

DATA PACKAGE GENERAL CHEMISTRY

PROJECT NAME : CON EDISON - EAST RIVER SITE 2

PARSONS ENGINEERING OF NEW YORK, INC.

301 Plainfield Road

Suite 350

Syracuse, NY - 13212

Phone No: 315-451-9560

ORDER ID : Q2592

ATTENTION : Zohar Lavy



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q2592

Project ID : Con Edison - East River Site 2

Client : PARSONS Engineering of New York, Inc.

Lab Sample Number

Q2592-01
Q2592-02

Client Sample Number

WC-SOIL-20250711
WC-SOIL-20250711

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 :

APPROVED

By *Nimisha Pandya, QA/QC Supervisor at 11:25 am, Jul 25, 2025*

Date: 7/18/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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

CASE NARRATIVE

PARSONS Engineering of New York, Inc.

Project Name: Con Edison - East River Site 2

Project # N/A

Order ID # Q2592

Test Name: Corrosivity, Ignitability, pH, Reactive Cyanide, Reactive Sulfide

A. Number of Samples and Date of Receipt:

2 Solid samples were received on 07/11/2025.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Corrosivity, Ignitability, pH, Reactive Cyanide, Reactive Sulfide. This data package contains results for Corrosivity, Ignitability, pH, Reactive Cyanide, Reactive Sulfide.

C. Analytical Techniques:

The analysis of Ignitability was based on method 1030, The analysis of Reactive Cyanide was based on method 9012B, The analysis of Reactive Sulfide was based on method 9034 and The analysis of Corrosivity, pH was based on method 9045D.

D. QA/ QC Samples:

The Holding Times were met for all samples except for WC-SOIL-20250711 of pH and for WC-SOIL-20250711 of Corrosivity as samples were received out of holding time.

The Blank Spike met requirements for all compounds.

The Duplicate analysis met criteria for all compounds.

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_____

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 11:25 am, Jul 25, 2025

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

ORDER ID: Q2592

MATRIX: Solid

METHOD: 1030,9012B,9034,9045D

	NA	NO	YES
1. Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
2. Sample Duplicate Analysis Met QC Criteria			✓
If not met, list those compounds and their recoveries which fall outside the acceptable range.			
3. 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 WC-SOIL-20250711 of pH and for WC-SOIL-20250711 of Corrosivity as samples were received out of holding time.			

ADDITIONAL COMMENTS:

QA REVIEW

REVIEWED

By Sohil Jodhani, QA/QC Director at 10:11 am, Jul 25, 2025

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2592

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: 07/18/2025

LAB CHRONICLE

OrderID:	Q2592	OrderDate:	7/11/2025 3:05:25 PM
Client:	PARSONS Engineering of New York, Inc.	Project:	Con Edison - East River Site 2
Contact:	Zohar Lavy	Location:	D51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2592-01	WC-SOIL-20250711	SOIL			07/11/25 12:30			07/11/25
			pH	9045D			07/15/25 09:00	
Q2592-02	WC-SOIL-20250711	SOIL			07/11/25 12:30			07/11/25
			Corrosivity	9045D			07/15/25 09:00	
			Ignitability	1030			07/15/25 14:07	
			Reactive Cyanide	9012B		07/16/25	07/16/25 12:23	
			Reactive Sulfide	9034		07/16/25	07/16/25 14:38	



SAMPLE DATA

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14

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	07/11/25 12:30
Project:	Con Edison - East River Site 2	Date Received:	07/11/25
Client Sample ID:	WC-SOIL-20250711	SDG No.:	Q2592
Lab Sample ID:	Q2592-01	Matrix:	SOIL
		% Solid:	76.7

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
pH	6.94	H	1	0	0	pH		07/15/25 09:00	9045D

Comments: pH result reported at temperature 22.8 °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

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	07/11/25 12:30
Project:	Con Edison - East River Site 2	Date Received:	07/11/25
Client Sample ID:	WC-SOIL-20250711	SDG No.:	Q2592
Lab Sample ID:	Q2592-02	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	6.94	H	1	0	0	pH		07/15/25 09:00	9045D
Ignitability	NO		1	0	0	oC		07/15/25 14:07	1030
Reactive Cyanide	0.049	U	1	0.0083	0.049	mg/Kg	07/16/25 10:10	07/16/25 12:23	9012B
Reactive Sulfide	6.36	J	1	0.20	10.0	mg/Kg	07/16/25 12:10	07/16/25 14:38	9034

Comments: pH result reported at temperature 22.8 °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

- 1
- 2
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Initial and Continuing Calibration Verification

Client: PARSONS Engineering of New York, Inc.

SDG No.: Q2592

Project: Con Edison - East River Site 2

RunNo.: LB136472

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV						
pH		pH	7.01	7	100	90-110	07/15/2025
Sample ID:	CCV1						
pH		pH	2.01	2.00	101	90-110	07/15/2025
Sample ID:	CCV2						
pH		pH	12.02	12.00	100	90-110	07/15/2025

Initial and Continuing Calibration Verification

Client: PARSONS Engineering of New York, Inc.

SDG No.: Q2592

Project: Con Edison - East River Site 2

RunNo.: LB136475

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV Corrosivity	pH	7.00	7	100	90-110	07/15/2025
Sample ID: CCV1 Corrosivity	pH	2.01	2.00	101	90-110	07/15/2025
Sample ID: CCV2 Corrosivity	pH	12.02	12.00	100	90-110	07/15/2025

Initial and Continuing Calibration Verification

Client: PARSONS Engineering of New York, Inc.

SDG No.: Q2592

Project: Con Edison - East River Site 2

RunNo.: LB136502

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 Reactive Cyanide	mg/L	0.095	0.099	96	85-115	07/16/2025
Sample ID: CCV1 Reactive Cyanide	mg/L	0.25	0.25	100	90-110	07/16/2025
Sample ID: CCV2 Reactive Cyanide	mg/L	0.24	0.25	96	90-110	07/16/2025
Sample ID: CCV3 Reactive Cyanide	mg/L	0.25	0.25	100	90-110	07/16/2025

Initial and Continuing Calibration Blank Summary

Client: PARSONS Engineering of New York, Inc.

SDG No.: Q2592

Project: Con Edison - East River Site 2

RunNo.: LB136502

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	07/16/2025
Sample ID: CCB1 Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	07/16/2025
Sample ID: CCB2 Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	07/16/2025
Sample ID: CCB3 Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	07/16/2025

Preparation Blank Summary

Client: PARSONS Engineering of New York, Inc.

SDG No.: Q2592

Project: Con Edison - East River Site 2

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: PB168864BL							
Reactive Cyanide	mg/Kg	< 0.0250	0.0250	U	0.0084	0.05	07/16/2025
Sample ID: PB168865BL							
Reactive Sulfide	mg/Kg	< 5.0000	5.0000	U	0.201	10	07/16/2025

Duplicate Sample Summary

Client:	PARSONS Engineering of New York, Inc.	SDG No.:	Q2592
Project:	Con Edison - East River Site 2	Sample ID:	Q2586-04
Client ID:	TP-16DUP	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
Reactive Cyanide	mg/Kg	+/-20	0.0083	U	0.0083	U	1	0		07/16/2025
Reactive Sulfide	mg/Kg	+/-20	4.72	J	4.72	J	1	0		07/16/2025

Duplicate Sample Summary

Client:	PARSONS Engineering of New York, Inc.	SDG No.:	Q2592
Project:	Con Edison - East River Site 2	Sample ID:	Q2592-01
Client ID:	WC-SOIL-20250711DUP	Percent Solids for Spike Sample:	76.7

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
pH	pH	+/-20	6.94		6.96		1	0.29		07/15/2025

Duplicate Sample Summary

Client:	PARSONS Engineering of New York, Inc.	SDG No.:	Q2592
Project:	Con Edison - East River Site 2	Sample ID:	Q2592-02
Client ID:	WC-SOIL-20250711DUP	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	6.94		6.96		1	0.29		07/15/2025

Duplicate Sample Summary

Client:	PARSONS Engineering of New York, Inc.	SDG No.:	Q2592
Project:	Con Edison - East River Site 2	Sample ID:	Q2605-04
Client ID:	V897DUP	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
Ignitability	oC	+/-20	NO		NO		1	0		07/15/2025



RAW DATA

- 1
- 2
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- 11
- 12
- 13
- 14

Analytical Summary Report

Analysis Method: 9045D

Analyst By : jignesh

Parameter: pH

Supervisor Review By : Iwona

Run Number: LB136472

Slope : 98.6

BalanceID: WC SC-7

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].

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	07/15/2025	08:40
2	CAL2	1	Water	NA	NA	20.2	7.00	07/15/2025	08:41
3	CAL3	1	Water	NA	NA	20.2	10.02	07/15/2025	08:42
4	ICV	1	Water	NA	NA	20.2	7.01	07/15/2025	08:45
5	CCV1	1	Water	NA	NA	20.2	2.01	07/15/2025	08:47
6	Q2592-01	1	Solid	20.02	20	22.8	6.94	07/15/2025	09:00
7	Q2592-01DUP	1	Solid	20.03	20	22.9	6.96	07/15/2025	09:02
8	Q2600-01	1	Solid	20.02	20	24.6	7.55	07/15/2025	09:15
9	Q2600-05	1	Solid	20.03	20	24.4	7.68	07/15/2025	09:25
10	Q2600-09	1	Solid	20.02	20	24.1	7.24	07/15/2025	09:30
11	CCV2	1	Water	NA	NA	20.2	12.02	07/15/2025	09:33

WORKLIST(Hardcopy Internal Chain)

17136472

WorkList Name : pbs q2600 WorkList ID : 190717 Department : Wet-Chemistry Date : 07-15-2025 08:20:24

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2592-01	WC-SOIL-20250711	Solid	pH	Cool 4 deg C	PARS02	D51	07/11/2025	9045D
Q2600-01	TRENCH	Solid	pH	Cool 4 deg C	TACO01	D41	07/14/2025	9045D
Q2600-05	STOCK-PILE	Solid	pH	Cool 4 deg C	TACO01	D41	07/14/2025	9045D
Q2600-09	END-OF-TRENCH	Solid	pH	Cool 4 deg C	TACO01	D41	07/14/2025	9045D

Date/Time 07/15/25 08:30
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

Date/Time 07/15/25 13:30
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

Analytical Summary Report

Analysis Method: 9045D

Analyst By : jignesh

Parameter: Corrosivity

Supervisor Review By : Iwona

Run Number: LB136475

Slope : 98.6

BalanceID: WC SC-7

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].

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	07/15/2025	08:40
2	CAL2	1	Water	NA	NA	20.2	7.00	07/15/2025	08:41
3	CAL3	1	Water	NA	NA	20.2	10.02	07/15/2025	08:42
4	ICV	1	Water	NA	NA	20.2	7.00	07/15/2025	08:41
5	CCV1	1	Water	NA	NA	20.2	2.01	07/15/2025	08:45
6	Q2592-02	1	Solid	20.02	20	22.8	6.94	07/15/2025	09:00
7	Q2592-02DUP	1	Solid	20.03	20	22.9	6.96	07/15/2025	09:02
8	CCV2	1	Water	NA	NA	20.3	12.02	07/15/2025	09:33

WORKLIST(Hardcopy Internal Chain)

136475

WorkList Name : corrsivity q2600 WorkList ID : 190719 Department : Wet-Chemistry Date : 07-15-2025 08:30:13

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2592-02	WC-SOIL-20250711	Solid	Corrosivity	Cool 4 deg C	PARS02	D51	07/11/2025	9045D

Date/Time 07/15/25 08:33
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

Date/Time 07/15/25 13:30
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

Analytical Summary Report

Analysis Method: 1030
Parameter: Ignitability
Run Number: LB136483

Reviewed By: rubina

Supervisor Review By: Iwona

Seq	LabID	ClientID	DF	matrix	Result Status	Burning Rate	Anal Date	Anal Time
1	Q2571-04	TP-18	1	Solid	NO	0.00	07/15/2025	14:00
2	Q2592-02	WC-SOIL-20250711	1	Solid	NO	0.00	07/15/2025	14:07
3	Q2600-02	TRENCH	1	Solid	NO	0.00	07/15/2025	14:15
4	Q2600-06	STOCK-PILE	1	Solid	NO	0.00	07/15/2025	14:23
5	Q2600-10	END-OF-TRENCH	1	Solid	NO	0.00	07/15/2025	14:30
6	Q2605-01	V908	1	Solid	NO	0.00	07/15/2025	14:38
7	Q2605-02	VB16135	1	Solid	NO	0.00	07/15/2025	14:45
8	Q2605-03	VB15061	1	Solid	NO	0.00	07/15/2025	14:52
9	Q2605-04	V897	1	Solid	NO	0.00	07/15/2025	15:00
10	Q2605-04DUP	V897DUP	1	Solid	NO	0.00	07/15/2025	15:08

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

WORKLIST(Hardcopy Internal Chain)

6136483

WorkList Name : IGN-7-15

WorkList ID : 190740

Department : Wet-Chemistry

Date : 07-15-2025 11:24:32

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2571-04	TP-18	Solid	Ignitability	Cool 4 deg C	PSEG03		07/10/2025	1030
Q2592-02	WC-SOIL-20250711	Solid	Ignitability	Cool 4 deg C	PARS02	D51	07/11/2025	1030
Q2600-02	TRENCH	Solid	Ignitability	Cool 4 deg C	TACO01	D41	07/14/2025	1030
Q2600-06	STOCK-PILE	Solid	Ignitability	Cool 4 deg C	TACO01	D41	07/14/2025	1030
Q2600-10	END-OF-TRENCH	Solid	Ignitability	Cool 4 deg C	TACO01	D41	07/14/2025	1030
Q2605-01	V908	Solid	Ignitability	Cool 4 deg C	PSEG03	D41	07/15/2025	1030
Q2605-02	VB16135	Solid	Ignitability	Cool 4 deg C	PSEG03	D41	07/15/2025	1030
Q2605-03	VB15061	Solid	Ignitability	Cool 4 deg C	PSEG03	D41	07/15/2025	1030
Q2605-04	V897	Solid	Ignitability	Cool 4 deg C	PSEG03	D41	07/15/2025	1030

Date/Time 07/15/2025 13:20
Raw Sample Received by: RM (ws)
Raw Sample Relinquished by: JP (ws)

Date/Time 07/15/2025 15:25
Raw Sample Received by: JP (ws)
Raw Sample Relinquished by: RM (ws)

LB136502

Test results

Aquakem 7.2AQ1

Page: 1

Alliance Technical Group
284 Sheffield Street, Mountainside, NJ 07092

7/16/2025 12:50

Reviewed by : RM

Instrument ID : Konelab

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	94.677	0.0	0.076	
ICB1	0.265	0.0	0.001	
CCV1	246.441	0.0	0.198	
CCB1	0.042	0.0	0.001	
PB168863BL	0.115	0.0	0.001	
Q2602-01	-0.037	0.0	0.001	
Q2602-01DUP	0.132	0.0	0.001	
Q2608-05	0.297	0.0	0.001	
PB168864BL	0.121	0.0	0.001	
Q2586-04	-0.026	0.0	0.001	
Q2586-04DUP	0.102	0.0	0.001	
Q2592-02	0.156	0.0	0.001	
Q2605-01	0.049	0.0	0.001	
Q2605-02	0.185	0.0	0.001	
CCV2	242.781	0.0	0.195	
CCB2	0.286	0.0	0.001	
Q2605-03	0.355	0.0	0.001	
Q0605-04	0.290	0.0	0.001	
Q2608-04	0.599	0.0	0.001	
Q2609-02	0.250	0.0	0.001	
Q2609-06	0.244	0.0	0.001	
Q2614-06	0.210	0.0	0.001	
CCV3	252.563	0.0	0.202	
CCB3	0.454	0.0	0.001	

N 24
Mean 35.023
SD 84.1816
CV% 240.36

Aquakem v. 7.2AQ1

Results from time period:

Wed Jul 16 12:15:42 2025

Wed Jul 16 12:36:09 2025

Sample Id	Sam/Ctr/c#	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPBCN	A	Total CN	P	-0.1261	µg/l	7/16/2025 8:53:48	
5.0PPBCN	A	Total CN	P	4.7043	µg/l	7/16/2025 8:53:49	
10PPBCN	A	Total CN	P	9.9066	µg/l	7/16/2025 8:53:50	
50PPBCN	A	Total CN	P	50.521	µg/l	7/16/2025 8:53:51	
100PPBCN	A	Total CN	P	100.0666	µg/l	7/16/2025 8:53:52	
250PPBCN	A	Total CN	P	249.9766	µg/l	7/16/2025 8:53:53	
500PPBCN	A	Total CN	P	499.9511	µg/l	7/16/2025 8:53:54	
ICV1	S	Total CN	P	94.6766	µg/l	7/16/2025 12:15:43	
ICB1	S	Total CN	P	0.2652	µg/l	7/16/2025 12:15:45	
CCV1	S	Total CN	P	246.4408	µg/l	7/16/2025 12:15:46	
CCB1	S	Total CN	P	0.0419	µg/l	7/16/2025 12:15:49	
PB168863BL	S	Total CN	P	0.1154	µg/l	7/16/2025 12:15:50	
Q2602-01	S	Total CN	P	-0.0374	µg/l	7/16/2025 12:23:16	
Q2602-01DUP	S	Total CN	P	0.1316	µg/l	7/16/2025 12:23:18	
Q2608-05	S	Total CN	P	0.2968	µg/l	7/16/2025 12:23:19	
PB168864BL	S	Total CN	P	0.1211	µg/l	7/16/2025 12:23:20	
Q2586-04	S	Total CN	P	-0.0261	µg/l	7/16/2025 12:23:21	
Q2586-04DUP	S	Total CN	P	0.1024	µg/l	7/16/2025 12:23:22	
Q2592-02	S	Total CN	P	0.156	µg/l	7/16/2025 12:23:23	
Q2605-01	S	Total CN	P	0.049	µg/l	7/16/2025 12:23:24	
Q2605-02	S	Total CN	P	0.1854	µg/l	7/16/2025 12:23:25	
CCV2	S	Total CN	P	242.7811	µg/l	7/16/2025 12:30:51	
CCB2	S	Total CN	P	0.2856	µg/l	7/16/2025 12:30:52	
Q2605-03	S	Total CN	P	0.3554	µg/l	7/16/2025 12:30:54	
Q0605-04	S	Total CN	P	0.2897	µg/l	7/16/2025 12:30:55	
Q2608-04	S	Total CN	P	0.5987	µg/l	7/16/2025 12:30:56	
Q2609-02	S	Total CN	P	0.2497	µg/l	7/16/2025 12:30:57	
Q2609-06	S	Total CN	P	0.2436	µg/l	7/16/2025 12:30:58	
Q2614-06	S	Total CN	P	0.2096	µg/l	7/16/2025 12:30:59	
CCV3	S	Total CN	P	252.5635	µg/l	7/16/2025 12:36:06	
CCB3	S	Total CN	P	0.4535	µg/l	7/16/2025 12:36:08	

Calibration results

Aquakem 7.2AQ1

Page: 1

Alliance Technical Group
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM

Instrument ID : Konelab

7/16/2025 8:58

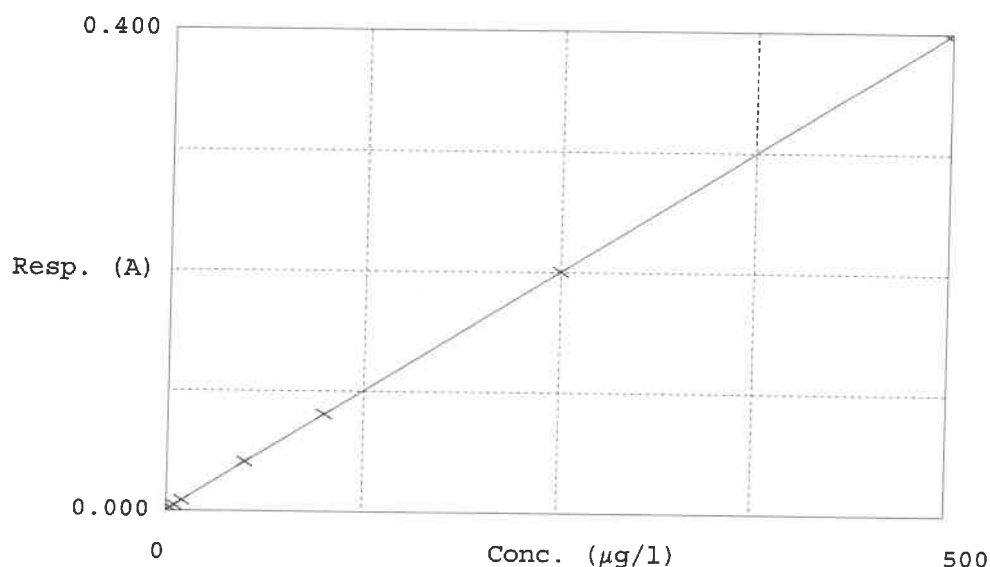
Test Total CN

Accepted 7/16/2025 8:58

Factor 1253
Bias 0.001

Coeff. of det. 0.999998

Errors



	Calibrator	Response	Calc. con.	Conc.	Re Errors
1	0.0PPBCN	0.001	-0.1261	0.0000	-
2	5.0PPBCN	0.005	4.7043	5.0000	-5.9
3	10PPBCN	0.009	9.9066	10.0000	-0.9
4	50PPBCN	0.041	50.5210	50.0000	1.0
5	100PPBCN	0.081	100.0666	100.0000	0.1
6	250PPBCN	0.200	249.9766	250.0000	0.0
7	500PPBCN	0.400	499.9511	500.0000	0.0

07/16/2025
RM

Analysis Method: 9034

ANALYST: rubina

Parameter: Reactive Sulfide

SUPERVISOR REVIEW BY: Iwona

Run Number: LB136510

Constant: 16000

Normality1: 0.025

Normality2: 0.025

Reagent/Standard	Lot/Log #
SODIUM THIOSULFATE, 0.025N, 4LITRE	W3105
IODINE SOLUTION .025N 1L	W3213
Starch Solution, 4L	W3149

Seq	Lab ID	True Value (mg/l)	DF	Initial Weight (g)	Final Volume (ml)	T1 (ml)	T2 Initial	T2 Final	T2 Diff. (ml)	T1 - T2 Diff (mL)	Value Corrected With Blank	Result (ppm)	Anal Date	Anal Time
1	PB168865BL		1	5.00	50	2.00	0.00	1.94	1.94	0.06	0.00	0.00	07/16/2025	14:30
2	Q2586-04		1	5.08	50	2.00	0.00	1.88	1.88	0.12	0.06	4.72	07/16/2025	14:33
3	Q2586-04DUP		1	5.08	50	2.00	0.00	1.88	1.88	0.12	0.06	4.72	07/16/2025	14:36
4	Q2592-02		1	5.03	50	2.00	0.00	1.86	1.86	0.14	0.08	6.36	07/16/2025	14:38
5	Q2605-01		1	5.01	50	2.00	0.00	1.90	1.90	0.10	0.04	3.19	07/16/2025	14:40
6	Q2605-02		1	5.04	50	2.00	0.00	1.88	1.88	0.12	0.06	4.76	07/16/2025	14:42
7	Q2605-03		1	5.04	50	2.00	0.00	1.86	1.86	0.14	0.08	6.35	07/16/2025	14:45
8	Q2605-04		1	5.07	50	2.00	0.00	1.90	1.90	0.10	0.04	3.16	07/16/2025	14:48
9	Q2608-04		1	5.06	50	2.00	0.00	1.86	1.86	0.14	0.08	6.32	07/16/2025	14:50
10	Q2609-02		1	5.03	50	2.00	0.00	1.86	1.86	0.14	0.08	6.36	07/16/2025	14:53
11	Q2609-06		1	5.05	50	2.00	0.00	1.88	1.88	0.12	0.06	4.75	07/16/2025	14:55
12	Q2614-06		1	5.07	50	2.00	0.00	1.86	1.86	0.14	0.08	6.31	07/16/2025	14:58

T1 = Titrant1

T2 = Titrant2

T2 Diff = T2 Final - T2 Initial

Value Corrected With Blank = ((T1 - T2 Diff) - Blank Correction(BL))

Result = ((T1 * Normality1) - ((T1 - Value Corrected With Blank) * Normality2)) * Constant / Initial Volume

SOP ID : M9012B-Total, Amenable and Reactive Cyanide-21

SDG No : N/A

Start Digest Date: 07/16/2025 Time : 10:10 Temp : N/A

Matrix : SOIL

End Digest Date: 07/16/2025 Time : 11:40 Temp : N/A

Pipette ID : N/A

Balance ID : WC SC-7

Hood ID : HOOD#1

Digestion tube ID : M5595

Block Thermometer ID : N/A

Block ID : MC-1,MC-2

Filter paper ID : N/A

Prep Technician Signature: RM

Weigh By : RM

pH Meter ID : N/A

Supervisor Signature: 12

Standard Name	MLS USED	STD REF. # FROM LOG
PBS003	50.0ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.25N NaOH	50.0ML	WP113836
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Comment

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
07/16/2025 11:50	RM (w/c)	RM (w/c)
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB168864BL	PBS864	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2586-04DUP	TP-16DUP	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2586-04	TP-16	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2592-02	WC-SOIL-20250711	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2605-01	V908	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2605-02	VB16135	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2605-03	VB15061	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2605-04	V897	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2608-04	60271	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2609-02	710-ABC	5.08	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2609-06	709-AB	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2614-06	HR-MCN-COMP-01	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : RCN-7-16

WorkList ID : 190770

Department : Distillation

Date : 07-16-2025 08:08:29

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2596-04	TP-16	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	D41	07/11/2025	9012B
Q2592-02	WC-SOIL-20250711	Solid	Reactive Cyanide	Cool 4 deg C	PARS02	D51	07/11/2025	9012B
Q2605-01	V908	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	D41	07/15/2025	9012B
Q2605-02	VB16135	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	D41	07/15/2025	9012B
Q2605-03	VB15061	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	D41	07/15/2025	9012B
Q2605-04	V897	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	D41	07/15/2025	9012B
Q2608-04	60271	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	D41	07/15/2025	9012B
Q2609-02	710-ABC	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	D41	07/15/2025	9012B
Q2609-06	709-AB	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	D41	07/15/2025	9012B
Q2614-06	HR-MCN-COMP-01	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	D41	07/15/2025	9012B

Date/Time 07/16/2025 08:30
 Raw Sample Received by: RMW
 Raw Sample Relinquished by: JAC

Date/Time 07/16/2025 12:30
 Raw Sample Received by: JAC
 Raw Sample Relinquished by: RMW

SOP ID : M9030B-Sulfide-13

SDG No : N/A

Matrix : SOIL

Pipette ID : WC

Balance ID : WC SC-7

Hood ID : HOOD#1

Block ID : MC-1,MC-2

Weigh By : RM

Start Digest Date: 07/16/2025 Time : 12:10 Temp : N/A

End Digest Date: 07/16/2025 Time : 13:40 Temp : N/A

Digestion tube ID : M5595

Filter paper ID : N/A

pH Meter ID : N/A

Block Thermometer ID : N/A

Prep Technician Signature:

Supervisor Signature:

Standard Name	MLS USED	STD REF. # FROM LOG
PBS003	50.0ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.5M ZINC ACETATE	5.0ML	WP113086
FORMALDEHYDE	2.0ML	W2725
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

07/16/2025 RM

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB168865BL	PBS865	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2586-04DUP	TP-16DUP	5.08	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2586-04	TP-16	5.08	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2592-02	WC-SOIL-20250711	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2605-01	V908	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2605-02	VB16135	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2605-03	VB15061	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2605-04	V897	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2608-04	60271	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2609-02	710-ABC	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2609-06	709-ABC	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2614-06	HR-MCN-COMP-01	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : RSUL-7-16

WorkList ID : 190771

Department : Distillation

Date : 07-16-2025 08:08:35

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2586-04	TP-16	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	D41	07/11/2025	9034
Q2592-02	WC-SOIL-20250711	Solid	Reactive Sulfide	Cool 4 deg C	PARS02	D51	07/11/2025	9034
Q2605-01	V908	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	D41	07/15/2025	9034
Q2605-02	VB16135	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	D41	07/15/2025	9034
Q2605-03	VB15061	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	D41	07/15/2025	9034
Q2605-04	V897	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	D41	07/15/2025	9034
Q2608-04	60271	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	D41	07/15/2025	9034
Q2609-02	710-ABC	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	D41	07/15/2025	9034
Q2609-06	709-AB	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	D41	07/15/2025	9034
Q2614-06	HR-MCN-COMP-01	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	D41	07/15/2025	9034

Date/Time 07/16/2025 08:20
 Raw Sample Received by: RM (user)
 Raw Sample Relinquished by: RM (user)

Date/Time 07/16/2025 12:30
 Raw Sample Received by: RM (user)
 Raw Sample Relinquished by: RM (user)

Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB136472

Review By	jignesh	Review On	7/15/2025 10:37:41 AM
Supervise By	Iwona	Supervise On	7/15/2025 1:20:56 PM
SubDirectory	LB136472	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	07/15/25 08:40		Jignesh	OK
2	CAL2	CAL2	CAL	07/15/25 08:41		Jignesh	OK
3	CAL3	CAL3	CAL	07/15/25 08:42		Jignesh	OK
4	ICV	ICV	ICV	07/15/25 08:45		Jignesh	OK
5	CCV1	CCV1	CCV	07/15/25 08:47		Jignesh	OK
6	Q2592-01	WC-SOIL-20250711	SAM	07/15/25 09:00		Jignesh	OK
7	Q2592-01DUP	WC-SOIL-20250711D	DUP	07/15/25 09:02		Jignesh	OK
8	Q2600-01	TRENCH	SAM	07/15/25 09:15		Jignesh	OK
9	Q2600-05	STOCK-PILE	SAM	07/15/25 09:25		Jignesh	OK
10	Q2600-09	END-OF-TRENCH	SAM	07/15/25 09:30		Jignesh	OK
11	CCV2	CCV2	CCV	07/15/25 09:33		Jignesh	OK

Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB136475

Review By	jignesh	Review On	7/15/2025 10:43:59 AM
Supervise By	Iwona	Supervise On	7/15/2025 1:20:29 PM
SubDirectory	LB136475	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	W3178,W3093,W3191,W3217,W3161,W3200		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	07/15/25 08:40		Jignesh	OK
2	CAL2	CAL2	CAL	07/15/25 08:41		Jignesh	OK
3	ICV	ICV	ICV	07/15/25 08:41		Jignesh	OK
4	CAL3	CAL3	CAL	07/15/25 08:42		Jignesh	OK
5	CCV1	CCV1	CCV	07/15/25 08:45		Jignesh	OK
6	Q2592-02	WC-SOIL-20250711	SAM	07/15/25 09:00		Jignesh	OK
7	Q2592-02DUP	WC-SOIL-20250711D	DUP	07/15/25 09:02		Jignesh	OK
8	CCV2	CCV2	CCV	07/15/25 09:33		Jignesh	OK

Instrument ID: FLAME

Daily Analysis Runlog For Sequence/QC Batch ID # LB136483

Review By	rubina	Review On	7/15/2025 3:32:12 PM
Supervise By	Iwona	Supervise On	7/15/2025 3:33:00 PM
SubDirectory	LB136483	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	Q2571-04	TP-18	SAM	07/15/25 14:00		rubina	OK
2	Q2592-02	WC-SOIL-20250711	SAM	07/15/25 14:07		rubina	OK
3	Q2600-02	TRENCH	SAM	07/15/25 14:15		rubina	OK
4	Q2600-06	STOCK-PILE	SAM	07/15/25 14:23		rubina	OK
5	Q2600-10	END-OF-TRENCH	SAM	07/15/25 14:30		rubina	OK
6	Q2605-01	V908	SAM	07/15/25 14:38		rubina	OK
7	Q2605-02	VB16135	SAM	07/15/25 14:45		rubina	OK
8	Q2605-03	VB15061	SAM	07/15/25 14:52		rubina	OK
9	Q2605-04	V897	SAM	07/15/25 15:00		rubina	OK
10	Q2605-04DUP	V897DUP	DUP	07/15/25 15:08		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB136502

Review By	rubina	Review On	7/16/2025 3:47:12 PM
Supervise By	Iwona	Supervise On	7/16/2025 4:30:20 PM
SubDirectory	LB136502	Test	Reactive Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP113957,WP113958,WP113959,WP113960,WP113961,WP113962,WP113963		
ICV Standard	WP113964		
CCV Standard	WP113958		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP112643,WP112900,WP113965		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	07/16/25 08:53		rubina	OK
2	5.0PPBCN	5.0PPBCN	CAL2	07/16/25 08:53		rubina	OK
3	10PPBCN	10PPBCN	CAL3	07/16/25 08:53		rubina	OK
4	50PPBCN	50PPBCN	CAL4	07/16/25 08:53		rubina	OK
5	100PPBCN	100PPBCN	CAL5	07/16/25 08:53		rubina	OK
6	250PPBCN	250PPBCN	CAL6	07/16/25 08:53		rubina	OK
7	500PPBCN	500PPBCN	CAL7	07/16/25 08:53		rubina	OK
8	ICV1	ICV1	ICV	07/16/25 12:15		rubina	OK
9	ICB1	ICB1	ICB	07/16/25 12:15		rubina	OK
10	CCV1	CCV1	CCV	07/16/25 12:15		rubina	OK
11	CCB1	CCB1	CCB	07/16/25 12:15		rubina	OK
12	PB168863BL	PB168863BL	MB	07/16/25 12:15		rubina	OK
13	Q2602-01	FRAC-TANK-266380	SAM	07/16/25 12:23		rubina	OK
14	Q2602-01DUP	FRAC-TANK-266380	DUP	07/16/25 12:23		rubina	OK
15	Q2608-05	60265	SAM	07/16/25 12:23		rubina	OK
16	PB168864BL	PB168864BL	MB	07/16/25 12:23		rubina	OK
17	Q2586-04	TP-16	SAM	07/16/25 12:23		rubina	OK
18	Q2586-04DUP	TP-16DUP	DUP	07/16/25 12:23		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB136502

Review By	rubina	Review On	7/16/2025 3:47:12 PM
Supervise By	Iwona	Supervise On	7/16/2025 4:30:20 PM
SubDirectory	LB136502	Test	Reactive Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP113957,WP113958,WP113959,WP113960,WP113961,WP113962,WP113963		
ICV Standard	WP113964		
CCV Standard	WP113958		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP112643,WP112900,WP113965		

19	Q2592-02	WC-SOIL-20250711	SAM	07/16/25 12:23		rubina	OK
20	Q2605-01	V908	SAM	07/16/25 12:23		rubina	OK
21	Q2605-02	VB16135	SAM	07/16/25 12:23		rubina	OK
22	CCV2	CCV2	CCV	07/16/25 12:30		rubina	OK
23	CCB2	CCB2	CCB	07/16/25 12:30		rubina	OK
24	Q2605-03	VB15061	SAM	07/16/25 12:30		rubina	OK
25	Q2605-04	V897	SAM	07/16/25 12:30		rubina	OK
26	Q2608-04	60271	SAM	07/16/25 12:30		rubina	OK
27	Q2609-02	710-ABC	SAM	07/16/25 12:30		rubina	OK
28	Q2609-06	709-AB	SAM	07/16/25 12:30		rubina	OK
29	Q2614-06	HR-MCN-COMP-01	SAM	07/16/25 12:30		rubina	OK
30	CCV3	CCV3	CCV	07/16/25 12:36		rubina	OK
31	CCB3	CCB3	CCB	07/16/25 12:36		rubina	OK

Instrument ID: TITRAMETRIC

Daily Analysis Runlog For Sequence/QC Batch ID # LB136510

Review By	rubina	Review On	7/16/2025 4:30:47 PM
Supervise By	Iwona	Supervise On	7/16/2025 4:31:03 PM
SubDirectory	LB136510	Test	Reactive Sulfide
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	W3105,W3213,W3149		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	PB168865BL	PB168865BL	MB	07/16/25 14:30		rubina	OK
2	Q2586-04	TP-16	SAM	07/16/25 14:33		rubina	OK
3	Q2586-04DUP	TP-16DUP	DUP	07/16/25 14:36		rubina	OK
4	Q2592-02	WC-SOIL-20250711	SAM	07/16/25 14:38		rubina	OK
5	Q2605-01	V908	SAM	07/16/25 14:40		rubina	OK
6	Q2605-02	VB16135	SAM	07/16/25 14:42		rubina	OK
7	Q2605-03	VB15061	SAM	07/16/25 14:45		rubina	OK
8	Q2605-04	V897	SAM	07/16/25 14:48		rubina	OK
9	Q2608-04	60271	SAM	07/16/25 14:50		rubina	OK
10	Q2609-02	710-ABC	SAM	07/16/25 14:53		rubina	OK
11	Q2609-06	709-AB	SAM	07/16/25 14:55		rubina	OK
12	Q2614-06	HR-MCN-COMP-01	SAM	07/16/25 14:58		rubina	OK

Prep Standard - Chemical Standard Summary

Order ID : Q2592

Test : Corrosivity,Ignitability,Percent Solids,pH,Reactive Cyanide,Reactive Sulfide

Prepbatch ID : PB168864,PB168865,

Sequence ID/Qc Batch ID: LB136472,LB136475,LB136483,LB136502,LB136510,

Standard ID :

WP112643,WP112900,WP113086,WP113836,WP113838,WP113956,WP113957,WP113958,WP113959,WP113960,WP113961,WP113962,WP113963,WP113964,WP113965,

Chemical ID :

M6151,W2668,W2725,W2926,W3019,W3093,W3105,W3112,W3113,W3139,W3149,W3161,W3178,W3191,W3200,W3203,W3213,W3214,W3217,W3224,

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
539	CN BUFFER	WP112643	04/09/2025	10/09/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych 04/09/2025

FROM 138.00000gram of W2668 + 862.00000ml of W3112 = Final Quantity: 1000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
607	PYRIDINE-BARBITURIC ACID	WP112900	05/01/2025	08/18/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	Glass Pipette-A	Iwona Zarych 05/01/2025

FROM 145.00000ml of W3112 + 15.00000gram of W3203 + 15.00000ml of M6151 + 75.00000ml of W3019 = Final Quantity: 250.000 ml

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
160	0.5M ZINC ACETATE	WP113086	05/15/2025	08/18/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 05/15/2025
FROM 0.88900L of W3112 + 1.00000ml of M6151 + 110.00000gram of W2926 = Final Quantity: 1000.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
11	Sodium hydroxide absorbing solution 0.25 N	WP113836	07/08/2025	12/31/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 07/08/2025
FROM 21.00000L of W3112 + 210.00000gram of W3113 = Final Quantity: 21.000 L								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3371	Cyanide LCS Spike Solution, 5PPM	WP113838	07/08/2025	12/24/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 07/08/2025
FROM 1.00000ml of W3224 + 199.00000ml of WP113836 = Final Quantity: 200.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3456	Cyanide Intermediate Working Std, 5PPM	WP113956	07/16/2025	07/17/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 07/17/2025
FROM 0.25000ml of W3214 + 49.75000ml of WP113836 = Final Quantity: 50.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
4	Calibration standard 500 ppb	WP113957	07/16/2025	07/17/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 07/17/2025
FROM 45.00000ml of WP113836 + 5.00000ml of WP113956 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3761	Calibration-CCV CN Standard 250 ppb	WP113958	07/16/2025	07/17/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 07/17/2025
FROM 2.50000ml of WP113956 + 47.50000ml of WP113836 = Final Quantity: 50.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
6	Calibration Standard 100 ppb	WP113959	07/16/2025	07/17/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 07/17/2025
FROM 1.00000ml of WP113956 + 49.00000ml of WP113836 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
7	Calibration Standard 50 ppb	WP113960	07/16/2025	07/17/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 07/17/2025
FROM 0.50000ml of WP113956 + 49.50000ml of WP113836 = Final Quantity: 50.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
8	Calibration Standard 10 ppb	WP113961	07/16/2025	07/17/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 07/17/2025
FROM 1.00000ml of WP113957 + 49.00000ml of WP113836 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
9	Calibration Standard 5 ppb	WP113962	07/16/2025	07/17/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 07/17/2025
FROM 0.50000ml of WP113957 + 49.50000ml of WP113836 = Final Quantity: 50.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
167	0 ppb CN calibration std	WP113963	07/16/2025	07/17/2025	Rubina Mughal	None	None	Iwona Zarych
								07/17/2025

FROM 50.00000ml of WP113836 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2168	RCN ICV STD, 100 PPB	WP113964	07/16/2025	07/17/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3	Iwona Zarych
							(WC)	07/17/2025

FROM 1.00000ml of WP113838 + 49.00000ml of WP113836 = Final Quantity: 50.000 ml

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1582	Chloramine T solution, 0.014M	WP113965	07/16/2025	07/17/2025	Rubina Mughal	WETCHEM_S CALE_5 (WC SC-5)	Glass Pipette-A	Iwona Zarych 07/17/2025
FROM 0.08000gram of W3139 + 20.00000ml of W3112 = Final Quantity: 20.000 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22G2862015	08/18/2025	02/18/2025 / Sagar	01/15/2025 / Sagar	M6151

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3818-5 / SODIUM PHOSPHATE, MONOBAS/HYD, CRYST, ACS, 2.5 KG	0000225799	12/03/2025	04/05/2021 / Alexander	02/10/2020 / apatel	W2668

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	EMD-FX0410-5 / FORMALDEHYDE SOLUTION 450ML	60045	06/30/2025	08/19/2024 / lwona	06/22/2020 / apatel	W2725

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J4296-1 / ZINC ACETATE, DIHYD, CRYST, ACS, 500G	383058	07/05/2027	07/05/2022 / ketankumar	07/05/2022 / ketankumar	W2926

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
SIGMA ALDRICH	270970-1L / Pyridine 1L	SHBQ2113	04/03/2028	04/03/2023 / lwona	04/03/2023 / lwona	W3019

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL69870-8 / SODIUM THIOSULFATE,0.025N,4LIT RE	4403S13	09/30/2025	04/22/2024 / lwona	04/22/2024 / lwona	W3105

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-7 / Sodium Hydroxide Pellets 12 Kg	23B1556310	12/31/2025	07/08/2024 / lwona	07/08/2024 / lwona	W3113

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	JTE494-6 / CHLORAMINE-T BAKER 250GM	10239484	09/09/2029	09/09/2024 / lwona	09/09/2024 / lwona	W3139

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL70850-8 / Starch Solution, 4L	4408P62	08/31/2026	10/16/2024 / lwona	10/16/2024 / lwona	W3149

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

CHEMICAL RECEIPT LOG BOOK

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 #
RICCA CHEMICAL COMPANY	1615-16 / pH 12.00 Buffer	2504F20	09/30/2026	04/11/2025 / lwona	04/11/2025 / lwona	W3200

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	EM-BX0035-3 / Barbituric Acid, 100 gms	WXBFB3271V	05/16/2029	04/21/2025 / lwona	04/21/2025 / lwona	W3203

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL35830-4 / IODINE SOLUTION .025N 1L	MK25A21527	01/20/2029	05/21/2025 / lwona	05/21/2025 / lwona	W3213

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	RC2543-4 / CYANIDE STD 1000PPM 4OZ	1505H73	11/30/2025	05/21/2025 / lwona	05/21/2025 / lwona	W3214

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 / lwona	W3217

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	LC135457 / Cyanide Standard, 1000 PPM, Second Source	45060288	12/24/2025	07/07/2025 / lwona	07/07/2025 / lwona	W3224

W3019
rec 4/3/23

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.comEmail USA: techserv@sial.comOutside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:

Pyridine - anhydrous, 99.8%

Product Number:

270970

Batch Number:

SHBQ2113

Brand:

SIAL

CAS Number:

110-86-1

MDL Number:

MFCD00011732

Formula:

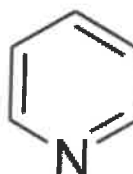
C₅H₅N

Formula Weight:


79.10 g/mol

Quality Release Date:

15 DEC 2022



Test	Specification	Result
Appearance (Color)	Colorless	Colorless
Appearance (Form)	Liquid	Liquid
Infrared Spectrum	Conforms to Structure	Conforms
Purity (GC)	≥ 99.75 %	99.99 %
Water (by Karl Fischer)	≤ 0.003 %	0.002 %
Residue on Evaporation	≤ 0.0005 %	< 0.0001 %


Larry Coers, Director
Quality Control
Sheboygan Falls, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



Certificate of Analysis

Date of Release: 2/26/2020

Name: Formaldehyde Solution
GR ACS
Meets ACS Specifications

Item No: FX0410 all size codes

Lot / Batch No: 60045

Country of Origin: USA

Characteristic	Requirement		Results	Units
	Min.	Max.		
Assay	36.5	38.0	36.71	%
Chloride (Cl)		5	<5	ppm
Color (APHA)		10	<10	
Form			Passes test	
Heavy metals (as Pb)		5	<5	ppm
Iron (Fe)		5	0.6	ppm
Residue after ignition		0.005	<0.0050	%
Sulfate (SO ₄)		0.002	<0.0020	%
Titration acid		0.006	<0.0060	meq/g

Heather Sinn,

Quality Control Manager

This document has been produced electronically and is valid without a signature.

EMD Millipore Corporation, an affiliate of Merck KGaA, Darmstadt, Germany
290 Concord Road
Billerica, MA 01821
U.S.A

The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the U.S. and Canada.

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™



M6151

R → 11/15/25

Material No.: 9530-33
Batch No.: 22G2862015
Manufactured Date: 2022-06-15
Retest Date: 2027-06-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid–base titrn)	36.5 – 38.0 %	37.9 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.191
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl ₂)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO ₄)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO ₃)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH ₄)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	1.3 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	163.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.7 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.6 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis



Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result
Trace Impurities – Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities – Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Magnesium (Mg)	≤ 10.0 ppb	2.9 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities – Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities – Niobium (Nb)	≤ 1.0 ppb	0.8 ppb
Trace Impurities – Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	0.5 ppb
Trace Impurities – Sodium (Na)	≤ 100.0 ppb	2.3 ppb
Trace Impurities – Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Tantalum (Ta)	≤ 1.0 ppb	1.6 ppb
Trace Impurities – Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	4.0 ppb
Trace Impurities – Titanium (Ti)	≤ 1.0 ppb	1.5 ppb
Trace Impurities – Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Trace Impurities – Zirconium (Zr)	≤ 1.0 ppb	0.3 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA–ANALYZED® Reagent
For Trace Metal Analysis

 **avantor**™

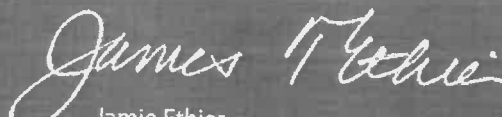


Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result
------	---------------	--------

For Laboratory, Research, or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

Sodium Phosphate, Monobasic, Monohydrate,
Crystal
BAKER ANALYZED® A.C.S. Reagent

(sodium dihydrogen phosphate, monohydrate)



Material No.: 3818-05
Batch No.: 0000225799
Manufactured Date: 2018/12/05
Retest Date: 2025/12/03
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($\text{NaH}_2\text{PO}_4 \cdot \text{H}_2\text{O}$)	98.0 – 102.0 %	99.5
pH of 5% Solution at 25°C	4.1 – 4.5	4.3
Insoluble Matter	≤ 0.01 %	< 0.01
Chloride (Cl)	≤ 5 ppm	< 5
ACS – Sulfate (SO_4)	≤ 0.003 %	< 0.003
Calcium (Ca)	≤ 0.005 %	< 0.005
Potassium (K)	≤ 0.01 %	< 0.01
Heavy Metals (as Pb)	≤ 0.001 %	< 0.001
Trace Impurities – Iron (Fe)	≤ 0.001 %	< 0.001

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: IN
Packaging Site: Paris Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

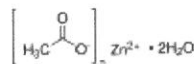
For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Certificate of Analysis

Product Name:


Zinc acetate dihydrate - ACS reagent, $\geq 98\%$

Product Number: 383058
Batch Number: MKCQ9159
Brand: SIGALD
CAS Number: 5970-45-6
MDL Number: MFCD00066961
Formula: $C_4H_6O_4Zn \cdot 2H_2O$
Formula Weight: 219.51 g/mol
Quality Release Date: 06 JAN 2022



W2926
Open 7/5/22
received
on 7/5/22

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystal or Chunk(s)	Powder
Infrared Spectrum	Conforms to Structure	Conforms
Insoluble Matter	$\leq 0.005\%$	0.003 %
Calcium (Ca)	$\leq 0.005\%$	0.003 %
Chloride (Cl)	≤ 5 ppm	< 5 ppm
Iron (Fe)	≤ 5 ppm	< 5 ppm
Potassium (K)	$\leq 0.01\%$	0.00 %
Magnesium (Mg)	$\leq 0.005\%$	0.003 %
Sodium (Na)	$\leq 0.05\%$	0.03 %
Lead (Pb)	$\leq 0.002\%$	$< 0.001\%$
pH	6.0 - 7.0	6.1
Sulfate (SO ₄)	$\leq 0.005\%$	$< 0.005\%$
Complexometric EDTA	98.0 - 101.0 %	100.3 %
Meets ACS Requirements	Meets Requirements	Meets Requirements


Larry Coers, Director
Quality Control
Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.





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

Sodium Thiosulfate, 0.0250 Normal (N/40)

Lot Number: 4403S13

Product Number: 7900

Manufacture Date: MAR 29, 2024

Expiration Date: SEP 2025

This product is specially formulated to increase its stability. A preservative is added to prevent bacterial contamination. However, all Sodium Thiosulfate solutions are subject to slow chemical deterioration and should be restandardized periodically.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Thiosulfate Pentahydrate	10102-17-7	ACS
Organic Preservative	Proprietary	
Sodium Carbonate	497-19-8	ACS

Test	Specification	Result	NIST SRM#
Appearance	Colorless liquid	Passed	
Assay (vs. Potassium Iodate/Starch)	0.02499-0.02501 N at 20°C	0.02501 N at 20°C	136

Specification	Reference
Standard Sodium Thiosulfate Solution, 0.0250 N	APHA (4500-S2- F)
Standard Sodium Thiosulfate Titrant	APHA (4500-O D)
Standard Sodium Thiosulfate Titrant	APHA (4500-O E)
Standard Sodium Thiosulfate Titrant	APHA (4500-O F)
Standard Sodium Thiosulfate Titrant, 0.025 N	APHA (4500-CI B)
Standard Sodium Thiosulfate Titrant	APHA (4500-O C)
Standard Sodium Thiosulfate Titrant, 0.025 M	APHA (5530 C)
Standard Sodium Thiosulfate Solution (0.025 N)	EPA (SW-846) (9031)
Standard Sodium Thiosulfate solution (0.025 N)	EPA (SW-846) (9034)

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)
7900-1	4 L natural poly	18 months
7900-16	500 mL natural poly	18 months
7900-1CT	4 L Cubitainer®	18 months
7900-32	1 L natural poly	18 months

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



Paul Brandon (03/29/2024)

Production Manager

This document is designed to comply with ISO Guide 31 "Reference Materials --
Contents of Certificates and Labels."

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Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 0.003 %	<0.003 %	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.



Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula:	NaOH	Manufacture Date:	12/14/2022
Molecular Weight:	40	Expiration Date:	12/31/2025
CAS #:	1310-73-2		
Appearance:		Storage:	Room Temperature

Pellets

Spec Set: 0583ACS

Internal ID #: 710

Signature	Additional Information
We certify that this batch conforms to the specifications listed.	Analysis may have been rounded to significant digits in specification limits.
This document has been electronically produced and is valid without a signature.	Product meets analytical specifications of the grades listed.
Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC. 28600 Fountain Parkway, Solon OH 44139 USA	

W3139 Received on 9/9/24 by IZ

Product No.: A12044
Product: Chloramine-T trihydrate, 98%
Lot No.: 10239484

Appearance:	White powder
Melting Point:	166°C(dec)
Assay (Iodometric titration):	100.5%
Identification (FTIR):	Conforms

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Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.



Certificate of Analysis

Starch Indicator, 0.5% (w/v), Mercury Free, for Iodometric Titrations

Lot Number: 4408P62

Product Number: 8000

Manufacture Date: AUG 28, 2024

Expiration Date: AUG 2026

This product is Mercury-free.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Starch, soluble	9005-84-9	ACS
Salicylic Acid	69-72-7	ACS

Test	Specification	Result
Appearance	White translucent liquid	Passed
Suitability for Use	Colorless (Iodine absent) - Blue (Iodine present)	Passed

Specification	Reference
Starch Solution	APHA (4500-S2- F)
Starch Indicator Solution	APHA (4500-CI B)
Starch Indicator	APHA (4500-SO32- B)
Starch indicator solution	APHA (2350 B)
Starch indicator solution	APHA (2350 E)
Starch Solution	APHA (510 B)
Starch Solution	APHA (5530 C)
Starch Indicator	APHA (4500-CI C)
Starch Indicator	EPA (345.1)

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)
8000-1	4 L natural poly	24 months
8000-16	500 mL natural poly	24 months
8000-32	1 L natural poly	24 months

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

Production Manager

73 of 94



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

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customerservice@riccachemical.com

Certificate of Analysis

W21758 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	
Buffer B	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)



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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

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

Version: 1.3

Lot Number: 2410F80

Product Number: 1601

Page 1 of 2

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

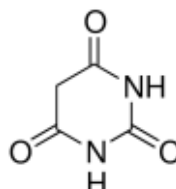
This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.

Certificate of Analysis

Product Name:

Barbituric acid - ReagentPlus®, 99%

Product Number: 185698
Batch Number: WXBFB3271V
Brand: SIAL
CAS Number: 67-52-7
Formula: C₄H₄N₂O₃
Formula Weight: 128.09 g/mol
Quality Release Date: 16 MAY 2024



Test	Specification	Result
Appearance (Colour)	White to Off-White	White
Appearance (Form)	Powder	Powder
Infrared spectrum	Conforms to Structure	Conforms
Purity (Titration by NaOH)	98.5 - 101.5 %	100.4 %
GC (area %)	≥ 98 %	100 %
VPCT		



Kang Chen
Quality Manager
Wuxi, China CN

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.





Material	BDHVBDH7206-1
Material Description	IODINE SOLUTION 0.025N
Lot	25A2461008
Expires end of	2029-Jan-20
Molecular mass	0
Last Quality Control	2025-Jan-24
Date of manufacture	2025-Jan-21
Made in	United States
Manufacturer Source Batch	MK25A21527

Additional information

Characteristics	Specifications	Measured values
Prepared to formulation on file	Confirmed	Confirmed
Appearance	Passes Test	Passes Test
Normality, N	0.0200 - 0.0300	0.0268

Signature

We certify that this batch conforms to the specifications listed above.

This document has been produced electronically and is valid without a signature.

Michelle Bales - Sr. Manager Quality Assurance
 Avantor Performance Materials, LLC

For Professional use in Laboratory or Manufacturing. Not for use as an Active Pharmaceutical Ingredient or Food or Animal Feed. Suitability and intended use of the product remains the responsibility of the user.

VWR International LLC, Radnor Corporate Center, Building One, Suite 200, 100 Matsonford Road, Radnor, PA 19087, USA.

VWR International bv, Haasrode Research Park Zone 2020, Geldenaaksebaan 464, 3001 Leuven, Belgium

BDHVBDH72 25A2461008 Page 1 of 1

Certificate of Analysis

Cyanide Standard, 1000 ppm CN⁻

Lot Number: 1505H73

Product Number: 2543

Manufacture Date: MAY 08, 2025

Expiration Date: NOV 2025

This standard is prepared using accurate volumetric techniques from material that has been assayed against Silver Nitrate solution certified traceable to NIST Standard Reference Material 999. The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is the combined uncertainty based on the stability of the assayed Potassium Cyanide, and the uncertainty in the mass and volume measurements.

Use 0.16% (w/v) (0.04 N) Sodium Hydroxide or 0.225 % (w/v) (0.04 N) Potassium Hydroxide to make dilutions of this standard. Restandardize weekly if extreme accuracy is required.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Cyanide	151-50-8	ACS
Sodium Hydroxide	1310-73-2	Reagent (from ACS)

Test	Specification	Result
Appearance	Colorless liquid	Passed
Cyanide (CN ⁻)	995-1005 ppm	1000 ppm

Specification	Reference
Stock Standard Cyanide Solution	APHA (4500-CN- F)
Stock Cyanide Solution	APHA (4500-CN- E)
Stock Cyanide Solution	APHA (4500-CN- K)
Stock Cyanide Solution	APHA (4500-CN- H)
Cyanide Reference Solution (1000 mg/L)	EPA (SW-846) (7.3.3.2)
Cyanide Calibration Stock Solution (1,000 mg/L CN ⁻)	EPA (SW-846) (9213)
Stock Cyanide Solution	EPA (335.3)
Stock Cyanide Solution	EPA (335.2)
Cyanide Solution Stock	ASTM (D 4282)
Simple Cyanide Solution, Stock (1.0 g/L CN ⁻)	ASTM (D 4374)

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)
2543-16	500 mL amber poly	6 months
2543-32	1 L amber poly	6 months
2543-4	120 mL amber poly	6 months

Recommended Storage: 2°C - 8°C (36°F - 46°F)

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

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

Certificate of Analysis

Cyanide Standard 1000 ppm (1ml = 1mg CN)

Product Code: **LC13545**

Manufacture Date: June 25, 2025

Lot Number: **45060288**

Expiration Date: December 24, 2025

Test	Specification	Result
Appearance (clarity)	clear solution	clear solution
Appearance (color)	colorless	colorless
Concentration (CN)	0.990 - 1.010mg/mL	1.000mg/mL
Concentration (CN)	990 - 1,010ppm	1,000ppm
Traceable to NIST SRM	Report	999b

Intended Use - Product is intended for use in manufacturing procedures and laboratory procedures and protocols.

Storage Information - Unless noted on the product label, store the product under normal lab conditions in its tightly closed, original container. Do not pipet directly from the container or return unused portions to the container.

Instructions for Handling and Use - Please refer to the associated product label and Safety Data Sheet (SDS) for information regarding safety and handling of this product.

Preparation - All products are manufactured and tested according to established, documented procedures and methodology. Production documentation records manufacturing data, raw material traceability and testing history on a per lot basis. Balances, thermometers, and glassware are calibrated before first use and on a regular schedule with references traceable to NIST

The suffix of the product code may differ from what is on your product label. The suffix will designate the size and be associated with a numeric digit(s). Visit LabChem.com for more information

Suffix	1	2	3/3S/36/36S	4/4C	5	6	7	8	9	20	44	200	246	486
Size	500mL org	1L or 1kg	2.5L/2.5L Coated/6x2.5L/6x2.5L Coated	4L	20L	10L	125mL	25g	100g	20x20mL	4x4L	200L	24x6mL	48x6mL



Michael Monteleone
Chemistry Supervisor - Quality Control

ISO9001:2015 Registration #0306-01

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 7/16/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 07/15/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:25
Out Date: 07/16/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB136481

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
Q2592-01	WC-SOIL-20250711	1	1.15	10.84	11.99	9.46	76.7	
Q2605-01	V908	2	1.13	10.70	11.83	11.13	93.5	
Q2605-02	VB16135	3	1.14	10.66	11.8	11.09	93.3	
Q2605-03	VB15061	4	1.18	10.55	11.73	10.99	93.0	
Q2605-04	V897	5	1.17	10.79	11.96	11.76	98.1	
Q2607-01	VNJ-257-1	6	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2607-02	VNJ-257-2	7	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2607-03	ETGI-359-1	8	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2607-04	ETGI-359-2	9	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2608-04	60271	10	1.14	10.65	11.79	9.61	79.5	
Q2609-01	710-ABC	11	1.18	10.37	11.55	11.5	99.5	
Q2609-03	710-C	12	1.13	10.29	11.42	11.37	99.5	
Q2609-05	709-AB	13	1.16	10.26	11.42	11.39	99.7	
Q2609-07	709-A	14	1.14	10.28	11.42	11.4	99.8	
Q2610-01	2010	15	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2610-02	2011	16	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2610-03	2012	17	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2610-04	2013	18	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2610-05	2014	19	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2611-01	EO-02-071525	20	1.16	10.17	11.33	10.83	95.1	
Q2611-02	EO-02-071525-E2	21	1.14	10.39	11.53	10.68	91.8	
Q2612-01	OR-02-071525	22	1.18	10.49	11.67	10.1	85.0	
Q2612-02	OR-02-071525-E2	23	1.12	10.61	11.73	9.89	82.7	
Q2614-01	HR-MCN-COMP-01	24	1.15	10.70	11.85	9.61	79.1	
Q2614-02	HR-MCN-VOC-01	25	1.15	10.29	11.44	9.14	77.6	
Q2614-03	HR-MCN-01	26	1.11	10.71	11.82	9.35	76.9	
Q2614-04	HR-MCN-02	27	1.19	10.40	11.59	8.94	74.5	
Q2614-05	HR-MCN-03	28	1.14	10.58	11.72	9.89	82.7	

WORKLIST(Hardcopy Internal Chain)

J 136481

WorkList Name : %1-071525

WorkList ID : 190721

Department : Wet-Chemistry

Date : 07-15-2025 08:40:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2592-01	WC-SOIL-20250711	Solid	Percent Solids	Cool 4 deg C	PARS02	D51	07/11/2025	Chemtech -SO
Q2605-01	V908	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/15/2025	Chemtech -SO
Q2605-02	VB16135	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/15/2025	Chemtech -SO
Q2605-03	VB15061	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/15/2025	Chemtech -SO
Q2605-04	V897	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/15/2025	Chemtech -SO
Q2607-01	VNJ-257-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/15/2025	Chemtech -SO
Q2607-02	VNJ-257-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/15/2025	Chemtech -SO
Q2607-03	ETGI-359-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/15/2025	Chemtech -SO
Q2607-04	ETGI-359-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/15/2025	Chemtech -SO
Q2608-04	60271	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/15/2025	Chemtech -SO
Q2609-01	710-ABC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/15/2025	Chemtech -SO
Q2609-03	710-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/15/2025	Chemtech -SO
Q2609-05	709-ABC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/15/2025	Chemtech -SO
Q2609-07	709-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/15/2025	Chemtech -SO
Q2610-01	2010	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/15/2025	Chemtech -SO
Q2610-02	2011	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/15/2025	Chemtech -SO
Q2610-03	2012	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/15/2025	Chemtech -SO
Q2610-04	2013	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/15/2025	Chemtech -SO
Q2610-05	2014	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/15/2025	Chemtech -SO
Q2611-01	EO-02-071525	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/15/2025	Chemtech -SO
Q2611-02	EO-02-071525-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	07/15/2025	Chemtech -SO

Date/Time

07-15-25 13:15

Raw Sample Received by:

JW

Raw Sample Relinquished by:

JW

Date/Time

07-15-25

Raw Sample Received by:

JW

Raw Sample Relinquished by:

JW

WORKLIST(Hardcopy Internal Chain)

J 136481

WorkList Name : %1-071525 WorkList ID : 190721 Department : Wet-Chemistry Date : 07-15-2025 08:40:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2612-01	OR-02-071525	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	07/15/2025	Chemtech -SO
Q2612-02	OR-02-071525-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	07/15/2025	Chemtech -SO
Q2614-01	HR-MCN-COMP-01	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/15/2025	Chemtech -SO
Q2614-02	HR-MCN-VOC-01	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/15/2025	Chemtech -SO
Q2614-03	HR-MCN-01	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/15/2025	Chemtech -SO
Q2614-04	HR-MCN-02	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/15/2025	Chemtech -SO
Q2614-05	HR-MCN-03	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/15/2025	Chemtech -SO

Date/Time 07-15-25 15:15
Raw Sample Received by: SP WJC
Raw Sample Relinquished by: SP WJC

Date/Time 07-15-25 17:30
Raw Sample Received by: SP WJC
Raw Sample Relinquished by: SP WJC



SHIPPING DOCUMENTS

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

CLIENT INFORMATION

CLIENT PROJECT INFORMATION

CLIENT BILLING INFORMATION

REPORT TO BE SENT TO:

COMPANY: Parsons
ADDRESS: 301 Plainfield Road
CITY: Syracuse STATE: NY ZIP: 13212
ATTENTION: Zohar Lavy
PHONE: (732) 796-5536 FAX: -

PROJECT NAME: ConEd East River SI
PROJECT NO.: 454534 LOCATION: Manhattan
PROJECT MANAGER: Zohar Lavy
e-mail: Zohar.lavy@parsons.com
PHONE: (732) 796-5536 FAX: -

BILL TO: Parsons PO#: 454534
ADDRESS: 301 Plainfield Road
CITY: Syracuse STATE: NY ZIP: 13212
ATTENTION: Zohar Lavy PHONE: (732) 796-5536

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) 5-day rush DAYS*
HARDCOPY (DATA PACKAGE): 5-day rush DAYS*
EDD: 5-day rush 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. VOCs, SVOCs
2. TAL metals
3. PCBs, TPH
4. TAP WIS, TAP SVOCs
5. TAP WIS, TAP SVOCs
6. TAP WIS, TAP SVOCs
7. TAP WIS, TAP SVOCs
8. TAP WIS, TAP SVOCs
9. TAP WIS, TAP SVOCs

PRESERVATIVES

COMMENTS

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

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.	WC-Soil-20250711	S	X		7/11/25	1230	9	X	X	X	X	X	X	X	X	X	
2.																	
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

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

RELINQUISHED BY SAMPLER: 1. <u>EMMA SAVER</u>	DATE/TIME: <u>1440</u> <u>7/11/25</u>	RECEIVED BY: <u>[Signature]</u> <u>1440</u> <u>7-11-25</u>	Conditions of bottles or coolers at receipt: <input type="checkbox"/> COMPLIANT <input type="checkbox"/> NON COMPLIANT <input type="checkbox"/> COOLER TEMP <u>3.1</u> °C Comments: <u>Include Zohar.lavy@parsons.com and Kirsten.valentin@parsons.com</u> <u>on all data</u>
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.	
RELINQUISHED BY SAMPLER: 3. <u>[Signature]</u>	DATE/TIME: <u>1637</u> <u>7-11-25</u>	RECEIVED BY: 3.	

Page ____ of ____

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 : Q2592 PARS02	Order Date : 7/11/2025 3:05:25 PM	Project Mgr :
Client Name : PARSONS Engineering of I	Project Name : Con Edison - East River Sit	Report Type : NYS ASP B
Client Contact : Zohar Lavy	Receive DateTime : 7/11/2025 12:00:00 AM 04:39:00 PM	EDD Type : NYSDEC EDD V-3
Invoice Name : PARSONS Engineering of I	Purchase Order :	Hard Copy Date :
Invoice Contact : Zohar Lavy		Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2592-01	WC-SOIL-20250711	Solid	07/11/2025	12:30		VOCMS Group1	8260D		5 Bus. Days

DP 07/15/2025

Relinquished By : 

Date / Time : 7/14/25 0725

SAMPLES RECEIVED ON 7/11/25 @ 1440
SAMPLES PLACED IN SM-REF-2

Received By : 

Date / Time : 07/14/25 10:00

Storage Area : VOA Refridgerator Room

28#6
F22