

DATA PACKAGE GENERAL CHEMISTRY

PROJECT NAME : FORMER SCHLUMBERGER STC PTC SITE # D3868221

JACOBS ENGINEERING GROUP, INC.

412 Mt. Kemble Ave

Downtown Building

Morristown, NJ - 07960

Phone No: 9732670555

ORDER ID : Q1478

ATTENTION : John Ynfante



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q1478

Project ID : Former Schlumberger STC PTC Site # D3868221

Client : JACOBS Engineering Group, Inc.

Lab Sample Number

Q1478-01
Q1478-02
Q1478-03
Q1478-04
Q1478-05
Q1478-06
Q1478-07
Q1478-08
Q1478-13
Q1478-14
Q1478-15
Q1478-16

Client Sample Number

IDW-AQ-MW-19B-COMP-022825
IDW-AQ-DRUM-610-022825
IDW-AQ-IW-01-COMP-022825
IDW-AQ-DRUM-616-022825
IDW-AQ-IW-02-COMP-022825
IDW-AQ-DRUM-614-022825
IDW-AQ-IW-03-COMP-022825
IDW-AQ-DRUM-612-022825
IDW-SO-COMP-022825
IDW-SO-COMP-022825
IDW-SO-DRUM-582-022825
IDW-SO-DRUM-582-022825

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: 3/12/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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

CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger STC PTC Site # D3868221

Project # N/A

Chemtech Project # Q1478

Test Name: Corrosivity,pH,Flash Point,Ignitability

A. Number of Samples and Date of Receipt:

4 Solid samples were received on 02/28/2025.

8 Water samples were received on 02/28/2025.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Corrosivity, Diesel Range Organics, Flash Point, Gasoline Range Organics, Ignitability, Mercury, Metals ICP-RCRA, METALS RCRA, PCB, pH, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP ICP Metals, TCLP Mercury, TCLP METALS, TCLP VOA, TCLP ZHE Extraction and VOC-TCLVOA-10. This data package contains results for Corrosivity,pH,Flash Point,Ignitability.

C. Analytical Techniques:

The analysis of Flash Point was based on method 1010B, The analysis of Ignitability was based on method 1030, The analysis of pH was based on method 9040C and The analysis of Corrosivity was based on method 9045D.

D. QA/ QC Samples:

The Holding Times were met for all samples except for IDW-AQ-IW-01-COMP-022825 of pH, for IDW-AQ-IW-02-COMP-022825 of pH.for IDW-AQ-IW-03-COMP-022825 of pH.for IDW-AQ-MW-19B-COMP-022825 of pH.for IDW-SO-COMP-022825 of Corrosivity. As these samples are received out of hold.

The Duplicate analysis met criteria for all samples.

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_____

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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

GENERAL CHEMISTRY CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Q1478

MATRIX: /Water

METHOD: 1010B,1030,9040C,9045D

		NA	NO	YES
1.	Sample Duplicate Analysis Met QC Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
2.	Digestion Holding Time Met		✓	
	If not met, list number of days exceeded for each sample:			
	The Holding Times were met for all samples except for IDW-AQ-IW-01-COMP-022825 of pH, for IDW-AQ-IW-02-COMP-022825 of pH.for IDW-AQ-IW-03-COMP-022825 of pH.for IDW-AQ-MW-19B-COMP-022825 of pH.for IDW-SO-COMP-022825 of Corrosivity. As these samples are received out of hold.			

ADDITIONAL COMMENTS:

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1478

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 Custody

✓

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

Date: 03/12/2025

LAB CHRONICLE

OrderID:	Q1478	OrderDate:	3/3/2025 10:28:22 AM
Client:	JACOBS Engineering Group, Inc.	Project:	Former Schlumberger STC PTC Site # D3868221
Contact:	John Ynfante	Location:	H31,H41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1478-01	IDW-AQ-MW-19B-CO MP-022825	Water	Flash Point	1010B	02/28/25 11:10		03/12/25	02/28/25
			pH	9040C			10:30 03/03/25 15:27	
Q1478-03	IDW-AQ-IW-01-COMP -022825	Water	Flash Point	1010B	02/28/25 11:20		03/12/25	02/28/25
			pH	9040C			11:30 03/03/25 15:33	
Q1478-05	IDW-AQ-IW-02-COMP -022825	Water	Flash Point	1010B	02/28/25 11:30		03/12/25	02/28/25
			pH	9040C			12:00 03/03/25 15:40	
Q1478-07	IDW-AQ-IW-03-COMP -022825	Water	Flash Point	1010B	02/28/25 11:40		03/12/25	02/28/25
			pH	9040C			12:30 03/03/25 15:55	
Q1478-13	IDW-SO-COMP-02282 5	SOIL	Corrosivity	9045D	02/28/25 12:30		03/04/25 15:30	02/28/25

LAB CHRONICLE

Ignitability

1030

03/04/25
13:18



SAMPLE DATA

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Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	02/28/25 11:10
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	02/28/25
Client Sample ID:	IDW-AQ-MW-19B-COMP-022825	SDG No.:	Q1478
Lab Sample ID:	Q1478-01	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		03/12/25 10:30	1010B
pH	6.68	H	1	0	0	pH		03/03/25 15:27	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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	02/28/25 11:20
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	02/28/25
Client Sample ID:	IDW-AQ-IW-01-COMP-022825	SDG No.:	Q1478
Lab Sample ID:	Q1478-03	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		03/12/25 11:30	1010B
pH	6.83	H	1	0	0	pH		03/03/25 15:33	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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	02/28/25 11:30
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	02/28/25
Client Sample ID:	IDW-AQ-IW-02-COMP-022825	SDG No.:	Q1478
Lab Sample ID:	Q1478-05	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		03/12/25 12:00	1010B
pH	6.59	H	1	0	0	pH		03/03/25 15:40	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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	02/28/25 11:40
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	02/28/25
Client Sample ID:	IDW-AQ-IW-03-COMP-022825	SDG No.:	Q1478
Lab Sample ID:	Q1478-07	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		03/12/25 12:30	1010B
pH	6.76	H	1	0	0	pH		03/03/25 15:55	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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	02/28/25 12:30
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	02/28/25
Client Sample ID:	IDW-SO-COMP-022825	SDG No.:	Q1478
Lab Sample ID:	Q1478-13	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	7.10	H	1	0	0	pH		03/04/25 15:30	9045D
Ignitability	NO		1	0	0	oC		03/04/25 13:18	1030

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



QC RESULT SUMMARY

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Initial and Continuing Calibration Verification

Client: JACOBS Engineering Group, Inc.

SDG No.: Q1478

Project: Former Schlumberger STC PTC Site # D3868221

RunNo.: LB134873

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV pH	pH	7.00	7	100	90-110	03/03/2025
Sample ID: CCV1 pH	pH	2.01	2.00	101	90-110	03/03/2025
Sample ID: CCV2 pH	pH	12.02	12.00	100	90-110	03/03/2025
Sample ID: CCV3 pH	pH	2.01	2.00	101	90-110	03/03/2025

Initial and Continuing Calibration Verification

Client: JACOBS Engineering Group, Inc.

SDG No.: Q1478

Project: Former Schlumberger STC PTC Site # D3868221

RunNo.: LB134900

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV Corrosivity	pH	7.01	7	100	90-110	03/04/2025
Sample ID: CCV1 Corrosivity	pH	2.02	2.00	101	90-110	03/04/2025
Sample ID: CCV2 Corrosivity	pH	12.02	12.00	100	90-110	03/04/2025

Initial and Continuing Calibration Verification

Client: JACOBS Engineering Group, Inc.

SDG No.: Q1478

Project: Former Schlumberger STC PTC Site # D3868221

RunNo.: LB134999

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Flash Point	o F	82.4	81	102	78-84	03/12/2025

Duplicate Sample Summary

Client:	JACOBS Engineering Group, Inc.	SDG No.:	Q1478
Project:	Former Schlumberger STC PTC Site # D3868221	Sample ID:	Q1460-01
Client ID:	60270DUP	Percent Solids for Spike Sample:	97.2

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Ignitability	oC	+/-20	NO		NO		1	0		03/04/2025

Duplicate Sample Summary

Client: JACOBS Engineering Group, Inc. Project: Former Schlumberger STC PTC Site # D3868221 Client ID: IDW-AQ-MW-19B-COMP-022825DUP	SDG No.: Q1478 Sample ID: Q1478-01 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		03/12/2025

Duplicate Sample Summary

Client:	JACOBS Engineering Group, Inc.	SDG No.:	Q1478
Project:	Former Schlumberger STC PTC Site # D3868221	Sample ID:	Q1478-07
Client ID:	IDW-AQ-IW-03-COMP-022825DUP	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	6.76		6.77		1	0.15		03/03/2025

Duplicate Sample Summary

Client:	JACOBS Engineering Group, Inc.	SDG No.:	Q1478
Project:	Former Schlumberger STC PTC Site # D3868221	Sample ID:	Q1484-06
Client ID:	TR-OTR-COMP-01DUP	Percent Solids for Spike Sample:	100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Corrosivity	pH	+/-20	7.28		7.29		1	0.14		03/04/2025



RAW DATA

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Analytical Summary Report

Analysis Method: 9040C
Parameter: pH
Run Number: LB134873

Analyst By : jignesh
Supervisor Review By : Iwona
Slope : 98.8
pH Meter ID : WC PH METER-1

Calibration Standards	Chemtech Log#
PH 4 BUFFER SOLUTION	W3107
BUFFER PH 7.00 GREEN 1PINT PK6	W3093
PH 10.01 BUFFER, COLOR CD 475ML	W3094
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	03/03/2025	13:40
2	CAL2	1	Water	NA	NA	20.3	7.01	03/03/2025	13:41
3	CAL3	1	Water	NA	NA	20.3	10.02	03/03/2025	13:45
4	ICV	1	Water	NA	NA	20.2	7.00	03/03/2025	13:48
5	CCV1	1	Water	NA	NA	20.2	2.01	03/03/2025	13:50
6	Q1467-01	1	Water	NA	NA	20.1	6.91	03/03/2025	14:00
7	Q1467-02	1	Water	NA	NA	20.1	7.74	03/03/2025	14:10
8	Q1467-03	1	Water	NA	NA	20.1	10.27	03/03/2025	14:20
9	Q1467-04	1	Water	NA	NA	20.2	9.51	03/03/2025	14:29
10	Q1470-02	1	Water	NA	NA	20.6	7.80	03/03/2025	14:37
11	Q1473-01	1	Water	NA	NA	20.7	7.84	03/03/2025	14:45
12	Q1473-02	1	Water	NA	NA	20.7	8.43	03/03/2025	14:50
13	Q1476-01	1	Water	NA	NA	20.4	8.30	03/03/2025	15:00
14	Q1476-04	1	Water	NA	NA	20.6	3.29	03/03/2025	15:10
15	Q1476-05	1	Water	NA	NA	20.2	5.27	03/03/2025	15:15
16	CCV2	1	Water	NA	NA	20.3	12.02	03/03/2025	15:20
17	Q1478-01	1	Water	NA	NA	20.3	6.68	03/03/2025	15:27
18	Q1478-03	1	Water	NA	NA	20.2	6.83	03/03/2025	15:33
19	Q1478-05	1	Water	NA	NA	20.2	6.59	03/03/2025	15:40
20	Q1478-07	1	Water	NA	NA	20.1	6.76	03/03/2025	15:55

Seq	LabID	DF	Matrix	Weight (gm)	Volume (ml)	Temperature (°C)	Result (pH)	Anal Date	An
21	Q1478-07DUP	1	Water	NA	NA	20.2	6.77	03/03/2025	15:56
22	CCV3	1	Water	NA	NA	20.2	2.01	03/03/2025	16:00

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WORKLIST(Hardcopy Internal Chain)

J 134873

WorkList Name : PHN Q1478

WorkList ID : 187983

Department : Wet-Chemistry

Date : 03-03-2025 13:28:32

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1467-01	0227	Water	pH	Cool 4 deg C	PSEG03	H31	02/28/2025	9040C
Q1467-02	50607	Water	pH	Cool 4 deg C	PSEG03	H31	02/28/2025	9040C
Q1467-03	0226-A	Water	pH	Cool 4 deg C	PSEG03	H31	02/28/2025	9040C
Q1467-04	0226-B	Water	pH	Cool 4 deg C	PSEG03	H31	02/28/2025	9040C
Q1470-02	12925-DRIP	Water	pH	Cool 4 deg C	PSEG03	H31	02/28/2025	9040C
Q1473-01	BUR-25-0011	Water	pH	Cool 4 deg C	PSEG03	J31	02/28/2025	9040C
Q1473-02	BUR-1293	Water	pH	Cool 4 deg C	PSEG03	H31	02/28/2025	9040C
Q1476-01	TRE-25-0014	Water	pH	Cool 4 deg C	PSEG03	H31	02/28/2025	9040C
Q1476-04	TRE-25-0023	Water	pH	Cool 4 deg C	PSEG03	H31	02/28/2025	9040C
Q1476-05	TRE-25-0024	Water	pH	Cool 4 deg C	PSEG03	H31	02/28/2025	9040C
Q1478-01	IDW-AQ-MW-19B-COMP-0228;	Water	pH	Cool 4 deg C	PSEG03	H31	02/28/2025	9040C
Q1478-03	IDW-AQ-IW-01-COMP-022825	Water	pH	Cool 4 deg C	JACO05	H31	02/28/2025	9040C
Q1478-05	IDW-AQ-IW-02-COMP-022825	Water	pH	Cool 4 deg C	JACO05	H31	02/28/2025	9040C
Q1478-07	IDW-AQ-IW-03-COMP-022825	Water	pH	Cool 4 deg C	JACO05	H31	02/28/2025	9040C

Date/Time 03/03/25 13:35

Raw Sample Received by: Z. C. (son)

Raw Sample Relinquished by: Z. C. (son)

Date/Time 03/03/25

Raw Sample Received by: Z. C. (son)

Analytical Summary Report

Analysis Method: 1030
Parameter: Ignitability
Run Number: LB134891

Reviewed By: rubina

Supervisor Review By: Iwona

Seq	LabID	ClientID	DF	matrix	Result Status	Burning Rate	Anal Date	Anal Time
1	Q1460-01	60270	1	Solid	NO	0.00	03/04/2025	12:40
2	Q1460-01DUP	60270DUP	1	Solid	NO	0.00	03/04/2025	12:48
3	Q1471-01	22225	1	Solid	NO	0.00	03/04/2025	12:55
4	Q1476-02	TRE-25-0016	1	Solid	NO	0.00	03/04/2025	13:02
5	Q1476-03	TRE-25-0017	1	Solid	NO	0.00	03/04/2025	13:10
6	Q1478-13	IDW-SO-COMP-022825	1	Solid	NO	0.00	03/04/2025	13:18

$$\text{Burning Rate} = \frac{\text{Length (mm)}}{\text{Total Time (sec)}}$$

WORKLIST(Hardcopy Internal Chain)

66134891

WorkList Name : IGN-3-4 WorkList ID : 188008 Department : Wet-Chemistry Date : 03-04-2025 10:00:58

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1460-01 B	60270	Solid	Ignitability	Cool 4 deg C	PSEG03	H31	02/27/2025	1030
Q1471-01 B	22225	Solid	Ignitability	Cool 4 deg C	PSEG03	J31	02/28/2025	1030
Q1476-02 C	TRE-25-0016	Solid	Ignitability	Cool 4 deg C	PSEG03	H31	02/28/2025	1030
Q1476-03 C	TRE-25-0017	Solid	Ignitability	Cool 4 deg C	PSEG03	H31	02/28/2025	1030
Q1478-13 C	IDW-SO-COMP-022825	Solid	Ignitability	Cool 4 deg C	JACO05	H31	02/28/2025	1030

Date/Time 03/04/2025 12:30
Raw Sample Received by: RM cwe
Raw Sample Relinquished by: JOC(DC)

Date/Time 03/04/2025 13:35
Raw Sample Received by: JOC(DC)
Raw Sample Relinquished by: RM cwe

Analytical Summary Report

Analysis Method: 9045D

Analyst By : jignesh

Parameter: Corrosivity

Supervisor Review By : Iwona

Run Number: LB134900

Slope : 98.6

BalanceID: WC SC-7

pH Meter ID : WC PH METER-1

Calibration Standards	Chemtech Log#
PH 4 BUFFER SOLUTION	W3107
BUFFER PH 7.00 GREEN 1PINT PK6	W3093
PH 10.01 BUFFER,COLOR CD 475ML	W3094
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].

Seq	LabID	DF	Matrix	Weight (gm)	Volume (ml)	Temperature (°C)	Result (pH)	Anal Date	Anal Time
1	CAL1	1	Water	NA	NA	20.3	4.01	03/04/2025	15:00
2	CAL2	1	Water	NA	NA	20.3	7.00	03/04/2025	15:01
3	CAL3	1	Water	NA	NA	20.3	10.02	03/04/2025	15:05
4	ICV	1	Water	NA	NA	20.2	7.01	03/04/2025	15:10
5	CCV1	1	Water	NA	NA	20.2	2.02	03/04/2025	15:15
6	Q1478-13	1	Solid	20.02	20	20.9	7.10	03/04/2025	15:30
7	Q1481-02	1	Solid	20.03	20	21.2	7.17	03/04/2025	15:40
8	Q1484-06	1	Solid	20.02	20	22.3	7.28	03/04/2025	15:55
9	Q1484-06DUP	1	Solid	20.03	20	22.4	7.29	03/04/2025	15:56
10	CCV2	1	Water	NA	NA	20.3	12.02	03/04/2025	16:00

WORKLIST(Hardcopy Internal Chain)

UB 134900

WorkList Name : corrosivity p1480

WorkList ID : 188003

Department : Wet-Chemistry

Date : 03-04-2025 11:38:36

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1478-13	IDW-SO-COMP-022825	Solid	Corrosivity	Cool 4 deg C	JACO05	H31	02/28/2025	9045D
Q1481-02	WC-K1311	Solid	Corrosivity	Cool 4 deg C	PSEG03	H31	03/04/2025	9045D
Q1484-06	TR-OTR-COMP-01	Solid	Corrosivity	Cool 4 deg C	PSEG03	H31	03/04/2025	9045D

Date/Time 03/04/25 14:30

Raw Sample Received by: SB WOCJ

Raw Sample Relinquished by: AP SM

Date/Time 03/04/25

Raw Sample Received by: AP SM

Raw Sample Relinquished by: AP SM

Analytical Summary Report

Analysis Method: 1010B
Parameter: Flash Point
Run Number: LB134999
Thermometer ID: Flash Point

Reviewed By: Iwona
Supervisor Review By: jignesh
Ambient Barometric Pressure (mmHg): 760.00
Barometric Scale ID: 0511064

Reagent/Standard	Lot/Log #
p-xylene (ICV)	W3159

Seq	LabID	True Value °F	DL	Initial Sample °C	Celsius °C	Result °F	Final Result °F	Anal Date	Anal Time
1	ICV	81	1	9	28.00	82.4	82.4	03/12/2025	10:00
2	Q1478-01		1	13	100.00	>212.0	>212.0	03/12/2025	10:30
3	Q1478-01DUP		1	13	100.00	>212.0	>212.0	03/12/2025	11:00
4	Q1478-03		1	15	100.00	>212.0	>212.0	03/12/2025	11:30
5	Q1478-05		1	15	100.00	>212.0	>212.0	03/12/2025	12:00
6	Q1478-07		1	16	100.00	>212.0	>212.0	03/12/2025	12:30

Result = (Celsius * 1.8) + 32

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

WORKLIST(Hardcopy Internal Chain)

6134999

WorkList Name : fp-3-12

WorkList ID : 188232

Department : Wet-Chemistry

Date : 03-12-2025 08:52:09

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1478-01	IDW-AQ-MW-19B-COMP-022825	Water	Flash Point	Cool 4 deg C	JACO05	H31	02/28/2025	1010B
Q1478-03	IDW-AQ-IW-01-COMP-022825	Water	Flash Point	Cool 4 deg C	JACO05	H31	02/28/2025	1010B
Q1478-05	IDW-AQ-IW-02-COMP-022825	Water	Flash Point	Cool 4 deg C	JACO05	H31	02/28/2025	1010B
Q1478-07	IDW-AQ-IW-03-COMP-022825	Water	Flash Point	Cool 4 deg C	JACO05	H31	02/28/2025	1010B

Date/Time 03/12/2025 09:25
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

Date/Time 03/12/2025 13:20
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB134873

Review By	jignesh	Review On	3/3/2025 2:19:51 PM
Supervise By	Iwona	Supervise On	3/3/2025 3:09:43 PM
SubDirectory	LB134873	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	W3107,W3093,W3094,W3071,W3161,W3072		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	03/03/25 13:40		jignesh	OK
2	CAL2	CAL2	CAL	03/03/25 13:41		jignesh	OK
3	CAL3	CAL3	CAL	03/03/25 13:45		jignesh	OK
4	ICV	ICV	ICV	03/03/25 13:48		jignesh	OK
5	CCV1	CCV1	CCV	03/03/25 13:50		jignesh	OK
6	Q1467-01	0227	SAM	03/03/25 14:00		jignesh	OK
7	Q1467-02	50607	SAM	03/03/25 14:10		jignesh	OK
8	Q1467-03	0226-A	SAM	03/03/25 14:20		jignesh	OK
9	Q1467-04	0226-B	SAM	03/03/25 14:29		jignesh	OK
10	Q1470-02	12925-DRIP	SAM	03/03/25 14:37		jignesh	OK
11	Q1473-01	BUR-25-0011	SAM	03/03/25 14:45		jignesh	OK
12	Q1473-02	BUR-1293	SAM	03/03/25 14:50		jignesh	OK
13	Q1476-01	TRE-25-0014	SAM	03/03/25 15:00		jignesh	OK
14	Q1476-04	TRE-25-0023	SAM	03/03/25 15:10		jignesh	OK
15	Q1476-05	TRE-25-0024	SAM	03/03/25 15:15		jignesh	OK
16	CCV2	CCV2	CCV	03/03/25 15:20		jignesh	OK
17	Q1478-01	IDW-AQ-MW-19B-CO	SAM	03/03/25 15:27		jignesh	OK
18	Q1478-03	IDW-AQ-IW-01-COMP	SAM	03/03/25 15:33		jignesh	OK

Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB134873

Review By	jignesh	Review On	3/3/2025 2:19:51 PM
Supervise By	Iwona	Supervise On	3/3/2025 3:09:43 PM
SubDirectory	LB134873	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	W3107,W3093,W3094,W3071,W3161,W3072

19	Q1478-05	IDW-AQ-IW-02-COMF	SAM	03/03/25 15:40		jignesh	OK
20	Q1478-07	IDW-AQ-IW-03-COMF	SAM	03/03/25 15:55		jignesh	OK
21	Q1478-07DUP	IDW-AQ-IW-03-COMF	DUP	03/03/25 15:56		jignesh	OK
22	CCV3	CCV3	CCV	03/03/25 16:00		jignesh	OK

Instrument ID: FLAME

Daily Analysis Runlog For Sequence/QCBatch ID # LB134891

Review By	rubina	Review On	3/4/2025 1:38:50 PM
Supervise By	Iwona	Supervise On	3/4/2025 1:39:51 PM
SubDirectory	LB134891	Test	Ignitability
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	N/A		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	Q1460-01	60270	SAM	03/04/25 12:40		rubina	OK
2	Q1460-01DUP	60270DUP	DUP	03/04/25 12:48		rubina	OK
3	Q1471-01	22225	SAM	03/04/25 12:55		rubina	OK
4	Q1476-02	TRE-25-0016	SAM	03/04/25 13:02		rubina	OK
5	Q1476-03	TRE-25-0017	SAM	03/04/25 13:10		rubina	OK
6	Q1478-13	IDW-SO-COMP-0228	SAM	03/04/25 13:18		rubina	OK

Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB134900

Review By	jignesh	Review On	3/5/2025 9:01:34 AM
Supervise By	Iwona	Supervise On	3/5/2025 9:10:39 AM
SubDirectory	LB134900	Test	Corrosivity
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	W3107,W3093,W3094,W3071,W3161,W3072		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	03/04/25 15:00		Jignesh	OK
2	CAL2	CAL2	CAL	03/04/25 15:01		Jignesh	OK
3	CAL3	CAL3	CAL	03/04/25 15:05		Jignesh	OK
4	ICV	ICV	ICV	03/04/25 15:10		Jignesh	OK
5	CCV1	CCV1	CCV	03/04/25 15:15		Jignesh	OK
6	Q1478-13	IDW-SO-COMP-0228	SAM	03/04/25 15:30		Jignesh	OK
7	Q1481-02	WC-K1311	SAM	03/04/25 15:40		Jignesh	OK
8	Q1484-06	TR-OTR-COMP-01	SAM	03/04/25 15:55		Jignesh	OK
9	Q1484-06DUP	TR-OTR-COMP-01DU	DUP	03/04/25 15:56		Jignesh	OK
10	CCV2	CCV2	CCV	03/04/25 16:00		Jignesh	OK

Instrument ID: IGN-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB134999

Review By	Iwona	Review On	3/12/2025 2:05:19 PM
Supervise By	jignesh	Supervise On	3/12/2025 2:05:53 PM
SubDirectory	LB134999	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	W3159		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	ICV	ICV	ICV	03/12/25 10:00		rubina	OK
2	Q1478-01	IDW-AQ-MW-19B-CO	SAM	03/12/25 10:30		rubina	OK
3	Q1478-01DUP	IDW-AQ-MW-19B-CO	DUP	03/12/25 11:00		rubina	OK
4	Q1478-03	IDW-AQ-IW-01-COMF	SAM	03/12/25 11:30		rubina	OK
5	Q1478-05	IDW-AQ-IW-02-COMF	SAM	03/12/25 12:00		rubina	OK
6	Q1478-07	IDW-AQ-IW-03-COMF	SAM	03/12/25 12:30		rubina	OK

Prep Standard - Chemical Standard Summary

Order ID : Q1478

Test : Corrosivity,Flash Point,Ignitability,Percent Solids,pH

Prepbatch ID :

Sequence ID/Qc Batch ID: LB134873,LB134891,LB134900,LB134999,

Standard ID :

Chemical ID :

W3071,W3072,W3093,W3094,W3107,W3159,W3161,

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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.	1601-1 / PH 10.01 BUFFER,COLOR CD 475ML	4310g83	03/31/2025	04/03/2024 / jignesh	04/02/2024 / jignesh	W3094

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	AL14055-3	02/27/2026	09/05/2024 / jignesh	05/13/2024 / jignesh	W3107

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	TCX0014-500ML / p-xylene	BWDZJ	12/06/2029	02/14/2025 / rubina	12/06/2024 / Iwona	W3159

CHEMICAL RECEIPT LOG BOOK

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

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W3071
Rec 12/6/23

Certificate of Analysis 12

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

Lot Number: 4308H30

Product Number: 1551

Manufacture Date: AUG 09, 2023

Expiration Date: JUL 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	Reagent

Test	Specification	Result
Appearance	Yellow liquid	Passed

*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	7.002	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)
1551-2.5	10 L Cubitainer®	24 months
1551-5	20 L Cubitainer®	24 months

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



Paul Brandon (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

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RICCA CHEMICAL COMPANY®

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customerservice@riccachemical.com

W 3072
REC. 12/01/23
12

Certificate of Analysis

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

Lot Number: 2310P21

Product Number: 1615

Manufacture Date: OCT 24, 2023

Expiration Date: APR 2025

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

Test	Specification	Result
Appearance	Colorless liquid	Passed

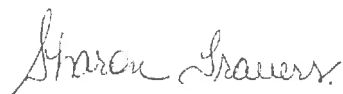
*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	12.005	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
1615-32	1 L natural poly	18 months
1615-5	20 L Cubitainer®	18 months

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



Sharon Travers (10/24/2023)

Operations Manager

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This product was tested in an ISO 17025 Accredited Laboratory

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Certificate of Analysis

W3093
094121
04/03/2024
16

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

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



Certificate of Analysis

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

Lot Number: 4310G83

Product Number: 1601

Manufacture Date: OCT 09, 2023

Expiration Date: MAR 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	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)	10.003	0.02	186-I-g, 186-II-g, 191d

Specification	Reference
Commercial Buffer Solutions	ASTM (D 1293 B)
Buffer C	ASTM (D 5464)
Buffer C	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)
1601-16	500 mL natural poly	18 months
1601-5	20 L Cubitainer®	18 months

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



Paul Brandon (10/09/2023)

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.



Certificate of Analysis

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

Lot Number: 4403F90

Product Number: 1501

Manufacture Date: MAR 09, 2024

Expiration Date: FEB 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)	4.000	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 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)
1501-2.5	10 L Cubitainer®	24 months
1501-32	1 L natural poly	24 months
1501-5	20 L Cubitainer®	24 months

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

Paul Brandon

Production Manager

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.



W3157, W3158, W3159 Received on 12/6/24 by IZ

Certificate of Analysis

12/06/2024(JST)

TOKYO CHEMICAL INDUSTRY CO.,LTD.

T-PLUS Nihonbashi-Kodemmacho

16-12 Nihonbashi-kodemmacho, Chuo-ku, Tokyo 103-0001, Japa

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

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



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

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

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 3/4/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 03/03/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:05
Out Date: 03/04/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB134870

Lab ID	Client SampleID	Dish #	Dish Wt (g) (A)	Sample Wt (g)	Dish + Sample Wt (g) (B)	Dish+Dry Sample Wt (g) (C)	% Solid	Comments
Q1472-01	40308	1	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1474-01	BU-03-02282025	2	1.15	8.63	9.78	9.2	93.3	
Q1474-02	BU-03-02282025	3	1.15	8.45	9.6	8.7	89.3	
Q1475-01	TR-04-02282025	4	1.12	8.67	9.79	9.06	91.6	
Q1475-02	TR-04-02282025-E2	5	1.16	8.72	9.88	9.44	95.0	
Q1476-02	TRE-25-0016	6	1.18	8.57	9.75	9.18	93.3	
Q1476-03	TRE-25-0017	7	1.00	1.00	2.00	2.00	100.0	debris
Q1478-14	IDW-SO-COMP-022825	8	1.15	8.82	9.97	8.59	84.4	
Q1478-15	IDW-SO-DRUM-585-022825	9	1.18	8.68	9.86	8.56	85.0	
Q1478-16	IDW-SO-DRUM-585-022825	10	1.18	8.45	9.63	8.23	83.4	
Q1479-01	P5	11	1.14	8.64	9.78	8.89	89.7	
Q1479-02	DSP2	12	1.15	8.75	9.9	9.1	90.9	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-030325

WorkList ID : 187978

Department : Wet-Chemistry

Date : 03-03-2025 07:39:10

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1472-01	40308	Solid	Percent Solids	Cool 4 deg C	PSEG03	H31	02/28/2025	Chemtech -SO
Q1474-01	BU-03-02282025	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	02/28/2025	Chemtech -SO
Q1474-02	BU-03-02282025	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	02/28/2025	Chemtech -SO
Q1475-01	TR-04-02282025	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	02/28/2025	Chemtech -SO
Q1475-02	TR-04-02282025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	02/28/2025	Chemtech -SO
Q1476-02	TRE-25-0016	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	02/28/2025	Chemtech -SO
Q1476-03	TRE-25-0017	Solid	Percent Solids	Cool 4 deg C	PSEG03	H31	02/28/2025	Chemtech -SO
Q1478-14	IDW-SO-COMP-022825	Solid	Percent Solids	Cool 4 deg C	PSEG03	H31	02/28/2025	Chemtech -SO
Q1478-15	IDW-SO-DRUM-585-022825	Solid	Percent Solids	Cool 4 deg C	JACO05	H31	02/28/2025	Chemtech -SO
Q1478-16	IDW-SO-DRUM-585-022825	Solid	Percent Solids	Cool 4 deg C	JACO05	H31	02/28/2025	Chemtech -SO
Q1479-01	P5	Solid	Percent Solids	Cool 4 deg C	JACO05	H31	02/28/2025	Chemtech -SO
Q1479-02	DSP2	Solid	Percent Solids	Cool 4 deg C	GENV01	H31	03/03/2025	Chemtech -SO

Date/Time 03/03/25 15:30

Raw Sample Received by: SO WDCIRaw Sample Relinquished by: Q1478 Sm

Date/Time 03/03/25

Raw Sample Received by: CP SARaw Sample Relinquished by: Q1478 Sm



SHIPPING DOCUMENTS

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
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- 10
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- 14

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Jacobs
ADDRESS: 412 Mt Kemble Ave Suite 4100
CITY Morrisstown STATE: NJ ZIP: 07960
ATTENTION: John Vafant
PHONE: (281) 414-1719 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: STC PTC
PROJECT NO.: 03868221 LOCATION: Princeton Junction
PROJECT MANAGER: Mary Murphy
e-mail: Mary.Murphy@Jacobs.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Mary Murphy PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:
ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) STANDARD 1AT DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: DAYS*

*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☒ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other
☐ EDD FORMAT

1. UVCs (82608)
2. SVOCs (82700)
3. TPH DMS (100817471A)
4. Metals (100817471A)
5. PCBS (80882)
6. Ignitability (1030)
7. Corrosivity (9040C)
8. TPH (80153)
9.

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		A/E	E	E	B/E	E	E	E	E	E	← Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-OTHER	
								1	2	3	4	5	6	7	8	9		
1.	IDW-AQ-MW-198-COMP-022825	AQ	X		2-28-25	1110	5		X	X	X	X	X	X				
2.	IDW-AQ-PRUM-610-022825	AQ		X	2-28-25	1115	3	X		X					X			
3.	IDW-AQ-IW-01-COMP-022825	AQ	X		2-28-25	1120	5		X	X	X	X	X	X				
4.	IDW-AQ-DRUM-616-022825	AQ		X	2-28-25	1125	3	X		X					X			
5.	IDW-AQ-IW-02-COMP-022825	AQ	X		2-28-25	1130	4		X	X	X	X	X	X				
6.	IDW-AQ-PRUM-614-022825	AQ		X	2-28-25	1135	3	X		X					X			
7.	IDW-AQ-IW-03-COMP-022825	AQ	X		2-28-25	1140	4	X	X	X	X	X	X	X				
8.	IDW-AQ-DRUM-612-022825	AQ		X	2-28-25	1145	3	X		X					X			
9.	IDW-SO-COMP-022825 (TA)	SO	X		2-28-25	1230	5	X	X	X	X	X	X	X				
10.	IDW-SO-PRUM-582-022825 (TA)	SO	X		2-28-25		1											

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

RELINQUISHED BY SAMPLER:	DATE/TIME: <u>1720</u>	RECEIVED BY: <u>[Signature]</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP <u>2.1 °C</u>
1. <u>[Signature]</u>	DATE/TIME: <u>2-28-25</u>	1. <u>[Signature]</u>	Comments: <u></u>
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
2.		2.	
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
3.		3.	

Page 1 of 2 CLIENT: ☐ Hand Delivered ☐ Other Shipment Complete ☐ YES ☐ NO

CLIENT INFORMATION

CLIENT PROJECT INFORMATION

CLIENT BILLING INFORMATION

REPORT TO BE SENT TO:

COMPANY: Jacobs
ADDRESS: 412 Mt Kumble Ave Suite #100
CITY: Morrisstown STATE: NJ ZIP: 07960
ATTENTION: John Yafante
PHONE: (281) 414-1719 FAX:

PROJECT NAME: STC PTC
PROJECT NO.: D3868221 LOCATION: Princeton Junction
PROJECT MANAGER: Mary Murphy
e-mail: Mary.Murphy@Jacobs.com
PHONE: FAX:

BILL TO: Mary Murphy PO#:
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) STANDARD TAT DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☒ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ EDD FORMAT

1. TCLP SVOCs (1311/8220)
2. TCLP VOCs (1311/8220)
3. TPH GAO (1311/8220)
4. TCLP Metals (1311/8220)
5. PCBs (8015)
6. Inorganic (1030)
7. Carcinogens (9010)
8. TPH D20 (8015)
9.

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		E	E	E	E	E	E	E	E	E		
1.	IDW-SO-COMP-022825	SO	X		2-28-25	1230	5	X	X	X	X	X	X	X	X	X		
2.	IDW-SO-DRUM-582-022825	SO		X	2-28-25	1725	1		X	X								
3.																		
4.																		
5.																		
6.																		
7.																		
8.																		
9.																		
10.																		

← Specify Preservatives
A-HCl D-NaOH
B-HNO3 E-ICE
C-H2SO4 F-OTHER

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

RELINQUISHED BY SAMPLER: 1. <u>W. B. B.</u>	DATE/TIME: <u>2-28-25 1420</u>	RECEIVED BY: <u>J. O. S.</u>	DATE/TIME: <u>2-28-25 1720</u>	Comments: <u>2.0 °C</u>
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.		
RELINQUISHED BY SAMPLER: 3.	DATE/TIME:	RECEIVED BY: 3.		

Page 2 of 2 CLIENT: ☐ Hand Delivered ☐ Other Shipment Complete ☐ YES ☐ NO

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1478 JACO05

Order Date : 3/3/2025 10:28:22 AM

Project Mgr :

Client Name : JACOBS Engineering Grou

Project Name : Former Schlumberger Site I

Report Type : Level 4

Client Contact : John Ynfante

Receive DateTime : 2/28/2025 5:20:00 PM

EDD Type : CH2MHILL

Invoice Name : JACOBS Engineering Grou

Purchase Order :

Hard Copy Date :

Invoice Contact : John Ynfante

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1478-02	IDW-AQ-DRUM-610-022825	Water	02/28/2025	11:15	VOC-TCLVOA-10		8260-Low	10 Bus. Days	
Q1478-04	IDW-AQ-DRUM-616-022825	Water	02/28/2025	11:25	VOC-TCLVOA-10		8260-Low	10 Bus. Days	
Q1478-06	IDW-AQ-DRUM-614-022825	Water	02/28/2025	11:35	VOC-TCLVOA-10		8260-Low	10 Bus. Days	
Q1478-08	IDW-AQ-DRUM-612-022825	Water	02/28/2025	11:45	VOC-TCLVOA-10		8260-Low	10 Bus. Days	

Relinquished By :

Date / Time :

[Signature]
3-3-25 1200

Received By :

Date / Time :

[Signature]
3/3/25 1200

Storage Area : VOA Refridgerator Room