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

# Cover Page

**Order ID :** Q2512

**Project ID :** Rotor Clip NJ WTD - 2025

**Client :** VERINA CONSULTING GROUP, LLC

| Lab Sample Number | Client Sample Number |
|---|---|
| Q2512-01 | WATER-TREATMENT DISCHARGE |

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

Signature : _____

Date: 7/10/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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# CASE NARRATIVE

**VERINA CONSULTING GROUP, LLC**
**Project Name: Rotor Clip NJ WTD - 2025**
**Project # N/A**
**Order ID # Q2512**
**Test Name: Ammonia,Residual Chlorine**

**A. Number of Samples and Date of Receipt:**
1 Water sample was received on 07/03/2025.

**B. Parameters:**
According to the Chain of Custody document, the following analyses were requested: Ammonia, Metals Group4 and Residual Chlorine. This data package contains results for Ammonia,Residual Chlorine.

**C. Analytical Techniques:**
The analysis of Residual Chlorine was based on method SM4500 Cl G and The analysis of Ammonia was based on method SM4500-NH3.

**D. QA/ QC Samples:**
The Holding Times were met for all samples except for WATER-TREATMENT DISCHARGE of Residual Chlorine as Sample was received out of holding time.
Sample WATER-TREATMENT DISCHARGE was diluted due to high concentrations for Ammonia as N.
The Blank Spike met requirements for all parameters.
The Duplicate analysis met criteria for all parameters.
The Matrix Spike analysis met criteria for all parameters.
The Matrix Spike Duplicate analysis met criteria for all parameters.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

**E. Additional Comments:**

---

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

Signature_____

Alliance TECHNICAL GROUP

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

# DATA REPORTING QUALIFIERS- INORGANIC

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

| | |
|---|---|
| **J** | Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL). |
| **U** | Indicates the analyte was analyzed for, but not detected. |
| **ND** | Indicates the analyte was analyzed for, but not detected |
| **E** | Indicates the reported value is estimated because of the presence of interference |
| **M** | Indicates Duplicate injection precision not met. |
| **N** | Indicates the spiked sample recovery is not within control limits. |
| **S** | Indicates the reported value was determined by the Method of Standard Addition (MSA). |
| * | Indicates that the duplicate analysis is not within control limits. |
| + | Indicates the correlation coefficient for the MSA is less than 0.995. |
| **D** | Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range. |
| **M** | Method qualifiers<br>**"P"** for ICP instrument<br>**"PM"** for ICP when Microwave Digestion is used<br>**"CV"** for Manual Cold Vapor AA<br>**"AV"** for automated Cold Vapor AA<br>**"CA"** for MIDI-Distillation Spectrophotometric<br>**"AS"** for Semi –Automated Spectrophotometric<br>**"C"** for Manual Spectrophotometric<br>**"T"** for Titrimetric<br>**"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 |

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**APPENDIX A**

**QA REVIEW GENERAL DOCUMENTATION**

**Project #:** **Q2512**

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

**QA Review Signature:** **KETAN PATEL** **Date:** **07/10/2025**

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q2512 | **OrderDate:** | 7/3/2025 1:17:00 PM |
| **Client:** | VERINA CONSULTING GROUP, LLC | **Project:** | Rotor Clip NJ WTD - 2025 |
| **Contact:** | Michael Valenzi | **Location:** | O13 |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q2512-01** | **WATER-TREATMENT DISCHARGE** | **WATER** | | | **07/03/25 10:10** | | | **07/03/25** |
| | | | Ammonia | SM4500-NH3 | | 07/08/25 | 07/09/25 10:36 | |
| | | | Residual Chlorine | SM4500 Cl G | | | 07/03/25 15:21 | |
| **Q2512-01DL** | **WATER-TREATMENT DISCHARGEDL** | **WATER** | | | **07/03/25 10:10** | | | **07/03/25** |
| | | | Ammonia | SM4500-NH3 | | 07/08/25 | 07/09/25 11:04 | |


# SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | VERINA CONSULTING GROUP, LLC | Date Collected: | 07/03/25 10:10 |
| Project: | Rotor Clip NJ WTD - 2025 | Date Received: | 07/03/25 |
| Client Sample ID: | WATER-TREATMENT DISCHARGE | SDG No.: | Q2512 |
| Lab Sample ID: | Q2512-01 | Matrix: | WATER |
| | | % Solid: | 0 |

| Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 2.20 | OR | 1 | 0.030 | 0.10 | mg/L | 07/08/25 15:50 | 07/09/25 10:36 | SM 4500-NH3 B plus G-21 |
| Residual Chlorine | 0.023 | HU | 1 | 0.023 | 0.10 | mg/L | | 07/03/25 15:21 | SM 4500-Cl G-11 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | VERINA CONSULTING GROUP, LLC | Date Collected: | 07/03/25 10:10 |
| Project: | Rotor Clip NJ WTD - 2025 | Date Received: | 07/03/25 |
| Client Sample ID: | WATER-TREATMENT DISCHARGEDL | SDG No.: | Q2512 |
| Lab Sample ID: | Q2512-01DL | Matrix: | WATER |
| | | % Solid: | 0 |

| Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 2.40 | D | 2 | 0.060 | 0.20 | mg/L | 07/08/25 15:50 | 07/09/25 11:04 | SM 4500-NH3 B plus G-21 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

# QC RESULT SUMMARY

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# Initial and Continuing Calibration Verification

**Client:** VERINA CONSULTING GROUP, LLC **SDG No.:** Q2512

**Project:** Rotor Clip NJ WTD - 2025 **RunNo.:** LB136370

| Analyte | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|---|---|---|---|---|---|---|
| **Sample ID: ICV** | | | | | | |
| Residual Chlorine | mg/L | 0.419 | 0.4 | 105 | 90-110 | 07/03/2025 |
| **Sample ID: CCV1** | | | | | | |
| Residual Chlorine | mg/L | 0.378 | 0.4 | 94 | 90-110 | 07/03/2025 |
| **Sample ID: CCV2** | | | | | | |
| Residual Chlorine | mg/L | 0.388 | 0.4 | 97 | 90-110 | 07/03/2025 |

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# Initial and Continuing Calibration Verification

**Client:** VERINA CONSULTING GROUP, LLC **SDG No.:** Q2512

**Project:** Rotor Clip NJ WTD - 2025 **RunNo.:** LB136405

| Analyte | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|---|---|---|---|---|---|---|
| **Sample ID:** **ICV1** | | | | | | |
| Ammonia as N | mg/L | 0.99 | 1 | 99 | 90-110 | 07/09/2025 |
| **Sample ID:** **CCV1** | | | | | | |
| Ammonia as N | mg/L | 0.94 | 1 | 94 | 90-110 | 07/09/2025 |
| **Sample ID:** **CCV2** | | | | | | |
| Ammonia as N | mg/L | 0.96 | 1 | 96 | 90-110 | 07/09/2025 |
| **Sample ID:** **CCV3** | | | | | | |
| Ammonia as N | mg/L | 1 | 1 | 100 | 90-110 | 07/09/2025 |
| **Sample ID:** **CCV4** | | | | | | |
| Ammonia as N | mg/L | 0.96 | 1 | 96 | 90-110 | 07/09/2025 |
| **Sample ID:** **CCV5** | | | | | | |
| Ammonia as N | mg/L | 0.99 | 1 | 99 | 90-110 | 07/09/2025 |

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# Initial and Continuing Calibration Blank Summary

**Client:** VERINA CONSULTING GROUP, LLC **SDG No.:** Q2512

**Project:** Rotor Clip NJ WTD - 2025 **RunNo.:** LB136370

| Analyte | Units | Result | Acceptance Limits | Conc Qual | MDL | RDL | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Sample ID: ICB** | | | | | | | |
| Residual Chlorine | mg/L | < 0.0500 | 0.0500 | U | 0.023 | 0.1 | 07/03/2025 |
| **Sample ID: CCB1** | | | | | | | |
| Residual Chlorine | mg/L | < 0.0500 | 0.0500 | U | 0.023 | 0.1 | 07/03/2025 |
| **Sample ID: CCB2** | | | | | | | |
| Residual Chlorine | mg/L | < 0.0500 | 0.0500 | U | 0.023 | 0.1 | 07/03/2025 |

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# Initial and Continuing Calibration Blank Summary

**Client:** VERINA CONSULTING GROUP, LLC **SDG No.:** Q2512

**Project:** Rotor Clip NJ WTD - 2025 **RunNo.:** LB136405

| Analyte | Units | Result | Acceptance Limits | Conc Qual | MDL | RDL | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Sample ID: ICB1** | | | | | | | |
| Ammonia as N | mg/L | < 0.0500 | 0.0500 | U | 0.030 | 0.1 | 07/09/2025 |
| **Sample ID: CCB1** | | | | | | | |
| Ammonia as N | mg/L | < 0.0500 | 0.0500 | U | 0.030 | 0.1 | 07/09/2025 |
| **Sample ID: CCB2** | | | | | | | |
| Ammonia as N | mg/L | < 0.0500 | 0.0500 | U | 0.030 | 0.1 | 07/09/2025 |
| **Sample ID: CCB3** | | | | | | | |
| Ammonia as N | mg/L | < 0.0500 | 0.0500 | U | 0.030 | 0.1 | 07/09/2025 |
| **Sample ID: CCB4** | | | | | | | |
| Ammonia as N | mg/L | < 0.0500 | 0.0500 | U | 0.030 | 0.1 | 07/09/2025 |
| **Sample ID: CCB5** | | | | | | | |
| Ammonia as N | mg/L | < 0.0500 | 0.0500 | U | 0.030 | 0.1 | 07/09/2025 |

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# Preparation Blank Summary

**Client:** VERINA CONSULTING GROUP, LLC **SDG No.:** Q2512

**Project:** Rotor Clip NJ WTD - 2025

| Analyte | Units | Result | Acceptance Limits | Conc Qual | MDL | RDL | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Sample ID: LB136370BL** | | | | | | | |
| Residual Chlorine | mg/L | < 0.0500 | 0.0500 | U | 0.023 | 0.1 | 07/03/2025 |
| **Sample ID: PB168758BL** | | | | | | | |
| Ammonia as N | mg/L | < 0.0500 | 0.0500 | U | 0.03 | 0.1 | 07/09/2025 |

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# Matrix Spike Summary

**Client:** VERINA CONSULTING GROUP, LLC
**SDG No.:** Q2512
**Project:** Rotor Clip NJ WTD - 2025
**Sample ID:** Q2512-01
**Client ID:** WATER-TREATMENT DISCHARGEMS
**Percent Solids for Spike Sample:** 0

| Analyte | Units | Acceptance Limit %R | Spiked Result | Conc. Qualifier | Sample Result | Conc. Qualifier | Spike Added | Dilution Factor | % Rec | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Residual Chlorine | mg/L | 71-148 | 0.37 | | 0.023 | U | 0.4 | 1 | 92 | | 07/03/2025 |
| Ammonia as N | mg/L | 75-125 | 3.20 | OR | 2.20 | OR | 1 | 1 | 100 | | 07/09/2025 |

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# Matrix Spike Summary

**Client:** VERINA CONSULTING GROUP, LLC
**SDG No.:** Q2512
**Project:** Rotor Clip NJ WTD - 2025
**Sample ID:** Q2512-01
**Client ID:** WATER-TREATMENT DISCHARGEMSD
**Percent Solids for Spike Sample:** 0

| Analyte | Units | Acceptance Limit %R | Spiked Result | Conc. Qualifier | Sample Result | Conc. Qualifier | Spike Added | Dilution Factor | % Rec | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Residual Chlorine | mg/L | 71-148 | 0.38 | | 0.023 | U | 0.4 | 1 | 94 | | 07/03/2025 |
| Ammonia as N | mg/L | 75-125 | 3.10 | OR | 2.20 | OR | 1 | 1 | 90 | | 07/09/2025 |

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# Duplicate Sample Summary

**Client:** VERINA CONSULTING GROUP, LLC
**SDG No.:** Q2512
**Project:** Rotor Clip NJ WTD - 2025
**Sample ID:** Q2512-01
**Client ID:** WATER-TREATMENT DISCHARGEDUP
**Percent Solids for Spike Sample:** 0

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| Residual Chlorine | mg/L | +/-20 | 0.023 | U | 0.023 | U | 1 | 0 | | 07/03/2025 |
| Ammonia as N | mg/L | +/-20 | 2.20 | OR | 2.30 | OR | 1 | 4 | | 07/09/2025 |
| Ammonia as N | mg/L | +/-20 | 2.40 | D | 2.40 | D | 2 | 0 | | 07/09/2025 |

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# Duplicate Sample Summary

**Client:** VERINA CONSULTING GROUP, LLC
**SDG No.:** Q2512
**Project:** Rotor Clip NJ WTD - 2025
**Sample ID:** Q2512-01
**Client ID:** WATER-TREATMENT DISCHARGEMSD
**Percent Solids for Spike Sample:** 0

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| Residual Chlorine | mg/L | +/-20 | 0.37 | | 0.38 | | 1 | 2.68 | | 07/03/2025 |
| Ammonia as N | mg/L | +/-20 | 3.20 | OR | 3.10 | OR | 1 | 3 | | 07/09/2025 |

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# Laboratory Control Sample Summary

**Client:** VERINA CONSULTING GROUP, LLC **SDG No.:** Q2512

**Project:** Rotor Clip NJ WTD - 2025 **Run No.:** LB136370

| Analyte | Units | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| **Sample ID LB136370BS** | | | | | | | | |
| Residual Chlorine | mg/L | 0.4 | 0.41 | | 102 | 1 | 90-110 | 07/03/2025 |

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# Laboratory Control Sample Summary

**Client:** VERINA CONSULTING GROUP, LLC **SDG No.:** Q2512

**Project:** Rotor Clip NJ WTD - 2025 **Run No.:** LB136405

| Analyte | Units | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| **Sample ID** PB168758BS | | | | | | | | |
| Ammonia as N | mg/L | 1 | 0.99 | | 99 | 1 | 90-110 | 07/09/2025 |

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TECHNICAL GROUP

# RAW DATA

# Analytical Summary Report

Analysis Method: SM4500 Cl G
ANALYST: Iwona
Parameter: Residual Chlorine
SUPERVISOR REVIEW BY: jignesh
Run Number: LB136370

| Reagent/Standard | Lot/Log # |
|---|---|
| Residual chlorine ICV-LCS, 0.4PPM | WP113800 |
| Chlorine Calibration std, 0.1ppm | WP113795 |
| Chlorine Calibration std, 0.2ppm | WP113796 |
| Chlorine Calibration std, 0.8ppm | WP113798 |
| Chlorine Calibration std, 0.0ppm | WP113794 |
| Chlorine Calibration std, 1.6ppm | WP113799 |
| Residual Chlorine Calibration and CCV std, 0 | WP113797 |
| Total Chlorine Powder Pillows | W3147 |

**Intercept:** 0.0074 **Slope:** 0.9856 **Regression:** 0.999537

| Seq | Lab ID | True Val (mg/l) | DF | Initial Reading | Final Reading | Difference | Result (mg/l) | %D | AnalDate | Anal Time |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | CAL1 | 0 | 1 | 0.000 | 0.000 | 0.000 | -0.01 | | 07/03/2025 | 14:45 |
| 2 | CAL2 | 0.1 | 1 | 0.000 | 0.100 | 0.100 | 0.09 | -6 | 07/03/2025 | 14:48 |
| 3 | CAL3 | 0.2 | 1 | 0.000 | 0.210 | 0.210 | 0.21 | 3 | 07/03/2025 | 14:51 |
| 4 | CAL4 | 0.4 | 1 | 0.000 | 0.390 | 0.390 | 0.39 | -3 | 07/03/2025 | 14:54 |
| 5 | CAL5 | 0.8 | 1 | 0.000 | 0.830 | 0.830 | 0.84 | 4.4 | 07/03/2025 | 14:57 |
| 6 | CAL6 | 1.6 | 1 | 0.000 | 1.570 | 1.570 | 1.59 | -0.9 | 07/03/2025 | 15:00 |

# Analytical Summary Report

Analysis Method: SM4500 Cl G
ANALYST: Iwona
Parameter: Residual Chlorine
SUPERVISOR REVIEW BY: jignesh
Run Number: LB136370

| Seq | Lab ID | Initial Weight | Final Vol | True Value (mg/L) | DF | Initial Reading | Final Reading | Diff. | Result (mg/L) | Anal Date | Anal Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ICV | | | 0.4 | 1 | 0.0000 | 0.4200 | 0.4200 | 0.4190 | 07/03/2025 | 15:03 |
| 2 | ICB | | | | 1 | 0.0000 | 0.0010 | 0.0010 | -0.0060 | 07/03/2025 | 15:06 |
| 3 | CCV1 | | | 0.4 | 1 | 0.0000 | 0.3800 | 0.3800 | 0.3780 | 07/03/2025 | 15:09 |
| 4 | CCB1 | | | | 1 | 0.0000 | 0.0000 | 0.0000 | -0.0080 | 07/03/2025 | 15:12 |
| 5 | LB136370BL | 50 | 50 | | 1 | 0.0000 | 0.0000 | 0.0000 | -0.0080 | 07/03/2025 | 15:15 |
| 6 | LB136370BS | 50 | 50 | 0.4 | 1 | 0.0000 | 0.4100 | 0.4100 | 0.4080 | 07/03/2025 | 15:18 |
| 7 | Q2512-01 | 50 | 50 | | 1 | 0.0000 | 0.0200 | 0.0200 | 0.0130 | 07/03/2025 | 15:21 |
| 8 | Q2512-01DUP | 50 | 50 | | 1 | 0.0000 | 0.0200 | 0.0200 | 0.0130 | 07/03/2025 | 15:24 |
| 9 | Q2512-01MS | 50 | 50 | 0.4 | 1 | 0.0000 | 0.3700 | 0.3700 | 0.3680 | 07/03/2025 | 15:27 |
| 10 | Q2512-01MSD | 50 | 50 | 0.4 | 1 | 0.0000 | 0.3800 | 0.3800 | 0.3780 | 07/03/2025 | 15:30 |
| 11 | CCV2 | | | 0.4 | 1 | 0.0000 | 0.3900 | 0.3900 | 0.3880 | 07/03/2025 | 15:33 |
| 12 | CCB2 | | | | 1 | 0.0000 | 0.0010 | 0.0010 | -0.0060 | 07/03/2025 | 15:37 |

# WORKLIST(Hardcopy Internal Chain)

LB136370

**WorkList Name :** RESCHLORINE-070325 **WorkList ID :** 190549 **Department :** Wet-Chemistry **Date :** 07-03-2025 13:44:45

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q2512-01 | WATER-TREATMEN DISCHAR | Water | Residual Chlorine | Cool 4 deg C | VERI01 | O13 | 07/03/2025 | SM4500 Cl G |

**Date/Time** 07/03/25 14:25

**Raw Sample Received by:** [illegible]

**Raw Sample Relinquished by:** [illegible]



**Date/Time** 07/03/25 15:45

**Raw Sample Received by:** [illegible]

**Raw Sample Relinquished by:** [illegible]

LB136405

Test results | Aquakem 7.2AQ1 | Page: 1

Alliance Technical Group
284 Sheffield Street, Mountainside, NJ 07092

7/9/2025 11:06 | Reviewed by : RM | Instrument ID : Konelab

Test: Ammonia-N

| Sample Id | Result | Dil. 1 + | Response | Errors |
|---|---|---|---|---|
| ICV1 | 0.987 | 0.0 | 0.219 | |
| ICB1 | 0.025 | 0.0 | 0.022 | |
| CCV1 | 0.943 | 0.0 | 0.210 | |
| CCB1 | 0.019 | 0.0 | 0.021 | |
| RL CHECK | 0.099 | 0.0 | 0.037 | 99% (50-150) 07/09/2025 RM |
| PB168757BL | 0.013 | 0.0 | 0.019 | |
| PB168757BS | 0.983 | 0.0 | 0.218 | |
| Q2487-09 | 0.033 | 0.0 | 0.023 | |
| Q2487-09DUP | 0.035 | 0.0 | 0.024 | |
| Q2487-09MS | 0.989 | 0.0 | 0.220 | |
| Q2487-09MSD | 0.960 | 0.0 | 0.214 | |
| Q2487-10 | 0.188 | 0.0 | 0.055 | |
| Q2487-11 | 0.007 | 0.0 | 0.018 | |
| Q2487-12 | 0.706 | 0.0 | 0.161 | |
| CCV2 | 0.959 | 0.0 | 0.213 | |
| CCB2 | 0.010 | 0.0 | 0.019 | |
| Q2487-13 | 0.012 | 0.0 | 0.019 | |
| Q2487-14 | 0.148 | 0.0 | 0.047 | |
| Q2487-15 | 0.028 | 0.0 | 0.023 | |
| Q2487-16 | 0.050 | 0.0 | 0.027 | |
| PB168758BL | 0.012 | 0.0 | 0.019 | |
| PB168758BS | 0.987 | 0.0 | 0.219 | |
| Q2512-01 | 2.201 | 0.0 | 0.468 | Test limit high |
| Q2512-01DUP | 2.337 | 0.0 | 0.496 | Test limit high |
| Q2512-01MS | 3.225 | 0.0 | 0.678 | Test limit high |
| Q2512-01MSD | 3.117 | 0.0 | 0.656 | Test limit high |
| CCV3 | 1.000 | 0.0 | 0.222 | |
| CCB3 | 0.013 | 0.0 | 0.019 | |
| Q2525-01 | 0.855 | 0.0 | 0.192 | |
| CCV4 | 0.957 | 0.0 | 0.213 | |
| CCB4 | 0.016 | 0.0 | 0.020 | |
| Q2512-01DLX2 | 1.194 | 0.0 | 0.262 | |
| Q2512-01DUPDLX2 | 1.198 | 0.0 | 0.262 | |
| CCV5 | 0.995 | 0.0 | 0.221 | |
| CCB5 | 0.011 | 0.0 | 0.019 | |

| | |
|---|---|
| N | 35 |
| Mean | 0.723 |
| SD | 0.8713 |
| CV% | 120.48 |

Aquakem v. 7.2AQ1
Results from time period:
Wed Jul 09 08:36:02 2025
Wed Jul 09 11:04:20 2025

| Sample Id | Sam/Ct | Test short name | Test t | Result | Result unit | Result date and time | Stat |
|---|---|---|---|---|---|---|---|
| 0.0PPM | A | Ammonia-N | P | 0.019 | mg/l | 7/9/2025 9:20:57 | |
| 0.1PPM | A | Ammonia-N | P | 0.1126 | mg/l | 7/9/2025 9:20:58 | |
| 0.2PPM | A | Ammonia-N | P | 0.1993 | mg/l | 7/9/2025 9:20:59 | |
| 0.4PPM | A | Ammonia-N | P | 0.3945 | mg/l | 7/9/2025 9:21:00 | |
| 1.0PPM | A | Ammonia-N | P | 0.942 | mg/l | 7/9/2025 9:21:01 | |
| 1.3PPM | A | Ammonia-N | P | 1.3424 | mg/l | 7/9/2025 9:21:02 | |
| 2.0PPM | A | Ammonia-N | P | 2.0235 | mg/l | 7/9/2025 9:21:03 | |
| ICV1 | S | Ammonia-N | P | 0.9872 | mg/l | 7/9/2025 10:03:49 | |
| ICB1 | S | Ammonia-N | P | 0.0251 | mg/l | 7/9/2025 10:03:52 | |
| CCV1 | S | Ammonia-N | P | 0.9429 | mg/l | 7/9/2025 10:03:53 | |
| CCB1 | S | Ammonia-N | P | 0.0185 | mg/l | 7/9/2025 10:03:56 | |
| RL CHECK | S | Ammonia-N | P | 0.0986 | mg/l | 7/9/2025 10:03:58 | |
| PB168757BL | S | Ammonia-N | P | 0.0125 | mg/l | 7/9/2025 10:14:34 | |
| PB168757BS | S | Ammonia-N | P | 0.9825 | mg/l | 7/9/2025 10:14:35 | |
| Q2487-09 | S | Ammonia-N | P | 0.033 | mg/l | 7/9/2025 10:14:37 | |
| Q2487-09DUP | S | Ammonia-N | P | 0.0355 | mg/l | 7/9/2025 10:14:38 | |
| Q2487-09MS | S | Ammonia-N | P | 0.9893 | mg/l | 7/9/2025 10:14:39 | |
| Q2487-09MSD | S | Ammonia-N | P | 0.9599 | mg/l | 7/9/2025 10:14:40 | |
| Q2487-10 | S | Ammonia-N | P | 0.1884 | mg/l | 7/9/2025 10:14:43 | |
| Q2487-11 | S | Ammonia-N | P | 0.0069 | mg/l | 7/9/2025 10:14:44 | |
| Q2487-12 | S | Ammonia-N | P | 0.7058 | mg/l | 7/9/2025 10:25:17 | |
| CCV2 | S | Ammonia-N | P | 0.9595 | mg/l | 7/9/2025 10:25:20 | |
| CCB2 | S | Ammonia-N | P | 0.0096 | mg/l | 7/9/2025 10:25:23 | |
| Q2487-13 | S | Ammonia-N | P | 0.0117 | mg/l | 7/9/2025 10:25:24 | |
| Q2487-14 | S | Ammonia-N | P | 0.148 | mg/l | 7/9/2025 10:25:25 | |
| Q2487-15 | S | Ammonia-N | P | 0.0284 | mg/l | 7/9/2025 10:25:26 | |
| Q2487-16 | S | Ammonia-N | P | 0.0501 | mg/l | 7/9/2025 10:25:27 | |
| PB168758BL | S | Ammonia-N | P | 0.0123 | mg/l | 7/9/2025 10:25:28 | |
| PB168758BS | S | Ammonia-N | P | 0.987 | mg/l | 7/9/2025 10:36:01 | |
| Q2512-01 | S | Ammonia-N | P | 2.2009 | mg/l | 7/9/2025 10:36:02 | |
| Q2512-01DUP | S | Ammonia-N | P | 2.3374 | mg/l | 7/9/2025 10:36:03 | |
| Q2512-01MS | S | Ammonia-N | P | 3.2246 | mg/l | 7/9/2025 10:36:04 | |
| Q2512-01MSD | S | Ammonia-N | P | 3.1169 | mg/l | 7/9/2025 10:36:05 | |
| CCV3 | S | Ammonia-N | P | 0.9999 | mg/l | 7/9/2025 10:36:09 | |
| CCB3 | S | Ammonia-N | P | 0.0127 | mg/l | 7/9/2025 10:36:10 | |
| Q2525-01 | S | Ammonia-N | P | 0.8555 | mg/l | 7/9/2025 10:43:14 | |
| CCV4 | S | Ammonia-N | P | 0.9574 | mg/l | 7/9/2025 10:43:15 | |
| CCB4 | S | Ammonia-N | P | 0.0159 | mg/l | 7/9/2025 10:43:17 | |
| Q2512-01DLX2 | S | Ammonia-N | P | 1.1943 | mg/l | 7/9/2025 11:04:14 | |
| Q2512-01DUPDLX | S | Ammonia-N | P | 1.1982 | mg/l | 7/9/2025 11:04:16 | |
| CCV5 | S | Ammonia-N | P | 0.9947 | mg/l | 7/9/2025 11:04:18 | |
| CCB5 | S | Ammonia-N | P | 0.011 | mg/l | 7/9/2025 11:04:20 | |

Calibration results  Aquakem 7.2AQ1  

Alliance Technical Group
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM  Instrument ID : Konelab

7/9/2025 9:25

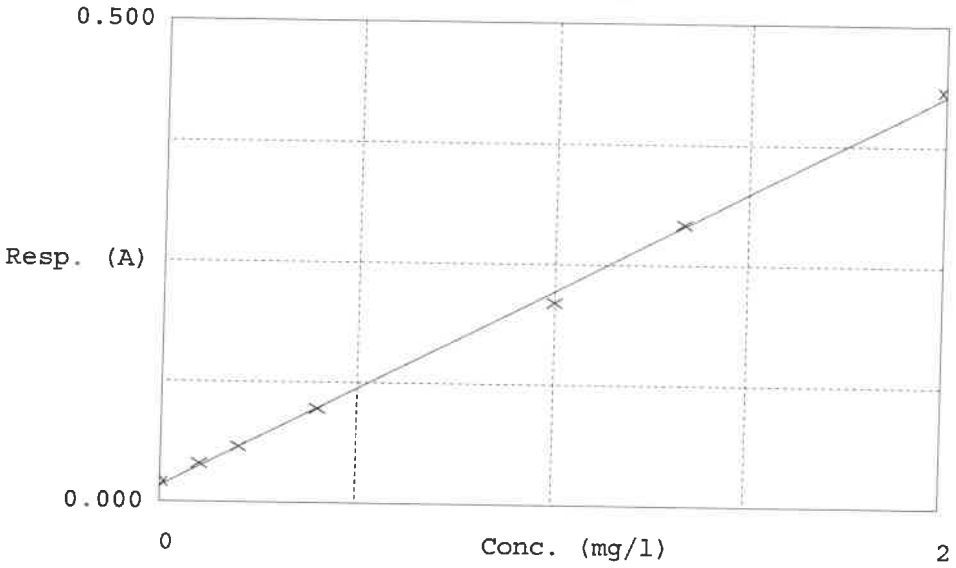
Test Ammonia-N

Accepted 7/9/2025 9:25

Factor 4.877
Bias 0.017

Coeff. of det. 0.998651

Errors




| | Calibrator | Response | Calc. con. | Conc. | Errors |
|---|---|---|---|---|---|
| 1 | 0.00PPM | 0.021 | 0.0190 | 0.0000 | |
| 2 | NH3-2PPM | 0.040 | 0.1126 | 0.1000 | 12.6 |
| 3 | NH3-2PPM | 0.058 | 0.1993 | 0.2000 | -0.4 |
| 4 | NH3-2PPM | 0.098 | 0.3945 | 0.4000 | -1.4 |
| 5 | NH3-2PPM | 0.210 | 0.9420 | 1.0000 | -5.8 |
| 6 | NH3-2PPM | 0.292 | 1.3424 | 1.3333 | 3.3 |
| 7 | NH3-2PPM | 0.432 | 2.0235 | 2.0000 | 1.2 |

07/09/2025
RM

Alliance TECHNICAL GROUP

# Water Ammonia Preparation Sheet

PB168758

**SOP ID :** MSM4500-NH3 B,G-Ammonia-18

**SDG No :** N/A

**Matrix :** WATER

**Pippete ID :** WC

**Balance ID :** N/A

**Hood ID :** HOOD#2

**Block ID :** WC-DIST-BLOCK-1

**Weigh By :** RM

**Start Digest Date:** 07/08/2025 **Time :** 15:50 **Temp :** 150 °C

**End Digest Date:** 07/08/2025 **Time :** 16:50 **Temp :** 158 °C

**Digestion tube ID :** M5595

**Filter paper ID :** N/A

**pH Meter ID :** N/A

**Block Thermometer ID :** WC CYANIDE

**Prep Technician Signature:** RM

**Supervisor Signature:** 12

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| LCSW | 1.0ML | WP113449 |
| MS/MSD SPIKE SOL. | 1.0ML | WP113450 |
| PBW | 50.0ML | W3112 |
| RL CHECK | N/A | AS PER PB168757 |
| N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| BORATE BUFFER | 2.5ML | WP111325 |
| NAOH 6N | 0.5-2.0ML | WP111318 |
| H2SO4 0.04N | 5.0ML | WP112828 |
| pH strip-Ammonia | N/A | W3133 |
| KI-starch paper | N/A | W3155 |
| 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:**

ALL GLASSWEAR ARE STEAMED OUT AND THERE WERE NO TRACE OF AMMONIA USING NESLER REAGENT WP111604.Due to bad matrix and client history 1ML was taken as an initial volume for Q2525-01

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 07/08/2025 17:00 | RM (WC) | RM (WC) |
| | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

**Water Ammonia Preparation Sheet**

# PB168758

| Lab Sample ID | Client Sample ID | Initial Vol (ml) | Final Vol (ml) | pH | Sulfide | Oxidizing | Nitrate/ Nitrite | Comment | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|
| PB168758BL | PBW758 | 50 | 50 | <2 | N/A | Negative | N/A | AFTER ADDING 6N NAOH PH IS 9.5 | N/A |
| PB168758BS | LCS758 | 50 | 50 | <2 | N/A | Negative | N/A | AFTER ADDING 6N NAOH PH IS 9.5 | N/A |
| Q2512-01 | WATER-TREATMENT DISCHARGE | 50 | 50 | <2 | N/A | Negative | N/A | AFTER ADDING 6N NAOH PH IS 9.5 | N/A |
| Q2512-01DUP | WATER-TREATMENT DISCHARGEDUP | 50 | 50 | <2 | N/A | Negative | N/A | AFTER ADDING 6N NAOH PH IS 9.5 | N/A |
| Q2512-01MS | WATER-TREATMENT DISCHARGEMS | 50 | 50 | <2 | N/A | Negative | N/A | AFTER ADDING 6N NAOH PH IS 9.5 | N/A |
| Q2512-01MSD | WATER-TREATMENT DISCHARGEMSD | 50 | 50 | <2 | N/A | Negative | N/A | AFTER ADDING 6N NAOH PH IS 9.5 | N/A |
| Q2525-01 | EFFLUENT-COMPOSITE | 1 | 50 | <2 | N/A | Negative | N/A | AFTER ADDING 6N NAOH PH IS 9.5 | N/A |

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** ammonia-water-7-7 **WorkList ID :** 190561 **Department :** Distillation **Date :** 07-07-2025 08:22:28

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q2512-01 | WATER-TREATMEN DISCHAR | Water | Ammonia | Conc H2SO4 to pH < 2 | VERI01 | O13 | 07/03/2025 | SM4500-NH3 |
| Q2525-01 | EFFLUENT-COMPOSITE | Water | Ammonia | Conc H2SO4 to pH < 2 | M&MM01 | O33 | 07/08/2025 | SM4500-NH3 |

**Date/Time** 07/08/2025 15.25
**Raw Sample Received by:** RM (WC)
**Raw Sample Relinquished by:** [illegible] (COC)



**Date/Time** 07/08/2025 16.10
**Raw Sample Received by:** [illegible] (COC)
**Raw Sample Relinquished by:** RM (WC)

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Fax : 908 789 8922

**Instrument ID:** SPECTROPHOTOMETER-1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136370

| | | | |
|---|---|---|---|
| Review By | Iwona | Review On | 7/3/2025 3:54:57 PM |
| Supervise By | jignesh | Supervise On | 7/3/2025 3:56:09 PM |
| SubDirectory | LB136370 | Test | Residual Chlorine |

| 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 | WP113800,WP113795,WP113796,WP113798,WP113794,WP113799,WP113797,W3147 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | CAL1 | CAL1 | CAL | 07/03/25 14:45 | | Iwona | OK |
| 2 | CAL2 | CAL2 | CAL | 07/03/25 14:48 | | Iwona | OK |
| 3 | CAL3 | CAL3 | CAL | 07/03/25 14:51 | | Iwona | OK |
| 4 | CAL4 | CAL4 | CAL | 07/03/25 14:54 | | Iwona | OK |
| 5 | CAL5 | CAL5 | CAL | 07/03/25 14:57 | | Iwona | OK |
| 6 | CAL6 | CAL6 | CAL | 07/03/25 15:00 | | Iwona | OK |
| 7 | ICV | ICV | ICV | 07/03/25 15:03 | | Iwona | OK |
| 8 | ICB | ICB | ICB | 07/03/25 15:06 | | Iwona | OK |
| 9 | CCV1 | CCV1 | CCV | 07/03/25 15:09 | | Iwona | OK |
| 10 | CCB1 | CCB1 | CCB | 07/03/25 15:12 | | Iwona | OK |
| 11 | LB136370BL | LB136370BL | MB | 07/03/25 15:15 | | Iwona | OK |
| 12 | LB136370BS | LB136370BS | LCS | 07/03/25 15:18 | | Iwona | OK |
| 13 | Q2512-01 | WATER TREATMENT | SAM | 07/03/25 15:21 | | Iwona | OK |
| 14 | Q2512-01DUP | WATER TREATMENT | DUP | 07/03/25 15:24 | | Iwona | OK |
| 15 | Q2512-01MS | WATER TREATMENT | MS | 07/03/25 15:27 | | Iwona | OK |
| 16 | Q2512-01MSD | WATER TREATMENT | MSD | 07/03/25 15:30 | | Iwona | OK |
| 17 | CCV2 | CCV2 | CCV | 07/03/25 15:33 | | Iwona | OK |
| 18 | CCB2 | CCB2 | CCB | 07/03/25 15:37 | | Iwona | OK |

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**Instrument ID:** KONELAB

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136405

| | | | |
|---|---|---|---|
| Review By | rubina | Review On | 7/10/2025 12:27:55 PM |
| Supervise By | Iwona | Supervise On | 7/10/2025 12:57:25 PM |
| SubDirectory | LB136405 | Test | Ammonia |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | WP113849 |
| ICV Standard | WP113850 |
| CCV Standard | WP113850 |
| ICSA Standard | N/A |
| CRI Standard | N/A |
| LCS Standard | WP113449 |
| Chk Standard | WP113852,WP111745,WP111385,WP111660 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | 0.0PPM | 0.0PPM | CAL1 | 07/09/25 09:20 | | rubina | OK |
| 2 | 0.1PPM | 0.1PPM | CAL2 | 07/09/25 09:20 | | rubina | OK |
| 3 | 0.2PPM | 0.2PPM | CAL3 | 07/09/25 09:20 | | rubina | OK |
| 4 | 0.4PPM | 0.4PPM | CAL4 | 07/09/25 09:21 | | rubina | OK |
| 5 | 1.0PPM | 1.0PPM | CAL5 | 07/09/25 09:21 | | rubina | OK |
| 6 | 1.3PPM | 1.3PPM | CAL6 | 07/09/25 09:21 | | rubina | OK |
| 7 | 2.0PPM | 2.0PPM | CAL7 | 07/09/25 09:21 | | rubina | OK |
| 8 | ICV1 | ICV1 | ICV | 07/09/25 10:03 | | rubina | OK |
| 9 | ICB1 | ICB1 | ICB | 07/09/25 10:03 | | rubina | OK |
| 10 | CCV1 | CCV1 | CCV | 07/09/25 10:03 | | rubina | OK |
| 11 | CCB1 | CCB1 | CCB | 07/09/25 10:03 | | rubina | OK |
| 12 | RL | RL | SAM | 07/09/25 10:03 | | rubina | OK |
| 13 | PB168757BL | PB168757BL | MB | 07/09/25 10:14 | | rubina | OK |
| 14 | PB168757BS | PB168757BS | LCS | 07/09/25 10:14 | | rubina | OK |
| 15 | Q2487-09 | G4(0-6) | SAM | 07/09/25 10:14 | | rubina | OK |
| 16 | Q2487-09DUP | G4(0-6)DUP | DUP | 07/09/25 10:14 | | rubina | OK |
| 17 | Q2487-09MS | G4(0-6)MS | MS | 07/09/25 10:14 | | rubina | OK |
| 18 | Q2487-09MSD | G4(0-6)MSD | MSD | 07/09/25 10:14 | | rubina | OK |

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**Instrument ID:** KONELAB

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136405

| | | | |
|---|---|---|---|
| Review By | rubina | Review On | 7/10/2025 12:27:55 PM |
| Supervise By | Iwona | Supervise On | 7/10/2025 12:57:25 PM |
| SubDirectory | LB136405 | Test | Ammonia |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | WP113849 |
| ICV Standard | WP113850 |
| CCV Standard | WP113850 |
| ICSA Standard | N/A |
| CRI Standard | N/A |
| LCS Standard | WP113449 |
| Chk Standard | WP113852,WP111745,WP111385,WP111660 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q2487-10 | G4(6-12) | SAM | 07/09/25 10:14 | | rubina | OK |
| 20 | Q2487-11 | G3(0-6) | SAM | 07/09/25 10:14 | | rubina | OK |
| 21 | Q2487-12 | G3(6-12) | SAM | 07/09/25 10:25 | | rubina | OK |
| 22 | CCV2 | CCV2 | CCV | 07/09/25 10:25 | | rubina | OK |
| 23 | CCB2 | CCB2 | CCB | 07/09/25 10:25 | | rubina | OK |
| 24 | Q2487-13 | G2(0-6) | SAM | 07/09/25 10:25 | | rubina | OK |
| 25 | Q2487-14 | G2(6-12) | SAM | 07/09/25 10:25 | | rubina | OK |
| 26 | Q2487-15 | G1(0-6) | SAM | 07/09/25 10:25 | | rubina | OK |
| 27 | Q2487-16 | G1(6-12) | SAM | 07/09/25 10:25 | | rubina | OK |
| 28 | PB168758BL | PB168758BL | MB | 07/09/25 10:25 | | rubina | OK |
| 29 | PB168758BS | PB168758BS | LCS | 07/09/25 10:36 | | rubina | OK |
| 30 | Q2512-01 | WATER TREATMENT | SAM | 07/09/25 10:36 | High | rubina | Dilution |
| 31 | Q2512-01DUP | WATER TREATMENT | DUP | 07/09/25 10:36 | High | rubina | Dilution |
| 32 | Q2512-01MS | WATER TREATMENT | MS | 07/09/25 10:36 | | rubina | OK |
| 33 | Q2512-01MSD | WATER TREATMENT | MSD | 07/09/25 10:36 | | rubina | OK |
| 34 | CCV3 | CCV3 | CCV | 07/09/25 10:36 | | rubina | OK |
| 35 | CCB3 | CCB3 | CCB | 07/09/25 10:36 | | rubina | OK |
| 36 | Q2525-01 | EFFLUENT-COMPOS | SAM | 07/09/25 10:43 | | rubina | OK |
| 37 | CCV4 | CCV4 | CCV | 07/09/25 10:43 | | rubina | OK |
| 38 | CCB4 | CCB4 | CCB | 07/09/25 10:43 | | rubina | OK |

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**Instrument ID:** KONELAB

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136405

| | | | |
|---|---|---|---|
| Review By | rubina | Review On | 7/10/2025 12:27:55 PM |
| Supervise By | Iwona | Supervise On | 7/10/2025 12:57:25 PM |
| SubDirectory | LB136405 | Test | Ammonia |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | WP113849 |
| ICV Standard | WP113850 |
| CCV Standard | WP113850 |
| ICSA Standard | N/A |
| CRI Standard | N/A |
| LCS Standard | WP113449 |
| Chk Standard | WP113852,WP111745,WP111385,WP111660 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 39 | Q2512-01DL | WATER TREATMENT | SAM | 07/09/25 11:04 | Report 2X | rubina | Confirms |
| 40 | Q2512-01DUPDL | WATER TREATMENT | DUP | 07/09/25 11:04 | Report 2X | rubina | Confirms |
| 41 | CCV5 | CCV5 | CCV | 07/09/25 11:04 | | rubina | OK |
| 42 | CCB5 | CCB5 | CCB | 07/09/25 11:04 | | rubina | OK |

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# Prep Standard - Chemical Standard Summary

**Order ID :** Q2512

**Test :** Ammonia,Residual Chlorine

**Prepbatch ID :** PB168758,

**Sequence ID/Qc Batch ID:** LB136370,LB136405,

**Standard ID :**
WP111317,WP111318,WP111325,WP111385,WP111660,WP111745,WP112611,WP112612,WP112828,WP113449,WP113450,WP113792,WP113793,WP113794,WP113795,WP113796,WP113797,WP113798,WP113799,WP113800,WP113849,WP113850,WP113852,

**Chemical ID :**
AS PER PB168757,M6041,W2666,W2700,W2858,W3112,W3113,W3130,W3131,W3132,W3133,W3147,W3155,W3174,W3195,W3196,

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Fax : 908 789 8922

# Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1796 | NaOH, 0.1N | WP111317 | 01/09/2025 | 07/09/2025 | Rubina Mughal | WETCHEM_SCALE_7 (WCSC-6) | None | Iwona Zarych 01/09/2025 |

**FROM** 4.00000gram of W3113 + 996.00000ml of W3112 = Final Quantity: 1000.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1471 | NaOH Solution, 6N | WP111318 | 01/09/2025 | 07/09/2025 | Rubina Mughal | WETCHEM_SCALE_7 (WCSC-6) | None | Iwona Zarych 01/09/2025 |

**FROM** 240.00000gram of W3113 + 760.00000ml of W3112 = Final Quantity: 1000.000 ml

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

# Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1494 | BORATE BUFFER | WP111325 | 01/09/2025 | 07/09/2025 | Rubina Mughal | WETCHEM_SCALE_5 (WCSC-5) | None | Iwona Zarych 01/09/2025 |

**FROM** 100.00000L of W3112 + 9.50000gram of W2700 + 88.00000ml of WP111317 = Final Quantity: 100.000 L

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 290 | Phenol reagent for Ammonia | WP111385 | 01/13/2025 | 07/13/2025 | Rubina Mughal | WETCHEM_SCALE_8 (WCSC-7) | None | Iwona Zarych 01/13/2025 |

**FROM** 3.20000gram of W3113 + 8.30000gram of W2858 + 88.80000ml of W3112 = Final Quantity: 100.000 ml

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Fax : 908 789 8922

# Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 635 | EDTA BUFFER FOR AMMONIA | WP111660 | 01/28/2025 | 07/28/2025 | Rubina Mughal | WETCHEM_SCALE_8 (WCSC-7) | None | Iwona Zarych 01/28/2025 |

**FROM** 5.50000gram of W3113 + 50.00000gram of W3132 + 950.00000ml of W3112 = Final Quantity: 1000.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 289 | Sodium Hypochlorite for Ammonia | WP111745 | 02/03/2025 | 07/31/2025 | Rubina Mughal | None | None | Iwona Zarych 02/03/2025 |

**FROM** 50.00000ml of W3112 + 50.00000ml of W3174 = Final Quantity: 100.000 ml

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Fax : 908 789 8922

# Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 153 | Ammonia Stock Std. (1000 ppm) | WP112611 | 04/07/2025 | 10/07/2025 | Rubina Mughal | WETCHEM_SCALE_8 (WCSC-7) | None | Iwona Zarych 04/07/2025 |

**FROM** 3.81900gram of W3196 + 996.18100ml of W3112 = Final Quantity: 1000.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1895 | Ammonia Stock Std, 1000PPM-SS | WP112612 | 04/07/2025 | 10/07/2025 | Rubina Mughal | WETCHEM_SCALE_8 (WCSC-7) | None | Iwona Zarych 04/07/2025 |

**FROM** 3.81900gram of W3195 + 996.18100ml of W3112 = Final Quantity: 1000.000 ml

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Fax : 908 789 8922

# Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1597 | 0.04 N H2SO4 | WP112828 | 04/25/2025 | 10/25/2025 | Rubina Mughal | None | WETCHEM_PIPETTE_3 (WC) | Iwona Zarych 04/25/2025 |

**FROM** 1.00000ml of M6041 + 999.00000ml of W3112 = Final Quantity: 1000.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1639 | Ammonia Intermediate Std-Second source, 50PPM | WP113449 | 06/09/2025 | 07/09/2025 | Rubina Mughal | None | WETCHEM_PIPETTE_3 (WC) | Iwona Zarych 06/10/2025 |

**FROM** 95.00000ml of W3112 + 5.00000ml of WP112612 = Final Quantity: 100.000 ml

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Fax : 908 789 8922

# Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1322 | Ammonia Intermediate Std, 50PPM | WP113450 | 06/09/2025 | 07/09/2025 | Rubina Mughal | None | WETCHEM_PIPETTE_3 (WC) | Iwona Zarych 06/10/2025 |

**FROM** 95.00000ml of W3112 + 5.00000ml of WP112611 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3443 | Residual chlorine std, Intermediate 10PPM | WP113792 | 07/03/2025 | 07/04/2025 | Iwona Zarych | None | Glass Pipette-A | Jignesh Parikh 07/09/2025 |

**FROM** 42.75000ml of W3112 + 7.25000ml of W3130 = Final Quantity: 50.000 ml

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# Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3444 | Residual chlorine std, Intermediate-SS 10PPM | WP113793 | 07/03/2025 | 02/28/2026 | Iwona Zarych | None | Glass Pipette-A | Jignesh Parikh 07/09/2025 |

**FROM** 42.50000ml of W3112 + 7.50000ml of W3131 = Final Quantity: 50.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3710 | Chlorine Calibration std, 0.0ppm | WP113794 | 07/03/2025 | 07/04/2025 | Iwona Zarych | None | None | Jignesh Parikh 07/09/2025 |

**FROM** 50.00000ml of W3112 = Final Quantity: 50.000 ml

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# Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3707 | Chlorine Calibration std, 0.1ppm | WP113795 | 07/03/2025 | 07/04/2025 | Iwona Zarych | None | WETCHEM_PIPETTE_3 (WC) | Jignesh Parikh 07/09/2025 |

**FROM** 49.50000ml of W3112 + 0.50000ml of WP113792 = Final Quantity: 50.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3708 | Chlorine Calibration std, 0.2ppm | WP113796 | 07/03/2025 | 07/04/2025 | Iwona Zarych | None | WETCHEM_PIPETTE_3 (WC) | Jignesh Parikh 07/09/2025 |

**FROM** 49.00000ml of W3112 + 1.00000ml of WP113792 = Final Quantity: 50.000 ml

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

# Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3799 | Residual Chlorine Calibration and CCV std, 0.4PPM | WP113797 | 07/03/2025 | 07/04/2025 | Iwona Zarych | None | WETCHEM_PIPETTE_3 (WC) | Jignesh Parikh 07/09/2025 |

**FROM** 96.00000ml of W3112 + 4.00000ml of WP113792 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3709 | Chlorine Calibration std, 0.8ppm | WP113798 | 07/03/2025 | 07/04/2025 | Iwona Zarych | None | WETCHEM_PIPETTE_3 (WC) | Jignesh Parikh 07/09/2025 |

**FROM** 46.00000ml of W3112 + 4.00000ml of WP113792 = Final Quantity: 50.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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# Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3711 | Chlorine Calibration std, 1.6ppm | WP113799 | 07/03/2025 | 07/04/2025 | Iwona Zarych | None | Glass Pipette-A | Jignesh Parikh 07/09/2025 |

**FROM** 42.00000ml of W3112 + 8.00000ml of WP113792 = Final Quantity: 50.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3452 | Residual chlorine ICV-LCS, 0.4PPM | WP113800 | 07/03/2025 | 07/04/2025 | Iwona Zarych | None | WETCHEM_PIPETTE_3 (WC) | Jignesh Parikh 07/09/2025 |

**FROM** 48.00000ml of W3112 + 2.00000ml of WP113793 = Final Quantity: 50.000 ml

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# Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 275 | Ammonia Calibration Std. (2 ppm) | WP113849 | 07/09/2025 | 07/09/2025 | Rubina Mughal | None | WETCHEM_PIPETTE_3 (WC) | Iwona Zarych 07/09/2025 |

**FROM** 48.00000ml of W3112 + 2.00000ml of WP113450 = Final Quantity: 50.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 285 | Ammonia CCV Std. (1 ppm) | WP113850 | 07/09/2025 | 07/09/2025 | Rubina Mughal | None | WETCHEM_PIPETTE_3 (WC) | Iwona Zarych 07/09/2025 |

**FROM** 49.00000ml of W3112 + 1.00000ml of WP113450 = Final Quantity: 50.000 ml

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# Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 740 | sodium nitroferricyanide for ammonia | WP113852 | 07/09/2025 | 08/09/2025 | Rubina Mughal | WETCHEM_SCALE_5 (WCSC-5) | None | Iwona Zarych 07/09/2025 |

**FROM** 0.05000gram of W2666 + 99.95000ml of W3112 = Final Quantity: 100.000 ml

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L) | 23D2462010 | 03/20/2028 | 08/16/2024 / mohan | 08/16/2024 / mohan | M6041 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| PCI Scientific Supply, Inc. | 87683 / Sodium Nitroferricyanide 250g | W12F013 | 02/10/2030 | 02/10/2020 / apatel | 02/10/2020 / apatel | W2666 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| PCI Scientific Supply, Inc. | J3568-1 / Sodium Borate, 500 gms | 2019111354 | 04/23/2025 | 04/23/2020 / apatel | 03/11/2020 / apatel | W2700 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| PCI Scientific Supply, Inc. | P1060-10 / PHENOL, ACS, 500G | M13H048 | 01/07/2026 | 07/07/2021 / apatel | 07/07/2021 / apatel | W2858 |

| 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 / Iwona | 07/03/2024 / Iwona | 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 / Iwona | 07/08/2024 / Iwona | W3113 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| HACH | 14268-10 / Chlorine Std, Pk of 16 | A4144 | 01/31/2026 | 07/25/2024 / Iwona | 07/25/2024 / Iwona | W3130 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| HACH | 14268-10 / Chlorine Std, Pk of 16 | A4166 | 02/28/2026 | 07/25/2024 / Iwona | 07/25/2024 / Iwona | W3131 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| PCI Scientific Supply, Inc. | PC05050-1 / EDTA, disodium salt, dihydrate 1 lb | 2ND0156 | 07/10/2026 | 07/26/2024 / Iwona | 07/26/2024 / Iwona | W3132 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| PCI Scientific Supply, Inc. | 140476 / Test Paper,PH Short Range 9.0/10.0 | L23 | 08/22/2029 | 08/22/2024 / Iwona | 08/22/2024 / Iwona | W3133 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| HACH | 14064-99 / Total Chlorine Powder Pillows | A4230 | 08/31/2029 | 10/01/2024 / Iwona | 10/01/2024 / Iwona | W3147 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| PCI Scientific Supply, Inc. | 140730 / TEST PAPER,POT.IOD-STRCH,PK100,CS12 | 14-860 | 12/02/2029 | 12/02/2024 / Iwona | 12/02/2024 / Iwona | W3155 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| PCI Scientific Supply, Inc. | J9416-1 / Sodium Hypochlorite 500 ml | 2501J28 | 07/31/2025 | 01/24/2025 / Iwona | 01/24/2025 / Iwona | W3174 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| PCI Scientific Supply, Inc. | J0660-1 / AMMONIUM CHLORIDE, ACS, 500G | 24L0356561 | 08/31/2027 | 03/19/2025 / Iwona | 03/19/2025 / Iwona | W3195 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| PCI Scientific Supply, Inc. | J0660-1 / AMMONIUM CHLORIDE, ACS, 500G | MKCV1009 | 09/30/2026 | 03/19/2025 / Iwona | 03/19/2025 / Iwona | W3196 |

ThermoFisher SCIENTIFIC

# Certificate of Analysis

W2858 Received by AP on 07/07/2021

Product No.: 33213

Product: Phenol, ACS, 99+%, stab.

Lot No.: M13H048

| Test | Limits | Results |
|---|---|---|
| Assay | 99.0 % min | 99.8 % |
| Freezing point | 40.5ºC min | 40.5 ºC |
| Clarity of solution | To pass test | Passes |
| Residue after evaporation | 0.05 % max | < 0.05 % |
| Water | 0.5 % max | 0.2 % |

Retest date: January 7, 2026

ThermoFisher SCIENTIFIC

# Certificate of Analysis

W2666 Recived on 02/10/2020 by AP

Product No.: 87683

Product: Sodium pentacyanonitrosylferrate(III) dihydrate, ACS, 99.0-102.0%

Lot No.: W12F013

| Test | Limits | Results |
|---|---|---|
| Assay | 99.0 - 102.0 % | 99.67 % |
| Insoluble | 0.01 % max | 0.0079 % |
| Chloride | 0.02 % max | Not detected |
| Sulfate | To pass test | Passes test |
| Aqueous solubility | To pass test | Passes test |
| Limit on Ferricyanide | To pass test | Passes test |
| Limit on Ferrocyanide | To pass test | Passes test |

# Certificate Of Analysis

Date of Release: 11/14/2019

W2700 Recived by AP on 3/11/2020

Name: **Sodium Borate, Decahydrate**
ACS

Item No: **SX0355 All Sizes**
Lot / Batch No: **2019111354**
Country of Origin: **India**

| Item | Specifications | Analysis |
|---|---|---|
| Assay (Na2B4O7 • 10H2O) | 99.5 - 105.0% | 101.7% |
| Calcium (Ca) | 0.005% max. | 0.003% |
| Chloride (Cl) | 0.001% max. | <0.001% |
| Color | White | Passes Test |
| Form | Crystals | Passes Test |
| Heavy Metals (as Pb) | 0.001% max. | <0.001% |
| Insoluble Matter | 0.005% max. | 0.002% |
| Iron (Fe) | 5 ppm max. | <5 ppm |
| pH of a 0.01 M solution at 25C | 9.15 - 9.20 | 9.17 |
| Phosphate (PO4) | 0.001% max. | <0.001% |
| Sulfate (SO4) | 0.005% max. | <0.005% |

Joe Schoellkopff
---
Quality Control Manager

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

EMD Millipore is a division of Merck KGaA, Darmstadt, Germany

EMD Millipore Corporation
400 Summit Drive
Burlington, MA 01803
U.S.A.

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

M 6041-46
MS

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 23D2462010
Manufactured Date: 2023-03-22
Retest Date: 2028-03-20
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| ACS – Assay ($H_2SO_4$) | 95.0 – 98.0 % | 96.1 % |
| Appearance | Passes Test | Passes Test |
| ACS – Color (APHA) | ≤ 10 | 5 |
| ACS – Residue after Ignition | ≤ 3 ppm | < 1 ppm |
| ACS – Substances Reducing Permanganate (as SO2) | ≤ 2 ppm | < 2 ppm |
| Ammonium ($NH_4$) | ≤ 1 ppm | 1 ppm |
| Chloride (Cl) | ≤ 0.1 ppm | < 0.1 ppm |
| Nitrate ($NO_3$) | ≤ 0.2 ppm | < 0.1 ppm |
| Phosphate ($PO_4$) | ≤ 0.5 ppm | < 0.1 ppm |
| Trace Impurities – Aluminum (Al) | ≤ 30.0 ppb | < 5.0 ppb |
| Arsenic and Antimony (as As) | ≤ 4.0 ppb | < 2.0 ppb |
| Trace Impurities – Boron (B) | ≤ 10.0 ppb | 8.5 ppb |
| Trace Impurities – Cadmium (Cd) | ≤ 2.0 ppb | < 0.3 ppb |
| Trace Impurities – Chromium (Cr) | ≤ 6.0 ppb | < 0.4 ppb |
| Trace Impurities – Cobalt (Co) | ≤ 0.5 ppb | < 0.3 ppb |
| Trace Impurities – Copper (Cu) | ≤ 1.0 ppb | < 0.1 ppb |
| Trace Impurities – Gold (Au) | ≤ 10.0 ppb | 0.5 ppb |
| Heavy Metals (as Pb) | ≤ 500.0 ppb | < 100.0 ppb |
| Trace Impurities – Iron (Fe) | ≤ 50.0 ppb | 1.3 ppb |
| Trace Impurities – Lead (Pb) | ≤ 0.5 ppb | < 0.5 ppb |
| Trace Impurities – Magnesium (Mg) | ≤ 7.0 ppb | 0.8 ppb |
| Trace Impurities – Manganese (Mn) | ≤ 1.0 ppb | < 0.4 ppb |
| Trace Impurities – Mercury (Hg) | ≤ 0.5 ppb | < 0.1 ppb |
| Trace Impurities – Nickel (Ni) | ≤ 2.0 ppb | 0.3 ppb |
| Trace Impurities – Potassium (K) | ≤ 500.0 ppb | < 2.0 ppb |
| Trace Impurities – Selenium (Se) | ≤ 50.0 ppb | < 0.1 ppb |
| Trace Impurities – Silicon (Si) | ≤ 100.0 ppb | 31.5 ppb |
| Trace Impurities – Silver (Ag) | ≤ 1.0 ppb | < 0.3 ppb |

>>> Continued on page 2 >>>

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 23D2462010

| Test | Specification | Result |
|---|---|---|
| Trace Impurities - Sodium (Na) | ≤ 500.0 ppb | 5.4 ppb |
| Trace Impurities - Strontium (Sr) | ≤ 5.0 ppb | < 0.2 ppb |
| Trace Impurities - Tin (Sn) | ≤ 5.0 ppb | < 0.8 ppb |
| Trace Impurities - Zinc (Zn) | ≤ 5.0 ppb | 0.4 ppb |

For Laboratory,Research,or Manufacturing Use

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

James T Ethier

Jamie Ethier
Vice President Global Quality

# Certificate of Analysis

# Sodium Hydroxide (Pellets)

**Material:** 0583

**Grade:** ACS GRADE

**Batch Number:** 23B1556310

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

Pellets

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

Storage: Room Temperature

| 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.

# Certificate of Analysis

# 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

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.

Loveland, CO 80539
(970) 669-3050

An ISO 9001 Certified Company

# *Certificate of Analysis*

**PRODUCT:** Chlorine Solution Ampule 50-75 mg/l

**PRODUCT NUMBER:** 1426810

**LOT NUMBER:** A4144

**MANUFACTURE DATE:** 05/28/2024

**DATE OF ANALYSIS:** 05/30/2024

| TEST | SPECIFICATIONS | RESULTS |
|---|---|---|
| Standard Deviation for the ampules sampled | 0 to 0.4 mg/L | 0.10 mg/L |
| Mean Chlorine Concentration ampules sampled. | 50 to 75 mg/L | 60.9 mg/L |

The expiration date is Jan 2026

Certified by: Scott Als

Analytical Services Chemist

Loveland, CO 80539
(970) 669-3050

An ISO 9001 Certified Company

# *Certificate of Analysis*

**PRODUCT:** Chlorine Solution Ampule 50-75 mg/l

**PRODUCT NUMBER:** 1426810

**LOT NUMBER:** A4166

**MANUFACTURE DATE:** 06/24/2024

**DATE OF ANALYSIS:** 06/25/2024

| TEST | SPECIFICATIONS | RESULTS |
|---|---|---|
| Standard Deviation for the ampules sampled | 0 to 0.4 mg/L | 0.10 mg/L |
| Mean Chlorine Concentration ampules sampled. | 50 to 75 mg/L | 61.9 mg/L |

The expiration date is Feb 2026

Certified by: Scott Als

Analytical Services Chemist

spectrum® CHEMICAL MFG CORP

# Certificate Of Analysis

| | | | |
|---|---|---|---|
| Item Number | ED150 | Lot Number | 2ND0156 |
| Item | Edetate Disodium, Dihydrate, USP | CAS Number | 6381-92-6 |
| Molecular Formula | $C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$ | Molecular Weight | 372.24 |

| TEST | SPECIFICATION | | RESULT |
|---|---|---|---|
| | MIN | MAX | |
| ASSAY (DRIED BASIS) | 99.0 | 101.0 % | 99.5 % |
| pH OF A 5% SOLUTION @ 25°C | 4.0 | 6.0 | 4.6 |
| LOSS ON DRYING | 8.7 | 11.4 % | 8.90 % |
| CALCIUM (Ca) | NO PRECIPITATE IS FORMED | | NO PRECIPITATE IS FORMED |
| ELEMENTAL IMPURITIES: | | | . |
| NICKEL (Ni) | AS REPORTED | | <0.3 ppm |
| CHROMIUM (Cr) | AS REPORTED | | <0.3 ppm |
| NITRILOTRIACETIC ACID[$n[(HOCOCH_2)_3N]$] | | 0.1 % | <0.10 % |
| IDENTIFICATION A | MATCHES REFERENCE | | MATCHES REFERENCE |
| IDENTIFICATION B | RED COLOR IS DISCHARGED, LEAVING A YELLOWISH SOLUTION | | RED COLOR IS DISCHARGED, LEAVING A YELLOWISH SOLUTION |
| IDENTIFICATION C | MEETS THE REQUIREMENTS FOR SODIUM | | MEETS THE REQUIREMENTS FOR SODIUM |
| CERTIFIED HALAL | | | CERTIFIED HALAL |
| EXPIRATION DATE | | | 10-JUL-2026 |
| DATE OF MANUFACTURE | | | 11-JUL-2023 |
| APPEARANCE | | | WHITE CRYSTALLINE POWDER |
| RESIDUAL SOLVENTS | | AS REPORTED | NO RESIDUAL SOLVENTS PRESENT |
| MONOGRAPH EDITION | | | USP 2024 |

Certificate of Analysis Results Entered By:

CACEVEDO
Charmian Acevedo
22-MAY-24 08:12:30

Certificate of Analysis Results Approved By:

GHERRERA
Genaro Herrera
22-MAY-24 12:32:01

Spectrum Chemical Mfg Corp
755 Jersey Avenue
New Brunswick 08901 NJ

**All pharmaceutical ingredients are tested using current edition of applicable pharmacopeia.**

**Read and understand label and SDS before handling any chemicals. All Spectrum's chemicals are for manufacturing, processing, repacking or research purposes by experienced personnel only. It is the customer's responsibility to provide adequate hazardous material training and ensure that appropriate Personal Protective Equipment (PPE) is used before handling any chemical.**

The Elemental Impurities standards implemented by USP and other Pharmaceutical Compendia reflect a growing understanding of the toxicology of trace levels of elemental impurities that can remain in drug substances originating from either raw materials or manufacturing processes. Identifying and quantifying impurities can be critical to predicting the best possible patient outcomes. Elemental Impurities has been a requirement of all products meeting USP/NF, EP and BP monographs since January 1, 2018. More information can be found in USP sections <232> Elemental Impurities – Limits and <233> Elemental Impurities – Procedures. Data for drug substances furnished by Spectrum Chemical Mfg. Corp can be used to ensure that patient daily exposures by oral administration to the selected elements are not exceeded in the formulation of pharmaceutical products.

Loveland, CO 80539
(970) 669-3050

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# *Certificate of Analysis*

**PRODUCT:** DPD Total Chlorine Reagent

**PRODUCT NUMBER:** 1406499

**LOT NUMBER:** A4230

**MANUFACTURE DATE:** 08/27/2024

**DATE OF ANALYSIS:** 08/28/2024

| TEST | SPECIFICATIONS | RESULTS |
|---|---|---|
| Percent Recovery for a 2.5 ppm Standard. Chlorine concentration determined using DPD compared to the actual concentration. | 93 to 107 % | 95.7 % |
| pH of reagent in 50 mL of DI water. | 6.2 to 6.5 | 6.40 |
| Percent Recovery for a 5.0 ppm Standard. Chlorine concentration determined using DPD compared to the actual concentration. | 93 to 107 % | 96.2 % |
| Hardness Blank: 1000 ppm as Calcium Carbonate Hardness standard vs DI water measured at 530 nm in 1 cm cells. | 0 to 0.009 abs | 0.0020 abs |

The expiration date is Aug 2029

Certified by: Scott Abs

Analytical Services Chemist

RICCA CHEMICAL COMPANY®

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

# Certificate of Analysis

## Sodium Hypochlorite Solution, 5% available Chlorine

**Lot Number:** 2501J28 **Product Number:** 7495.5

**Manufacture Date:** JAN 17, 2025
**Expiration Date:** JUL 2025

This solution is subject to slow decomposition upon exposure to air. Keep container tightly capped. Refrigeration may improve stability. When used in the Phenate method for Ammonia, APHA recommends replacing this solution about every 2 months.

| Name | CAS# | Grade |
|---|---|---|
| Water | 7732-18-5 | Commercial |
| Sodium Hypochlorite | 7681-52-9 | Commercial |

| Test | Specification | Result | NIST SRM# |
|---|---|---|---|
| Appearance | Colorless to greenish-yellow liquid | Passed | |
| Assay (vs. Sodium Thiosulfate/Starch) | 4.75-5.25 % (w/w) $Cl_2$ | 5.17 % (w/w) $Cl_2$ | 136 |

| Specification | Reference |
|---|---|
| Sodium Hypochlorite, 5% | APHA (4500-NH3 F) |
| Sodium Hypochlorite | ASTM (D 4785) |

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) |
|---|---|---|
| 7495.5-1 | 4 L black poly | 6 months |
| 7495.5-16 | 500 mL amber poly | 6 months |
| 7495.5-32 | 1 L amber poly | 6 months |
| 7495.5-8 | 250 mL amber poly | 6 months |

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

Jose Pena (01/17/2025)
Operations Manager

W3195 Received on 03/19/2025 by IZ

# Certificate of Analysis

| | |
|---|---|
| Material | BDH9208-500G |
| Material Description | BDH AMMONIUM CHLORIDE ACS 500G |
| Grade | U S P REAGENT (ACS GRADE) |
| Batch | 24L0356561 |
| Reassay Date | 08/31/2027 |
| CAS Number | 12125-02-9 |
| Molecular Formula | NH4Cl |
| Molecular Mass | 53.49 |
| Date of Manufacture | 08/01/2024 |
| Storage | Room Temperature |

| Characteristics | Specifications | Measured Values |
|---|---|---|
| Appearance | White granular powder | White granular powder |
| Calcium | <= 0.001 % | 0.001 % |
| Heavy Metals (as Pb) | <= 0.0005 % | <0.0002 % |
| Insolubles | <= 0.005 % | 0.001 % |
| Iron | <= 0.0002 % | <0.0002 % |
| Magnesium | <= 0.0005 % | 0.0001 % |
| pH (5%, Water) @25C | 4.5 - 5.5 | 4.8 |
| Phosphate | <= 0.0002 % | <0.0002 % |
| Purity | >= 99.5 % | 99.8 % |
| Residue on Ignition | <= 0.01 % | 0.003 % |
| Sulfate | <= 0.002 % | <0.002 % |

Extra Description: Meets Reagent Specifications for testing USP/NF monographs

Internal ID #: 710

## Signature

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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

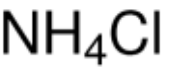
Product meets analytical specifications of the grades listed.

3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

W3196 Received on 03/19/2025 by IZ

# Certificate of Analysis

Product Name:
Ammonium chloride - ACS reagent, ≥99.5%



| | |
|---|---|
| **Product Number:** | **213330** |
| **Batch Number:** | **MKCV1009** |
| Brand: | SIGALD |
| CAS Number: | 12125-02-9 |
| MDL Number: | MFCD00011420 |
| Formula: | H4ClN |
| Formula Weight: | 53.49 g/mol |
| Quality Release Date: | 23 OCT 2023 |
| Recommended Retest Date: | SEP 2026 |

| Test | Specification | Result |
|---|---|---|
| Appearance (Color) | White | White |
| Appearance (Form) | Powder or Crystals or Chunk(s) | Crystals |
| Titration by AgNO3 | ≥ 99.5 % | 100.2 % |
| pH @ 25 Deg c (5% Solution) | 4.5 - 5.5 | 4.9 |
| Insoluble Matter 10%, H2O | ≤ 0.005 % | 0.001 % |
| Residue on ignition (Ash) | ≤ 0.01 % | < 0.01 % |
| Calcium (Ca) | ≤ 0.001 % | < 0.001 % |
| Magnesium (Mg) | ≤ 5 ppm | 1 ppm |
| Heavy Metals by ICP | ≤ 5 ppm | < 1 ppm |
| Iron (Fe) | ≤ 2 ppm | < 1 ppm |
| Phosphate (PO4) | ≤ 2 ppm | < 2 ppm |
| Sulfate (SO4) | ≤ 0.002 % | < 0.002 % |
| Meets ACS Requirements | Current ACS Specification | Conforms |
| Recommended Retest Period 3 Years | ---------- | ---------- |

Larry Coers, Director

3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

# Certificate of Analysis

**Product Number:** **213330**
**Batch Number:** **MKCV1009**

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Quality Control
Milwaukee, WI US


# SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 · Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q 2512
COC Number 2047538

## CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: VERINA CONSULTING GROUP
ADDRESS: 1011 US HIGHWAY 22 SUITE 302
CITY BRIDGEWATER STATE: NJ ZIP: 08807
ATTENTION: MICHAEL VALENZI
PHONE: 908 864 4400 FAX:

## CLIENT PROJECT INFORMATION

PROJECT NAME: ROTOR CLIP
PROJECT NO.: 5183 0001 LOCATION: NJ
PROJECT MANAGER: MICHAEL VALENZI
e-mail: MVALENZI@VCG-LLC.COM
SMACCARTER@VCG-LLC.COM
PHONE: 908 864 4400 FAX: 908 864 4401

## CLIENT BILLING INFORMATION

BILL TO: SEE LEFT PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

## DATA TURNAROUND INFORMATION

FAX (RUSH) 5 DAYS*
HARDCOPY (DATA PACKAGE): 5 DAYS*
EDD: 5 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

## DATA DELIVERABLE INFORMATION

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

## ANALYSIS

1: Cr Cu Ni Zn
2: CHLORINE DEMAND
3: AMMONIA
4
5
6
7
8
9

| ALLIANCE SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | PRESERVATIVES 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | B | E | C | | | | | | | ← Specify Preservatives A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER |
| 1. | WATER TREATMENT DISCHARGE | WW | X | | 7/3 | 10:10 | 3 | 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: | DATE/TIME: | RECEIVED BY: |
|---|---|---|
| 1. Mahmahi | 7/3/25 1233 | 1. 7-3-25 1233 |
| 2. | | 2. |
| 3. | 7-3-25 1412 | 3. |

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.8 °C
Comments: FLOW RATE – 41
PH RATE – 9.7
TEMPERATURE – 77.9
METALS GROUP 4 – Cr Cu Ni Zn

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



WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

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

# Laboratory Certification

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

QA Control Code: A2070148