

DATA PACKAGE GENERAL CHEMISTRY

PROJECT NAME : CTO WE13

TETRA TECH NUS, INC.

661 Andersen Drive

Suite 200

Pittsburgh, PA - 15220-2745

Phone No: 412-921-7090

ORDER ID : Q1774 ATTENTION : Ernie Wu



Laboratory Certification ID # 20012





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Client Sample Number

Cover Page

Order ID : Q1774

Project ID : CTO WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

Q1774-02TT-073-IDWGW-20250409Q1774-03TT-074-IDWGW-20250409Q1774-04TT-075-IDWGW-20250409

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature :

Date: 4/11/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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

CASE NARRATIVE

Tetra Tech NUS, Inc. Project Name: CTO WE13 Project Manager : Ernie Wu Chemtech Project # Q1774 Test Name: pH

A. Number of Samples and Date of Receipt:

3 Water samples were received on 04/10/2025.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH and VOCMS Group4. This data package contains results for pH.

C. Analytical Techniques:

The analysis of pH was based on method 9040C.

D. QA/ QC Samples:

The Holding Times were met for all samples except for TT-073-IDWGW-20250409 of pH, for TT-074-IDWGW-20250409 of pH.for TT-075-IDWGW-20250409 of pH as samples were receive out of holding time.

The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

E. Additional Comments:

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is).

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____



DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).					
U	Indicates the analyte was analyzed for, but not detected.					
ND	Indicates the analyte was analyzed for, but not detected					
Ε	Indicates the reported value is estimated because of the presence of interference					
Μ	Indicates Duplicate injection precision not met.					
Ν	Indicates the spiked sample recovery is not within control limits.					
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).					
*	Indicates that the duplicate analysis is not within control limits.					
+	Indicates the correlation coefficient for the MSA is less than 0.995.					
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.					
M OR	Method qualifiers"P"for ICP instrument"PM"for ICP when Microwave Digestion is used"CV"for Manual Cold Vapor AA"AV"for automated Cold Vapor AA"CA"for MIDI-Distillation Spectrophotometric"AS"for Semi – Automated Spectrophotometric"T"for Manual Spectrophotometric"T"for Titrimetric"NR"for analyte not required to be analyzedIndicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.					
Q	Indicates the LCS did not meet the control limits requirements					
Н	Sample Analysis Out Of Hold Time					

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GENERAL CHEMISTRY CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEM	TECH PROJECT NUMBER: Q1774	MATRIX: Water			
METH	DD: 9040C				
1.	Blank Contamination - If yes, list compounds and concentration	is in each blank:	NA	NO ✓	YES
2.	Matrix Spike Duplicate Recoveries Met Criteria				\checkmark
	If not met, list those compounds and their recoveries which fall range.	outside the acceptable			
	The Blank Spike met requirements for all samples.				
3.	Sample Duplicate Analysis Met QC Criteria				\checkmark
	If not met, list those compounds and their recoveries which fall range.	outside the acceptable			
4.	Digestion Holding Time Met			\checkmark	
	If not met, list number of days exceeded for each sample:				
	The Holding Times were met for all samples except for TT-073 of pH, for TT-074-IDWGW-20250409 of pH.for TT-075-IDW as samples were receive out of holding time.				

ADDITIONAL COMMENTS:

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is).

QA REVIEW

Date



APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1774

For thorough review, the report must have the following: **GENERAL:** Are all original paperwork present (chain of custody, record of communication, airbill, sample management lab chronicle, login page) × × × × × Check chain-of-custody for proper relinquish/return of samples Is the chain of custody signed and complete Check internal chain-of-custody for proper relinquish/return of samples /sample extracts Collect information for each project id from server. Were all requirements followed **COVER PAGE:** Do numbers of samples correspond to the number of samples in the Chain of Custody on login page Do lab numbers and client Ids on cover page agree with the Chain of Custody **CHAIN OF CUSTODY:** ✓ ✓ ✓ ✓ Do requested analyses on Chain of Custody agree with form I results Do requested analyses on Chain of Custody agree with the log-in page Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody Were the samples received within hold time Were any problems found with the samples at arrival recorded in the Sample Management Laboratory ✓ Chronicle ANALYTICAL: ✓ ✓ ✓ ✓ ✓ Was method requirement followed? Was client requirement followed? Does the case narrative summarize all QC failure? All runlogs and manual integration are reviewed for requirements All manual calculations and /or hand notations verified

QA Review Signature: SOHIL JODHANI

Completed



LAB CHRONICLE

OrderID: Client: Contact:	Q1774 Tetra Tech NUS, Inc. Ernie Wu			OrderDate: Project: Location:	4/10/2025 10:4 CTO WE13 F11,VOA Ref. #			
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1774-02	TT-073-IDWGW-2025 0409	WATER			04/09/25 11:30			04/10/25
			рН	9040C			04/11/25 10:00	
Q1774-03	TT-074-IDWGW-2025 0409	WATER			04/09/25 11:40			04/10/25
			рН	9040C			04/11/25 10:10	
Q1774-04	TT-075-IDWGW-2025 0409	WATER			04/09/25 11:50			04/10/25
			рН	9040C			04/11/25 10:15	







Report of Analysis

Client:	Tetra Tech I	Tetra Tech NUS, Inc.			Date Collected:	04/09/25 1	1:30
Project:	CTO WE13	3		Ι	Date Received:	04/10/25	
Client Sample ID:	TT-073-ID	TT-073-IDWGW-20250409			SDG No.:	Q1774	
Lab Sample ID:	Q1774-02			Ν	Matrix:	WATER	
				0	% Solid:	0	
Parameter	Conc. Qua.	DF MDL LO	D LOQ/CRQL	Units	Prep Date	Date Ana.	Ana Met.
pН	8.73 H	1 0 0	0	pН		04/11/25 10:00	9040C

Comments: pH result reported at temperature 20.2 °C

- 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

- E = Indicates the reported value is estimated because of the presence of interference.
- OR = Over Range
- N =Spiked sample recovery not within control limits

^{* =} indicates the duplicate analysis is not within control limits.



Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	04/09/25 11:40
Project:	CTO WE13		Date Received:	04/10/25
Client Sample ID:	TT-074-IDWGW-20250409	,	SDG No.:	Q1774
Lab Sample ID:	Q1774-03		Matrix:	WATER
			% Solid:	0
Parameter	Conc. Qua. DF MDL L	OD LOQ / CRQL	Units Prep Date	Date Ana. Ana Met.
pH	7.05 H 1 0 0	0	pН	04/11/25 10:10 9040C

Comments: pH result reported at temperature 20.3 °C

- 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

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Report of Analysis

Client:	Tetra Tech NUS, Inc		Date Collected:	04/09/25 11:50
Project:	CTO WE13		Date Received:	04/10/25
Client Sample ID:	TT-075-IDWGW-20	250409	SDG No.:	Q1774
Lab Sample ID:	Q1774-04		Matrix:	WATER
			% Solid:	0
Parameter	Conc. Qua. DF M	DL LOD LOQ/CRQL	Units Prep Date	Date Ana. Ana Met.
pН	6.62 H 1 0	0 0	pН	04/11/25 10:15 9040C

Comments: pH result reported at temperature 20.9 °C

- 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



<u>QC RESULT</u> <u>SUMMARY</u>



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

Initial and Continuing Calibration Verification

Client: Project:	Tetra Tech NUS, Inc. CTO WE13					SDG No.: Q1774 RunNo.: LB1353	91
Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: pH	ICV	рН	7.01	7	100	90-110	04/11/2025
Sample ID: pH	CCV1	рН	2.01	2.00	101	90-110	04/11/2025
Sample ID: pH	CCV2	рН	12.02	12.00	100	90-110	04/11/2025
Sample ID: pH	CCV3	рН	2.01	2.00	101	90-110	04/11/2025



Duplicate Sample Summary

H	рН	+/-20	5.66	5.67			0.18		04/11/202
nalyte	Units	Acceptance Limit	Sample Result	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Client ID:	AUD-25-0047DUP			Percent Sol	ids for Spil	ke Sample:	0		
Project:	CTO WE13			Sample ID:	Q	1763-02			
Client:	Tetra Tech NUS, Inc.			SDG No.:	Q1	774			

Q1774-GENCHEM



RAW DATA



Analytical

Summary	Report	
		3

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10 11

METER-1

Analysis Method: 9040C **Parameter:** pH Run Number: LB135391

Analyst By	:	jignesh
Supervisor Review By	:	Iwona
Slope	:	98.6
pH Meter ID	:	WC PH METER-1

Calibration Standards	Chemtech Log#
PH 4 BUFFER SOLUTION	W3178
BUFFER PH 7.00 GREEN 1PINT PK6	W3093
PH 10.01 BUFFER, COLOR CD 475ML	W3191
buffer solution pH 7 yellow	W3071
Buffer Solution, PH2 (500ml)	W3161
Buffer Solution, PH12 (500ml)	W3072

True Value of ICV = 7.00 Control Limits[+/- 0.1].

True Value of CCV1 = 2.00 Control Limits[+/- 0.1].

True Value of CCV2 = 12.00 Control Limits[+/- 0.1].

True Value of CCV3 = 2.00 Control Limits[+/- 0.1].

Seq	LabID	DF	Matrix	Weight (gm)	Volume (ml)	Temperature (°C)	Result (pH)	Anal Date	Anal Time
1	CAL1	1	Water	NA	NA	20.2	4.01	04/11/2025	09:15
2	CAL2	1	Water	NA	NA	20.2	7.00	04/11/2025	09:16
3	CAL3	1	Water	NA	NA	20.3	10.02	04/11/2025	09:17
4	ICV	1	Water	NA	NA	20.3	7.01	04/11/2025	09:20
5	CCV1	1	Water	NA	NA	20.3	2.01	04/11/2025	09:25
6	Q1763-02	1	Water	NA	NA	20.4	5.66	04/11/2025	09:33
7	Q1763-02DUP	1	Water	NA	NA	20.5	5.67	04/11/2025	09:34
8	Q1764-02	1	Water	NA	NA	20.2	6.17	04/11/2025	09:37
9	Q1767-01	1	Water	NA	NA	20.3	6.87	04/11/2025	09:44
10	Q1774-02	1	Water	NA	NA	20.2	8.73	04/11/2025	10:00
11	Q1774-03	1	Water	NA	NA	20.3	7.05	04/11/2025	10:10
12	Q1774-04	1	Water	NA	NA	20.9	6.62	04/11/2025	10 : 15
13	Q1782-01	1	Water	NA	NA	20.1	5.95	04/11/2025	10:30
14	Q1782-03	1	Water	NA	NA	20.2	6.82	04/11/2025	10 : 35
15	Q1782-05	1	Water	NA	NA	20.3	6.71	04/11/2025	10:40
16	CCV2	1	Water	NA	NA	20.2	12.02	04/11/2025	10:41
17	Q1782-07	1	Water	NA	NA	20.1	6.68	04/11/2025	10:45
18	CCV3	1	Water	NA	NA	20.3	2.01	04/11/2025	10:47

			WURKLIST(Harc	IST(Hardcopy Internal Chain)		(heage and		
DV MorkList Name :	ph w q1764	WorkList ID :	ID: 188859	Department : We	Wet-Chemistry	ä	Date · 04-11-2005 07-50-57	02.60.64
٥	Customer Sample	Matrix	Test	Preservative	Customer	a	Collect Date Method	Method
Q1763-02	AUD-25-0047	100-1	:			Location		
2		water	Hd	Cool 4 deg C	PSEG03	124		
W 104-07 W	BUR-25-COMP	Water	Hď	Coni 4 den C		2	04/10/2025 9040C	9040C
Q1767-01 C	NWB-2152	Water	Ha		PSEG03	L41	04/10/2025 9040C	9040C
Q1774-02 C	TT-073-IDWGW-20250409	Water		Cool 4 deg C	PSEG03	F11	04/10/2025 9040C	9040C
01774-03 /	1		Цd	Cool 4 deg C	TETR06	F11	04/00/2025	00100
1	11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	Water	Hd	Cool 4 day C			CZUZIEUITO	8040C
Q1774-04	TT-075-IDWGW-20250409	Water	Ha		IETR06	F11	04/09/2025 9040C	9040C
Q1782-01 I	MW-1	Water		Cool 4 deg C	TETR06	F11	04/09/2025 9040C	9040C
a1782-03 T	MW-2	Motor		Cool 4 deg C	LOCK01	K11	04/09/2025 9040C	9040C
Q1782-05 T	MM/-3	ANGIAL	Ha	Cool 4 deg C	LOCK01	K11	04/00/2026	00000
		Water	Hd	Cool 4 den C			070700000	30400
Q1782-07	MW-4	Water	1	D	LUCKU1	K11	04/09/2025 9040C	9040C
			2	Cool 4 deg C	LOCK01	K11	04/09/2025 90400	9040C

(200) 09410 P Raw Sample Relinquished by: Date/Time 04.11.25 Raw Sample Received by:

Date/Time <u>のいいい</u>る

Reviewed By:Iwona On:4/11/2025 11:29:43 AM Inst Id :WC PH METER-1

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Raw Sample Relinquished by:

<mark>10</mark> 11

13

Page 1 of 1



Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135391

Review By	By jignesh Review On		4/11/2025 11:18:58 AM	
Supervise By	Iwona	Supervise On	4/11/2025 11:29:43 AM	
SubDirectory	LB135391	Test	pH	
STD. NAME	STD REF.#			
ICAL Standard	N/A			
ICV Standard	N/A			
CCV Standard	N/A			
ICSA Standard	N/A			
CRI Standard	N/A			
LCS Standard	N/A			
Chk Standard	W3178,W3093,V	V3191,W3071,W3161,W3072		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	04/11/25 09:15		jignesh	ОК
2	CAL2	CAL2	CAL	04/11/25 09:16		jignesh	ОК
3	CAL3	CAL3	CAL	04/11/25 09:17		jignesh	ок
4	ICV	ICV	ICV	04/11/25 09:20		jignesh	ОК
5	CCV1	CCV1	CCV	04/11/25 09:25		jignesh	ОК
6	Q1763-02	AUD-25-0047	SAM	04/11/25 09:33		jignesh	ок
7	Q1763-02DUP	AUD-25-0047DUP	DUP	04/11/25 09:34		jignesh	ОК
8	Q1764-02	BUR-25-COMP	SAM	04/11/25 09:37		jignesh	ок
9	Q1767-01	NWB-2152	SAM	04/11/25 09:44		jignesh	ок
10	Q1774-02	TT-073-IDWGW-2025	SAM	04/11/25 10:00		jignesh	ок
11	Q1774-03	TT-074-IDWGW-2025	SAM	04/11/25 10:10		jignesh	ок
12	Q1774-04	TT-075-IDWGW-2025	SAM	04/11/25 10:15		jignesh	ок
13	Q1782-01	MW-1	SAM	04/11/25 10:30		jignesh	ок
14	Q1782-03	MW-2	SAM	04/11/25 10:35		jignesh	ок
15	Q1782-05	MW-3	SAM	04/11/25 10:40		jignesh	ок
16	CCV2	CCV2	CCV	04/11/25 10:41		jignesh	ок
17	Q1782-07	MW-4	SAM	04/11/25 10:45		jignesh	ок
18	CCV3	ССV3	CCV	04/11/25 10:47		jignesh	ОК



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Prep Standard - Chemical Standard Summary

Order ID :	Q1774
Test :	рН
Prepbatch ID :	
Sequence ID/Qc Bate	ch ID: LB135391,
Standard ID :	
Chemical ID :	
W3071,W3072,W309	13,W3161,W3178,W3191,



CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14455-3 / buffer solution pH 7 yellow	4308H30	07/31/2025	01/02/2024 / JIGNESH	12/06/2023 / Iwona	W3071
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14940-1 / Buffer Solution, PH12 (500ml)	2310P21	04/30/2025	01/02/2024 / JIGNESH	12/07/2023 / Iwona	W3072
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	566002 / BUFFER PH 7.00 GREEN 1PINT PK6	44001f99	12/31/2025	04/03/2024 / jignesh	04/02/2024 / jignesh	W3093
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL13850-1 / Buffer Solution, PH2 (500ml)	2411E26	10/31/2026	12/09/2024 / Iwona	12/09/2024 / Iwona	W3161
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14055-3 / PH 4 BUFFER SOLUTION	2411A93	10/30/2026	04/01/2025 / JIGNESH	01/27/2025 / jignesh	W3178

e / ItemName L	.ot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
	10F80 0	03/31/2026	04/01/2025 / JIGNESH	03/13/2025 / jignesh	W3191
		10.01 2410F80 (Date 10.01 2410F80 03/31/2026	Date Opened By 10.01 2410F80 03/31/2026 04/01/2025 /	Date Opened By Received By 10.01 2410F80 03/31/2026 04/01/2025 / 03/13/2025 /

RICCA CHEM Certificate				1490 Lammers Pike Batesville, IN 47006 http://www.riccachemical.com 1-888-GO-RICCA stomerservice@riccachemical.com
Buffer, Reference Standard, pH	7.00 ± 0.01 at 2	5°C (Color	Coded Ye	ellow)
Lot Number: 4308H30 Prod	luct Number: 1551	1	:	Manufacture Date: AUG 09, 2025 Expiration Date: JUL 2025
The certified value for this product is confirmed in The NIST traceable pH value is certified to ± 0.01 a	independent testing by a t 25 °C only. All other pH	second qualified (chemist. orresponding te	
°C 0 5 10 15	20 25 30 .02 7.00 6.99	35 40 6.98 6.98	45 5	$\begin{array}{c} \text{mperatures are accurate to ± 0.05.}\\ 50\\.97\\ \end{array}$
Name	CAS#	Service St	Grade	1
Water	7732-18-5		ACS/ASTM	I/USP/EP 1
Sodium Phosphate Dibasic	7558-79-4		ACS	12
Potassium Dihydrogen Phosphate	7778-77-0		ACS	
Preservative Volters Dec	Proprietary	 1.4 - 1.000000 - 1.1 		1
Yellow Dye Sodium Hydroxide	Proprietary 1310-73-2	r • • • •	Reagent	
Test	Speci	ification	Result	
Appearance	Yello	ow liquid	Passed	
Test	Certi	fied Value	Uncert	tainty NIST SRM#
pH at 25°C (Method: SQCP027, SQCP03	3) 7.002		0.02	186-I-g, 186-II-g, 191d
Specification		Refe	rence	
Commercial Buffer Solutions Buffer A Buffer A		ASTI	M (D 1293 B) M (D 5464) M (D 5128)	
pH measurements were performed in our Batesville traceable to National Institute of Standards and Tec comparisons. The uncertainty is calculated from the Standard Reference Material, and the uncertainty of a normal distribution. Volumetric glassware compli- before first use and recalibrated regularly in accorda weights certified traceable to the NIST national mass regularly with a thermometer traceable to NIST stat according to validated methods. Batch records docur	euncertainty of the measu e uncertainty of the measu f the measurement process es with Class A tolerance r ance with ASTM E 542 and ss standard. Thermometer ndards. All products are m	D/IEC 17025 accre d Reference Mater urement variation ss. The uncertaint requirements of A ad NIST Procedur rs and temperatur Wenared accordin	editation (ANAE rial as indicated from sample to ty is multiplied ASTM E 288 and e NBSIR 74-461 re probes are ca s to magter doc	above via an unbroken chain of o sample, the uncertainty in the NIST by $k=2$, corresponding to 95% coverage in d NIST Circular 434; it is calibrated 1. Balances are calibrated regularly with librated before first use and recalibrated

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1551-2.5	10 L Cubitainer®	24 months
1551-5	20 L Cubitainer®	24 months
Recommended Storage: 15°C - 9		VIEW PERMIT

Recommended Storage: 15°C - 30°C (59°F - 86°F)

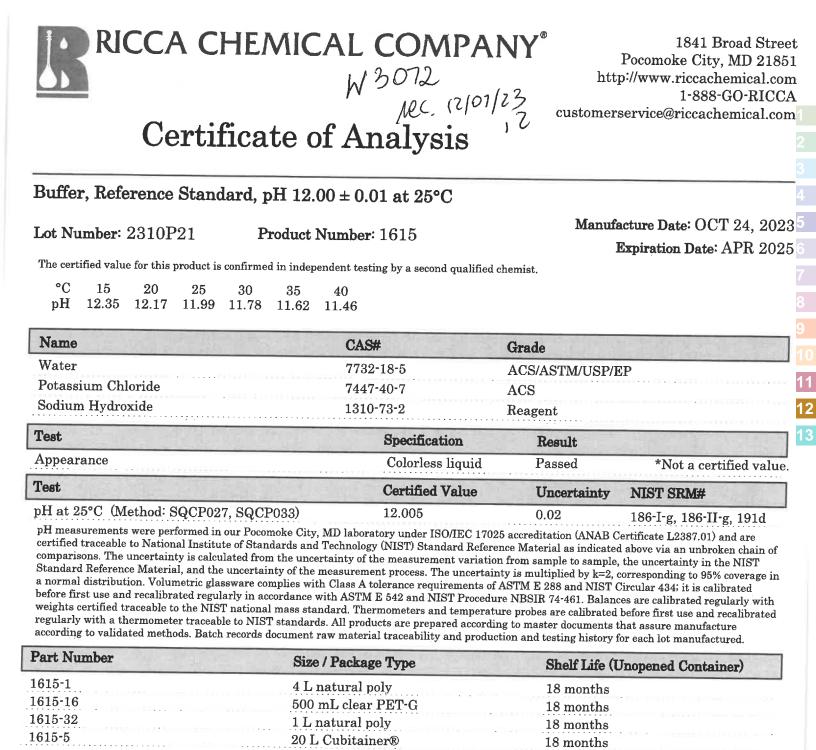
Faul Brandon

Paul Brandon (08/09/2023) Production Manager This document is designed to comply with ISO Guide 31 "Reference Materials --Contents of Certificates and Labels."

This product was tested in an ISO 17025 Accredited Laboratory

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.

Version: 1.3



Recommended Storage: 15°C - 30°C (59°F - 86°F)

Travers. nron

Sharon Travers (10/24/2023) Operations Manager This document is designed to comply with ISO Guide 31 "Reference Materials --Contents of Certificates and Labels."

This product was tested in an ISO 17025 Accredited Laboratory

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Version: 1.3

RICCA CHEMICAL COMPANY[®] 3^{003} 0^{001} Certificate of Analysis 0^{010}

1490 Lammers Pike Batesville, IN 47006 http://www.riccachemical.com 1-888-GO-RICCA customerservice@riccachemical.con

Buffer, Reference Standard, pH 7.00 ± 0.01 at 25°C (Color Coded Yellow)

Lot Number: 4401F99	Product	Number: 1551	L		Manufacture Date: JAN 08, 20				
The certified value for this prod The NIST traceable pH value is	luct is confirmed in indep s certified to ±0.01 at 25 °	endent testing by a C only. All other nH	second qua	lified c	hemist.		Expiration Date: DEC 202		
°C 0 5	10 15 20 .06 7.04 7.02	25 30 7.00 6.99	35 6.98	40 6.98	45 6.97	50 6.97	res are accurate to ± 0.05 .		
Name		CAS#		- 13	Grade				
Water Sodium Phosphate Dibas Potassium Dihydrogen P Preservative Yellow Dye Sodium Hydroxide Test		7732-18-5 7558-79-4 7778-77-0 Proprietary 1310-73-2 Spec				TM/USP/I	EP		
Appearance		Yello	w liquid		Pas	sed	*Not a certified value		
Test		Certi	fied Valu	le	Un	ertainty	NIST SRM#		
pH at 25°C(Method: SQC	CP027, SQCP033)	7.004			0.02	2	186-I-g, 186-II-g, 191d		
Specification		Reference							
Commercial Buffer Solutio Buffer A Buffer A	····	ASTM (D 1293 B) ASTM (D 5464) ASTM (D 5128)							
pH measurements were perform traceable to National Institute o comparisons. The uncertainty is Standard Reference Material, ar	calculated from the unce	gy (NIST) Standard rtainty of the measu	l Reference trement va	Materi	ial as indic	ated above vi	in an ambaula 1 1 1 C		

ement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1551-1	4 L natural poly	24 months
1551-1CT	4 L Cubitainer®	24 months
1551-2.5	10 L Cubitainer®	24 months
1551-5	20 L Cubitainer®	24 months
Recommended Store re: 15°C -		V.A.S. I

Recommended Storage: 15°C - 30°C (59°F - 86°F)

fand Brandon

Paul Brandon (01/08/2024) Production Manager This document is designed to comply with ISO Guide 31 "Reference Materials --Contents of Certificates and Labels."

This product was tested in an ISO 17025 Accredited Laboratory

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	CCA		HEN	ЛIC	AL	CC	M	PAN	JX _®	P	1841 Broad Stree Pocomoke City, MD 21851
	W3161	Rec.	on 12/0)9/24 b	by IZ					http:	//www.riccachemical.com 1-888-GO-RICCA
									C	ustomerse	ervice@riccachemical.com
	Ce	rtif	ica	te c	of A	nal	ysis	3			
Buffer, Refe		Stand	lard n	<u></u> н о о	0 + 0 0	1 at 9	5°C				
Julier, Reid	Tence	Stanu	laru, p	11 2.0	0 ± 0.0	1 at 2	00			Manufac	ture Date: NOV 11, 2024
ot Number:	2411E	26	P	roduct	Numbe	r : 1493	3				xpiration Date: OCT 2026
m i	¢	1	C-	1	1		,	1:0:1		Е	xpiration Date: 001 2020
The certified valu The NIST traceab	1			-		0.0				g temperature	es are accurate to ± 0.05 .
°C 10	15	20	25	30	35	40	45	50			
pH 1.93	1.98	1.98	2.00	2.01	2.03	2.03	2.04	2.04			
Name					CA	S#			Grade		
Water					77	32-18-5			ACS/AS	STM/USP/E	Р
Potassium Ch	loride				74	47-40-7			ACS		
	Acid				76	47-01-0			ACS		
						Spe	cificatio	n	Re	sult	
Hydrochloric										مممعا	
Hydrochloric . Test Appearance						Col	orless li	quid	Ра	ssea	*Not a certified value
Hydrochloric Test							orless li tified V a	<u></u>		ncertainty	*Not a certified value NIST SRM#
Hydrochloric Test Appearance		SQCP02	27, SQC	P033)			tified Va	<u></u>		ncertainty	

the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)					
1493-1	4 L natural poly	24 months					
1493-16	500 mL natural poly	24 months					
1493-1CT	4 L Cubitainer®	24 months					
1493-2.5	10 L Cubitainer®	24 months					
1493-32	1 L natural poly	24 months					
Recommended Storage: 15°C - 30°C (59°F - 86°F)							

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Q1774-GENCHEM

'Y

Jose Pena (11/11/2024) Operations Manager

This product was tested in an ISO 17025 Accredited Laboratory

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RICCA CHEMIC	CAL COMPA	NY°		tp://www	1841 Broad Stro ke City, MD 218 riccachemical.co 1-888-GO-RICO		
Certificate o	custome:	rservice@ \{{}	riccachemical.co				
Buffer, Reference Standard, pH 4.0	0 ± 0.01 at 25°C (Colo	r Coded	Red)		V		
	Number: 1501		Manuf	Expiration	te: NOV 04, 202 1 Date: OCT 202		
°C 0 5 10 15 20 pH 4.00 4.00 4.00 4.00 4.00	$\begin{array}{cccc} 25 & 30 & 35 & 40 \\ 4.00 & 4.01 & 4.02 & 4.03 \end{array}$	45	50 50 4.06	ires are accu	rate to ± 0.05.		
Name	CAS#	Grade					
Water Potassium Acid Phthalate Preservative Red Dye	7732-18-5 877-24-7 Proprietary Proprietary	ACS/AS Buffer Commer Purified	ГМ/USP/I cial	EP			
est	Specification	Res					
ppearance	Red liquid	Pass	OH VALUE UN	*No	t a certified value		
est	Certified Value	Unc	ertainty	NIST SI			
H at 25°C (Method: SQCP027, SQCP033)	4.008	0.02		185i, 186-I-g, 186-II-g			
pecification	Ref	erence					
ommercial Buffer Solutions uffer B uffer B	AST	TM (D 1293) TM (D 5464) TM (D 5128)	- 600 (60 - 12				
H measurements were performed in our Pocomoke City, N pertified traceable to National Institute of Standards and T main of comparisons. The uncertainty is calculated from the le NIST Standard Reference Material, and the uncertaint, % coverage in a normal distribution. Volumetric glasswar is calibrated before first use and recalibrated regularly in librated regularly with weights certified traceable to the 1 fore first use and recalibrated regularly with a thermome cuments that assure manufacture according to validated is story for each lot manufactured.	he uncertainty of the measurement y of the measurement process. The re complies with Class A tolerance accordance with ASTM E 542 and NIST national mass standard. The	variation from uncertainty i requirements NIST Proced rmometers an	n sample to s multiplied of ASTM E ure NBSIR 7 d temperatu	above via an sample, the by k=2, corr 288 and NIS 74-461. Balan re probes ar	unbroken incertainty in esponding to T Circular 434; nees are		
rt Numbon	Package Type			1.1	and the second second		
Size / Size /			melf Life (Unopened Container) months months months				

Version: 1.3

Page 1 of 2

RICCA	CHEMICAL	COMPANY®	W31.
			_

V 1841 Broad Street Pocomoke City, MD 21851 http://www.riccachemical.com 1·888-GO-RICCA customerservice@riccachemical.com

Certificate of Analysis

Buffer, Reference Standard, pH 10.00 ± 0.01 at 25°C (Color Coded Blue)

Lot Number:	2410F80
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Ma

Product Number: 1601

Manufacture Date: OCT 09, 2024

Expiration Date: MAR 2026

The certified value for this product is confirmed in independent testing by a second qualified chemist. The NIST traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their correspon

00					01 00 20	Сощу. Al	1 other pl	t values a	t their con	respondi	ar townsomethy
чU	0	5	10	15	20	05				reopondi	ng temperatures are accurate to ± 0.05 .
$_{ m pH}$	10.31	10.23	10.17	10 11	10.05	25	30	35	40	50	
				10.11	10.00	10.00	9.95	9.91	9.87	9.81	

Water	CAS#	Grade			
Sodium Carbonate	7732-18-5	ACS/ASTM/USP/	חק		
Sodium Bicarbonate	497-19-8	ACS	мр При страната странат При страната		
Sodium Hydroxide	144-55-8	ACS			
Preservative	1310-73-2	Reagent			
Blue Dye	Proprietary		and the second second second second		
	Proprietary				
Test	Specification	The second se	200000 Shinks		
Appearance		Result			
Test	Blue liquid	Passed	*Not a certified value.		
pH at 25°C (Method: SQCP027, SQCP033)	Certified Value	Uncertainty	NIST SRM#		
Specification	10.009	0.02	186-I-g, 186-II-g, 191d		

Specification	
Commercial Buffer Solutions	Reference
Buffer C	ASTM (D 1293 B)
Buffer C	ASTM (D 5464)
pH measurements	ASTM (D ELOO)

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Dealer						
1601-1	Size / Package Type	Shelf Life (Unopened Container)					
1601-16	4 L natural poly	10					
1601-1CT	500 mL natural poly	18 months					
1601-2.5 1601-32							
1001-32							
1601-5		18 months					
ersion: 1.3		18 months					
	Lot Number: 2410F80 Product Number						

Froduct Number: 1601

Page 1 of 2



<u>SHIPPING</u> DOCUMENTS

CHAIN OF CUSTODY RECORD 284 Sheffield Street, More (908) 789-8900 Fai www.chemt					78-8922	7092				ch Pr mber	oject r:	t Nur	nber	:	Q) <u>1</u>	774
CLIENT INFORMATION PRO					ORMATIO	N						BI	LLIN	g inf	ORM	ITAN	ON
COMPANY: Tetra T	- Fech	PROJECT NAME: NW	IRP Beth	npage				BILL 1	ro: Se	EE COI	NTRAC	т				PO#	
ADDRESS: 4433 C	orporation Ln, Suite 300								ADDRESS:								
CITY: Virginia Beac		PROJECT MANAGER:						CITY: STATE: ZIP:									
ATTENTION: Ernie	Wu	E-MAIL: ernie.wu@tetra	atech.co					ATTENTION: PHONE: ANALYSIS									
PHONE: 757-466-49	01 FAX: 757-461-4148	PHONE: 757-466-4901	_	-	FAX: 757-4		_										
DATA	TURNAROUND INFORMATION	DATA DE	LIVER	ABLE	INFORM	MATION		(†	·	<u>8</u>	8082)						
FAX: HARD COPY: EDD * TO BE APPROV STANDARD TURI	RESEULTS ONLY USEPA CLP RESULTS + QC New York State ASP "B" New Jersey REDUCED New York State ASP "A" New Jersey CLP Other EDD Format						- VOC's (EPA 624)	표 2	Cotal Metals Second Actals Second Actal Second Second Actal Second	Vda) s,834	5 ERVA	6 TIVE	7	8	9	COMMENTS	
			SAM		SAM		s		_	[1	1	1	1	< Specify Preservatives
CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX		GRAB	COLLE	TIME	# of Bottles	A 1	2	B 3	4	5	6	7	8	9	A-HCI B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other
1.	BP-TB-20250407	QA		Х	4/7/25	9:00	2	2									Trip Blank
2.	TT-073-IDWGW-20250409	AQ		х	4/9/25	11:30	5	2	1	1	1						PH. 1.3 LOT # 80,40441
3.	TT-074-IDWGW-20250409	AQ		Х	4/9/25	11:40	5	2	1	1	1						PH 1.3
4.	TT-075-IDWGW-20250409	AQ		Х	4/9/25	11:50	5	2	1	1	1					<u> </u>	P\$1.0 1
5.																-	L
6.		-								-						-	
7. 8.																	
9.							.A										
10.																	
	SAMPLE CUSTODY MUST BE DOCU	JMENTED BELOW	EACH	TIM	E SAMPI	LES CH	ANGE	PRO	SSE	SSIO	N IN	CLUI	DING	COL	JRIE	R DI	ELIVERY
RELINQUISHED BY RELINQUISHED BY 2 FEAF	SAMPLER DATE/TIME RECEIVED BY - 4/9/25	(A)	Condit MeOH Comm	ions c extrac ents:	of bottles o ction requir TO-WE13 I	r coolers a res an add	at recei itional	pt: 4oz. Ja	q Col Ir for	mpliar perce	nt q ntsoli	Non (id	Comp	liant	q Coo Adju	oler T q st F/	emp 2.3'C ice in Cooler?: 4 ACION + 4 NU +4
RELINQUISHED B		LAB BY	Page_1_of_1 SHIPPED VIA: CLIENT: □ Hand Delivered □ Overnight Shipment Complete CHEMTECH: □ Picked Up □ Overnight □ YES														
		ECH COPYFOR RETUR	N TO C	LIENT	YELLO	OW - CHEN	ITECH	COPY	P	INK -	SAMP	LER (COPY				

Q1774-GENCHEM

From: Sent: Subject: Attachments: Wu, Ernie <Ernie.Wu@tetratech.com> Thursday, April 10, 2025 2:48 PM RE: Q1774 SKM_C55825041011470.pdf

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Secured by Check Point

Kiran,

Thanks for letting me know. Please proceed with the analysis without the trip blank.

Ernie

Ernie Wu | Project Manager | Environmental Scientist Direct +1 (757) 466-4148 | Business +1 (757) 461-3768 | <u>ernie.wu@tetratech.com</u> Time Zone: Eastern Time

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From: Kiran Saleem <Kiran.Saleem@alliancetg.com>
Sent: Thursday, April 10, 2025 12:45 PM
To: Wu, Ernie <Ernie.Wu@tetratech.com>
Cc: Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
Subject: Q1774

CAUTION: This email originated from an external sender. Verify the source before opening links or attachments.

Good Afternoon Ernie,

I am reaching out to inform you that we did not receive the sample 1 which is BP-TB-20250407 for attached COC.

Thanks.

NOTE: Chemtech is now an Alliance Technical Group company. Please add <u>AllianceTG.com</u> to your safe senders list to ensure receipt of important emails.

Regards,



Kiran Saleem Project Manager Alliance Technical Group Main: 908-789-8900 Direct: 908-728-3148 Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092 www.alliancetg.com



Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
	20012
New York	11376
	1070
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
	525-24-254-00441
Toyoo	T104704488
Texas	1 1047 04468



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID:Q1774TETR06Client Name:Tetra Tech NUS, Inc.Client Contact:Ernie WuInvoice Name:Tetra Tech NUS, Inc.Invoice Contact:Ernie Wu		Inc.	Pi Receiv	roject Name :	4/10/2025 10:43:00 AM CTO WE13 4/10/2025 9:50:00 AM	H	-	rt Type: Level 4 D Type: ADAPT ny Date:				
LAB ID	CLIENT ID	MA	TRIX SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES		
Q1774-01	-> BP-TB-20250407	₩ -	Vater 04/09/202	5 09:00								
Q1774-02	TT-073-IDWGW-2025	0409 W	Vater 04/09/2028	5 11:30	VOCME Group4		6 24.1	⁻ 2 Bu s. Days				
					VOCMS Group4		624.1	2 Bus. Days				
Q1774-03	TT-074-IDWGW-20250)409 W	/ater 04/09/2025	5 11:40								
					VOCMS Group4		624.1	2 Bus. Days				
Q1774-04	TT-075-IDWGW-20250	0409 W	/ater 04/09/2025	5 11:50								
					VOCMS Group4		624.1	2 Bus. Days				

Relinguished By : Date / Time : 4402 1120

Received By : 11:20 1025 Date / Time :

Storage Area : VOA Refridgerator Room