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LAB CHRONICLE

OrderID:	Q2604	**OrderDate:**	7/15/2025 10:29:00 AM
Client:	Tetra Tech NUS, Inc.	**Project:**	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	**Location:**	O11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2604-01	**RW8-SP100-20250711**	**Water**			**07/11/25**			**07/15/25**
			Metals Group4	6010D		07/16/25	07/17/25	
Q2604-02	**RW8-SP303-20250711**	**Water**			**07/11/25**			**07/15/25**
			Metals Group4	6010D		07/16/25	07/17/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2604 **Order ID:** Q2604

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-SP100-20250711									
Q2604-01	RW8-SP100-20250711	Water	Iron	770		11.7	40.0	50.0	ug/L
Client ID : RW8-SP303-20250711									
Q2604-02	RW8-SP303-20250711	Water	Iron	101		11.7	40.0	50.0	ug/L

SAMPLE DATA

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/11/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	07/15/25
Client Sample ID:	RW8-SP100-20250711	SDG No.:	Q2604
Lab Sample ID:	Q2604-01	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	770	N	1	11.7	40.0	50.0	ug/L	07/16/25 10:05	07/17/25 18:07	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

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/11/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	07/15/25
Client Sample ID:	RW8-SP303-20250711	SDG No.:	Q2604
Lab Sample ID:	Q2604-02	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	101	N	1	11.7	40.0	50.0	ug/L	07/16/25 10:05	07/17/25 17:30	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. **SDG No.:** Q2604

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	4310	4000	108	90 - 110	P	07/17/2025	13:30	LB136533

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2604

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	110	100	110	80 - 120	P	07/17/2025	13:37	LB136533

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2604

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	5040	5000	101	90 - 110	P	07/17/2025	14:20	LB136533
CCV02	Iron	5080	5000	102	90 - 110	P	07/17/2025	14:58	LB136533
CCV03	Iron	5030	5000	101	90 - 110	P	07/17/2025	15:50	LB136533
CCV04	Iron	5040	5000	101	90 - 110	P	07/17/2025	16:42	LB136533
CCV05	Iron	4970	5000	99	90 - 110	P	07/17/2025	17:58	LB136533
CCV06	Iron	4770	5000	95	90 - 110	P	07/17/2025	19:24	LB136533
CCV07	Iron	4890	5000	98	90 - 110	P	07/17/2025	20:16	LB136533

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Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2604

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	07/17/2025	13:46	LB136533

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2604

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	07/17/2025	13:41	LB136533

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2604

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	07/17/2025	14:25	LB136533
CCB02	Iron	23.4	+/-50	U	80.0	100	P	07/17/2025	15:02	LB136533
CCB03	Iron	23.4	+/-50	U	80.0	100	P	07/17/2025	15:56	LB136533
CCB04	Iron	23.4	+/-50	U	80.0	100	P	07/17/2025	16:46	LB136533
CCB05	Iron	23.4	+/-50	U	80.0	100	P	07/17/2025	18:02	LB136533
CCB06	Iron	23.4	+/-50	U	80.0	100	P	07/17/2025	19:28	LB136533
CCB07	Iron	23.4	+/-50	U	80.0	100	P	07/17/2025	20:20	LB136533

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2604

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB168883BL		**WATER**		**Batch Number:**		**PB168883**		**Prep Date:**	**07/16/2025**	
	Iron	18.0	<25	U	37.5	50.0	P	07/17/2025	17:22	LB136533

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2604

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	98300	101000	97	85600	116500	07/17/2025	13:51	LB136533
ICSAB01	Iron	97600	99300	98	84400	114500	07/17/2025	13:56	LB136533

METAL QC DATA

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** Q2604

contract: TETR06 **lab code:** ACE

matrix: Water **sample id:** Q2604-01 **client id:** RW8-SP100-20250711MS

Percent Solids for Sample: NA **Spiked ID:** Q2604-01MS **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	2260		770		1500	99		P

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** Q2604

contract: TETR06 **lab code:** ACE

matrix: Water **sample id:** Q2604-01 **client id:** RW8-SP100-20250711MSD

Percent Solids for Sample: NA **Spiked ID:** Q2604-01MSD **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	2540		770		1500	118	N	P

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Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2604

Contract: TETR06 **Lab Code:** ACE

Matrix: Water **Level:** LOW **Client ID:** RW8-SP100-20250711A

Sample ID: Q2604-01 **Spiked ID:** Q2604-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Iron	ug/L	87 - 115	2170		770		1500	93		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** Q2604

Contract: TETR06 **Lab Code:** ACE

Matrix: Water **Sample ID:** Q2604-01 **Client ID:** RW8-SP100-20250711DUP

Percent Solids for Sample: NA **Duplicate ID** Q2604-01DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	770		736		5		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** Q2604

Contract: TETR06 **Lab Code:** ACE

Matrix: Water **Sample ID:** Q2604-01MS **Client ID:** RW8-SP100-20250711MSD

Percent Solids for Sample: NA **Duplicate ID** Q2604-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	2260		2540		12		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2604

Contract: TETR06 **Lab Code:** ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168883BS							
Iron	ug/L	1500	1460		97	87 - 115	P

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

RW8-SP100-20250711L

Lab Name: Alliance **Contract:** TETR06

Lab Code: ACE **Lb No.:** lb136533 **Lab Sample ID :** Q2604-01L **SDG No.:** Q2604

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Iron	770		762		1		P

METAL PREPARATION & INSTRUMENT DATA

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2604

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

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2604

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

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2604

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

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2604

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

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2604

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

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2604

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:	**PB168883**						
PB168883BL	PB168883BL	MB	WATER	07/16/2025	50.0	25.0	
PB168883BS	PB168883BS	LCS	WATER	07/16/2025	50.0	25.0	
Q2604-01	RW8-SP100-20250711	SAM	WATER	07/16/2025	50.0	25.0	
Q2604-01DUP	RW8-SP100-20250711DUP	DUP	WATER	07/16/2025	50.0	25.0	
Q2604-01MS	RW8-SP100-20250711MS	MS	WATER	07/16/2025	50.0	25.0	
Q2604-01MSD	RW8-SP100-20250711MSD	MSD	WATER	07/16/2025	50.0	25.0	
Q2604-02	RW8-SP303-20250711	SAM	WATER	07/16/2025	50.0	25.0	

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metals
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ANALYSIS RUN LOG

Client: Tetra Tech NUS, Inc. **Contract:** TETR06

Lab code: ACE **Sdg no.:** Q2604

Instrument id number: **Method:** **Run number:** LB136533

Start date: 07/17/2025 **End date:** 07/17/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1305	Fe
S1	S1	1	1309	Fe
S2	S2	1	1313	Fe
S3	S3	1	1318	Fe
S4	S4	1	1322	Fe
S5	S5	1	1326	Fe
ICV01	ICV01	1	1330	Fe
LLICV01	LLICV01	1	1337	Fe
ICB01	ICB01	1	1341	Fe
CRI01	CRI01	1	1346	Fe
ICSA01	ICSA01	1	1351	Fe
ICSAB01	ICSAB01	1	1356	Fe
CCV01	CCV01	1	1420	Fe
CCB01	CCB01	1	1425	Fe
CCV02	CCV02	1	1458	Fe
CCB02	CCB02	1	1502	Fe
CCV03	CCV03	1	1550	Fe
CCB03	CCB03	1	1556	Fe
CCV04	CCV04	1	1642	Fe
CCB04	CCB04	1	1646	Fe
PB168883BL	PB168883BL	1	1722	Fe
PB168883BS	PB168883BS	1	1726	Fe
Q2604-02	RW8-SP303-20250711	1	1730	Fe
CCV05	CCV05	1	1758	Fe
CCB05	CCB05	1	1802	Fe
Q2604-01	RW8-SP100-20250711	1	1807	Fe
Q2604-01DUP	RW8-SP100-20250711DUP	1	1811	Fe
Q2604-01L	RW8-SP100-20250711L	5	1815	Fe
Q2604-01MS	RW8-SP100-20250711MS	1	1820	Fe
Q2604-01MSD	RW8-SP100-20250711MSD	1	1824	Fe
Q2604-01A	RW8-SP100-20250711A	1	1828	Fe
CCV06	CCV06	1	1924	Fe
CCB06	CCB06	1	1928	Fe
CCV07	CCV07	1	2016	Fe
CCB07	CCB07	1	2020	Fe