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

# DATA PACKAGE

## GENERAL CHEMISTRY

**PROJECT NAME : RAYMARK SUPERFUND SITE**

**NOBIS GROUP**

**585 Middlesex Street**

**Lowell, MA - 01851**

**Phone No: 978-683-0891**

**ORDER ID : Q2259**

**ATTENTION : Adam Roy**

**Laboratory Certification ID # 20012**

Table Of Contents for Q2259

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# Cover Page

**Order ID :** Q2259

**Project ID :** Raymark Superfund Site

**Client :** Nobis Group

| Lab Sample Number | Client Sample Number |
|---|---|
| Q2259-01 | OU4-PCS-TC-36-060525 |
| Q2259-02 | OU4-PCS-TC-36-060525 |
| Q2259-03 | OU4-PCS-TC-37-060525 |
| Q2259-04 | OU4-PCS-TC-37-060525 |
| Q2259-05 | OU4-TS-29-060525 |
| Q2259-06 | OU4-TS-30-060525 |

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: 6/17/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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# CASE NARRATIVE

**Nobis Group**
**Project Name: Raymark Superfund Site**
**Project # N/A**
**Order ID # Q2259**
**Test Name: Cyanide**

**A. Number of Samples and Date of Receipt:**
6 Solid samples were received on 06/06/2025.

**B. Parameters:**
According to the Chain of Custody document, the following analyses were requested: Cyanide, Herbicide Group1, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SPLP Extraction, SPLP Mercury, SPLP MetalGroup3, SVOCMS Group3 and VOCMS Group3. This data package contains results for Cyanide.

**C. Analytical Techniques:**
The analysis of Cyanide was based on method 9012B.

**D. QA/ QC Samples:**
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples.
The Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

**E. Additional Comments:**

---

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_____

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 |

## GENERAL CHEMISTRY CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q2259 MATRIX: Solid

METHOD: 9012B

| | | NA | NO | YES |
|---|---|---|---|---|
| 1. | Blank Contamination - If yes, list compounds and concentrations in each blank: | | ✓ | |
| 2. | Matrix Spike Duplicate Recoveries Met Criteria | | | ✓ |
| | If not met, list those compounds and their recoveries which fall outside the acceptable range. | | | |
| | The Blank Spike met requirements for all samples. | | | |
| 3. | Sample Duplicate Analysis Met QC Criteria | | | ✓ |
| | If not met, list those compounds and their recoveries which fall outside the acceptable range. | | | |
| 4. | Digestion Holding Time Met | | | ✓ |
| | If not met, list number of days exceeded for each sample: | | | |

ADDITIONAL COMMENTS:

_____ _____

QA REVIEW Date

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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## APPENDIX A

## QA REVIEW GENERAL DOCUMENTATION

**Project #:** Q2259

| | 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:** SOHIL JODHANI **Date:** 06/17/2025

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q2259 | **OrderDate:** | 6/6/2025 10:57:00 AM |
| **Client:** | Nobis Group | **Project:** | Raymark Superfund Site |
| **Contact:** | Adam Roy | **Location:** | D21,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q2259-01** | **OU4-PCS-TC-36-060525** | **SOIL** | | | **06/05/25 11:25** | | | **06/06/25** |
| | | | Cyanide | 9012B | | 06/09/25 | 06/09/25 13:11 | |
| **Q2259-03** | **OU4-PCS-TC-37-060525** | **SOIL** | | | **06/05/25 11:35** | | | **06/06/25** |
| | | | Cyanide | 9012B | | 06/09/25 | 06/09/25 13:11 | |

# SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Nobis Group | Date Collected: | 06/05/25 11:25 |
| Project: | Raymark Superfund Site | Date Received: | 06/06/25 |
| Client Sample ID: | OU4-PCS-TC-36-060525 | SDG No.: | Q2259 |
| Lab Sample ID: | Q2259-01 | Matrix: | SOIL |
| | | % Solid: | 94.3 |

| Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | 0.12 | J | 1 | 0.044 | 0.21 | 0.26 | mg/Kg | 06/09/25 10:00 | 06/09/25 13:11 | 9012B |

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: | Nobis Group | Date Collected: | 06/05/25 11:35 |
| Project: | Raymark Superfund Site | Date Received: | 06/06/25 |
| Client Sample ID: | OU4-PCS-TC-37-060525 | SDG No.: | Q2259 |
| Lab Sample ID: | Q2259-03 | Matrix: | SOIL |
| | | % Solid: | 94.3 |

| Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | 0.089 | J | 1 | 0.043 | 0.20 | 0.25 | mg/Kg | 06/09/25 10:00 | 06/09/25 13:11 | 9012B |

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:** Nobis Group **SDG No.:** Q2259

**Project:** Raymark Superfund Site **RunNo.:** LB136063

| Analyte | | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|---|---|---|---|---|---|---|---|
| Sample ID: | ICV1 | | | | | | |
| Cyanide | | mg/L | 0.095 | 0.099 | 96 | 90-110 | 06/09/2025 |
| Sample ID: | CCV1 | | | | | | |
| Cyanide | | mg/L | 0.24 | 0.25 | 96 | 90-110 | 06/09/2025 |
| Sample ID: | CCV2 | | | | | | |
| Cyanide | | mg/L | 0.23 | 0.25 | 92 | 90-110 | 06/09/2025 |
| Sample ID: | CCV3 | | | | | | |
| Cyanide | | mg/L | 0.24 | 0.25 | 96 | 90-110 | 06/09/2025 |

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# Initial and Continuing Calibration Blank Summary

| | | | |
|---|---|---|---|
| **Client:** | Nobis Group | **SDG No.:** | Q2259 |
| **Project:** | Raymark Superfund Site | **RunNo.:** | LB136063 |

| Analyte | | Units | Result | Acceptance Limits | Conc Qual | MDL | RDL | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| Sample ID: | ICB1 | | | | | | | |
| Cyanide | | mg/L | < 0.0025 | 0.0025 | U | 0.00096 | 0.005 | 06/09/2025 |
| Sample ID: | CCB1 | | | | | | | |
| Cyanide | | mg/L | < 0.0025 | 0.0025 | U | 0.00096 | 0.005 | 06/09/2025 |
| Sample ID: | CCB2 | | | | | | | |
| Cyanide | | mg/L | < 0.0025 | 0.0025 | U | 0.00096 | 0.005 | 06/09/2025 |
| Sample ID: | CCB3 | | | | | | | |
| Cyanide | | mg/L | < 0.0025 | 0.0025 | U | 0.00096 | 0.005 | 06/09/2025 |

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# Preparation Blank Summary

**Client:** Nobis Group **SDG No.:** Q2259

**Project:** Raymark Superfund Site

| Analyte | Units | Result | Acceptance Limits | Conc Qual | MDL | RDL | Analysis Date |
|---|---|---|---|---|---|---|---|
| Sample ID: PB168361BL | | | | | | | |
| Cyanide | mg/Kg | < 0.1250 | 0.1250 | U | 0.042 | 0.25 | 06/09/2025 |

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# Matrix Spike Summary

**Client:** Nobis Group
**Project:** Raymark Superfund Site
**Client ID:** OU4-TS-30-060525MS
**SDG No.:** Q2259
**Sample ID:** Q2259-06
**Percent Solids for Spike Sample:** 79

| Analyte | Units | Acceptance Limit %R | Spiked Result | Conc. Qualifier | Sample Result | Conc. Qualifier | Spike Added | Dilution Factor | % Rec | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | mg/Kg | 75-125 | 2.40 | | 0.096 | J | 2.5 | 1 | 92 | | 06/09/2025 |

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# Matrix Spike Summary

**Client:** Nobis Group
**Project:** Raymark Superfund Site
**Client ID:** OU4-TS-30-060525MSD
**SDG No.:** Q2259
**Sample ID:** Q2259-06
**Percent Solids for Spike Sample:** 79

| Analyte | Units | Acceptance Limit %R | Spiked Result | Conc. Qualifier | Sample Result | Conc. Qualifier | Spike Added | Dilution Factor | % Rec | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | mg/Kg | 75-125 | 2.40 | | 0.096 | J | 2.5 | 1 | 92 | | 06/09/2025 |

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# Duplicate Sample Summary

**Client:** Nobis Group
**Project:** Raymark Superfund Site
**Client ID:** OU4-TS-30-060525DUP
**SDG No.:** Q2259
**Sample ID:** Q2259-06
**Percent Solids for Spike Sample:** 79

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | mg/Kg | +/-20 | 0.096 | J | 0.097 | J | 1 | 1 | | 06/09/2025 |

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# Duplicate Sample Summary

**Client:** Nobis Group
**Project:** Raymark Superfund Site
**Client ID:** OU4-TS-30-060525MSD
**SDG No.:** Q2259
**Sample ID:** Q2259-06
**Percent Solids for Spike Sample:** 79

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | mg/Kg | +/-20 | 2.40 | | 2.40 | | 1 | 0 | | 06/09/2025 |

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# Laboratory Control Sample Summary

| | | | |
|---|---|---|---|
| **Client:** | Nobis Group | **SDG No.:** | Q2259 |
| **Project:** | Raymark Superfund Site | **Run No.:** | LB136063 |

| Analyte | Units | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| **Sample ID** **PB168361BS** | | | | | | | | |
| Cyanide | mg/Kg | 5 | 4.70 | | 94 | 1 | 85-115 | 06/09/2025 |

# RAW DATA

LB136

Test results — Aquakem 7.2AQ1 — Page: 1

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM — Instrument ID : Konelab

6/9/2025 13:21

Test: Total CN

| Sample Id | Result | Dil. 1 + | Response | Errors |
|---|---|---|---|---|
| ICV1 | 95.393 | 0.0 | 0.079 | |
| ICB1 | 0.880 | 0.0 | 0.001 | |
| CCV1 | 237.625 | 0.0 | 0.197 | |
| CCB1 | 0.620 | 0.0 | 0.001 | |
| PB168347BL | 0.583 | 0.0 | 0.001 | |
| PB168347BS | 95.810 | 0.0 | 0.079 | |
| LOWPB168347 | 9.979 | 0.0 | 0.008 | 99% (90–110) |
| HIGHPB168347 | 479.472 | 0.0 | 0.397 | |
| Q2243-02 | 4.585 | 0.0 | 0.004 | 95% (90–110) 06/09/2025 RM |
| Q2243-02DUP | 4.356 | 0.0 | 0.004 | |
| Q2243-02MS | 39.843 | 0.0 | 0.033 | |
| Q2243-02MSD | 39.062 | 0.0 | 0.033 | |
| PB168361BL | 0.722 | 0.0 | 0.001 | |
| PB168361BS | 93.774 | 0.0 | 0.078 | |
| CCV2 | 228.232 | 0.0 | 0.189 | |
| CCB2 | 0.602 | 0.0 | 0.001 | |
| Q2259-01 | 2.281 | 0.0 | 0.002 | |
| Q2259-03 | 1.751 | 0.0 | 0.002 | |
| Q2259-05 | 2.245 | 0.0 | 0.002 | |
| Q2259-06 | 1.537 | 0.0 | 0.002 | |
| Q2259-06DUP | 1.544 | 0.0 | 0.002 | |
| Q2259-06MS | 38.504 | 0.0 | 0.032 | |
| Q2259-06MSD | 38.959 | 0.0 | 0.032 | |
| CCV3 | 237.053 | 0.0 | 0.196 | |
| CCB3 | 0.906 | 0.0 | 0.001 | |

| | |
|---|---|
| N | 25 |
| Mean | 66.253 |
| SD | 115.1547 |
| CV% | 173.81 |

Aquakem v. 7.2AQ1
Results from time period:
Mon Jun 09 12:55:49 2025
Mon Jun 09 13:18:41 2025

| Sample Id | Sam/Ctr/cA | Test short r | Test type | Result | Result unit | Result date and time | Stat |
|---|---|---|---|---|---|---|---|
| 0.0PPBCN | A | Total CN | P | 0.5227 | µg/l | 6/9/2025 9:48:16 | |
| 5.0PPBCN | A | Total CN | P | 4.676 | µg/l | 6/9/2025 9:48:17 | |
| 10PPBCN | A | Total CN | P | 10.4764 | µg/l | 6/9/2025 9:48:18 | |
| 50PPBCN | A | Total CN | P | 49.6698 | µg/l | 6/9/2025 9:48:19 | |
| 100PPBCN | A | Total CN | P | 101.1189 | µg/l | 6/9/2025 9:48:20 | |
| 250PPBCN | A | Total CN | P | 247.4667 | µg/l | 6/9/2025 9:48:21 | |
| 500PPBCN | A | Total CN | P | 501.0696 | µg/l | 6/9/2025 9:48:22 | |
| ICV1 | S | Total CN | P | 95.3933 | µg/l | 6/9/2025 12:55:50 | |
| ICB1 | S | Total CN | P | 0.8797 | µg/l | 6/9/2025 12:55:51 | |
| CCV1 | S | Total CN | P | 237.6246 | µg/l | 6/9/2025 12:55:54 | |
| CCB1 | S | Total CN | P | 0.6199 | µg/l | 6/9/2025 12:55:56 | |
| PB168347BL | S | Total CN | P | 0.5834 | µg/l | 6/9/2025 12:55:58 | |
| PB168347BS | S | Total CN | P | 95.8097 | µg/l | 6/9/2025 12:55:59 | |
| LOWPB168347 | S | Total CN | P | 9.9789 | µg/l | 6/9/2025 13:03:25 | |
| HIGHPB168347 | S | Total CN | P | 479.4719 | µg/l | 6/9/2025 13:03:28 | |
| Q2243-02 | S | Total CN | P | 4.5847 | µg/l | 6/9/2025 13:03:29 | |
| Q2243-02DUP | S | Total CN | P | 4.3561 | µg/l | 6/9/2025 13:03:30 | |
| Q2243-02MS | S | Total CN | P | 39.8433 | µg/l | 6/9/2025 13:03:31 | |
| Q2243-02MSD | S | Total CN | P | 39.0624 | µg/l | 6/9/2025 13:03:32 | |
| PB168361BL | S | Total CN | P | 0.7219 | µg/l | 6/9/2025 13:03:34 | |
| PB168361BS | S | Total CN | P | 93.7741 | µg/l | 6/9/2025 13:10:57 | |
| CCV2 | S | Total CN | P | 228.2317 | µg/l | 6/9/2025 13:10:59 | |
| CCB2 | S | Total CN | P | 0.602 | µg/l | 6/9/2025 13:11:01 | |
| Q2259-01 | S | Total CN | P | 2.2807 | µg/l | 6/9/2025 13:11:02 | |
| Q2259-03 | S | Total CN | P | 1.7509 | µg/l | 6/9/2025 13:11:03 | |
| Q2259-05 | S | Total CN | P | 2.2445 | µg/l | 6/9/2025 13:11:04 | |
| Q2259-06 | S | Total CN | P | 1.5368 | µg/l | 6/9/2025 13:11:06 | |
| Q2259-06DUP | S | Total CN | P | 1.5439 | µg/l | 6/9/2025 13:18:31 | |
| Q2259-06MS | S | Total CN | P | 38.5041 | µg/l | 6/9/2025 13:18:35 | |
| Q2259-06MSD | S | Total CN | P | 38.9593 | µg/l | 6/9/2025 13:18:36 | |
| CCV3 | S | Total CN | P | 237.0526 | µg/l | 6/9/2025 13:18:38 | |
| CCB3 | S | Total CN | P | 0.9061 | µg/l | 6/9/2025 13:18:40 | |

Calibration results  Aquakem 7.2AQ1  

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

6/9/2025 9:54  Reviewed by : RM  Instrument ID : Konelab

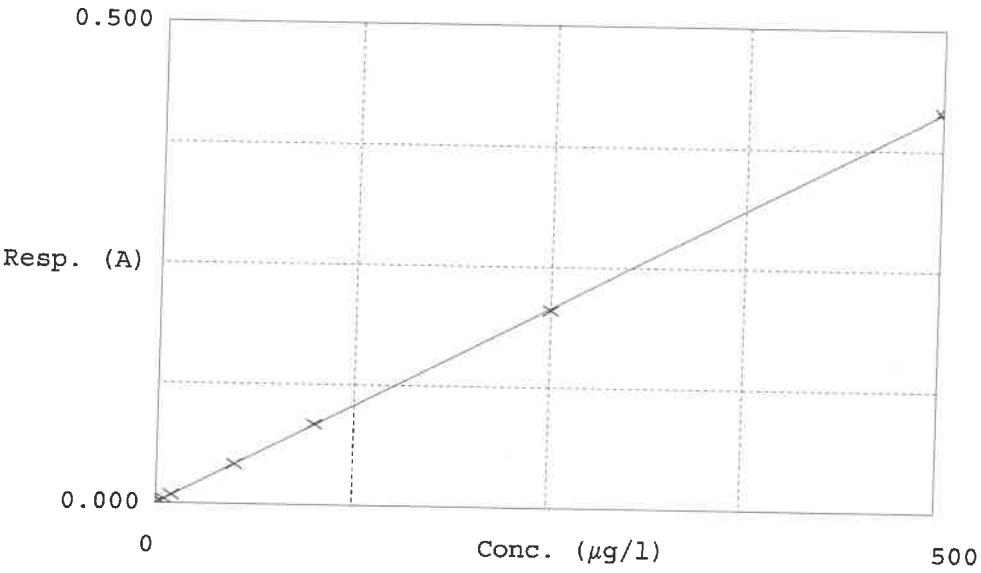
Test  Total CN

Accepted  6/9/2025  9:54

Factor  1209
Bias  0

Coeff. of det.  0.999954

Errors




| | Calibrator | Response | Calc. con. | Conc. | Errors |
|---|---|---|---|---|---|
| 1 | 0.0PPBCN | 0.001 | 0.5227 | 0.0000 | -6.5 |
| 2 | 5.0PPBCN | 0.004 | 4.6760 | 5.0000 | 4.0 |
| 3 | 10PPBCN | 0.009 | 10.4764 | 10.0000 | -0.7 |
| 4 | 50PPBCN | 0.041 | 49.6698 | 50.0000 | 1.1 |
| 5 | 100PPBCN | 0.084 | 101.1189 | 100.0000 | -1.0 |
| 6 | 250PPBCN | 0.205 | 247.4667 | 250.0000 | 0.2 |
| 7 | 500PPBCN | 0.415 | 501.0696 | 500.0000 | |

06/09/2025
RM

Alliance TECHNICAL GROUP

# Soil/Sludge Cyanide Preparation Sheet

PB168361

**SOP ID :** M9012B-Total, Amenable and Reactive Cyanide-20

**SDG No :** N/A

**Start Digest Date:** 06/09/2025 **Time :** 10:00 **Temp :** 124 °C

**Matrix :** SOIL

**End Digest Date:** 06/09/2025 **Time :** 11:30 **Temp :** 126 °C

**Pippete ID :** WC

**Balance ID :** WC SC-7

**Hood ID :** HOOD#1 **Digestion tube ID :** M5595 **Block Thermometer ID :** WC CYANIDE

**Block ID :** MC-1,MC-2 **Filter paper ID :** N/A **Prep Technician Signature:** JP

**Weigh By :** JP **pH Meter ID :** N/A **Supervisor Signature:** IR

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| LCSS | 1.0ML | WP112995 |
| MS/MSD SPIKE SOL. | 0.40ML | WP113319 |
| PBS003 | 50.0ML | W3112 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| 0.25N NaOH | 50.0ML | WP111294 |
| 50% v/v H2SO4 | 5.0ML | WP112826 |
| 51% w/v MgCL2 | 2.0ML | WP112827 |
| 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 | Wt(g)/Vol(ml) | Comment |
|---|---|---|---|
| S0 | S0 | N/A | N/A |
| S5.0 | S5.0 | N/A | N/A |
| S10.0 | S10.0 | N/A | N/A |
| S100.0 | S100.0 | N/A | N/A |
| S250.0 | S250.0 | N/A | N/A |
| S500.0 | S500.0 | N/A | N/A |
| ICV | ICV | N/A | AS PER PB168347 |
| ICB | ICB | N/A | N/A |
| CCV | CCV | N/A | N/A |
| CCB | CCB | N/A | N/A |
| Midrange | Midrange | N/A | N/A |
| HIGHSTD | HIGHSTD | N/A | AS PER PB168347 |
| LOWSTD | LOWSTD | N/A | AS PER PB168347 |

**Extraction Conformance/Non-Conformance Comments:**

N/A

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 06/09/2025 11:40 | JP / WC | RM (WC) |
| | **Preparation Group** | **Analysis Group** |

Alliance TECHNICAL GROUP

## Soil/Sludge Cyanide Preparation Sheet

**PB168361**

| Lab Sample ID | Client Sample ID | Initial Weight (g) | Final Vol (ml) | pH | Sulfide | Oxidizing | Nitrate/ Nitrite | Comment | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|
| PB168361BL | PBS361 | 1.00 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| PB168361BS | LCS361 | 1.00 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2259-01 | OU4-PCS-TC-36-060525 | 1.02 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2259-03 | OU4-PCS-TC-37-060525 | 1.04 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2259-05 | OU4-TS-29-060525 | 1.04 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2259-06 | OU4-TS-30-060525 | 1.01 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2259-06DUP | OU4-TS-30-060525DUP | 1.01 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2259-06MS | OU4-TS-30-060525MS | 1.02 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |
| Q2259-06MSD | OU4-TS-30-060525MSD | 1.01 | 50 | N/A | N/A | N/A | N/A | N/A | N/A |

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** CN Q2259 SOLIDS **WorkList ID :** 190019 **Department :** Distillation **Date :** 06-09-2025 07:33:51

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q2259-01 | OU4-PCS-TC-36-060525 | Solid | Cyanide | Cool 4 deg C | NOBI03 | D21 | 06/05/2025 | 9012B |
| Q2259-03 | OU4-PCS-TC-37-060525 | Solid | Cyanide | Cool 4 deg C | NOBI03 | D21 | 06/05/2025 | 9012B |
| Q2259-05 | OU4-TS-29-060525 | Solid | Cyanide | Cool 4 deg C | NOBI03 | D21 | 06/05/2025 | 9012B |
| Q2259-06 | OU4-TS-30-060525 | Solid | Cyanide | Cool 4 deg C | NOBI03 | D21 | 06/05/2025 | 9012B |



**Date/Time** 06/09/2025 09.00
**Raw Sample Received by:** [signature]
**Raw Sample Relinquished by:** [signature]



**Date/Time** 06/09/2025 10.30
**Raw Sample Received by:** [signature]
**Raw Sample Relinquished by:** [signature]

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Fax : 908 789 8922

**Instrument ID:** KONELAB

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136063

| | | | |
|---|---|---|---|
| Review By | rubina | Review On | 6/10/2025 10:17:15 AM |
| Supervise By | Iwona | Supervise On | 6/10/2025 11:45:46 AM |
| SubDirectory | LB136063 | Test | Cyanide |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | WP113433,WP113434,WP113435,WP113436,WP113437,WP113438,WP113439 |
| ICV Standard | W3012 |
| CCV Standard | WP113434 |
| ICSA Standard | N/A |
| CRI Standard | N/A |
| LCS Standard | WP112995 |
| Chk Standard | WP112643,WP112900,WP113441 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | 0.0PPBCN | 0.0PPBCN | CAL1 | 06/09/25 09:48 | | rubina | OK |
| 2 | 5.0PPBCN | 5.0PPBCN | CAL2 | 06/09/25 09:48 | | rubina | OK |
| 3 | 10PPBCN | 10PPBCN | CAL3 | 06/09/25 09:48 | | rubina | OK |
| 4 | 50PPBCN | 50PPBCN | CAL4 | 06/09/25 09:48 | | rubina | OK |
| 5 | 100PPBCN | 100PPBCN | CAL5 | 06/09/25 09:48 | | rubina | OK |
| 6 | 250PPBCN | 250PPBCN | CAL6 | 06/09/25 09:48 | | rubina | OK |
| 7 | 500PPBCN | 500PPBCN | CAL7 | 06/09/25 09:48 | | rubina | OK |
| 8 | ICV1 | ICV1 | ICV | 06/09/25 12:55 | | rubina | OK |
| 9 | ICB1 | ICB1 | ICB | 06/09/25 12:55 | | rubina | OK |
| 10 | CCV1 | CCV1 | CCV | 06/09/25 12:55 | | rubina | OK |
| 11 | CCB1 | CCB1 | CCB | 06/09/25 12:55 | | rubina | OK |
| 12 | PB168347BL | PB168347BL | MB | 06/09/25 12:55 | | rubina | OK |
| 13 | PB168347BS | PB168347BS | LCS | 06/09/25 12:55 | | rubina | OK |
| 14 | LOWPB168347 | LOWPB168347 | SAM | 06/09/25 13:03 | | rubina | OK |
| 15 | HIGHPB168347 | HIGHPB168347 | SAM | 06/09/25 13:03 | | rubina | OK |
| 16 | Q2243-02 | WATER-TREATMENT | SAM | 06/09/25 13:03 | | rubina | OK |
| 17 | Q2243-02DUP | WATER-TREATMENT | DUP | 06/09/25 13:03 | | rubina | OK |
| 18 | Q2243-02MS | WATER-TREATMENT | MS | 06/09/25 13:03 | | rubina | OK |

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**Instrument ID:** KONELAB

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136063

| | | | |
|---|---|---|---|
| Review By | rubina | Review On | 6/10/2025 10:17:15 AM |
| Supervise By | Iwona | Supervise On | 6/10/2025 11:45:46 AM |
| SubDirectory | LB136063 | Test | Cyanide |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | WP113433,WP113434,WP113435,WP113436,WP113437,WP113438,WP113439 |
| ICV Standard | W3012 |
| CCV Standard | WP113434 |
| ICSA Standard | N/A |
| CRI Standard | N/A |
| LCS Standard | WP112995 |
| Chk Standard | WP112643,WP112900,WP113441 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q2243-02MSD | WATER-TREATMENT | MSD | 06/09/25 13:03 | | rubina | OK |
| 20 | PB168361BL | PB168361BL | MB | 06/09/25 13:03 | | rubina | OK |
| 21 | PB168361BS | PB168361BS | LCS | 06/09/25 13:10 | | rubina | OK |
| 22 | CCV2 | CCV2 | CCV | 06/09/25 13:10 | | rubina | OK |
| 23 | CCB2 | CCB2 | CCB | 06/09/25 13:11 | | rubina | OK |
| 24 | Q2259-01 | OU4-PCS-TC-36-060 | SAM | 06/09/25 13:11 | | rubina | OK |
| 25 | Q2259-03 | OU4-PCS-TC-37-060 | SAM | 06/09/25 13:11 | | rubina | OK |
| 26 | Q2259-05 | OU4-TS-29-060525 | SAM | 06/09/25 13:11 | | rubina | OK |
| 27 | Q2259-06 | OU4-TS-30-060525 | SAM | 06/09/25 13:11 | | rubina | OK |
| 28 | Q2259-06DUP | OU4-TS-30-060525DU | DUP | 06/09/25 13:18 | | rubina | OK |
| 29 | Q2259-06MS | OU4-TS-30-060525M | MS | 06/09/25 13:18 | | rubina | OK |
| 30 | Q2259-06MSD | OU4-TS-30-060525M | MSD | 06/09/25 13:18 | | rubina | OK |
| 31 | CCV3 | CCV3 | CCV | 06/09/25 13:18 | | rubina | OK |
| 32 | CCB3 | CCB3 | CCB | 06/09/25 13:18 | | rubina | OK |

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# Prep Standard - Chemical Standard Summary

**Order ID :** Q2259

**Test :** Cyanide,Percent Solids

**Prepbatch ID :** PB168361,

**Sequence ID/Qc Batch ID:** LB136063,

**Standard ID :**
WP111294,WP112643,WP112826,WP112827,WP112900,WP112995,WP113319,WP113432,WP113433,WP113434,WP113435,WP113436,WP113437,WP113438,WP113439,WP113441,

**Chemical ID :**
M6041,M6151,W2668,W3012,W3019,W3112,W3113,W3139,W3152,W3173,W3203,W3214,

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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 |
|---|---|---|---|---|---|---|---|---|
| 11 | Sodium hydroxide absorbing solution 0.25 N | WP111294 | 01/07/2025 | 07/07/2025 | Niha Farheen Shaik | WETCHEM_SCALE_5 (WCSC-5) | None | Iwona Zarych 01/07/2025 |

**FROM** 21.00000L of W3112 + 210.00000gram of W3113 = Final Quantity: 21.000 L

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

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

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# Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1714 | Sulfuric Acid, 50% (v/v) | WP112826 | 04/25/2025 | 10/25/2025 | Rubina Mughal | None | None | Iwona Zarych 04/25/2025 |

**FROM** 1000.00000ml of M6041 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3214 | Magnesium Chloride For Cyanide 2.5M(51%W/V) | WP112827 | 04/25/2025 | 10/25/2025 | Rubina Mughal | WETCHEM_SCALE_8 (WCSC-7) | None | Iwona Zarych 04/25/2025 |

**FROM** 500.00000ml of W3112 + 510.00000gram of W3152 = Final Quantity: 1000.000 ml

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# Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 607 | PYRIDINE-BARBITURIC ACID | WP112900 | 05/01/2025 | 08/18/2025 | Rubina Mughal | WETCHEM_SCALE_8 (WCSC-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

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3371 | Cyanide LCS Spike Solution, 5PPM | WP112995 | 05/07/2025 | 07/07/2025 | Iwona Zarych | None | WETCHEM_PIPETTE_3 (WC) | Jignesh Parikh 05/07/2025 |

**FROM** 1.00000ml of W3173 + 199.00000ml of WP111294 = Final Quantity: 200.000 ml

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# Wet Chemistry STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3850 | Cyanide MS-MSD spiking solution, 5PPM | WP113319 | 06/02/2025 | 07/07/2025 | Rubina Mughal | None | WETCHEM_PIPETTE_3 (WC) | Iwona Zarych 06/02/2025 |

**FROM** 1.00000ml of W3214 + 199.00000ml of WP111294 = Final Quantity: 200.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3456 | Cyanide Intermediate Working Std, 5PPM | WP113432 | 06/09/2025 | 06/10/2025 | Rubina Mughal | None | WETCHEM_PIPETTE_3 (WC) | Iwona Zarych 06/10/2025 |

**FROM** 0.25000ml of W3214 + 49.75000ml of WP111294 = 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 |
|---|---|---|---|---|---|---|---|---|
| 4 | Calibation standard 500 ppb | WP113433 | 06/09/2025 | 06/10/2025 | Rubina Mughal | None | WETCHEM_PIPETTE_3 (WC) | Iwona Zarych 06/10/2025 |

**FROM** 45.00000ml of WP111294 + 5.00000ml of WP113432 = Final Quantity: 50.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3761 | Calibration-CCV CN Standard 250 ppb | WP113434 | 06/09/2025 | 06/10/2025 | Rubina Mughal | None | WETCHEM_PIPETTE_3 (WC) | Iwona Zarych 06/10/2025 |

**FROM** 2.50000ml of WP113432 + 47.50000ml of WP111294 = 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 |
|---|---|---|---|---|---|---|---|---|
| 6 | Calibration Standard 100 ppb | WP113435 | 06/09/2025 | 06/10/2025 | Rubina Mughal | None | WETCHEM_PIPETTE_3 (WC) | Iwona Zarych 06/10/2025 |

**FROM** 1.00000ml of WP113432 + 49.00000ml of WP111294 = Final Quantity: 50.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 7 | Calibration Standard 50 ppb | WP113436 | 06/09/2025 | 06/10/2025 | Rubina Mughal | None | WETCHEM_PIPETTE_3 (WC) | Iwona Zarych 06/10/2025 |

**FROM** 0.50000ml of WP113432 + 49.50000ml of WP111294 = 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 |
|---|---|---|---|---|---|---|---|---|
| 8 | Calibration Standard 10 ppb | WP113437 | 06/09/2025 | 06/10/2025 | Rubina Mughal | None | WETCHEM_PIPETTE_3 (WC) | Iwona Zarych 06/10/2025 |

**FROM** 1.00000ml of WP113433 + 49.00000ml of WP111294 = Final Quantity: 50.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 9 | Calibration Standard 5 ppb | WP113438 | 06/09/2025 | 06/10/2025 | Rubina Mughal | None | WETCHEM_PIPETTE_3 (WC) | Iwona Zarych 06/10/2025 |

**FROM** 0.50000ml of WP113433 + 49.50000ml of WP111294 = 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 |
|---|---|---|---|---|---|---|---|---|
| 167 | 0 ppb CN calibration std | WP113439 | 06/09/2025 | 06/10/2025 | Rubina Mughal | None | None | Iwona Zarych 06/10/2025 |

**FROM** 50.00000ml of WP111294 = Final Quantity: 50.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1582 | Chloramine T solution, 0.014M | WP113441 | 06/09/2025 | 06/10/2025 | Rubina Mughal | WETCHEM_SCALE_5 (WCSC-5) | Glass Pipette-A | Iwona Zarych 06/10/2025 |

**FROM** 0.08000gram of W3139 + 20.00000ml of W3112 = Final Quantity: 20.000 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 # |
|---|---|---|---|---|---|---|
| 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, CRYS, 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 # |
|---|---|---|---|---|---|---|
| EPA | / ICV-CN | ICV6-400 | 12/31/2025 | 01/08/2025 / Iwona | 02/20/2020 / Iwona | W3012 |

| 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 / Iwona | 04/03/2023 / Iwona | W3019 |

| 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 |

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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. | PC19510-7 / Sodium Hydroxide Pellets 12 Kg | 23B1556310 | 12/31/2025 | 07/08/2024 / Iwona | 07/08/2024 / Iwona | 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 / Iwona | 09/09/2024 / Iwona | W3139 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| PCI Scientific Supply, Inc. | 01237-10KG / Megnasium Chloride Hexahydrate ACS 10KG | 002126-2019-201 | 11/25/2029 | 11/25/2024 / Iwona | 11/25/2024 / Iwona | W3152 |

| 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 | 45010168 | 07/17/2025 | 01/24/2025 / Iwona | 01/24/2025 / Iwona | W3173 |

| 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 | WXBF3271V | 05/16/2029 | 04/21/2025 / Iwona | 04/21/2025 / Iwona | W3203 |

| 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 / Iwona | 05/21/2025 / Iwona | W3214 |

Sigma-Aldrich.

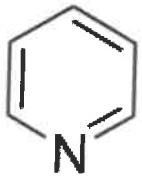
W3019
Rec 4/3/23

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 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

For ICP-MS use: dilute the ICV1 concentrate 50-fold with 1% (v/v) nitric acid; pipet 2 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

W3011
W3012
W3013
W3014
W3015

**ICV5-0415** For the cold vapor analysis of mercury by AA: dilute the ICV5 concentrate 100-fold with 2% (v/v) nitric acid; pipet 1 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

**ICV6-0400** For the analysis of cyanide: dilute the ICV6 concentrate 100-fold with Type II water; pipet 1 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

**NOTE:** USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

## (D) *CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS*

| ICV1-1014 | | |
|---|---|---|
| **Element** | **Concentration (µg/L) (after 10-fold dilution)** | **Concentration (µg/L) (after 50-fold dilution)** |
| **Al** | 2520 | 504 |
| **Sb** | 1010 | 202 |
| **As** | 997 | 199 |
| **Ba** | 518 | 104 |
| **Be** | 514 | 103 |
| **Cd** | 514 | 103 |
| **Ca** | 10000 | 2000 |
| **Cr** | 517 | 103 |
| **Co** | 521 | 104 |
| **Cu** | 505 | 101 |
| **Fe** | 10100 | 2020 |
| **Pb** | 1030 | 206 |
| **Mg** | 5990 | 1198 |
| **Mn** | 524 | 105 |
| **Ni** | 525 | 105 |
| **K** | 9940 | 1988 |
| **Se** | 1030 | 206 |
| **Ag** | 252 | 50 |
| **Na** | 10100 | 2020 |
| **Tl** | 1040 | 208 |
| **V** | 504 | 101 |
| **Zn** | 1010 | 202 |

| ICV5-0415 | | ICV6-0400 | |
|---|---|---|---|
| **Element** | **Concentration (µg/L) (after 100-fold dilution)** | **Analyte** | **Concentration (µg/L) (after 100-fold dilution)** |
| **Hg** | 4.0 | **$CN^-$** | 99 |

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

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

avantor™ | J.T.Baker®

M6151

R→ 1/15/25

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

avantor™ | J.T.Baker®

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™ | J.T.Baker®

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

James T Ethier

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 ($NaH_2PO_4 \cdot H_2O$) | 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

# 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.

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 |

# *Chem-Impex International, Inc.*

**Tel: (630) 766-2112**
**E-mail: sales@chemimpex.com**
**Shipping and Correspondence:**
935 Dillon Drive
Wood Dale, IL 60191

**Fax: (630) 766-2218**
**Web site: www.chemimpex.com**
**Manufacturing site:**
825 Dillon Drive
Wood Dale, IL 60191

## *Certificate of Analysis*

| | |
|---|---|
| **Catalogue Number** | 01237 |
| **Lot Number** | 002126-2019-201 |
| **Product** | **Magnesium chloride hexahydrate** |
| | Magnesium chloride•$6H_2O$ |
| **CAS Number** | 7791-18-6 |
| **Molecular Formula** | $MgCl_2$•$6H_2O$ |
| **Molecular Weight** | 203.3 |

| | |
|---|---|
| **Appearance** | White crystals |
| **Solubility** | 167 g in 100 mL water |
| **Melting Point** | ~ 115 °C |
| **Heavy Metals** | 4.393 ppm |
| **Anion** | Nitrate ($NO_3$) : < 0.001%<br>Phosphate ($PO_4$) : < 5 ppm<br>Sulfate ($SO_4$) : < 0.002% |
| **Cation** | Ammonium ($NH_4$) : < 0.002%<br>Barium (Ba) : 0.005%<br>Calcium (Ca) : 0.01%<br>Iron (Fe) : 4.5 ppm<br>Manganese (Mn) : 0.624 ppm<br>Potassium (K) : 0.004%<br>Sodium (Na) : 0.000003%<br>Strontium (Sr) : 0.005% |
| **Insoluble material** | 0.0021% |
| **Assay by titration** | 100.83% |
| **Grade** | ACS reagent |
| **Storage** | Store at RT |

# *Certificate of Analysis*

**Catalog Number: 01237** **Lot Number: 002126-2019-201**

| | |
|---|---|
| **Remarks** | See material safety data sheet for additional information |
| | For laboratory use only |

**The foregoing is a copy of the Certificate of Analysis as provided by our supplier**

**Bala Kumar**
**Quality Control Manager**

LabChem
Part of TCP Analytical Group
Jackson's Pointe Commerce Park- Building 1000
1010 Jackson's Pointe Court, Zelienople, PA 16063

# Certificate of Analysis

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

Product Code: **LC13545**

Manufacture Date: January 16, 2025

Lot Number: **45010168**

Expiration Date: July 17, 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 or g | 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

*Michael Monteleone*
*Chemistry Supervisor - Quality Control*

*ISO9001:2015 Registration #0306-01*

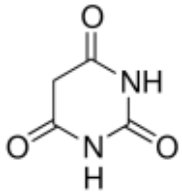
2025011610:36:11bsturges-0-0

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 Name:
Barbituric acid - ReagentPlus® , 99%

| | |
|---|---|
| **Product Number:** | **185698** |
| **Batch Number:** | **WXBF3271V** |
| 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 %)<br>VPCT | ≥ 98 % | 100 % |

Kang Chen
Quality Manager
Wuxi , China CN

RICCA CHEMICAL COMPANY®

W3214 Received on 5/21/25 by IZ

448 West Fork Dr
Arlington, TX 76012
http://www.riccachemical.com
1-888-GO-RICCA
customerservice@riccachemical.com

# 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 certifiec 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)

Ernest Mahan (05/08/2025)
Plant Manager

# PERCENT SOLID

**Supervisor:** Iwona
**Analyst:** jignesh
**Date:** 6/9/2025

**OVENTEMP IN Celsius(°C):** 108
**Time IN:** 17:25
**In Date:** 06/06/2025
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN#1

**OVENTEMP OUT Celsius(°C):** 103
**Time OUT:** 08:27
**Out Date:** 06/07/2025
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** % SOLID- OVEN

**QC:** LB136040

| 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 |
|---|---|---|---|---|---|---|---|---|
| Q2246-01 | BU-03-060525 | 1 | 1.15 | 10.12 | 11.27 | 11.17 | 99.0 | |
| Q2246-02 | BU-03-060525 | 2 | 1.19 | 10.04 | 11.23 | 11.1 | 98.7 | |
| Q2247-01 | GAS-PIPE-1 | 3 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | wipe sample |
| Q2247-02 | GAS-PIPE-2 | 4 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | wipe sample |
| Q2248-01 | TR-05-060525 | 5 | 1.18 | 10.36 | 11.54 | 10.88 | 93.6 | |
| Q2248-02 | TR-05-060525-E2 | 6 | 1.13 | 10.59 | 11.72 | 10.74 | 90.7 | |
| Q2251-07 | BP-VPB-182-GW-780-782 | 7 | 1.12 | 10.70 | 11.82 | 2.46 | 12.5 | sludge sample |
| Q2258-05 | SVOC-GPC-BLANK | 8 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| Q2258-06 | PEST-GPC-BLANK | 9 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| Q2258-07 | PEST-GPC-BLANK-SPIKE | 10 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| Q2258-08 | PCB-GPC-BLANK | 11 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| Q2258-09 | PCB-GPC-BLANK-SPIKE | 12 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| Q2258-10 | SVOC-GPC2-BLANK | 13 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| Q2258-11 | PEST-GPC2-BLANK | 14 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| Q2258-12 | PEST-GPC2-BLANK-SPIKE | 15 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| Q2258-13 | PCB-GPC2-BLANK | 16 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| Q2258-14 | PCB-GCP2-BLANK-SPIKE | 17 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| Q2259-01 | OU4-PCS-TC-36-060525 | 18 | 1.14 | 10.79 | 11.93 | 11.31 | 94.3 | |
| Q2259-03 | OU4-PCS-TC-37-060525 | 19 | 1.14 | 10.14 | 11.28 | 10.7 | 94.3 | |
| Q2259-05 | OU4-TS-29-060525 | 20 | 1.18 | 10.17 | 11.35 | 8.87 | 75.6 | |
| Q2259-06 | OU4-TS-30-060525 | 21 | 1.14 | 10.73 | 11.87 | 9.62 | 79.0 | |
| Q2260-01 | TP10-MHG-WC | 22 | 1.13 | 10.84 | 11.97 | 10.95 | 90.6 | |
| Q2260-02 | TP10-MHG-VOC | 23 | 1.16 | 10.66 | 11.82 | 10.84 | 90.8 | |
| Q2260-03 | TP10-MHG-EPH | 24 | 1.13 | 10.75 | 11.88 | 10.68 | 88.8 | |
| Q2262-01 | ARS20-0032 | 25 | 1.14 | 11.40 | 12.54 | 12.22 | 97.2 | |
| Q2262-03 | ARS20-0001 | 26 | 1.18 | 9.85 | 11.03 | 10.38 | 93.4 | |
| Q2265-01 | TP-MHL-WC | 27 | 1.15 | 10.83 | 11.98 | 10.43 | 85.7 | |
| Q2265-02 | TP-MHL-VOC | 28 | 1.14 | 10.32 | 11.46 | 9.7 | 82.9 | |

# PERCENT SOLID

**Supervisor:** Iwona
**Analyst:** jignesh
**Date:** 6/9/2025

**OVENTEMP IN Celsius(°C):** 108
**Time IN:** 17:25
**In Date:** 06/06/2025
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN#1

**OVENTEMP OUT Celsius(°C):** 103
**Time OUT:** 08:27
**Out Date:** 06/07/2025
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** % SOLID- OVEN

**QC:** LB136040

| 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 |
|---|---|---|---|---|---|---|---|---|
| Q2265-03 | TP-MHL-EPH | 29 | 1.18 | 10.48 | 11.66 | 9.77 | 82.0 | |
| Q2266-01 | WC-3 | 30 | 1.16 | 10.74 | 11.9 | 10.68 | 88.6 | |
| Q2266-02 | WC-3-EPH | 31 | 1.15 | 11.18 | 12.33 | 10.15 | 80.5 | |
| Q2266-03 | WC-3-VOC | 32 | 1.13 | 10.74 | 11.87 | 10.02 | 82.8 | |
| Q2266-05 | WC-4 | 33 | 1.19 | 10.47 | 11.66 | 10.36 | 87.6 | |
| Q2266-06 | WC-4-EPH | 34 | 1.15 | 10.46 | 11.61 | 10.31 | 87.6 | |
| Q2266-07 | WC-4-VOC | 35 | 1.19 | 10.71 | 11.9 | 10.74 | 89.2 | |

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

# WORKLIST(Hardcopy Internal Chain)

VP 136040

**WorkList Name :** %1-060625 **WorkList ID :** 189986 **Department :** Wet-Chemistry **Date :** 06-06-2025 08:11:33

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q2246-01 | BU-03-060525 | Solid | Percent Solids | Cool 4 deg C | PSEG05 | D11 | 06/05/2025 | Chemtech -SO |
| Q2246-02 | BU-03-060525 | Solid | Percent Solids | Cool 4 deg C | PSEG05 | D11 | 06/05/2025 | Chemtech -SO |
| Q2247-01 | GAS-PIPE-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D11 | 06/05/2025 | Chemtech -SO |
| Q2247-02 | GAS-PIPE-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D11 | 06/05/2025 | Chemtech -SO |
| Q2248-01 | TR-05-060525 | Solid | Percent Solids | Cool 4 deg C | PSEG05 | D11 | 06/05/2025 | Chemtech -SO |
| Q2248-02 | TR-05-060525-E2 | Solid | Percent Solids | Cool 4 deg C | PSEG05 | D11 | 06/05/2025 | Chemtech -SO |
| Q2251-07 | BP-VPB-182-GW-780-782 | Solid | Percent Solids | Cool 4 deg C | TETR06 | L31 | 06/04/2025 | Chemtech -SO |
| Q2258-05 | SVOC-GPC-BLANK | Solid | Percent Solids | Cool 4 deg C | CHEM02 | D31 | 05/30/2025 | Chemtech -SO |
| Q2258-06 | PEST-GPC-BLANK | Solid | Percent Solids | Cool 4 deg C | CHEM02 | D31 | 05/30/2025 | Chemtech -SO |
| Q2258-07 | PEST-GPC-BLANK-SPIKE | Solid | Percent Solids | Cool 4 deg C | CHEM02 | D31 | 05/30/2025 | Chemtech -SO |
| Q2258-08 | PCB-GPC-BLANK | Solid | Percent Solids | Cool 4 deg C | CHEM02 | D31 | 05/30/2025 | Chemtech -SO |
| Q2258-09 | PCB-GPC-BLANK-SPIKE | Solid | Percent Solids | Cool 4 deg C | CHEM02 | D31 | 05/30/2025 | Chemtech -SO |
| Q2258-10 | SVOC-GPC2-BLANK | Solid | Percent Solids | Cool 4 deg C | CHEM02 | D31 | 05/30/2025 | Chemtech -SO |
| Q2258-11 | PEST-GPC2-BLANK | Solid | Percent Solids | Cool 4 deg C | CHEM02 | D31 | 05/30/2025 | Chemtech -SO |
| Q2258-12 | PEST-GPC2-BLANK-SPIKE | Solid | Percent Solids | Cool 4 deg C | CHEM02 | D31 | 05/30/2025 | Chemtech -SO |
| Q2258-13 | PCB-GPC2-BLANK | Solid | Percent Solids | Cool 4 deg C | CHEM02 | D31 | 05/30/2025 | Chemtech -SO |
| Q2258-14 | PCB-GCP2-BLANK-SPIKE | Solid | Percent Solids | Cool 4 deg C | CHEM02 | D31 | 05/30/2025 | Chemtech -SO |
| Q2259-01 | OU4-PCS-TC-36-060525 | Solid | Percent Solids | Cool 4 deg C | NOBI03 | D21 | 06/05/2025 | Chemtech -SO |
| Q2259-03 | OU4-PCS-TC-37-060525 | Solid | Percent Solids | Cool 4 deg C | NOBI03 | D21 | 06/05/2025 | Chemtech -SO |
| Q2259-05 | OU4-TS-29-060525 | Solid | Percent Solids | Cool 4 deg C | NOBI03 | D21 | 06/05/2025 | Chemtech -SO |
| Q2259-06 | OU4-TS-30-060525 | Solid | Percent Solids | Cool 4 deg C | NOBI03 | D21 | 06/05/2025 | Chemtech -SO |

**Date/Time** 06/06/25 15:20

**Raw Sample Received by:**

**Raw Sample Relinquished by:** SH

**Date/Time** 06/06/25 17:30

**Raw Sample Received by:** SH

**Raw Sample Relinquished by:**

# WORKLIST(Hardcopy Internal Chain)

VB136040

**WorkList Name :** %1-060625 **WorkList ID :** 189986 **Department :** Wet-Chemistry **Date :** 06-06-2025 08:11:33

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q2260-01 | TP10-MHG-WC | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D31 | 06/06/2025 | Chemtech -SO |
| Q2260-02 | TP10-MHG-VOC | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D31 | 06/06/2025 | Chemtech -SO |
| Q2260-03 | TP10-MHG-EPH | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D31 | 06/06/2025 | Chemtech -SO |
| Q2262-01 | ARS20-0032 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | N31 | 06/06/2025 | Chemtech -SO |
| Q2262-03 | ARS20-0001 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | N31 | 06/06/2025 | Chemtech -SO |
| Q2265-01 | TP-MHL-WC | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D41 | 06/06/2025 | Chemtech -SO |
| Q2265-02 | TP-MHL-VOC | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D41 | 06/06/2025 | Chemtech -SO |
| Q2265-03 | TP-MHL-EPH | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D41 | 06/06/2025 | Chemtech -SO |
| Q2266-01 | WC-3 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D41 | 06/06/2025 | Chemtech -SO |
| Q2266-02 | WC-3-EPH | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D41 | 06/06/2025 | Chemtech -SO |
| Q2266-03 | WC-3-VOC | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D41 | 06/06/2025 | Chemtech -SO |
| Q2266-05 | WC-4 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D41 | 06/06/2025 | Chemtech -SO |
| Q2266-06 | WC-4-EPH | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D41 | 06/06/2025 | Chemtech -SO |
| Q2266-07 | WC-4-VOC | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D41 | 06/06/2025 | Chemtech -SO |



**Date/Time** 06/06/25 15:20
**Raw Sample Received by:** SB WC
**Raw Sample Relinquished by:** SM



**Date/Time** 06/06/25 17:30
**Raw Sample Received by:** SM
**Raw Sample Relinquished by:** WC

# SHIPPING DOCUMENTS

Q2259

# Chemtech

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

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

Doc # 381 Rev 4_01/08/2020

39 Spruce Street
East Longmeadow, MA 01028

Page __1__ of __1__

| | |
|---|---|
| Company Name: | Nobis Group |
| Address: | 55 Technology Dr Suite 101, Lowell, MA 01851 |
| Phone: | 978-703-6014 |
| Project Name: | Raymark |
| Project Location: | Stratford, CT |
| Project Number: | 95700 |
| Project Manager: | Adam Roy |
| Con-Test Quote Name/Number: | |
| Invoice Recipient: | |
| Sampled By: | B. Fortier |

**Requested Turnaround Time**
5-Day ☐ 10-Day ☑
PFAS 10-Day (std) ☐ Due Date:

**Rush-Approval Required**
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

**Data Delivery**
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐ No
Email To: aroy@nobis-group.com
Fax To #:

**Dissolved Metals Samples**
○ Field Filtered
○ Lab to Filter

**Orthophosphate Samples**
○ Field Filtered
○ Lab to Filter

**PCB ONLY**
SOXHLET ☑
NON SOXHLET ☐

ANALYSIS REQUESTED

| Con-Test Work Order# | Client Sample ID / Description | Beginning Date/Time | Ending Date/Time | COMP/GRAB | [1]Matrix Code | Conc Code | VIALS | GLASS | PLASTIC | BACTERIA | ENCORE | M/O | RCP VOCs | % Solids | PAHs | Herbicides | Pesticides | PCBs | Metals ICP + Hg - 6010 | Cyanide | SPLP RCP Metals - 6020 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | OU4-PCS-TC-36-060525 | 6/5/25 | 11:25 | G | SO | | 3 | 2 | 1 | | | | X | X | X | X | X | X | X | X | X |
| | OU4-PCS-TC-37-060525 | 6/5/25 | 11:35 | G | SO | | 3 | 2 | 1 | | | | X | X | X | X | X | X | X | X | X |
| | OU4-TS-29-060525 | 6/5/25 | 13:30 | G | SO | | | 1 | | | | | | | | | | | X | | |
| | OU4-TS-30-060525 | 6/5/25 | 13:35 | G | SO | | | 1 | | | | | | | | | | | X | | |

[2] Preservation Code

Total Number Of:
VIALS_____
GLASS_____
PLASTIC_____
BACTERIA_____
ENCORE_____

Glassware in the fridge? Y / N

Glassware in freezer? Y / N

Prepackaged Cooler? Y / N

*Contest is not responsible for missing samples from prepacked coolers

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

| | | |
|---|---|---|
| Relinquished by: (signature) | Date/Time: 6/5/25 13:45 | Client Comments: |
| Received by: (signature) Cooler | Date/Time: 6/5/25 13:45 | |
| Relinquished by: (signature) FedEx | Date/Time: 6/6/25 1004 | |
| Received by: (signature) | Date/Time: 6/6/25 1004 | |
| Relinquished by: (signature) | Date/Time: | |
| Received by: (signature) | Date/Time: | |
| Relinquished by: (signature) | Date/Time: | |
| Received by: (signature) | Date/Time: | |

**Detection Limit Requirements**
MA
CT
Other:

**Special Requirements**
☐ MA MCP Required
MCP Certification Form Required
☑ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

NELAC and AIHA-LAP, LLC Accredited

**Project Entity**
Government ☐ Municipality ☐ MWRA ☐ WRTA ☐
Federal ☐ 21 J ☐ School ☐
City ☐ Brownfield ☐ MBTA ☐

**Other**
☐ Chromatogram
☐ *AIHA-LAP,LLC*

Lab Comments: 3.4°C

**Disclaimer:** Con-Test Labs is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Con-Test values your partnership on each project and will try to assist with missing information, but will not be held accountable.

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 |

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

# LOGIN REPORT/SAMPLE TRANSFER

| | | | | | |
|---|---|---|---|---|---|
| **Order ID :** | Q2259 NOBI03 | **Order Date :** | 6/6/2025 10:57:00 AM | **Project Mgr :** | |
| **Client Name :** | Nobis Group | **Project Name :** | Raymark Superfund Site | **Report Type :** | Level 4 |
| **Client Contact :** | Adam Roy | **Receive DateTime :** | 6/6/2025 10:04:00 AM | **EDD Type :** | EQUIS |
| **Invoice Name :** | Nobis Group | **Purchase Order :** | | **Hard Copy Date :** | |
| **Invoice Contact :** | Adam Roy | | | **Date Signoff :** | |

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| Q2259-01 | OU4-PCS-TC-36-060525 | Solid | 06/05/2025 | 11:25 | | | | | |
| | | | | | VOCMS Group3 | | 8260D | 10 Bus. Days | |
| Q2259-03 | OU4-PCS-TC-37-060525 | Solid | 06/05/2025 | 11:35 | | | | | |
| | | | | | VOCMS Group3 | | 8260D | 10 Bus. Days | |

**Relinguished By :** [signature]
**Date / Time :** 6/6/25 1136

**Received By :** [signature]
**Date / Time :** 06/06/25 11:36
**Storage Area :** VOA Refridgerator Room