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

Cover Page

Order ID : Q2481

Project ID : CC2-16 Analytical

Client : Environmental Restoration, LLC

Lab Sample Number	Client Sample Number
Q2481-01	CC0627-AL
Q2481-02	CC0627-CLOXPL
Q2481-03	CC0625-OXBL
Q2481-04	CC0627-AOXL
Q2481-05	CC0625-NL
Q2481-06	CC0267-OXPL
Q2481-07	CC0627-OXL
Q2481-08	CC0627-CLOXAL
Q2481-09	CC0627-BL
Q2481-10	CC0627-SFBL

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: 7/10/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

CASE NARRATIVE

Environmental Restoration, LLC
Project Name: CC2-16 Analytical
Project # N/A
Order ID # Q2481
Test Name: Flash Point,pH

A. Number of Samples and Date of Receipt:
10 Water samples were received on 06/27/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Flash Point, PCB, pH, TCLP Extraction, TCLP ICP Metals and TCLP Mercury. This data package contains results for Flash Point,pH.

C. Analytical Techniques:
The analysis of Flash Point was based on method 1010B and The analysis of pH was based on method 9040C.

D. QA/ QC Samples:
The Holding Times were met for all samples except for CC0627-OXPL of pH, for CC0625-NL of pH.for CC0625-OXBL of pH.for CC0627-AL of pH.for CC0627-AOXL of pH.for CC0627-BL of pH.for CC0627-CLOXAL of pH.for CC0627-CLOXPL of pH.for CC0627-OXL of pH.for CC0627-SFBL of pH as samples were receive out of holding time.
The Duplicate analysis met criteria for all parameters.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

E. Additional Comments:

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_____

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside NJ 07092
Tel. 908-789-8900 Fax: 908-789-8922

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
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	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	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 **"C"** for Manual Spectrophotometric **"T"** for Titrimetric **"NR"** for analyte not required to be analyzed
OR	Indicates 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
H	Sample Analysis Out Of Hold Time

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q2481**

	Completed
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: **PRADIP PRAJAPATI** **Date:** **07/10/2025**

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

LAB CHRONICLE

OrderID:	Q2481	**OrderDate:**	7/2/2025 8:24:39 AM
Client:	Environmental Restoration, LLC	**Project:**	CC2-16 Analytical
Contact:	Ryan Simpson	**Location:**	A13

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2481-01	**CC0627-AL**	**Water**			**06/27/25 10:19**			**06/27/25**
			Flash Point	1010B			07/08/25 14:00	
			pH	9040C			07/03/25 09:35	
Q2481-02	**CC0627-CLOXPL**	**Water**			**06/27/25 10:21**			**06/27/25**
			Flash Point	1010B			07/08/25 15:00	
			pH	9040C			07/03/25 09:40	
Q2481-03	**CC0625-OXBL**	**Water**			**06/27/25 10:23**			**06/27/25**
			Flash Point	1010B			07/08/25 15:30	
			pH	9040C			07/03/25 10:00	
Q2481-04	**CC0627-AOXL**	**Water**			**06/27/25 10:25**			**06/27/25**
			Flash Point	1010B			07/08/25 16:00	
			pH	9040C			07/03/25 10:10	
Q2481-05	**CC0625-NL**	**Water**			**06/27/25 10:27**			**06/27/25**
			Flash Point	1010B			07/08/25 11:00	

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

LAB CHRONICLE

			pH	9040C		07/03/25 10:25	
Q2481-06	**CC0627-OXPL**	**Water**			**06/27/25 10:29**		**06/27/25**
			Flash Point	1010B		07/08/25 12:00	
			pH	9040C		07/03/25 10:35	
Q2481-07	**CC0627-OXL**	**Water**			**06/27/25 10:31**		**06/27/25**
			Flash Point	1010B		07/08/25 12:30	
			pH	9040C		07/03/25 10:40	
Q2481-08	**CC0627-CLOXAL**	**Water**			**06/27/25 10:33**		**06/27/25**
			Flash Point	1010B		07/08/25 13:00	
			pH	9040C		07/03/25 10:45	
Q2481-09	**CC0627-BL**	**Water**			**06/27/25 10:35**		**06/27/25**
			Flash Point	1010B		07/08/25 13:30	
			pH	9040C		07/03/25 10:50	
Q2481-10	**CC0627-SFBL**	**Water**			**06/27/25 10:37**		**06/27/25**
			Flash Point	1010B		07/08/25 14:00	
			pH	9040C		07/03/25 11:15	

SAMPLE DATA

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

Report of Analysis

Client:	Environmental Restoration, LLC	Date Collected:	06/27/25 10:19
Project:	CC2-16 Analytical	Date Received:	06/27/25
Client Sample ID:	CC0627-AL	SDG No.:	Q2481
Lab Sample ID:	Q2481-01	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Flash Point	>212		1	0	0	o F		07/08/25 14:00	1010B
pH	1.50	H	1	0	0	pH		07/03/25 09:35	9040C

Comments: Other method reference for flash point : Pensky-Martens Closed Cup Flash Point ASTM D 93 - IP 34, pH result reported at temperature

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

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

Report of Analysis

Client:	Environmental Restoration, LLC	Date Collected:	06/27/25 10:21
Project:	CC2-16 Analytical	Date Received:	06/27/25
Client Sample ID:	CC0627-CLOXPL	SDG No.:	Q2481
Lab Sample ID:	Q2481-02	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Flash Point	108		1	0	0	o F		07/08/25 15:00	1010B
pH	5.02	H	1	0	0	pH		07/03/25 09:40	9040C

Comments: Other method reference for flash point : Pensky-Martens Closed Cup Flash Point ASTM D 93 - IP 34, pH result reported at temperature

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

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

Report of Analysis

Client:	Environmental Restoration, LLC	Date Collected:	06/27/25 10:23
Project:	CC2-16 Analytical	Date Received:	06/27/25
Client Sample ID:	CC0625-OXBL	SDG No.:	Q2481
Lab Sample ID:	Q2481-03	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Flash Point	>212		1	0	0	o F		07/08/25 15:30	1010B
pH	14.1	H	1	0	0	pH		07/03/25 10:00	9040C

Comments: Other method reference for flash point : Pensky-Martens Closed Cup Flash Point ASTM D 93 - IP 34, pH result reported at temperature

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

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

Report of Analysis

Client:	Environmental Restoration, LLC	Date Collected:	06/27/25 10:25
Project:	CC2-16 Analytical	Date Received:	06/27/25
Client Sample ID:	CC0627-AOXL	SDG No.:	Q2481
Lab Sample ID:	Q2481-04	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Flash Point	>212		1	0	0	o F		07/08/25 16:00	1010B
pH	1.50	H	1	0	0	pH		07/03/25 10:10	9040C

Comments: Other method reference for flash point : Pensky-Martens Closed Cup Flash Point ASTM D 93 - IP 34, pH result reported at temperature

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

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

Report of Analysis

Client:	Environmental Restoration, LLC	Date Collected:	06/27/25 10:27
Project:	CC2-16 Analytical	Date Received:	06/27/25
Client Sample ID:	CC0625-NL	SDG No.:	Q2481
Lab Sample ID:	Q2481-05	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Flash Point	>212		1	0	0	o F		07/08/25 11:00	1010B
pH	10.0	H	1	0	0	pH		07/03/25 10:25	9040C

Comments: Other method reference for flash point : Pensky-Martens Closed Cup Flash Point ASTM D 93 - IP 34, pH result reported at temperature

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

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

Report of Analysis

Client:	Environmental Restoration, LLC	Date Collected:	06/27/25 10:29
Project:	CC2-16 Analytical	Date Received:	06/27/25
Client Sample ID:	CC0627-OXPL	SDG No.:	Q2481
Lab Sample ID:	Q2481-06	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Flash Point	127		1	0	0	o F		07/08/25 12:00	1010B
pH	6.02	H	1	0	0	pH		07/03/25 10:35	9040C

Comments: Other method reference for flash point : Pensky-Martens Closed Cup Flash Point ASTM D 93 - IP 34, pH result reported at temperature

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

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

Report of Analysis

Client:	Environmental Restoration, LLC	Date Collected:	06/27/25 10:31
Project:	CC2-16 Analytical	Date Received:	06/27/25
Client Sample ID:	CC0627-OXL	SDG No.:	Q2481
Lab Sample ID:	Q2481-07	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Flash Point	92.9		1	0	0	o F		07/08/25 12:30	1010B
pH	6.02	H	1	0	0	pH		07/03/25 10:40	9040C

Comments: Other method reference for flash point : Pensky-Martens Closed Cup Flash Point ASTM D 93 - IP 34, pH result reported at temperature

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

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

Report of Analysis

Client:	Environmental Restoration, LLC	Date Collected:	06/27/25 10:33
Project:	CC2-16 Analytical	Date Received:	06/27/25
Client Sample ID:	CC0627-CLOXAL	SDG No.:	Q2481
Lab Sample ID:	Q2481-08	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Flash Point	>212		1	0	0	o F		07/08/25 13:00	1010B
pH	5.03	H	1	0	0	pH		07/03/25 10:45	9040C

Comments: Other method reference for flash point : Pensky-Martens Closed Cup Flash Point ASTM D 93 - IP 34, pH result reported at temperature

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

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

Report of Analysis

Client:	Environmental Restoration, LLC	Date Collected:	06/27/25 10:35
Project:	CC2-16 Analytical	Date Received:	06/27/25
Client Sample ID:	CC0627-BL	SDG No.:	Q2481
Lab Sample ID:	Q2481-09	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Flash Point	>212		1	0	0	o F		07/08/25 13:30	1010B
pH	14.0	H	1	0	0	pH		07/03/25 10:50	9040C

Comments: Other method reference for flash point : Pensky-Martens Closed Cup Flash Point ASTM D 93 - IP 34, pH result reported at temperature

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

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

Report of Analysis

Client:	Environmental Restoration, LLC	Date Collected:	06/27/25 10:37
Project:	CC2-16 Analytical	Date Received:	06/27/25
Client Sample ID:	CC0627-SFBL	SDG No.:	Q2481
Lab Sample ID:	Q2481-10	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Flash Point	>212		1	0	0	o F		07/08/25 14:00	1010B
pH	14.1	H	1	0	0	pH		07/03/25 11:15	9040C

Comments: Other method reference for flash point : Pensky-Martens Closed Cup Flash Point ASTM D 93 - IP 34, pH result reported at temperature

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

QC RESULT SUMMARY

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

Initial and Continuing Calibration Verification

Client: Environmental Restoration, LLC **SDG No.:** Q2481

Project: CC2-16 Analytical **RunNo.:** LB136367

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV						
pH		pH	7.02	7	100	90-110	07/03/2025
Sample ID:	CCV1						
pH		pH	2.01	2.00	101	90-110	07/03/2025
Sample ID:	CCV2						
pH		pH	12.02	12.00	100	90-110	07/03/2025
Sample ID:	CCV3						
pH		pH	2.01	2.00	101	90-110	07/03/2025

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

Initial and Continuing Calibration Verification

Client:	Environmental Restoration, LLC	**SDG No.:**	Q2481
Project:	CC2-16 Analytical	**RunNo.:**	LB136395

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Flash Point	o F	82.4	81	102	78-84	07/08/2025

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

Initial and Continuing Calibration Verification

Client:	Environmental Restoration, LLC	**SDG No.:**	Q2481
Project:	CC2-16 Analytical	**RunNo.:**	LB136398

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Flash Point	o F	82.1	81	101	78-84	07/08/2025

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

Duplicate Sample Summary

Client: Environmental Restoration, LLC
SDG No.: Q2481
Project: CC2-16 Analytical
Sample ID: Q2481-01
Client ID: CC0627-ALDUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
pH	pH	+/-20	1.50		1.36		1	9.79		07/03/2025
Flash Point	o F	+/-2	>212.0		>212.0		1	0		07/08/2025

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

Duplicate Sample Summary

Client: Environmental Restoration, LLC
SDG No.: Q2481
Project: CC2-16 Analytical
Sample ID: Q2481-05
Client ID: CC0625-NLDUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Flash Point	o F	+/-2	>212.0		>212.0		1	0		07/08/2025

Alliance
TECHNICAL GROUP

RAW DATA

Reviewed By:Iwona
On:7/3/2025 12:55:38 PM
Inst Id :WC PH METER-1

Analytical Summary Report

Analysis Method: 9040C
Parameter: pH
Run Number: LB136367

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	W3217
Buffer Solution, PH2 (500ml)	W3161
pH 12.00 Buffer	W3200

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

True Value of CCV1 = 2.00 Control Limits[+/- 0.05].

True Value of CCV2 = 12.00 Control Limits[+/- 0.05].

True Value of CCV3 = 2.00 Control Limits[+/- 0.05].

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	07/03/2025	09:10
2	CAL2	1	Water	NA	NA	20.2	7.00	07/03/2025	09:11
3	CAL3	1	Water	NA	NA	20.3	10.02	07/03/2025	09:15
4	ICV	1	Water	NA	NA	20.3	7.02	07/03/2025	09:20
5	CCV1	1	Water	NA	NA	20.3	2.01	07/03/2025	09:25
6	Q2481-01	1	Water	NA	NA	20.3	1.5	07/03/2025	09:35
7	Q2481-01DUP	1	Water	NA	NA	20.3	1.36	07/03/2025	09:36
8	Q2481-02	1	Water	NA	NA	20.5	5.02	07/03/2025	09:40
9	Q2481-03	1	Water	NA	NA	20.6	14.12	07/03/2025	10:00
10	Q2481-04	1	Water	NA	NA	20.1	1.5	07/03/2025	10:10
11	Q2481-05	1	Water	NA	NA	20.6	10.02	07/03/2025	10:25
12	Q2481-06	1	Water	NA	NA	20.1	6.02	07/03/2025	10:35
13	Q2481-07	1	Water	NA	NA	20.3	6.02	07/03/2025	10:40
14	Q2481-08	1	Water	NA	NA	20.1	5.03	07/03/2025	10:45
15	Q2481-09	1	Water	NA	NA	20.1	14.03	07/03/2025	10:50
16	CCV2	1	Water	NA	NA	20.2	12.02	07/03/2025	11:00
17	Q2481-10	1	Water	NA	NA	20.3	14.05	07/03/2025	11:15
18	CCV3	1	Water	NA	NA	20.2	2.01	07/03/2025	11:20

WORKLIST(Hardcopy Internal Chain)

UB 13637

WorkList Name : ph w q2481 **WorkList ID :** 190535 **Department :** Wet-Chemistry **Date :** 07-03-2025 08:49:54

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2481-01	CC0627-AL	Water	pH	Cool 4 deg C	ENVI60	A13	06/27/2025	9040C
Q2481-02	CC0627-CLOXPL	Water	pH	Cool 4 deg C	ENVI60	A13	06/27/2025	9040C
Q2481-03	CC0625-OXBL	Water	pH	Cool 4 deg C	ENVI60	A13	06/27/2025	9040C
Q2481-04	CC0627-AOXL	Water	pH	Cool 4 deg C	ENVI60	A13	06/27/2025	9040C
Q2481-05	CC0625-NL	Water	pH	Cool 4 deg C	ENVI60	A13	06/27/2025	9040C
Q2481-06	CC0267-OXPL	Water	pH	Cool 4 deg C	ENVI60	A13	06/27/2025	9040C
Q2481-07	CC0627-OXL	Water	pH	Cool 4 deg C	ENVI60	A13	06/27/2025	9040C
Q2481-08	CC0627-CLOXAL	Water	pH	Cool 4 deg C	ENVI60	A13	06/27/2025	9040C
Q2481-09	CC0627-BL	Water	pH	Cool 4 deg C	ENVI60	A13	06/27/2025	9040C
Q2481-10	CC0627-SFBL	Water	pH	Cool 4 deg C	ENVI60	A13	06/27/2025	9040C

Date/Time 07/03/25 09:00

Raw Sample Received by: JD (WC)

Raw Sample Relinquished by: JD (SM)

Date/Time 07/03/25 12:30

Raw Sample Received by: JD (SM)

Raw Sample Relinquished by: JD (WC)

Analytical Summary Report

Analysis Method: 1010B
Reviewed By: Iwona
Parameter: Flash Point
Supervisor Review By: jignesh
Run Number: LB136395
Ambient Barometric Pressure(mmHg): 760.00
Thermometer ID: Flashpoint
Barometric Scale ID: 0511064

Reagent/Standard	Lot/Log #
p-xylene (ICV)	W3194

Seq	LabID	True Value °F	DL	Initial Sample °C	Celsius °C	Result °F	Final Result °F	Anal Date	Anal Time
1	ICV	81	1	8	28.00	82.4	82.4	07/08/2025	13:30
2	Q2481-01		1	12	100.00	>212.0	>212.0	07/08/2025	14:00
3	Q2481-01DUP		1	13	100.00	>212.0	>212.0	07/08/2025	14:30
4	Q2481-02		1	6	42.00	107.6	107.6	07/08/2025	15:00
5	Q2481-03		1	12	100.00	>212.0	>212.0	07/08/2025	15:30
6	Q2481-04		1	12	100.00	>212.0	>212.0	07/08/2025	16:00

Result = (Celsius * 1.8) + 32

Final Result = Result + (760 - Ambient Barometric Pressure) * 0.06

LB 136395

WORKLIST(Hardcopy Internal Chain)

WorkList Name : fp-2481 **WorkList ID :** 190587 **Department :** Wet-Chemistry **Date :** 07-07-2025 10:07:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2481-01	CC0627-AL	Water	Flash Point	Cool 4 deg C	ENVI60	A13	06/27/2025	1010B
Q2481-02	CC0627-CLOXPL	Water	Flash Point	Cool 4 deg C	ENVI60	A13	06/27/2025	1010B
Q2481-03	CC0625-OXBL	Water	Flash Point	Cool 4 deg C	ENVI60	A13	06/27/2025	1010B
Q2481-04	CC0627-AOXL	Water	Flash Point	Cool 4 deg C	ENVI60	A13	06/27/2025	1010B

Date/Time 07/07/25 13:20
Raw Sample Received by: 12(-c)
Raw Sample Relinquished by:

Date/Time 07/07/25 16:45
Raw Sample Received by:
Raw Sample Relinquished by: 12(-c)

Analytical Summary Report

Analysis Method: 1010B
Parameter: Flash Point
Run Number: LB136398
Thermometer ID: Flashpoint

Reviewed By: Iwona
Supervisor Review By: jignesh
Ambient Barometric Pressure(mmHg): 765.00
Barometric Scale ID: 0511064

Reagent/Standard	Lot/Log #
p-xylene (ICV)	W3194

Seq	LabID	True Value °F	DL	Initial Sample °C	Celsius °C	Result °F	Final Result °F	Anal Date	Anal Time
1	ICV	81	1	8	28.00	82.4	82.1	07/08/2025	10:30
2	Q2481-05		1	12	100.00	>212.0	>212.0	07/08/2025	11:00
3	Q2481-05DUP		1	12	100.00	>212.0	>212.0	07/08/2025	11:30
4	Q2481-06		1	6	53.00	127.4	127.1	07/08/2025	12:00
5	Q2481-07		1	6	34.00	93.2	92.9	07/08/2025	12:30
6	Q2481-08		1	13	100.00	>212.0	>212.0	07/08/2025	13:00
7	Q2481-09		1	12	100.00	>212.0	>212.0	07/08/2025	13:30
8	Q2481-10		1	13	100.00	>212.0	>212.0	07/08/2025	14:00

Result = (Celsius * 1.8) + 32

Final Result = Result + (760 - Ambient Barometric Pressure) * 0.06

WORKLIST(Hardcopy Internal Chain)

WorkList Name : FLASH POINT+ **WorkList ID :** 190589 **Department :** Wet-Chemistry **Date :** 07-07-2025 08:52:22

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2481-05	CC0625-NL	Water	Flash Point	Cool 4 deg C	ENVI60	A13	06/27/2025	1010B
Q2481-06	CC0267-OXPL	Water	Flash Point	Cool 4 deg C	ENVI60	A13	06/27/2025	1010B
Q2481-07	CC0627-OXL	Water	Flash Point	Cool 4 deg C	ENVI60	A13	06/27/2025	1010B
Q2481-08	CC0627-CLOXAL	Water	Flash Point	Cool 4 deg C	ENVI60	A13	06/27/2025	1010B
Q2481-09	CC0627-BL	Water	Flash Point	Cool 4 deg C	ENVI60	A13	06/27/2025	1010B
Q2481-10	CC0627-SFBL	Water	Flash Point	Cool 4 deg C	ENVI60	A13	06/27/2025	1010B

Date/Time 07/08/25 10:15
Raw Sample Received by: 12(-)C
Raw Sample Relinquished by:

Date/Time 07/08/25 14:40
Raw Sample Received by:
Raw Sample Relinquished by: 12(-)C

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

Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136367

Review By	jignesh	Review On	7/3/2025 9:29:38 AM
Supervise By	Iwona	Supervise On	7/3/2025 12:55:38 PM
SubDirectory	LB136367	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,W3191,W3217,W3161,W3200

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	07/03/25 09:10		jignesh	OK
2	CAL2	CAL2	CAL	07/03/25 09:11		jignesh	OK
3	CAL3	CAL3	CAL	07/03/25 09:15		jignesh	OK
4	ICV	ICV	ICV	07/03/25 09:20		jignesh	OK
5	CCV1	CCV1	CCV	07/03/25 09:25		jignesh	OK
6	Q2481-01	CC0627-AL	SAM	07/03/25 09:35		jignesh	OK
7	Q2481-01DUP	CC0627-ALDUP	DUP	07/03/25 09:36		jignesh	OK
8	Q2481-02	CC0627-CLOXPL	SAM	07/03/25 09:40		jignesh	OK
9	Q2481-03	CC0625-OXBL	SAM	07/03/25 10:00		jignesh	OK
10	Q2481-04	CC0627-AOXL	SAM	07/03/25 10:10		jignesh	OK
11	Q2481-05	CC0625-NL	SAM	07/03/25 10:25		jignesh	OK
12	Q2481-06	CC0627-OXPL	SAM	07/03/25 10:35		jignesh	OK
13	Q2481-07	CC0627-OXL	SAM	07/03/25 10:40		jignesh	OK
14	Q2481-08	CC0627-CLOXAL	SAM	07/03/25 10:45		jignesh	OK
15	Q2481-09	CC0627-BL	SAM	07/03/25 10:50		jignesh	OK
16	CCV2	CCV2	CCV	07/03/25 11:00		jignesh	OK
17	Q2481-10	CC0627-SFBL	SAM	07/03/25 11:15		jignesh	OK
18	CCV3	CCV3	CCV	07/03/25 11:20		jignesh	OK

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

Instrument ID: IGN-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136395

Review By	Iwona	Review On	7/8/2025 2:12:17 PM
Supervise By	jignesh	Supervise On	7/8/2025 3:00:27 PM
SubDirectory	LB136395	Test	Flash Point

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	W3194

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	ICV	ICV	ICV	07/08/25 13:30		Iwona	OK
2	Q2481-01	CC0627-AL	SAM	07/08/25 14:00		Iwona	OK
3	Q2481-01DUP	CC0627-ALDUP	DUP	07/08/25 14:30		Iwona	OK
4	Q2481-02	CC0627-CLOXPL	SAM	07/08/25 15:00		Iwona	OK
5	Q2481-03	CC0625-OXBL	SAM	07/08/25 15:30		Iwona	OK
6	Q2481-04	CC0627-AOXL	SAM	07/08/25 16:00		Iwona	OK

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

Instrument ID: IGN-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136398

Review By	Iwona	Review On	7/8/2025 3:58:30 PM
Supervise By	jignesh	Supervise On	7/8/2025 4:36:35 PM
SubDirectory	LB136398	Test	Flash Point

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	W3194

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	ICV	ICV	ICV	07/08/25 10:30		Iwona	OK
2	Q2481-05	CC0625-NL	SAM	07/08/25 11:00		Iwona	OK
3	Q2481-05DUP	CC0625-NLDUP	DUP	07/08/25 11:30		Iwona	OK
4	Q2481-06	CC0627-OXPL	SAM	07/08/25 12:00		Iwona	OK
5	Q2481-07	CC0627-OXL	SAM	07/08/25 12:30		Iwona	OK
6	Q2481-08	CC0627-CLOXAL	SAM	07/08/25 13:00		Iwona	OK
7	Q2481-09	CC0627-BL	SAM	07/08/25 13:30		Iwona	OK
8	Q2481-10	CC0627-SFBL	SAM	07/08/25 14:00		Iwona	OK

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

Prep Standard - Chemical Standard Summary

Order ID : Q2481

Test : Flash Point,pH

Prepbatch ID :

Sequence ID/Qc Batch ID: LB136367,LB136395,LB136398,

Standard ID :

Chemical ID :
W3093,W3161,W3178,W3191,W3194,W3200,W3217,

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

CHEMICAL RECEIPT LOG BOOK

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 / lwona	12/09/2024 / lwona	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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	1601-1 / PH 10.01 BUFFER,COLOR CD 475ML	2410F80	03/31/2026	04/01/2025 / JIGNESH	03/13/2025 / jignesh	W3191

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	TCX0014-500ML / p-xylene	C6PEN	03/19/2029	06/30/2025 / rubina	03/19/2025 / lwona	W3194

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
RICCA CHEMICAL COMPANY	1615-16 / pH 12.00 Buffer	2504F20	09/30/2026	04/11/2025 / lwona	04/11/2025 / lwona	W3200

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

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	2504D34	03/31/2027	07/02/2025 / jignesh	06/26/2025 / Iwona	W3217

RICCA CHEMICAL COMPANY®

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

W3093 0941.. 04/03/2024 LG

Certificate of Analysis

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

Lot Number: 4401F99 **Product Number:** 1551

Manufacture Date: JAN 08, 2024
Expiration Date: DEC 2025

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 corresponding temperatures are accurate to ± 0.05.

°C	0	5	10	15	20	25	30	35	40	45	50
pH	7.12	7.09	7.06	7.04	7.02	7.00	6.99	6.98	6.98	6.97	6.97

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Phosphate Dibasic	7558-79-4	ACS
Potassium Dihydrogen Phosphate	7778-77-0	ACS
Preservative	Proprietary	
Yellow Dye	Proprietary	
Sodium Hydroxide	1310-73-2	

Test	Specification	Result	
Appearance	Yellow liquid	Passed	*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	7.004	0.02	186-I-g, 186-II-g, 191d

Specification	Reference
Commercial Buffer Solutions	ASTM (D 1293 B)
Buffer A	ASTM (D 5464)
Buffer A	ASTM (D 5128)

pH measurements were performed in our Batesville, IN laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.02) 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 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 Storage: 15°C - 30°C (59°F - 86°F)

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

RICCA CHEMICAL COMPANY®

W3161 Rec. on 12/09/24 by IZ

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 2.00 ± 0.01 at 25°C

Lot Number: 2411E26 **Product Number:** 1493

Manufacture Date: NOV 11, 2024
Expiration Date: OCT 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 corresponding temperatures 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	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Chloride	7447-40-7	ACS
Hydrochloric Acid	7647-01-0	ACS

Test	Specification	Result	
Appearance	Colorless liquid	Passed	*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	1.994	0.02	185i, 186-I-g, 186-II-g

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 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)

Jose Pena (11/11/2024)
Operations Manager

This product was tested in an ISO 17025 Accredited Laboratory

RICCA CHEMICAL COMPANY®

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

Certificate of Analysis

W3178 58

Buffer, Reference Standard, pH 4.00 ± 0.01 at 25°C (Color Coded Red)

Lot Number: 2411A93 **Product Number:** 1501 **Manufacture Date:** NOV 04, 2024
Expiration Date: OCT 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 corresponding temperatures are accurate to ± 0.05.

°C	0	5	10	15	20	25	30	35	40	45	50
pH	4.00	4.00	4.00	4.00	4.00	4.00	4.01	4.02	4.03	4.04	4.06

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Acid Phthalate	877-24-7	Buffer
Preservative	Proprietary	Commercial
Red Dye	Proprietary	Purified

Test	Specification	Result	
Appearance	Red liquid	Passed	*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	4.008	0.02	185i, 186-I-g, 186-II-g

Specification	Reference
Commercial Buffer Solutions	ASTM (D 1293 B)
Buffer B	ASTM (D 5464)
Buffer B	ASTM (D 5128)

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 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)
1501-16	500 mL natural poly	24 months
1501-2.5	10 L Cubitainer®	24 months
1501-5	20 L Cubitainer®	24 months

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

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

W3191 W3191 Receive Date: 03/18/25 JP

Certificate of Analysis

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

Lot Number: 2410F80 **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 corresponding temperatures are accurate to ± 0.05.

°C	0	5	10	15	20	25	30	35	40	50
pH	10.31	10.23	10.17	10.11	10.05	10.00	9.95	9.91	9.87	9.81

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Carbonate	497-19-8	ACS
Sodium Bicarbonate	144-55-8	ACS
Sodium Hydroxide	1310-73-2	Reagent
Preservative	Proprietary	
Blue Dye	Proprietary	

Test	Specification	Result	
Appearance	Blue liquid	Passed	*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	10.009	0.02	186-I-g, 186-II-g, 191d

Specification	Reference
Commercial Buffer Solutions	
Buffer C	ASTM (D 1293 B)
Buffer C	ASTM (D 5464)
	ASTM (D 5128)

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 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)
1601-1	4 L natural poly	18 months
1601-16	500 mL natural poly	18 months
1601-1CT	4 L Cubitainer®	18 months
1601-2.5	10 L Cubitainer®	18 months
1601-32	1 L natural poly	18 months
1601-5	20 L Cubitainer®	18 months

W3193, W3194 Received on 03/19/2025 by IZ

Certificate of Analysis

03/19/2025(JST)

TOKYO CHEMICAL INDUSTRY CO.,LTD.
T-PLUS Nihonbashi-Kodemmacho
16-12 Nihonbashi-kodemmacho, Chuo-ku, Tokyo 103-0001, Japan

Chemical Name: ***p*-Xylene**		
Product Number: X0014 CAS RN: 106-42-3	Lot: C6PEN	

Tests	Results	Specifications
Appearance	Colorless clear liquid	Colorless to Almost colorless clear liquid
Purity(GC)	99.7 %	min. 99.0 %

TCI Lot numbers are 4-5 characters in length. Characters listed after the first 4-5 characters are control numbers for internal purpose only.
The contents of the specifications are subject to change without advance notice. The specification values displayed here are the most up to date values. There may be cases where the product labels display a different specification, however, the product quality still meets the latest specification.

Customer Service:

TCI AMERICA
Tel: +1-800-423-8616 / +1-503-283-1681
Fax: +1-888-520-1075 / +1-503-283-1987
E-mail: Sales-US@TCIchemicals.com

Takuya Nishioka
Quality Assurance Department Manager

RICCA CHEMICAL COMPANY®

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

W3200 Received on 04/11/2025 by IZ

Certificate of Analysis

Buffer, Reference Standard, pH 12.00 ± 0.01 at 25°C

Lot Number: 2504F20 **Product Number:** 1615

Manufacture Date: APR 08, 2025
Expiration Date: SEP 2026

The certified value for this product is confirmed in independent testing by a second qualified chemist.

°C	15	20	25	30	35	40
pH	12.35	12.17	11.99	11.78	11.62	11.46

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Chloride	7447-40-7	ACS
Sodium Hydroxide	1310-73-2	Reagent (from ACS)

Test	Specification	Result	
Appearance	Colorless liquid	Passed	*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	12.009	0.02	186-I-g, 186-II-g, 191d

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 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)
1615-1	4 L natural poly	18 months
1615-16	500 mL clear PET-G	18 months
1615-5	20 L Cubitainer®	18 months

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

Jose Pena (04/08/2025)
Operations Manager

This product was tested in an ISO 17025 Accredited Laboratory

RICCA CHEMICAL COMPANY®

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 7.00 ± 0.01 at 25°C (Color Coded Yellow)

Lot Number: 2504D34 **Product Number:** 1551

Manufacture Date: APR 03, 2025
Expiration Date: MAR 2027

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 corresponding temperatures are accurate to ± 0.05.

°C	0	5	10	15	20	25	30	35	40	45	50
pH	7.12	7.09	7.06	7.04	7.02	7.00	6.99	6.98	6.98	6.97	6.97

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Phosphate Dibasic	7558-79-4	ACS
Potassium Dihydrogen Phosphate	7778-77-0	ACS
Preservative	Proprietary	
Yellow Dye	Proprietary	
Sodium Hydroxide	1310-73-2	Reagent (from ACS)

Test	Specification	Result	
Appearance	Yellow liquid	Passed	*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	7.003	0.02	186-I-g, 186-II-g, 191d

Specification	Reference
Commercial Buffer Solutions	ASTM (D 1293 B)
Buffer A	ASTM (D 5464)
Buffer A	ASTM (D 5128)

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 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)
1551-2.5	10 L Cubitainer®	24 months
1551-20	20 x 20 mL pack	24 months
1551-32	1 L natural poly	24 months
1551-5	20 L Cubitainer®	24 months

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

Jose Pena (04/03/2025)
Operations Manager

This product was tested in an ISO 17025 Accredited Laboratory

SHIPPING DOCUMENTS

1072

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092 Ste. 1
(908) 789-8900 Fax: (908) 788-9222
www.chemtech.net

CHAIN OF CUSTODY RECORD

Alliance Project Number: Q2483

COC Number: CC-016-001

CLIENT INFORMATION		PROJECT INFORMATION		BILLING INFORMATION	
COMPANY:	ENVIRONMENTAL RESTORATION LLC	PROJECT NAME:	COOPER CHEMICAL	BILL TO:	ENVIRONMENTAL RESTORATION PO# CC2-16
ADDRESS:	1666 FABICK DR	PROJECT #:	CC2-16 LOCATION: LANE ALLEY, NJ	ADDRESS:	1666 FABICK DR
CITY:	FENTON STATE: MO ZIP: 63026	PROJECT MANAGER:	Byron Hartman	CITY:	FENTON STATE: MO ZIP: 63026
ATTENTION:	Ryan Simpson	E-MAIL:	b.hartman@erllc.com	ATTENTION:	RYAN SIMPSON PHONE: 314 403 3908
PHONE:	314 403 3908 FAX:	PHONE:	801 209-0368 FAX:		

DATA TURNAROUND INFORMATION

FAX:_____ DAYS*
HARD COPY:_____ DAYS*
EDD 7 DAYS*
* TO BE APPROVED BY ALLIANCE
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ RESULTS ONLY
- ☐ RESULTS + QC
- ☐ New Jersey REDUCED
- ☐ New Jersey CLP
- ☐ EDD Format_____
- ☐ USEPA CLP
- ☐ New York State ASP "B"
- ☐ New York State ASP "A"
- ☐ Other_____

ANALYSIS

1	2	3	4	5	6	7	8	9
FLASHPOINT	pH	Reactive CN	Reactive Sulfide	Total Halogens	Total Organic Halogens	TCLP Metals	TCLP VOC's	TCLP SVOC's

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# of Bottles	PRESERVATIVES 1	2	3	4	5	6	7	8	9
1.	CC0627-AL	LIQUID		X	6/27/25	10:19		✓	✓	✓	✓	✓	✓	✓	✓	✓
2.	CC0627-CLOXPL	LIQUID		X	6/27/25	10:21										
3.	CC0625-OXBL	LIQUID		X	6/27/25	10:23										
4.	CC0627-AOXL	LIQUID		X	6/27/25	10:25										
5.	CC0625-NL	LIQUID		X	6/27/25	10:27										
6.	CC0267-OXPL	LIQUID		X	6/27/25	10:29										
7.	CC0627-OXL	LIQUID		X	6/27/25	10:31										
8.	CC0627-CLOXAL	LIQUID		X	6/27/25	10:33										
9.	CC0627-BL	LIQUID		X	6/27/25	10:35										
10.	CC0627-SFBL	LIQUID		X	6/27/25	10:37										

COMMENTS

<-- Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY
1. Jabel Sange	6/27/25 12:00	1.
RELINQUISHED BY 2.	DATE/TIME	RECEIVED BY 2.
RELINQUISHED BY 3.	DATE/TIME	RECEIVED FOR LAB BY 3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 21°
☐ Ice in Cooler?: no
MeOH extraction requires an additional 4oz. Jar for percent solid
Comments:

Page_____of_____

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight
ALLIANCE: ☐ Picked Up ☐ Overnight

Shipment Complete ☐ YES ☐ NO

WHITE - ALLIANCE COPYFOR RETURN TO CLIENT **YELLOW** - ALLIANCE COPY **PINK** - SAMPLER COPY

ALLIANCE is authorized to split bulk sample and add preservative as needed for testing

Byron Hartman Project Mgr. Environmental Restoration

292

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 788-9222
www.chemtech.net

CHAIN OF CUSTODY RECORD

Alliance Project Number: Q2483

COC Number:

CLIENT INFORMATION	PROJECT INFORMATION	BILLING INFORMATION
COMPANY:	PROJECT NAME:	BILL TO: PO#
ADDRESS:	PROJECT #: LOCATION:	ADDRESS:
CITY: STATE: ZIP:	PROJECT MANAGER:	CITY: STATE: ZIP:
ATTENTION:	E-MAIL:	ATTENTION: PHONE:
PHONE: FAX:	PHONE: FAX:	

DATA TURNAROUND INFORMATION

FAX: ______ DAYS*
HARD COPY: ______ DAYS*
EDD 7 days DAYS*
* TO BE APPROVED BY ALLIANCE
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ RESEULTS ONLY
- ☐ RESULTS + QC
- ☐ New Jersey REDUCED
- ☐ New Jersey CLP
- ☐ EDD Format ______
- ☐ USEPA CLP
- ☐ New York State ASP "B"
- ☐ New York State ASP "A"
- ☐ Other ______

ANALYSIS: 1 TCLP Pest/Herb; 2 PEROXIDES; 3 OXIDIZER; 4; 5; 6; 7; 8; 9

PRESERVATIVES / **COMMENTS**: <-- Specify Preservatives: A-HCl, B-HNO3, C-H2SO4, D-NaOH, E-ICE, F-Other

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	COMP	GRAB	DATE	TIME	# of Bottles	1	2	3	4	5	6	7	8	9	COMMENTS
1.	CC0627-AL	L		X	6/27/25	10:19		X	X	X							
2.	CC0627-CLOXPL	L		X	6/27/25	10:21		↓	↓	↓							
3.	CC0625-OXBL	L		X	6/27/25	10:23											
4.	CC0627-AOXL	L		X	6/27/25	10:25											
5.	CC0625-NL	L		X	6/27/25	10:27											
6.	CC0627-OXPL	L		X	6/27/25	10:29											
7.	CC0627-OXL	L		X	6/27/25	10:31											
8.	CC0627-CLOXAL	L		X	6/27/25	10:33											
9.	CC0627-BL	L		X	6/27/25	10:35											
10.	CC0627-SFBL	L		X	6/27/25	10:37		↓	↓	↓							

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY
1.	6/27/25 1200	1. C Peña
RELINQUISHED BY 2.	DATE/TIME	RECEIVED BY 2.
RELINQUISHED BY 3.	DATE/TIME	RECEIVED FOR LAB BY 3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 21°C
MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler?: No
Comments:

Page ____ of ____

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight
ALLIANCE: ☐ Picked Up ☐ Overnight

Shipment Complete ☐ YES ☐ NO

WHITE - ALLIANCE COPYFOR RETURN TO CLIENT **YELLOW** - ALLIANCE COPY **PINK** - SAMPLER COPY

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

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
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

QA Control Code: A2070148