	CRI01	1	1249	Fe
ICSA01	ICSA01	1	1253	Fe
ICSAB01	ICSAB01	1	1257	Fe
CCV01	CCV01	1	1310	Fe
CCB01	CCB01	1	1314	Fe
CCV02	CCV02	1	1402	Fe
CCB02	CCB02	1	1406	Fe
CCV03	CCV03	1	1500	Fe
CCB03	CCB03	1	1504	Fe
PB169912BL	PB169912BL	1	1525	Fe
PB169912BS	PB169912BS	1	1530	Fe
CCV04	CCV04	1	1551	Fe
CCB04	CCB04	1	1555	Fe
CCV05	CCV05	1	1642	Fe
CCB05	CCB05	1	1646	Fe
CCV06	CCV06	1	1732	Fe
CCB06	CCB06	1	1741	Fe
Q3237-01	RW8-SP100-20250926	1	1754	Fe
Q3237-02	RW8-SP303-20250926	1	1758	Fe
Q3237-02DUP	RW8-SP303-20250926DUP	1	1803	Fe
Q3237-02L	RW8-SP303-20250926L	5	1807	Fe
Q3237-02MS	RW8-SP303-20250926MS	1	1811	Fe
Q3237-02MSD	RW8-SP303-20250926MSD	1	1815	Fe
CCV07	CCV07	1	1828	Fe
CCB07	CCB07	1	1832	Fe
CCV08	CCV08	1	1919	Fe
CCB08	CCB08	1	1923	Fe