

LAB CHRONICLE

OrderID:	Q2644	OrderDate:	7/18/2025 11:21:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	O33

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2644-01	RW8-SP100-20250717	Water			07/17/25			07/18/25
			Metals Group4	6010D		07/21/25	07/22/25	
Q2644-02	RW8-SP303-20250717	Water			07/17/25			07/18/25
			Metals Group4	6010D		07/21/25	07/22/25	



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

SDG No.:	Q2644	Order ID:	Q2644
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-SP100-20250717									
Q2644-01	RW8-SP100-20250717	Water	Iron	777		11.7	40.0	50.0	ug/L
Client ID : RW8-SP303-20250717									
Q2644-02	RW8-SP303-20250717	Water	Iron	54.6		11.7	40.0	50.0	ug/L



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/17/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	07/18/25
Client Sample ID:	RW8-SP100-20250717	SDG No.:	Q2644
Lab Sample ID:	Q2644-01	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	777		1	11.7	40.0	50.0	ug/L	07/21/25 09:55	07/22/25 15:36	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:	07/17/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	07/18/25
Client Sample ID:	RW8-SP303-20250717	SDG No.:	Q2644
Lab Sample ID:	Q2644-02	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	54.6		1	11.7	40.0	50.0	ug/L	07/21/25 09:55	07/22/25 15:40	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



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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.
Contract: TETR06
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

SDG No.: Q2644
Lab Code: ACE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Iron	4060	4000	102	90 - 110	P	07/22/2025	12:03	LB136571

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.

SDG No.: Q2644

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	07/22/2025	12:10	LB136571

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.

SDG No.: Q2644

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	5030	5000	101	90 - 110	P	07/22/2025	13:00	LB136571
CCV02	Iron	5020	5000	100	90 - 110	P	07/22/2025	14:05	LB136571
CCV03	Iron	5150	5000	103	90 - 110	P	07/22/2025	15:20	LB136571
CCV04	Iron	5270	5000	105	90 - 110	P	07/22/2025	16:13	LB136571
CCV05	Iron	5300	5000	106	90 - 110	P	07/22/2025	17:14	LB136571
CCV06	Iron	5390	5000	108	90 - 110	P	07/22/2025	18:05	LB136571
CCV07	Iron	5140	5000	103	90 - 110	P	07/22/2025	18:54	LB136571
CCV08	Iron	5340	5000	107	90 - 110	P	07/22/2025	19:19	LB136571



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Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: Tetra Tech NUS, Inc.

SDG No.: Q2644

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	108	100	108	65 - 135	P	07/22/2025	12:32	LB136571



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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

Tetra Tech NUS, Inc.

SDG No.:

Q2644

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	07/22/2025	12:27	LB136571

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q2644

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	07/22/2025	13:05	LB136571
CCB02	Iron	23.4	+/-50	U	80.0	100	P	07/22/2025	14:09	LB136571
CCB03	Iron	23.4	+/-50	U	80.0	100	P	07/22/2025	15:26	LB136571
CCB04	Iron	23.4	+/-50	U	80.0	100	P	07/22/2025	16:17	LB136571
CCB05	Iron	23.4	+/-50	U	80.0	100	P	07/22/2025	17:18	LB136571
CCB06	Iron	23.4	+/-50	U	80.0	100	P	07/22/2025	18:09	LB136571
CCB07	Iron	25.2	+/-50	J	80.0	100	P	07/22/2025	18:58	LB136571
CCB08	Iron	23.4	+/-50	U	80.0	100	P	07/22/2025	19:23	LB136571

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q2644

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB168932BL		WATER		Batch Number:		PB168932		Prep Date:	07/21/2025	
	Iron	11.7	<25	U	40.0	50.0	P	07/22/2025	15:05	LB136571

Metals

- 4 -

INTERFERENCE CHECK SAMPLE

Client: Tetra Tech NUS, Inc.

SDG No.: Q2644

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	102000	101000	101	85600	116500	07/22/2025	12:37	LB136571
ICSAB01	Iron	101000	99300	102	84400	114500	07/22/2025	12:48	LB136571



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:

Q2644-02

sdg no.:

Q2644

lab code:

ACE

client id:

RW8-SP303-20250717MS

Percent Solids for Sample:

NA

Spiked ID:

Q2644-02MS

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	1530		54.6		1500	98		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client:	Tetra Tech NUS, Inc.	level:	low	sdg no.:	Q2644
contract:	TETR06			lab code:	ACE
matrix:	Water	sample id:	Q2644-02	client id:	RW8-SP303-20250717MSD
Percent Solids for Sample:	NA	Spiked ID:	Q2644-02MSD	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	1600		54.6		1500	103		P

Metals
- 5b -

Client: Tetra Tech NUS, Inc.

SDG No.: Q2644

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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Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>Tetra Tech NUS, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2644</u>
Contract:	<u>TETR06</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q2644-02</u>	Client ID:	<u>RW8-SP303-20250717DUP</u>
Percent Solids for Sample:	NA	Duplicate ID	Q2644-02DUP	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	54.6		58.1		6		P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>Tetra Tech NUS, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2644</u>
Contract:	<u>TETR06</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q2644-02MS</u>	Client ID:	<u>RW8-SP303-20250717MSD</u>
Percent Solids for Sample:	NA	Duplicate ID	Q2644-02MSD	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	1530		1600		4		P

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q2644

Contract: TETR06

Lab Code: ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168932BS Iron	ug/L	1500	1580		105	87 - 115	P

Metals
-9 -
ICP SERIAL DILUTIONS

SAMPLE NO.

RW8-SP303-20250717L

Lab Name: Alliance **Contract:** TETR06
Lab Code: ACE **Lb No.:** lb136571 **Lab Sample ID :** Q2644-02L **SDG No.:** Q2644
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	54.6	250 U	100.0		P



METAL PREPARATION & INSTRUMENT DATA

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q2644

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.: Q2644

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.: Q2644

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:				
		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.: Q2644

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:				
		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.: Q2644

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.: Q2644

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: PB168932							
PB168932BL	PB168932BL	MB	WATER	07/21/2025	50.0	25.0	
PB168932BS	PB168932BS	LCS	WATER	07/21/2025	50.0	25.0	
Q2644-01	RW8-SP100-20250717	SAM	WATER	07/21/2025	50.0	25.0	
Q2644-02	RW8-SP303-20250717	SAM	WATER	07/21/2025	50.0	25.0	
Q2644-02DUP	RW8-SP303-20250717DUP	DUP	WATER	07/21/2025	50.0	25.0	
Q2644-02MS	RW8-SP303-20250717MS	MS	WATER	07/21/2025	50.0	25.0	
Q2644-02MSD	RW8-SP303-20250717MSD	MSD	WATER	07/21/2025	50.0	25.0	

metals
- 14 -
ANALYSIS RUN LOG

Client: Tetra Tech NUS, Inc.

Contract: TETR06

Lab code: ACE

Sdg no.: Q2644

Instrument id number: _____

Method: _____

Run number: LB136571

Start date: 07/22/2025

End date: 07/22/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1111	Fe
S1	S1	1	1116	Fe
S2	S2	1	1120	Fe
S3	S3	1	1124	Fe
S4	S4	1	1128	Fe
S5	S5	1	1133	Fe
ICV01	ICV01	1	1203	Fe
LLICV01	LLICV01	1	1210	Fe
ICB01	ICB01	1	1227	Fe
CRI01	CRI01	1	1232	Fe
ICSA01	ICSA01	1	1237	Fe
ICSAB01	ICSAB01	1	1248	Fe
CCV01	CCV01	1	1300	Fe
CCB01	CCB01	1	1305	Fe
CCV02	CCV02	1	1405	Fe
CCB02	CCB02	1	1409	Fe
PB168932BL	PB168932BL	1	1505	Fe
PB168932BS	PB168932BS	1	1515	Fe
CCV03	CCV03	1	1520	Fe
CCB03	CCB03	1	1526	Fe
Q2644-01	RW8-SP100-20250717	1	1536	Fe
Q2644-02	RW8-SP303-20250717	1	1540	Fe
Q2644-02DUP	RW8-SP303-20250717DUP	1	1544	Fe
Q2644-02L	RW8-SP303-20250717L	5	1548	Fe
Q2644-02MS	RW8-SP303-20250717MS	1	1553	Fe
Q2644-02MSD	RW8-SP303-20250717MSD	1	1557	Fe
CCV04	CCV04	1	1613	Fe
CCB04	CCB04	1	1617	Fe
CCV05	CCV05	1	1714	Fe
CCB05	CCB05	1	1718	Fe
CCV06	CCV06	1	1805	Fe
CCB06	CCB06	1	1809	Fe
CCV07	CCV07	1	1854	Fe
CCB07	CCB07	1	1858	Fe
CCV08	CCV08	1	1919	Fe
CCB08	CCB08	1	1923	Fe