

DATA PACKAGE

GENERAL CHEMISTRY

PROJECT NAME : NJ SOIL PT

ALLIANCE TECHNICAL GROUP, LLC - NEWARK

284 Sheffiled Stree

Suite 1

Mountainside, NJ - 07092

Phone No: 908-789-8900

ORDER ID : Q1872

ATTENTION : Mohammad Ahmed



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q1872

Project ID : NJ Soil PT

Client : Alliance Technical Group, LLC - Newark

Lab Sample Number

Q1872-01
Q1872-02
Q1872-03
Q1872-04
Q1872-05
Q1872-06
Q1872-07
Q1872-08
Q1872-09
Q1872-10
Q1872-11
Q1872-12
Q1872-13
Q1872-14
Q1872-15
Q1872-16
Q1872-17
Q1872-18
Q1872-19
Q1872-20
Q1872-21
Q1872-22
Q1872-23
Q1872-24
Q1872-25

Client Sample Number

HW0425-PT-AN-SOIL
HW0425-PT-CORR-SOIL
HW0425-PT-CN-SOIL
HW0425-PT-CN-SOIL
HW0425-PT-FP-SOIL
HW0425-PT-CR6-SOIL
HW0425-PT-NUT-SOIL
HW0425-PT-NUT-SOIL
HW0425-PT-OGR-SOIL
HW0425-PT-MET-SOIL
HW0425-PT-BNA-SOIL
HW0425-PT-TRIAZINE-SOIL
HW0425-PT-PAH-SOIL
HW0425-PT-DIES-SOIL
HW0425-PT-GAS-SOIL
HW0425-PT-NJEPH-SOIL
HW0425-PT-HERB-SOIL
HW0425-PT-PCB-SOIL
HW0425-PT-PCBO-SOIL
HW0425-PT-PEST-SOIL
HW0425-PT-CHLR-SOIL
HW0425-PT-TXP-SOIL
HW0425-PT-VOA-SOIL
HW0425-PT-SOL-SOIL
HW0425-PT-NO2-SOIL

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

Signature :

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 9:53 am, Jul 23, 2025

Date: 5/30/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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

CASE NARRATIVE

Alliance Technical Group, LLC - Newark

Project Name: NJ Soil PT

Project # N/A

Order ID # Q1872

Test Name: Ammonia, Anions Group1, Anions Group2, Corrosivity, Cyanide, Flash Point, Hexavalent Chromium, Oil and Grease, Phosphorus, Total, TKN, TOC, TS

A. Number of Samples and Date of Receipt:

24 Solid samples were received on 04/24/2025.

1 Solid sample was received on 04/28/2025.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group1, Anions Group2, Corrosivity, Cyanide, Diesel Range Organics, EPH, Flash Point, Gasoline Range Organics, Herbicide Group1, Hexavalent Chromium, Mercury, Metals Group3, Metals ICP-Group1, Oil and Grease, PCB, PESTICIDE Group1, PESTICIDE Group2, PESTICIDE Group3, Phosphorus, Total, SVOCMS Group1, SVOCMS Group2, SVOCMS Group3, SVOCMS Group4, SVOCMS Group5, TKN, TOC, TS and VOCMS Group1. This data package contains results for Ammonia, Anions Group1, Anions Group2, Corrosivity, Cyanide, Flash Point, Hexavalent Chromium, Oil and Grease, Phosphorus, Total, TKN, TOC, TS.

C. Analytical Techniques:

The analysis of Flash Point was based on method 1010B, The analysis of Hexavalent Chromium was based on method 7196A, The analysis of Cyanide was based on method 9012B, The analysis of Cyanide was based on method 9014, The analysis of Corrosivity was based on method 9045D, The analysis of Anions Group1, Anions Group2 was based on method 9056A, The analysis of TOC was based on method 9060A, The analysis of Oil and Grease was based on method 9071B, The analysis of TOC was based on method Lloyd Kahn, The analysis of TS was based on method SM2540 B, The analysis of TKN was based on method SM4500 N Org B or C and The analysis of Ammonia was based on method SM4500-NH3.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

Sample HW0425-PT-AN-SOIL was diluted due to high concentrations for Chloride, Fluoride, Nitrate, Orthophosphate as P, Sulfate

& Sample HW0425-PT-AN-SOILDL was diluted due to high concentrations for Chloride, Nitrate, Sulfate

& Sample HW0425-PT-CN-SOIL was diluted due to high concentrations for Cyanide

& Sample HW0425-PT-CN-SOIL was diluted due to high concentrations for Cyanide



& Sample HW0425-PT-CR6-SOIL was diluted due to high concentrations for Hexavalent Chromium

& Sample HW0425-PT-NUT-SOIL was diluted due to high concentrations for Ammonia as N,TKN,Phosphorus, Total.

Sample HW0425-PT-NO2-SOIL was diluted due to high concentrations for Nitrite.

The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Matrix Spike (WC-A4-03-CMS) analysis met criteria for all samples except for Oil and Grease due to matrix interference.

The Matrix Spike Duplicate (WC-A4-03-CMSD) analysis met criteria for all samples except for Oil and Grease due to matrix interference.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

E. Additional Comments:

Lab has used least representable sample weight for the samples Q1872-07 and Q1872-08 for TOC analysis. Therefore Lab has reported the TOC result with "OR" qualifier.

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.

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 9:53 am, Jul 23, 2025

Signature _____

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following “ Results Qualifiers” are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers “P” for ICP instrument “PM” for ICP when Microwave Digestion is used “CV” for Manual Cold Vapor AA “AV” for automated Cold Vapor AA “CA” for MIDI-Distillation Spectrophotometric “AS” for Semi -Automated Spectrophotometric “C” for Manual Spectrophotometric “T” for Titrimetric “NR” for analyte not required to be analyzed
OR	Indicates the analyte’s concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

GENERAL CHEMISTRY CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q1872

MATRIX: Solid

METHOD:

1010B,365.3,7196A,9012B,9014,9045D,9056A,9060A,9071B,Lloyd Kahn,SM2540 B,SM4500 N Org B or C,SM4500-NH3

	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. The Matrix Spike (WC-A4-03-CMS) analysis met criteria for all samples except for Oil and Grease due to matrix interference. The Matrix Spike Duplicate (WC-A4-03-CMSD) analysis met criteria for all samples except for Oil and Grease due to matrix interference.			
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:			
The Holding Times were met for all analysis.			

ADDITIONAL COMMENTS: Lab has used least representable sample weight for the samples Q1872-07 and Q1872-08 for TOC analysis. Therefore Lab has reported the TOC result with "OR" qualifier.

REVIEWED

QA REVIEW

By Sohil Jodhani, QA/QC Director at 8:41 am, Jul 23, 2025

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1872

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 05/30/2025

LAB CHRONICLE

OrderID:	Q1872	OrderDate:	4/24/2025 1:26:50 PM
Client:	Alliance Technical Group, LLC - Newark	Project:	NJ Soil PT
Contact:	Mohammad Ahmed	Location:	QA Office, VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1872-01	HW0425-PT-AN-SOIL	SOIL			04/21/25 10:00			04/24/25
			Anions Group1	9056A			04/29/25 15:39	
Q1872-01DL	HW0425-PT-AN-SOIL DL	SOIL			04/21/25 10:00			04/24/25
			Anions Group1	9056A			04/29/25 13:02	
Q1872-01DL 2	HW0425-PT-AN-SOIL DL2	SOIL			04/21/25 10:00			04/24/25
			Anions Group1	9056A			04/29/25 13:25	
Q1872-02	HW0425-PT-CORR-SO IL	SOIL			04/21/25 10:00			04/24/25
			Corrosivity	9045D			05/07/25 15:20	
Q1872-03	HW0425-PT-CN-SOIL	SOIL			04/21/25 10:00			04/24/25
			Cyanide	9012B		05/06/25	05/07/25 11:37	
Q1872-03DL	HW0425-PT-CN-SOIL DL	SOIL			04/21/25 10:00			04/24/25
			Cyanide	9012B		05/06/25	05/07/25 12:09	
Q1872-04	HW0425-PT-CN-SOIL	SOIL			04/21/25 10:00			04/24/25
			Cyanide	9014		05/06/25	05/07/25 13:16	

LAB CHRONICLE

Q1872-04DL	HW0425-PT-CN-SOIL DL	SOIL			04/21/25 10:00		04/24/25
			Cyanide	9014		05/06/25	05/07/25 13:16
Q1872-05	HW0425-PT-FP-SOIL	SOIL			04/21/25 10:00		04/24/25
			Flash Point	1010B			05/08/25 09:00
Q1872-06	HW0425-PT-CR6-SOIL	SOIL			04/21/25 10:00		04/24/25
			Hexavalent Chromium	7196A		05/28/25	05/28/25 12:54
Q1872-06DL	HW0425-PT-CR6-SOIL DL	SOIL			04/21/25 10:00		04/24/25
			Hexavalent Chromium	7196A		05/28/25	05/28/25 13:06
Q1872-07	HW0425-PT-NUT-SOI L	SOIL			04/21/25 10:00		04/24/25
			Ammonia	SM4500-NH3		04/30/25	04/30/25 14:13
			Phosphorus, Total	365.3		05/28/25	05/28/25 15:36
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		05/13/25	05/15/25 11:18
			TOC	9060A			05/27/25 10:19
Q1872-07DL	HW0425-PT-NUT-SOI LDL	SOIL			04/21/25 10:00		04/24/25
			Ammonia	SM4500-NH3		04/30/25	04/30/25 14:13
			Phosphorus, Total	365.3		05/28/25	05/28/25 15:43

LAB CHRONICLE

TKN	SM4500-N Org C-11 plus NH3 B plus G-11	05/13/25	05/15/25 12:13
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Q1872-08	HW0425-PT-NUT-SOI L	SOIL	04/21/25 10:00	04/24/25
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TOC	Lloyd Kahn		05/27/25 10:19
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Q1872-09	HW0425-PT-OGR-SOI L	SOIL	04/21/25 10:00	04/24/25
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Oil and Grease	9071B		05/14/25 10:40
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Q1872-24	HW0425-PT-SOL-SOIL	SOIL	04/21/25 10:00	04/24/25
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TS	SM2540 B		04/28/25 11:00
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Q1872-25	HW0425-PT-NO2-SOI L	SOIL	04/21/25 10:00	04/24/25
-----------------	--------------------------------	-------------	---------------------------	-----------------

Anions Group2	9056A		04/29/25 14:11
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Q1872-25DL	HW0425-PT-NO2-SOI LDL	SOIL	04/21/25 10:00	04/24/25
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Anions Group2	9056A		04/29/25 14:56
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SAMPLE DATA

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25 10:00
Project:	NJ Soil PT	Date Received:	04/24/25
Client Sample ID:	HW0425-PT-AN-SOIL	SDG No.:	Q1872
Lab Sample ID:	Q1872-01	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Bromide	26.1		1	1.80	10.0	mg/Kg		04/29/25 15:39	9056A
Chloride	901	OR	1	0.87	3.00	mg/Kg		04/29/25 15:39	9056A
Fluoride	40.3	OR	1	0.44	2.00	mg/Kg		04/29/25 15:39	9056A
Nitrate	210	OR	1	0.45	2.50	mg/Kg		04/29/25 15:39	9056A
Sulfate	2070	OR	1	2.20	15.0	mg/Kg		04/29/25 15:39	9056A
Orthophosphate as P	65.3	OR	1	1.70	5.00	mg/Kg		04/29/25 15:39	9056A

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25 10:00
Project:	NJ Soil PT	Date Received:	04/24/25
Client Sample ID:	HW0425-PT-AN-SOILDL	SDG No.:	Q1872
Lab Sample ID:	Q1872-01DL	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Chloride	769	OR	4	3.50	12.0	mg/Kg		04/29/25 13:02	9056A
Fluoride	73.1	D	4	1.80	8.00	mg/Kg		04/29/25 13:02	9056A
Nitrate	178	OR	4	1.80	10.0	mg/Kg		04/29/25 13:02	9056A
Sulfate	1750	OR	4	8.80	60.0	mg/Kg		04/29/25 13:02	9056A
Orthophosphate as P	104	D	4	6.70	20.0	mg/Kg		04/29/25 13:02	9056A

Comments:

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25 10:00
Project:	NJ Soil PT	Date Received:	04/24/25
Client Sample ID:	HW0425-PT-AN-SOILDL2	SDG No.:	Q1872
Lab Sample ID:	Q1872-01DL2	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Chloride	636	D	20	17.4	60.0	mg/Kg		04/29/25 13:25	9056A
Nitrate	170	D	20	9.00	50.0	mg/Kg		04/29/25 13:25	9056A
Sulfate	1600	D	20	43.9	300	mg/Kg		04/29/25 13:25	9056A

Comments: _____

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 OR = Over Range
 N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25 10:00
Project:	NJ Soil PT	Date Received:	04/24/25
Client Sample ID:	HW0425-PT-CORR-SOIL	SDG No.:	Q1872
Lab Sample ID:	Q1872-02	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	9.10		1	0	0	pH		05/07/25 15:20	9045D

Comments: pH result reported at temperature 21.2 °C

U = Not Detected

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LOD = Limit of Detection

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E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25 10:00
Project:	NJ Soil PT	Date Received:	04/24/25
Client Sample ID:	HW0425-PT-CN-SOIL	SDG No.:	Q1872
Lab Sample ID:	Q1872-03	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	52.7	OR	1	0.042	0.25	mg/Kg	05/06/25 11:00	05/07/25 11:37	9012B

Comments:

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 OR = Over Range
 N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25 10:00
Project:	NJ Soil PT	Date Received:	04/24/25
Client Sample ID:	HW0425-PT-CN-SOILDL	SDG No.:	Q1872
Lab Sample ID:	Q1872-03DL	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	56.2	D	5	0.21	1.30	mg/Kg	05/06/25 11:00	05/07/25 12:09	9012B

Comments:

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25 10:00
Project:	NJ Soil PT	Date Received:	04/24/25
Client Sample ID:	HW0425-PT-CN-SOIL	SDG No.:	Q1872
Lab Sample ID:	Q1872-04	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	53.1	OR	1	0.042	0.25	mg/Kg	05/06/25 13:00	05/07/25 13:16	9014

Comments: _____

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25 10:00
Project:	NJ Soil PT	Date Received:	04/24/25
Client Sample ID:	HW0425-PT-CN-SOILDL	SDG No.:	Q1872
Lab Sample ID:	Q1872-04DL	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	57.3	D	5	0.21	1.30	mg/Kg	05/06/25 13:00	05/07/25 13:16	9014

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25 10:00
Project:	NJ Soil PT	Date Received:	04/24/25
Client Sample ID:	HW0425-PT-FP-SOIL	SDG No.:	Q1872
Lab Sample ID:	Q1872-05	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Flash Point	117		1	0	0	o F		05/08/25 09:00	1010B

Comments: Other method reference for flash point : Pensky-Martens Closed Cup Flash Point ASTM D 93 - IP 34

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25 10:00
Project:	NJ Soil PT	Date Received:	04/24/25
Client Sample ID:	HW0425-PT-CR6-SOIL	SDG No.:	Q1872
Lab Sample ID:	Q1872-06	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	90.4	OR	1	0.070	0.40	mg/Kg	05/28/25 08:50	05/28/25 12:54	7196A

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25 10:00
Project:	NJ Soil PT	Date Received:	04/24/25
Client Sample ID:	HW0425-PT-CR6-SOILDL	SDG No.:	Q1872
Lab Sample ID:	Q1872-06DL	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	99.6	D	5	0.35	2.00	mg/Kg	05/28/25 08:50	05/28/25 13:06	7196A

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25 10:00
Project:	NJ Soil PT	Date Received:	04/24/25
Client Sample ID:	HW0425-PT-NUT-SOIL	SDG No.:	Q1872
Lab Sample ID:	Q1872-07	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Ammonia as N	1230	OR	1	2.20	5.00	mg/Kg	04/30/25 09:25	04/30/25 14:13	SM 4500-NH3 B plus G-11
Phosphorus, Total	163	OR	1	0.29	2.50	mg/Kg	05/28/25 11:45	05/28/25 15:36	365.3
TKN	2360	OR	1	9.40	25.0	mg/Kg	05/13/25 09:00	05/15/25 11:18	SM4500-N Org C-11 plus NH3 B plus G-11
TOC	13300	OR	1	28.9	250	mg/Kg		05/27/25 10:19	9060A

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25 10:00
Project:	NJ Soil PT	Date Received:	04/24/25
Client Sample ID:	HW0425-PT-NUT-SOILDL	SDG No.:	Q1872
Lab Sample ID:	Q1872-07DL	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Ammonia as N	1140	D	20	44.0	100	mg/Kg	04/30/25 09:25	04/30/25 14:13	SM 4500-NH3 B plus G-11
Phosphorus, Total	2440	D	100	29.0	250	mg/Kg	05/28/25 11:45	05/28/25 15:43	365.3
TKN	2720	D	10	94.0	250	mg/Kg	05/13/25 09:00	05/15/25 12:13	SM4500-N Org C-11 plus NH3 B plus 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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25 10:00
Project:	NJ Soil PT	Date Received:	04/24/25
Client Sample ID:	HW0425-PT-NUT-SOIL	SDG No.:	Q1872
Lab Sample ID:	Q1872-08	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
TOC	13300	OR	1	43.4	250	mg/Kg		05/27/25 10:19	Lloyd Kahn

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25 10:00
Project:	NJ Soil PT	Date Received:	04/24/25
Client Sample ID:	HW0425-PT-OGR-SOIL	SDG No.:	Q1872
Lab Sample ID:	Q1872-09	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Oil and Grease	819		1	5.80	25.0	mg/Kg		05/14/25 10:40	SW9071B

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25 10:00
Project:	NJ Soil PT	Date Received:	04/24/25
Client Sample ID:	HW0425-PT-SOL-SOIL	SDG No.:	Q1872
Lab Sample ID:	Q1872-24	Matrix:	SOIL
		% Solid:	76.7

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TS	76.5		1	1.00	5.00	%		04/28/25 11:00	SM 2540 B-15

Comments: _____

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

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H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25 10:00
Project:	NJ Soil PT	Date Received:	04/24/25
Client Sample ID:	HW0425-PT-NO2-SOIL	SDG No.:	Q1872
Lab Sample ID:	Q1872-25	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Nitrite	173	OR	1	1.50	12.0	mg/Kg		04/29/25 14:11	9056A

Comments:

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 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
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 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25 10:00
Project:	NJ Soil PT	Date Received:	04/24/25
Client Sample ID:	HW0425-PT-NO2-SOILDL	SDG No.:	Q1872
Lab Sample ID:	Q1872-25DL	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Nitrite	170	D	2	3.10	24.0	mg/Kg		04/29/25 14:56	9056A

Comments:

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 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
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J = Estimated Value
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QC RESULT SUMMARY

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Initial and Continuing Calibration Verification

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q1872

Project: NJ Soil PT

RunNo.: LB135612

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 Ammonia as N	mg/L	0.92	1	92	90-110	04/30/2025
Sample ID: CCV1 Ammonia as N	mg/L	0.94	1	94	90-110	04/30/2025
Sample ID: CCV2 Ammonia as N	mg/L	1	1	100	90-110	04/30/2025
Sample ID: CCV3 Ammonia as N	mg/L	0.97	1	97	90-110	04/30/2025

Initial and Continuing Calibration Verification

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q1872

Project: NJ Soil PT

RunNo.: LB135679

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Bromide	mg/L	10.2	10	102	90-110	04/22/2025
Chloride	mg/L	3.1	3	103	90-110	04/22/2025
Fluoride	mg/L	2	2	100	90-110	04/22/2025
Nitrite	mg/L	3.1	3	103	90-110	04/22/2025
Nitrate	mg/L	2.6	2.5	104	90-110	04/22/2025
Sulfate	mg/L	15.1	15	101	90-110	04/22/2025
Orthophosphate as P	mg/L	5.2	5	104	90-110	04/22/2025
Sample ID: CCV1						
Bromide	mg/L	10.5	10	105	90-110	04/29/2025
Chloride	mg/L	3.2	3	107	90-110	04/29/2025
Fluoride	mg/L	2.1	2	105	90-110	04/29/2025
Nitrite	mg/L	3.1	3	103	90-110	04/29/2025
Nitrate	mg/L	2.7	2.5	108	90-110	04/29/2025
Sulfate	mg/L	15.2	15	101	90-110	04/29/2025
Orthophosphate as P	mg/L	5.2	5	104	90-110	04/29/2025
Sample ID: CCV2						
Bromide	mg/L	10.5	10	105	90-110	04/29/2025
Chloride	mg/L	3.1	3	103	90-110	04/29/2025
Fluoride	mg/L	2.1	2	105	90-110	04/29/2025
Nitrite	mg/L	3.1	3	103	90-110	04/29/2025
Nitrate	mg/L	2.7	2.5	108	90-110	04/29/2025
Sulfate	mg/L	15.3	15	102	90-110	04/29/2025
Orthophosphate as P	mg/L	5.2	5	104	90-110	04/29/2025

Initial and Continuing Calibration Verification

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q1872

Project: NJ Soil PT

RunNo.: LB135693

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 Cyanide	mg/L	0.099	0.099	100	90-110	05/07/2025
Sample ID: CCV1 Cyanide	mg/L	0.25	0.25	100	90-110	05/07/2025
Sample ID: CCV2 Cyanide	mg/L	0.24	0.25	96	90-110	05/07/2025
Sample ID: CCV3 Cyanide	mg/L	0.25	0.25	100	90-110	05/07/2025
Sample ID: CCV4 Cyanide	mg/L	0.24	0.25	96	90-110	05/07/2025
Sample ID: CCV5 Cyanide	mg/L	0.25	0.25	100	90-110	05/07/2025

Initial and Continuing Calibration Verification

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q1872

Project: NJ Soil PT

RunNo.: LB135694

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 Cyanide	mg/L	0.096	0.099	97	90-110	05/07/2025
Sample ID: CCV1 Cyanide	mg/L	0.24	0.25	96	90-110	05/07/2025
Sample ID: CCV2 Cyanide	mg/L	0.24	0.25	96	90-110	05/07/2025

Initial and Continuing Calibration Verification

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q1872

Project: NJ Soil PT

RunNo.: LB135698

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV Corrosivity	pH	7.00	7	100	90-110	05/07/2025
Sample ID: CCV1 Corrosivity	pH	2.01	2.00	101	90-110	05/07/2025
Sample ID: CCV2 Corrosivity	pH	12.02	12.00	100	90-110	05/07/2025
Sample ID: CCV3 Corrosivity	pH	2.01	2.00	101	90-110	05/07/2025

Initial and Continuing Calibration Verification

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q1872

Project: NJ Soil PT

RunNo.: LB135703

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Flash Point	o F	82.4	81	102	78-84	05/08/2025

Initial and Continuing Calibration Verification

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q1872

Project: NJ Soil PT

RunNo.: LB135761

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 TOC	mg/L	1030	1000	103	90-110	03/14/2025
Sample ID: CCV1 TOC	mg/L	983	1000	98	90-110	05/27/2025
Sample ID: CCV2 TOC	mg/L	1040	1000	104	90-110	05/27/2025

Initial and Continuing Calibration Verification

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q1872

Project: NJ Soil PT

RunNo.: LB135787

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 TKN	mg/L	4.8	5	96	90-110	05/15/2025
Sample ID: CCV1 TKN	mg/L	4.8	5	96	90-110	05/15/2025
Sample ID: CCV2 TKN	mg/L	4.8	5	96	90-110	05/15/2025
Sample ID: CCV3 TKN	mg/L	5	5	100	90-110	05/15/2025

Initial and Continuing Calibration Verification

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q1872

Project: NJ Soil PT

RunNo.: LB135817

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 TOC	mg/L	1030	1000	103	90-110	03/14/2025
Sample ID: CCV1 TOC	mg/L	983	1000	98	90-110	05/27/2025
Sample ID: CCV2 TOC	mg/L	1040	1000	104	90-110	05/27/2025

Initial and Continuing Calibration Verification

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q1872

Project: NJ Soil PT

RunNo.: LB135933

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV Phosphorus, Total	mg/L	0.507	0.50	101	90-110	05/28/2025
Sample ID: CCV1 Phosphorus, Total	mg/L	0.501	0.50	100	90-110	05/28/2025
Sample ID: CCV2 Phosphorus, Total	mg/L	0.504	0.50	101	90-110	05/28/2025
Sample ID: CCV3 Phosphorus, Total	mg/L	0.492	0.50	98	90-110	05/28/2025

Initial and Continuing Calibration Verification

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q1872

Project: NJ Soil PT

RunNo.: LB135937

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV Hexavalent Chromium	mg/L	0.496	0.5	99	90-110	05/28/2025
Sample ID: CCV1 Hexavalent Chromium	mg/L	0.494	0.5	99	90-110	05/28/2025
Sample ID: CCV2 Hexavalent Chromium	mg/L	0.498	0.5	100	90-110	05/28/2025
Sample ID: CCV3 Hexavalent Chromium	mg/L	0.494	0.5	99	90-110	05/28/2025

Initial and Continuing Calibration Blank Summary

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q1872

Project: NJ Soil PT

RunNo.: LB135612

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	04/30/2025
Sample ID: CCB1 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	04/30/2025
Sample ID: CCB2 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	04/30/2025
Sample ID: CCB3 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	04/30/2025

Initial and Continuing Calibration Blank Summary

Client: Alliance Technical Group, LLC - Newark
Project: NJ Soil PT

SDG No.: Q1872
RunNo.: LB135679

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	04/22/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	04/22/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	04/22/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	04/22/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	04/22/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	04/22/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	04/22/2025
Sample ID: CCB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	04/29/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	04/29/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	04/29/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	04/29/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	04/29/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	04/29/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	04/29/2025
Sample ID: CCB2							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	04/29/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	04/29/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	04/29/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	04/29/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	04/29/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	04/29/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	04/29/2025

Initial and Continuing Calibration Blank Summary

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q1872

Project: NJ Soil PT

RunNo.: LB135693

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Cyanide	mg/L	0.0014	0.0025	J	0.00096	0.005	05/07/2025
Sample ID: CCB1 Cyanide	mg/L	0.0014	0.0025	J	0.00096	0.005	05/07/2025
Sample ID: CCB2 Cyanide	mg/L	0.0012	0.0025	J	0.00096	0.005	05/07/2025
Sample ID: CCB3 Cyanide	mg/L	0.0016	0.0025	J	0.00096	0.005	05/07/2025
Sample ID: CCB4 Cyanide	mg/L	0.0012	0.0025	J	0.00096	0.005	05/07/2025
Sample ID: CCB5 Cyanide	mg/L	0.0016	0.0025	J	0.00096	0.005	05/07/2025

Initial and Continuing Calibration Blank Summary

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q1872

Project: NJ Soil PT

RunNo.: LB135694

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Cyanide	mg/L	0.0013	0.0025	J	0.00096	0.005	05/07/2025
Sample ID: CCB1 Cyanide	mg/L	0.0014	0.0025	J	0.00096	0.005	05/07/2025
Sample ID: CCB2 Cyanide	mg/L	0.0013	0.0025	J	0.00096	0.005	05/07/2025

Initial and Continuing Calibration Blank Summary**Client:** Alliance Technical Group, LLC - Newark**SDG No.:** Q1872**Project:** NJ Soil PT**RunNo.:** LB135761

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 TOC	mg/L	< 125.0000	125.0000	U	32.1	250	03/14/2025
Sample ID: CCB1 TOC	mg/L	< 125.0000	125.0000	U	32.1	250	05/27/2025
Sample ID: CCB2 TOC	mg/L	< 125.0000	125.0000	U	32.1	250	05/27/2025

Initial and Continuing Calibration Blank Summary

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q1872

Project: NJ Soil PT

RunNo.: LB135787

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 TKN	mg/L	0.11	0.2500	J	0.11	0.5	05/15/2025
Sample ID: CCB1 TKN	mg/L	< 0.2500	0.2500	U	0.11	0.5	05/15/2025
Sample ID: CCB2 TKN	mg/L	0.13	0.2500	J	0.11	0.5	05/15/2025
Sample ID: CCB3 TKN	mg/L	< 0.2500	0.2500	U	0.11	0.5	05/15/2025

Initial and Continuing Calibration Blank Summary

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q1872

Project: NJ Soil PT

RunNo.: LB135817

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 TOC	mg/L	< 125.0000	125.0000	U	22.3	250	03/14/2025
Sample ID: CCB1 TOC	mg/L	< 125.0000	125.0000	U	22.3	250	05/27/2025
Sample ID: CCB2 TOC	mg/L	< 125.0000	125.0000	U	22.3	250	05/27/2025

Initial and Continuing Calibration Blank Summary

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q1872

Project: NJ Soil PT

RunNo.: LB135933

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB Phosphorus, Total	mg/L	0.006	0.0250	J	0.0045	0.05	05/28/2025
Sample ID: CCB1 Phosphorus, Total	mg/L	< 0.0250	0.0250	U	0.0045	0.05	05/28/2025
Sample ID: CCB2 Phosphorus, Total	mg/L	0.008	0.0250	J	0.0045	0.05	05/28/2025
Sample ID: CCB3 Phosphorus, Total	mg/L	0.006	0.0250	J	0.0045	0.05	05/28/2025

Initial and Continuing Calibration Blank Summary

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q1872

Project: NJ Soil PT

RunNo.: LB135937

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	05/28/2025
Sample ID: CCB1 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	05/28/2025
Sample ID: CCB2 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	05/28/2025
Sample ID: CCB3 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	05/28/2025

Preparation Blank Summary

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q1872

Project: NJ Soil PT

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB135580BL							
TS	%	< 2.5000	2.5000	U	1	5	04/28/2025
Sample ID: LB135679BLS							
Bromide	mg/Kg	< 20.0000	20.0000	U	7	40	04/29/2025
Chloride	mg/Kg	< 6.0000	6.0000	U	3.5	12	04/29/2025
Fluoride	mg/Kg	< 4.0000	4.0000	U	1.8	8	04/29/2025
Nitrite	mg/Kg	< 6.0000	6.0000	U	1.5	12	04/29/2025
Nitrate	mg/Kg	< 5.0000	5.0000	U	1.8	10	04/29/2025
Sulfate	mg/Kg	< 30.0000	30.0000	U	8.8	60	04/29/2025
Orthophosphate as P	mg/Kg	< 10.0000	10.0000	U	6.7	20	04/29/2025
Sample ID: LB135760BL							
Oil and Grease	mg/Kg	< 12.5000	12.5000	U	5.8	25	05/14/2025
Sample ID: LB135761BLS							
TOC	mg/Kg	< 125.0000	125.0000	U	43.4	250	05/27/2025
Sample ID: LB135817BLS							
TOC	mg/Kg	< 125.0000	125.0000	U	28.9	250	05/27/2025
Sample ID: PB167788BL							
Hexavalent Chromium	mg/Kg	< 0.2000	0.2000	U	0.07	0.4	05/28/2025
Sample ID: PB167793BL							
Ammonia as N	mg/Kg	< 2.5000	2.5000	U	2.2	5	04/30/2025
Sample ID: PB167873BL							
Cyanide	mg/Kg	0.064	0.1250	J	0.042	0.25	05/07/2025
Sample ID: PB167896BL							
Cyanide	mg/Kg	0.053	0.1250	J	0.042	0.25	05/07/2025
Sample ID: PB167947BL							
TKN	mg/Kg	10.3	12.5000	J	9.4	25	05/15/2025
Sample ID: PB168183BL							
Phosphorus, Total	mg/Kg	0.4	1.2500	J	0.29	2.5	05/28/2025

Matrix Spike Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q1872
Project:	NJ Soil PT	Sample ID:	Q1889-01
Client ID:	COMP-1MS	Percent Solids for Spike Sample:	82.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Ammonia as N	mg/Kg	75-125	63.1		5.50	J	58.8	1	98		04/30/2025

Matrix Spike Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q1872
Project:	NJ Soil PT	Sample ID:	Q1889-01
Client ID:	COMP-1MSD	Percent Solids for Spike Sample:	82.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Ammonia as N	mg/Kg	75-125	65.5		5.50	J	59.4	1	101		04/30/2025

Matrix Spike Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q1872
Project:	NJ Soil PT	Sample ID:	Q1938-07
Client ID:	LOWER-WALL-PILE-DMS	Percent Solids for Spike Sample:	95

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	2.20		0.074	J	2.1	1	101		05/07/2025

Matrix Spike Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q1872
Project:	NJ Soil PT	Sample ID:	Q1938-07
Client ID:	LOWER-WALL-PILE-DMSD	Percent Solids for Spike Sample:	95

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	2.10		0.074	J	2.1	1	96		05/07/2025

Matrix Spike Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q1872
Project:	NJ Soil PT	Sample ID:	Q2001-02
Client ID:	WC-A4-03-CMS	Percent Solids for Spike Sample:	79.1

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Oil and Grease	mg/Kg	75-125	940		732		126	1	165	*	05/14/2025

Matrix Spike Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q1872
Project:	NJ Soil PT	Sample ID:	Q2001-02
Client ID:	WC-A4-03-CMSD	Percent Solids for Spike Sample:	79.1

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Oil and Grease	mg/Kg	75-125	946		732		126	1	170	*	05/14/2025

Matrix Spike Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q1872
Project:	NJ Soil PT	Sample ID:	Q2085-01
Client ID:	SC-4-SED-051525MS	Percent Solids for Spike Sample:	75.7

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Phosphorus, Total	mg/Kg	90-110	93.2	D	62.3		32.4	2	95		05/28/2025

Matrix Spike Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q1872
Project:	NJ Soil PT	Sample ID:	Q2085-01
Client ID:	SC-4-SED-051525MSD	Percent Solids for Spike Sample:	75.7

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Phosphorus, Total	mg/Kg	90-110	93.0	D	62.3		32.4	2	95		05/28/2025

Matrix Spike Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q1872
Project:	NJ Soil PT	Sample ID:	Q2130-01
Client ID:	TP-3MS	Percent Solids for Spike Sample:	90.3

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	1360		0.076	U	1420	40	96		05/28/2025

Matrix Spike Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q1872
Project:	NJ Soil PT	Sample ID:	Q2130-01
Client ID:	TP-3MS	Percent Solids for Spike Sample:	90.3

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	85-115	42.4		0.076	U	44.3	2	96		05/28/2025

Matrix Spike Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q1872
Project:	NJ Soil PT	Sample ID:	Q2130-01
Client ID:	TP-3MS	Percent Solids for Spike Sample:	90.3

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	37.7		0.076	U	44.3	2	85		05/28/2025

Duplicate Sample Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q1872
Project:	NJ Soil PT	Sample ID:	Q1889-01
Client ID:	COMP-1DUP	Percent Solids for Spike Sample:	82.5

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Ammonia as N	mg/Kg	+/-20	5.50	J	5.60	J	1	2		04/30/2025

Duplicate Sample Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q1872
Project:	NJ Soil PT	Sample ID:	Q1889-01
Client ID:	COMP-1MSD	Percent Solids for Spike Sample:	82.5

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Ammonia as N	mg/Kg	+/-20	63.1		65.5		1	4		04/30/2025

Duplicate Sample Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q1872
Project:	NJ Soil PT	Sample ID:	Q1938-07
Client ID:	LOWER-WALL-PILE-DDUP	Percent Solids for Spike Sample:	95

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Cyanide	mg/Kg	+/-20	0.074	J	0.082	J	1	10		05/07/2025

Duplicate Sample Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q1872
Project:	NJ Soil PT	Sample ID:	Q1938-07
Client ID:	LOWER-WALL-PILE-DMSD	Percent Solids for Spike Sample:	95

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Cyanide	mg/Kg	+/-20	2.20		2.10		1	5		05/07/2025

Duplicate Sample Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q1872
Project:	NJ Soil PT	Sample ID:	Q1964-04
Client ID:	MH-LLDUP	Percent Solids for Spike Sample:	100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Corrosivity	pH	+/-20	6.13		6.14		1	0.16		05/07/2025

Duplicate Sample Summary

Client: Alliance Technical Group, LLC - Newark Project: NJ Soil PT Client ID: 50623DUP	SDG No.: Q1872 Sample ID: Q1965-01 Percent Solids for Spike Sample: 100
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Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Flash Point	o F	+/-2	>212.0		>212.0		1	0		05/08/2025

Duplicate Sample Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q1872
Project:	NJ Soil PT	Sample ID:	Q2001-02
Client ID:	WC-A4-03-CDUP	Percent Solids for Spike Sample:	79.1

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Oil and Grease	mg/Kg	+/-20	732		744		1	1.66		05/14/2025

Duplicate Sample Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q1872
Project:	NJ Soil PT	Sample ID:	Q2001-02
Client ID:	WC-A4-03-CMSD	Percent Solids for Spike Sample:	79.1

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Oil and Grease	mg/Kg	+/-20	940		946		1	0.57		05/14/2025

Duplicate Sample Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q1872
Project:	NJ Soil PT	Sample ID:	Q2085-01
Client ID:	SC-4-SED-051525DUP	Percent Solids for Spike Sample:	75.7

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Phosphorus, Total	mg/Kg	+/-20	62.3		61.9		1	0.64		05/28/2025

Duplicate Sample Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q1872
Project:	NJ Soil PT	Sample ID:	Q2085-01
Client ID:	SC-4-SED-051525MSD	Percent Solids for Spike Sample:	75.7

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Phosphorus, Total	mg/Kg	+/-20	93.2	D	93.0	D	2	0.21		05/28/2025

Duplicate Sample Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q1872
Project:	NJ Soil PT	Sample ID:	Q2130-01
Client ID:	TP-3DUP	Percent Solids for Spike Sample:	90.3

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	+/-20	0.076	U	0.076	U	1	0		05/28/2025

Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q1872
Project:	NJ Soil PT	Run No.:	LB135679

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB135679BSS							
Bromide	mg/Kg	200	209		104	1	90-110	04/29/2025
Chloride	mg/Kg	60	63.1		105	1	90-110	04/29/2025
Fluoride	mg/Kg	40	41.3		103	1	90-110	04/29/2025
Nitrite	mg/Kg	60	62.7		104	1	90-110	04/29/2025
Nitrate	mg/Kg	50	53.0		106	1	90-110	04/29/2025
Sulfate	mg/Kg	300	304		101	1	90-110	04/29/2025
Orthophosphate as P	mg/Kg	100	105		105	1	90-110	04/29/2025

Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q1872
Project:	NJ Soil PT	Run No.:	LB135760

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB135760BS							
Oil and Grease	mg/Kg	100	94.9		95	1	80-120	05/14/2025

Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q1872
Project:	NJ Soil PT	Run No.:	LB135761

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB135761BSS							
TOC	mg/Kg	1000	1020		102	1	90-110	05/27/2025

Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q1872
Project:	NJ Soil PT	Run No.:	LB135817

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB135817BSS							
TOC	mg/Kg	1000	1020		102	1	90-110	05/27/2025

Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q1872
Project:	NJ Soil PT	Run No.:	LB135937

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB167788BS								
Hexavalent Chromium	mg/Kg	20	19.8		99	1	84-110	05/28/2025

Laboratory Control Sample Summary

Client: Alliance Technical Group, LLC - Newark

SDG No.: Q1872

Project: NJ Soil PT

Run No.: LB135612

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB167793BS							
Ammonia as N	mg/Kg	50	47.5		95	1	90-110	04/30/2025

Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q1872
Project:	NJ Soil PT	Run No.:	LB135693

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB167873BS							
Cyanide	mg/Kg	5	4.80		96	1	85-115	05/07/2025

Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q1872
Project:	NJ Soil PT	Run No.:	LB135694

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB167896BS							
Cyanide	mg/Kg	5	5.00		100	1	85-115	05/07/2025

Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q1872
Project:	NJ Soil PT	Run No.:	LB135787

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB167947BS							
TKN	mg/Kg	250	240		96	1	90-110	05/15/2025

Laboratory Control Sample Summary

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q1872
Project:	NJ Soil PT	Run No.:	LB135933

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB168183BS								
Phosphorus, Total	mg/Kg	25.0	24.8		99	1	90-110	05/28/2025



RAW DATA

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

TOTAL SOLIDS - SM2540B

SUPERVISOR: Iwona

ANALYST: jignesh

Date: 04/28/2025

Run Number: LB135580

BalanceID: WC SC-6

OvenID: WC OVEN#1

ThermometerID: WET OVEN#1

TEMP1 IN: 103 °C 04/28/2025 11:00 TEMP1 OUT: 103 °C 04/28/2025 12:00
 TEMP2 IN: 104 °C 04/28/2025 12:30 TEMP2 OUT: 103 °C 04/28/2025 13:30
 TEMP3 IN: 104 °C 04/28/2025 17:00 TEMP3 OUT: 103 °C 04/29/2025 08:00
 TEMP4 IN: 104 °C 04/29/2025 08:30 TEMP4 OUT: 103 °C 04/29/2025 10:00

Dish #	Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Dish + Sample Weight (g)	Original weight 1st Dish+Sample weight after Drying @103-@105°C (g)	Constant weight 2nd Dish+Sample weight after Drying @103-@105°C (g)	Final Constant weight Final Dish+Sample weight after Drying @103-@105°C (g)	Weight (g)	Result %
1	LB135580BL	LB135580BL	89.6063	89.6063	89.6063	89.6063	89.6063	89.6063	0.0000	0
2	Q1872-24	HW0425-PT-SOL-SOIL	94.6246	94.6246	116.6296	111.4548	111.4548	111.4550	16.8302	76.5

A = Final Empty Dish Weight (g)

B = Dish + Sample Weight (g)

C = Final Dish+Sample weight after Drying @103-@105°C (g)

$$\text{Result \%} = (C - A) * 100 / (B - A)$$

WORKLIST(Hardcopy Internal Chain)

LB 135580

WorkList Name : ts q1872 s

WorkList ID : 189187

Department : Wet-Chemistry

Date : 04-28-2025 14:52:10

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1872-24	HW0425-PT-SOL-SOIL	Solid	TS	Cool 4 deg C	ALLI03	QA Of	04/21/2025	SM2540 B

Date/Time 04/28/25 15:10

Raw Sample Received by: SL awc

Raw Sample Relinquished by: SI (QA0)

Date/Time 04/28/25 17:30

Raw Sample Received by: N/A

Raw Sample Relinquished by: N/A

LB135

Test results

Aquakem 7.2AQ1

Page: 1

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

Reviewed by : RM Instrument ID : Konelab

4/30/2025 14:23

Test: Ammonia-N

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	0.918	0.0	0.186	
ICB1	0.013	0.0	0.015	
CCV1	0.938	0.0	0.189	
CCB1	0.010	0.0	0.015	
RL CHECK	0.095	0.0	0.031	
PB167793BL	0.010	0.0	0.015	
PB167793BS	0.951	0.0	0.192	
Q1889-01	0.092	0.0	0.030	
Q1889-01DUP	0.095	0.0	0.031	
Q1889-01MS	1.072	0.0	0.214	
Q1889-01MSD	1.103	0.0	0.220	
Q1889-02	0.036	0.0	0.020	
Q1889-03	0.030	0.0	0.019	
Q1903-01	0.028	0.0	0.018	
CCV2	1.016	0.0	0.204	
CCB2	0.014	0.0	0.016	
Q1903-02	0.055	0.0	0.023	
Q1903-03	0.038	0.0	0.020	
Q1907-01	0.023	0.0	0.017	
Q1872-07	24.543	0.0	4.622	
Q1872-07DLX20	1.138	0.0	0.227	
CCV3	0.972	0.0	0.196	
CCB3	0.017	0.0	0.016	

95% (50-150)
04/30/2025
RM

Init abs., Test limit hig

N 23
Mean 1.444
SD 5.0574
CV% 350.30

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Aquakem v. 7.2AQ1

Results from time period:

Wed Apr 30 13:01:48 2025

Wed Apr 30 14:19:56 2025

Sample Id	Sam/Ctr/c	Test short r	Test type	Result	Result unit	Result date and tir	Stat
0.0PPM	A	Ammonia-1	P	0.0165	mg/l	4/30/2025 13:01	
0.1PPM	A	Ammonia-1	P	0.1119	mg/l	4/30/2025 13:01	
0.2PPM	A	Ammonia-1	P	0.1896	mg/l	4/30/2025 13:01	
0.4PPM	A	Ammonia-1	P	0.3931	mg/l	4/30/2025 13:01	
1.0PPM	A	Ammonia-1	P	0.9753	mg/l	4/30/2025 13:01	
1.3PPM	A	Ammonia-1	P	1.3315	mg/l	4/30/2025 13:01	
2.0PPM	A	Ammonia-1	P	2.0154	mg/l	4/30/2025 13:01	
ICV1	S	Ammonia-1	P	0.918	mg/l	4/30/2025 13:41	
ICB1	S	Ammonia-1	P	0.0127	mg/l	4/30/2025 13:41	
CCV1	S	Ammonia-1	P	0.9381	mg/l	4/30/2025 13:41	
CCB1	S	Ammonia-1	P	0.0105	mg/l	4/30/2025 13:41	
RL CHECK	S	Ammonia-1	P	0.0947	mg/l	4/30/2025 13:41	
PB167793BL	S	Ammonia-1	P	0.0103	mg/l	4/30/2025 13:41	
PB167793BS	S	Ammonia-1	P	0.9509	mg/l	4/30/2025 13:51	
Q1889-01	S	Ammonia-1	P	0.0921	mg/l	4/30/2025 13:51	
Q1889-01DUP	S	Ammonia-1	P	0.0948	mg/l	4/30/2025 13:51	
Q1889-01MS	S	Ammonia-1	P	1.0719	mg/l	4/30/2025 13:51	
Q1889-01MSD	S	Ammonia-1	P	1.1028	mg/l	4/30/2025 13:51	
Q1889-02	S	Ammonia-1	P	0.0356	mg/l	4/30/2025 13:51	
Q1889-03	S	Ammonia-1	P	0.0301	mg/l	4/30/2025 13:51	
Q1903-01	S	Ammonia-1	P	0.028	mg/l	4/30/2025 14:02	
CCV2	S	Ammonia-1	P	1.0163	mg/l	4/30/2025 14:02	
CCB2	S	Ammonia-1	P	0.0139	mg/l	4/30/2025 14:02	
Q1903-02	S	Ammonia-1	P	0.055	mg/l	4/30/2025 14:02	
Q1903-03	S	Ammonia-1	P	0.0376	mg/l	4/30/2025 14:02	
Q1907-01	S	Ammonia-1	P	0.0229	mg/l	4/30/2025 14:02	
Q1872-07	S	Ammonia-1	P	24.5428	mg/l	4/30/2025 14:13	
Q1872-07DLX20	S	Ammonia-1	P	1.1381	mg/l	4/30/2025 14:13	
CCV3	S	Ammonia-1	P	0.9717	mg/l	4/30/2025 14:19	
CCB3	S	Ammonia-1	P	0.0166	mg/l	4/30/2025 14:19	

Calibration results

Aquakem 7.2AQ1

Page: 1

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

Reviewed by: RM Instrument ID: Konelab

4/30/2025 13:04

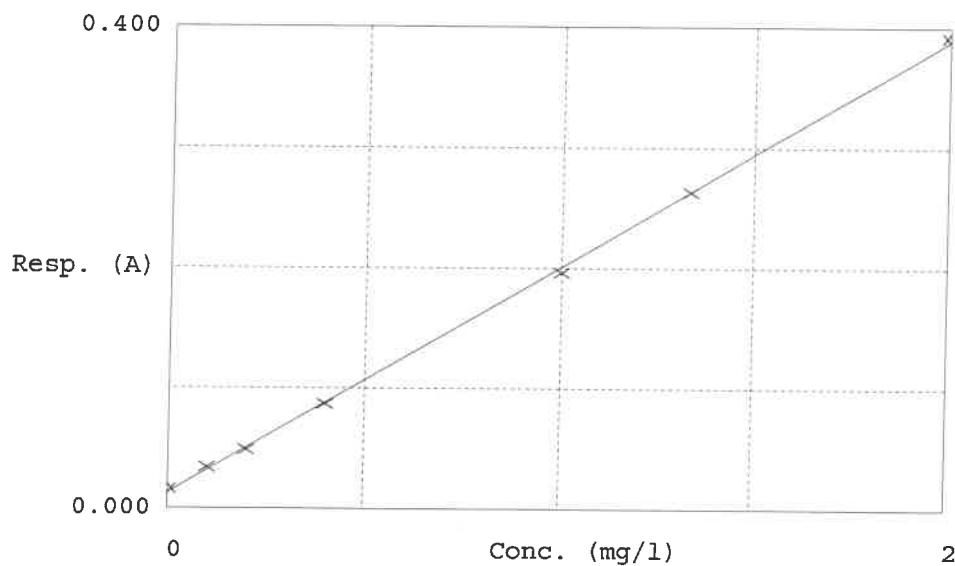
Test Ammonia-N

Accepted 4/30/2025 13:04

Factor 5.325
Bias 0.013

Coeff. of det. 0.999579

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.00PPM	0.016	0.0165	0.0000	-
2	NH3-2PPM	0.034	0.1119	0.1000	11.9
3	NH3-2PPM	0.049	0.1896	0.2000	-5.2
4	NH3-2PPM	0.087	0.3931	0.4000	-1.7
5	NH3-2PPM	0.196	0.9753	1.0000	-2.5
6	NH3-2PPM	0.263	1.3315	1.3333	2.4
7	NH3-2PPM	0.392	2.0154	2.0000	0.8

04/30/2025
RM

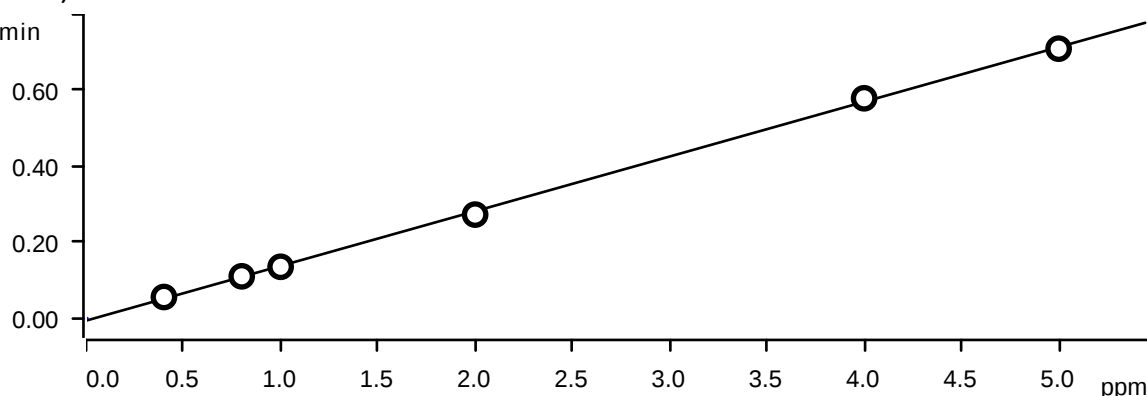
Instrument IC-1		Analyst: NF		Method: 300.0 / 9056A		Initial wt/Final Vol		Analyst	
Ident	Con F-	Con CL-	Con NO2	Con BR-	Con NO3	Con HPO4	Con SO4	Method nar date time	Initial wt/Final Vol Analyst
STD1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	IC1-042225 4/22/2025 10:37	10 NF/IZ
STD2	0.431	0.651	0.655	2.172	0.551	1.090	3.366	IC1-042225 4/22/2025 10:59	10 NF/IZ
STD3	0.810	1.217	1.222	4.049	1.011	2.010	6.091	IC1-042225 4/22/2025 11:20	10 NF/IZ
STD4	0.984	1.509	1.498	5.011	1.250	2.445	7.369	IC1-042225 4/22/2025 11:42	10 NF/IZ
STD5	1.938	2.914	2.916	9.735	2.424	4.860	14.361	IC1-042225 4/22/2025 12:03	10 NF/IZ
STD6	4.065	5.918	5.915	19.752	4.949	10.183	30.380	IC1-042225 4/22/2025 12:25	10 NF/IZ
STD7	4.972	7.591	7.594	25.280	6.316	12.412	36.933	IC1-042225 4/22/2025 12:46	10 NF/IZ
ICV	2.034	3.100	3.074	10.246	2.611	5.165	15.120	IC1-042225 4/22/2025 13:07	10 NF/IZ
ICB	0.000	0.000	0.000	0.000	0.000	0.000	0.000	IC1-042225 4/22/2025 13:58	10 NF/IZ
CCV	2.068	3.159	3.130	10.470	2.658	5.236	15.229	IC1-042225 4/29/2025 11:14	10 NF/IZ
CCB	0.000	0.000	0.000	0.000	0.000	0.000	0.000	IC1-042225 4/29/2025 11:35	10 NF/IZ
LB135679BLS	0.000	0.000	0.000	0.000	0.000	0.000	0.000	IC1-042225 4/29/2025 11:57	5.00gr/100mL NF/IZ
LB135679BSS	2.064	3.153	3.135	10.454	2.651	5.253	15.221	IC1-042225 4/29/2025 12:18	5.00gr/100mL NF/IZ
Q1872-01DLX4	3.657	38.460	0.000	0.000	8.887	5.183	87.472	IC1-042225 4/29/2025 13:02	20.00gr/100mL NF/IZ
Q1872-01DL2X20	0.702	6.358	0.000	0.473	1.699	1.148	16.037	IC1-042225 4/29/2025 13:25	20.00gr/100mL NF/IZ
Q1872-25	0.000	0.091	8.667	0.000	0.000	0.000	0.000	IC1-042225 4/29/2025 14:11	5.00gr/100mL NF/IZ
Q1872-25DLX2	0.000	0.078	4.240	0.000	0.000	0.000	0.000	IC1-042225 4/29/2025 14:56	5.00gr/100mL NF/IZ
Q1872-01	8.055	180.208	0.000	5.229	41.961	13.056	414.443	IC1-042225 4/29/2025 15:39	20.00gr/100mL NF/IZ
CCV	2.082	3.147	3.129	10.465	2.655	5.221	15.278	IC1-042225 4/29/2025 16:00	10 NF/IZ
CCB	0.000	0.000	0.000	0.000	0.000	0.000	0.000	IC1-042225 4/29/2025 16:22	10 NF/IZ

Clear table

Instrument ID: IC-2 Analyst: IZ Method: 300.0 / 9056A									
ident	concentra tion F-	concentratio n CL-	concentrati on NO2	concentrati on BR-	concentrati on NO3	concentrati on HPO4	concentrati on SO4	file name	Initial wt/ Final
STD1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	IC1-042225	10 NF/IZ
STD2	0.4310	0.6510	0.6550	2.1720	0.5510	1.0900	3.3660	IC1-042225	10 NF/IZ
STD3	0.8100	1.2170	1.2220	4.0490	1.0110	2.0100	6.0910	IC1-042225	10 NF/IZ
STD4	0.9840	1.5090	1.4980	5.0110	1.2500	2.4450	7.3690	IC1-042225	10 NF/IZ
STD5	1.9380	2.9140	2.9160	9.7350	2.4240	4.8600	14.3610	IC1-042225	10 NF/IZ
STD6	4.0650	5.9180	5.9150	19.7520	4.9490	10.1830	30.3800	IC1-042225	10 NF/IZ
STD7	4.9720	7.5910	7.5940	25.2800	6.3160	12.4120	36.9330	IC1-042225	10 NF/IZ
date time	4/22/2025 10:37	4/22/2025 10:59	4/22/2025 11:20	4/22/2025 11:42	4/22/2025 12:03	4/22/2025 12:25	4/22/2025 12:46		
ident	True Value	CL-	True Value	BR-	True Value	HPO4	True Value	SO4	
STD1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
STD2	0.4000	0.6000	0.6000	2.0000	0.5000	1.0000	3.0000	3.0000	
STD3	0.8000	1.2000	1.2000	4.0000	1.0000	2.0000	6.0000	6.0000	
STD4	1.0000	1.5000	1.5000	5.0000	1.2500	2.5000	7.5000	7.5000	
STD5	2.0000	3.0000	3.0000	10.0000	2.5000	5.0000	15.0000	15.0000	
STD6	4.0000	6.0000	6.0000	20.0000	5.0000	10.0000	30.0000	30.0000	
STD7	5.0000	7.5000	7.5000	25.0000	6.2500	12.5000	37.0000	37.0000	
ident	Relative Error F-	Relative Error CL-	Relative Error NO2	Relative Error BR-	Relative Error NO3	Relative Error HPO4	Relative Error SO4		
STD1	7.7500	8.5000	9.1667	8.6000	10.2000	9.0000	12.2000		
STD2	1.2500	1.4167	1.8333	1.2250	1.1000	0.5000	1.5167		
STD3	-1.6000	0.6000	-0.1333	0.2200	0.0000	-2.2000	-1.7467		
STD4	-3.1000	-2.8667	-2.8000	-2.6500	-3.0400	-2.8000	-4.2600		
STD5	1.6250	-1.3667	-1.4167	-1.2400	-1.0200	1.8300	1.2667		
STD6	-0.5600	1.2133	1.2533	1.1200	1.0560	-0.7040	-0.1811		

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Fluoride (Anions)

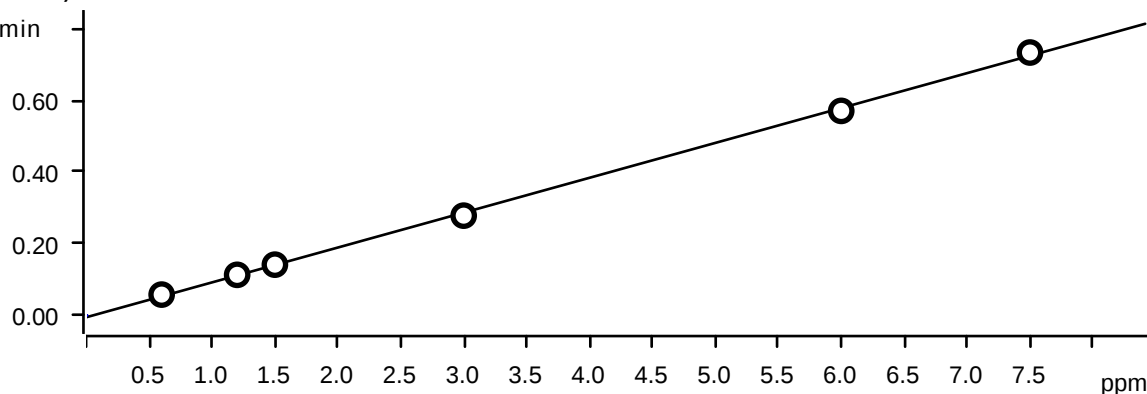
 $(\mu\text{S}/\text{cm}) \times \text{min}$ Function: $A = -6.13443E-3 + 0.0144025 \times Q$

Relative standard deviation 2.337762 %

Correlation coefficient 0.999714

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	10.0	1.0	1.0	n. d.	STD1	2025-04-22 10:37:58 UTC-4	used
Standard 2	1	0.400	10.0	1.0	1.0	0.056	STD2	2025-04-22 10:59:20 UTC-4	used
Standard 3	1	0.800	10.0	1.0	1.0	0.110	STD3	2025-04-22 11:20:44 UTC-4	used
Standard 4	1	1.000	10.0	1.0	1.0	0.136	STD4	2025-04-22 11:42:09 UTC-4	used
Standard 5	1	2.000	10.0	1.0	1.0	0.273	STD5	2025-04-22 12:03:34 UTC-4	used
Standard 6	1	4.000	10.0	1.0	1.0	0.579	STD6	2025-04-22 12:25:01 UTC-4	used
Standard 7	1	5.000	10.0	1.0	1.0	0.710	STD7	2025-04-22 12:46:28 UTC-4	used

Chloride (Anions)

 $(\mu\text{S}/\text{cm}) \times \text{min}$ Function: $A = -5.12446E-3 + 9.72422E-3 \times Q$

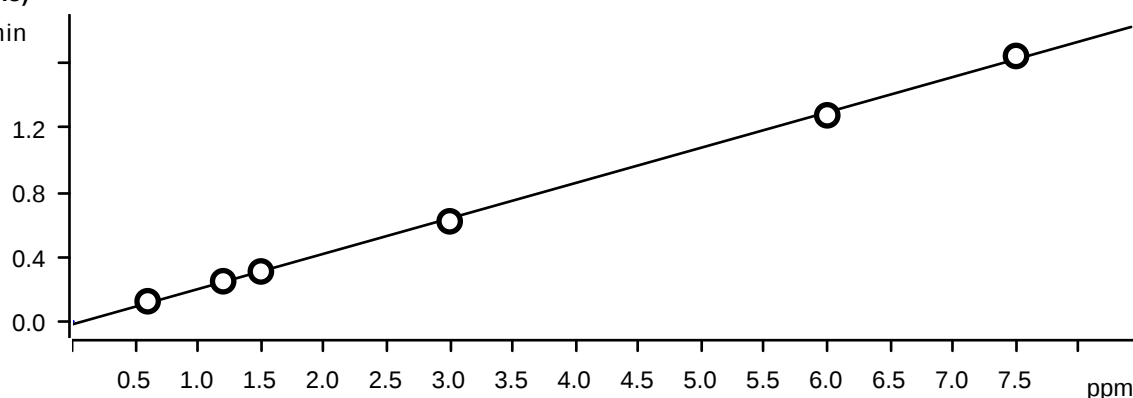
Relative standard deviation 2.452549 %

Correlation coefficient 0.999683

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	10.0	1.0	1.0	n. d.	STD1	2025-04-22 10:37:58 UTC-4	used
Standard 2	1	0.600	10.0	1.0	1.0	0.058	STD2	2025-04-22 10:59:20 UTC-4	used
Standard 3	1	1.200	10.0	1.0	1.0	0.113	STD3	2025-04-22 11:20:44 UTC-4	used
Standard 4	1	1.500	10.0	1.0	1.0	0.142	STD4	2025-04-22 11:42:09 UTC-4	used
Standard 5	1	3.000	10.0	1.0	1.0	0.278	STD5	2025-04-22 12:03:34 UTC-4	used
Standard 6	1	6.000	10.0	1.0	1.0	0.570	STD6	2025-04-22 12:25:01 UTC-4	used
Standard 7	1	7.500	10.0	1.0	1.0	0.733	STD7	2025-04-22 12:46:28 UTC-4	used

Nitrite (Anions)

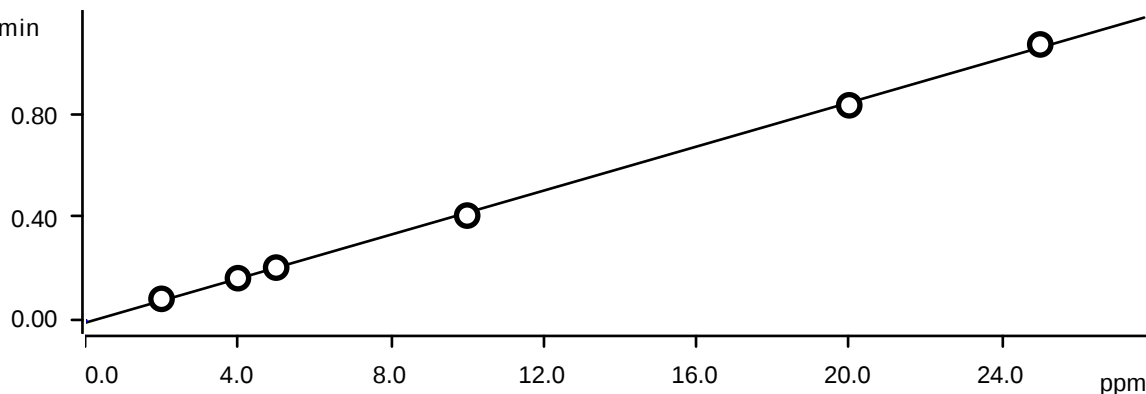
(μS/cm) x min

Function: $A = -0.0187238 + 0.0219021 \times Q$

Relative standard deviation 2.531721 %

Correlation coefficient 0.999669

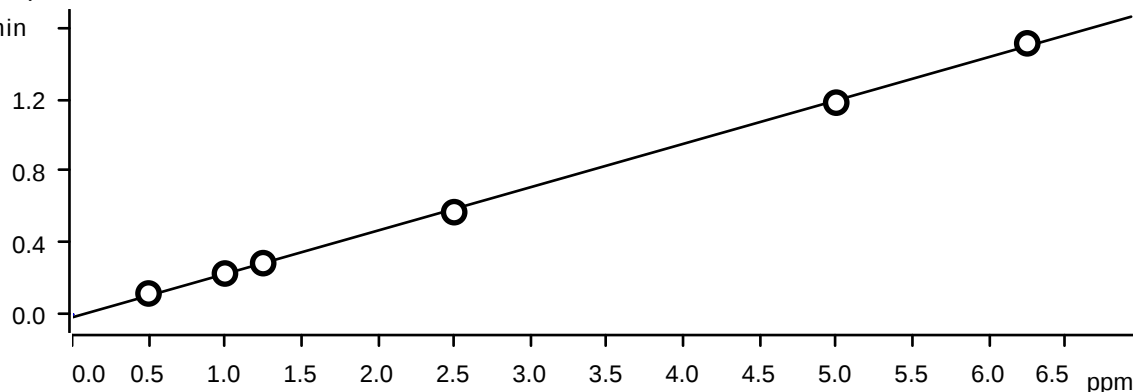
Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	10.0	1.0	1.0	n. d.	STD1	2025-04-22 10:37:58 UTC-4	used
Standard 2	1	0.600	10.0	1.0	1.0	0.125	STD2	2025-04-22 10:59:20 UTC-4	used
Standard 3	1	1.200	10.0	1.0	1.0	0.249	STD3	2025-04-22 11:20:44 UTC-4	used
Standard 4	1	1.500	10.0	1.0	1.0	0.309	STD4	2025-04-22 11:42:09 UTC-4	used
Standard 5	1	3.000	10.0	1.0	1.0	0.620	STD5	2025-04-22 12:03:34 UTC-4	used
Standard 6	1	6.000	10.0	1.0	1.0	1.277	STD6	2025-04-22 12:25:01 UTC-4	used
Standard 7	1	7.500	10.0	1.0	1.0	1.644	STD7	2025-04-22 12:46:28 UTC-4	used

Bromide (Anions) $(\mu\text{S}/\text{cm}) \times \text{min}$ Function: $A = -9.36439E-3 + 4.26318E-3 \times Q$

Relative standard deviation 2.280508 %

Correlation coefficient 0.999728

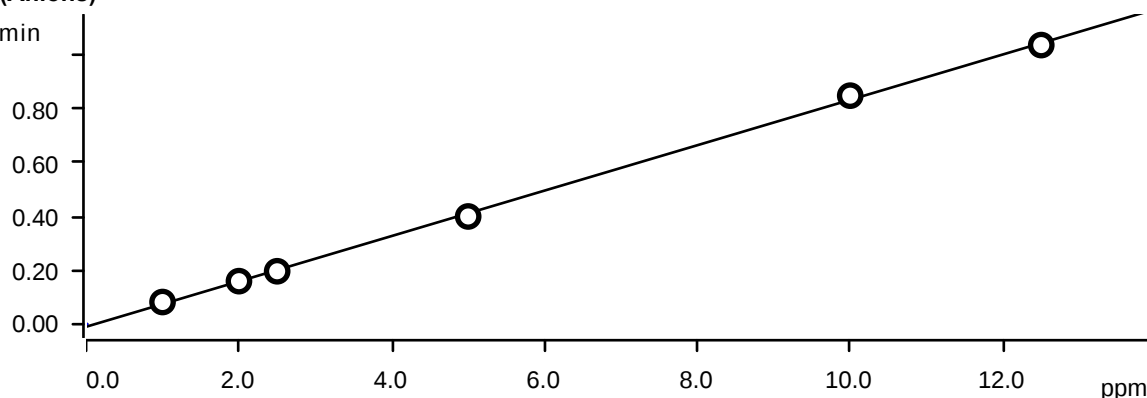
Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	10.0	1.0	1.0	n. d.	STD1	2025-04-22 10:37:58 UTC-4	used
Standard 2	1	2.000	10.0	1.0	1.0	0.083	STD2	2025-04-22 10:59:20 UTC-4	used
Standard 3	1	4.000	10.0	1.0	1.0	0.163	STD3	2025-04-22 11:20:44 UTC-4	used
Standard 4	1	5.000	10.0	1.0	1.0	0.204	STD4	2025-04-22 11:42:09 UTC-4	used
Standard 5	1	10.000	10.0	1.0	1.0	0.406	STD5	2025-04-22 12:03:34 UTC-4	used
Standard 6	1	20.000	10.0	1.0	1.0	0.833	STD6	2025-04-22 12:25:01 UTC-4	used
Standard 7	1	25.000	10.0	1.0	1.0	1.068	STD7	2025-04-22 12:46:28 UTC-4	used

Nitrate (Anions) $(\mu\text{S}/\text{cm}) \times \text{min}$ Function: $A = -0.0163950 + 0.0241967 \times Q$

Relative standard deviation 2.309177 %

Correlation coefficient 0.999724

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	10.0	1.0	1.0	n. d.	STD1	2025-04-22 10:37:58 UTC-4	used
Standard 2	1	0.500	10.0	1.0	1.0	0.117	STD2	2025-04-22 10:59:20 UTC-4	used
Standard 3	1	1.000	10.0	1.0	1.0	0.228	STD3	2025-04-22 11:20:44 UTC-4	used
Standard 4	1	1.250	10.0	1.0	1.0	0.286	STD4	2025-04-22 11:42:09 UTC-4	used
Standard 5	1	2.500	10.0	1.0	1.0	0.570	STD5	2025-04-22 12:03:34 UTC-4	used
Standard 6	1	5.000	10.0	1.0	1.0	1.181	STD6	2025-04-22 12:25:01 UTC-4	used
Standard 7	1	6.250	10.0	1.0	1.0	1.512	STD7	2025-04-22 12:46:28 UTC-4	used

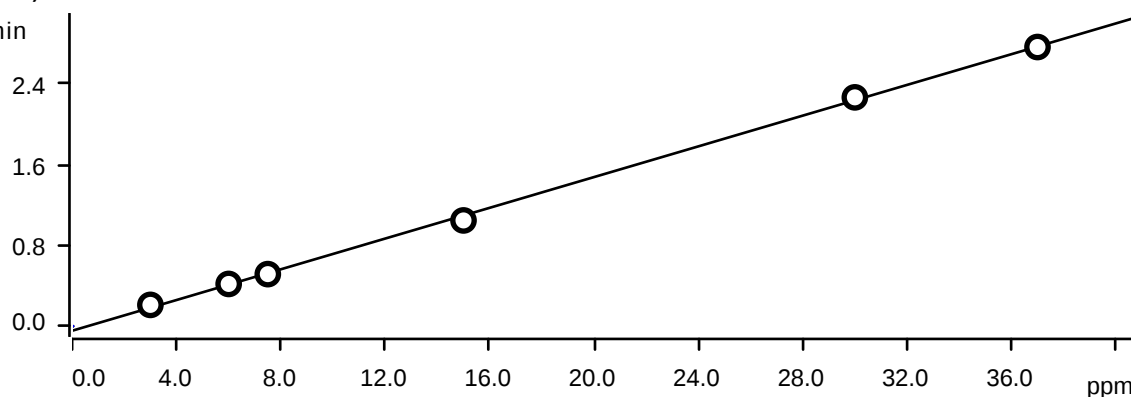
Phosphate (Anions) $(\mu\text{S}/\text{cm}) \times \text{min}$ Function: $A = -9.96993E-3 + 8.43655E-3 \times Q$

Relative standard deviation 2.492252 %

Correlation coefficient 0.999676

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	10.0	1.0	1.0	n. d.	STD1	2025-04-22 10:37:58 UTC-4	used
Standard 2	1	1.000	10.0	1.0	1.0	0.082	STD2	2025-04-22 10:59:20 UTC-4	used
Standard 3	1	2.000	10.0	1.0	1.0	0.160	STD3	2025-04-22 11:20:44 UTC-4	used
Standard 4	1	2.500	10.0	1.0	1.0	0.196	STD4	2025-04-22 11:42:09 UTC-4	used
Standard 5	1	5.000	10.0	1.0	1.0	0.400	STD5	2025-04-22 12:03:34 UTC-4	used
Standard 6	1	10.000	10.0	1.0	1.0	0.849	STD6	2025-04-22 12:25:01 UTC-4	used
Standard 7	1	12.500	10.0	1.0	1.0	1.037	STD7	2025-04-22 12:46:28 UTC-4	used

Sulfate (Anions)

 $(\mu\text{S}/\text{cm}) \times \text{min}$ Function: $A = -0.0453007 + 7.61540E-3 \times Q$

Relative standard deviation 2.675209 %

Correlation coefficient 0.999634

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	10.0	1.0	1.0	n. d.	STD1	2025-04-22 10:37:58 UTC-4	used
Standard 2	1	3.000	10.0	1.0	1.0	0.211	STD2	2025-04-22 10:59:20 UTC-4	used
Standard 3	1	6.000	10.0	1.0	1.0	0.419	STD3	2025-04-22 11:20:44 UTC-4	used
Standard 4	1	7.500	10.0	1.0	1.0	0.516	STD4	2025-04-22 11:42:09 UTC-4	used
Standard 5	1	15.000	10.0	1.0	1.0	1.048	STD5	2025-04-22 12:03:34 UTC-4	used
Standard 6	1	30.000	10.0	1.0	1.0	2.268	STD6	2025-04-22 12:25:01 UTC-4	used
Standard 7	1	37.000	10.0	1.0	1.0	2.767	STD7	2025-04-22 12:46:28 UTC-4	used

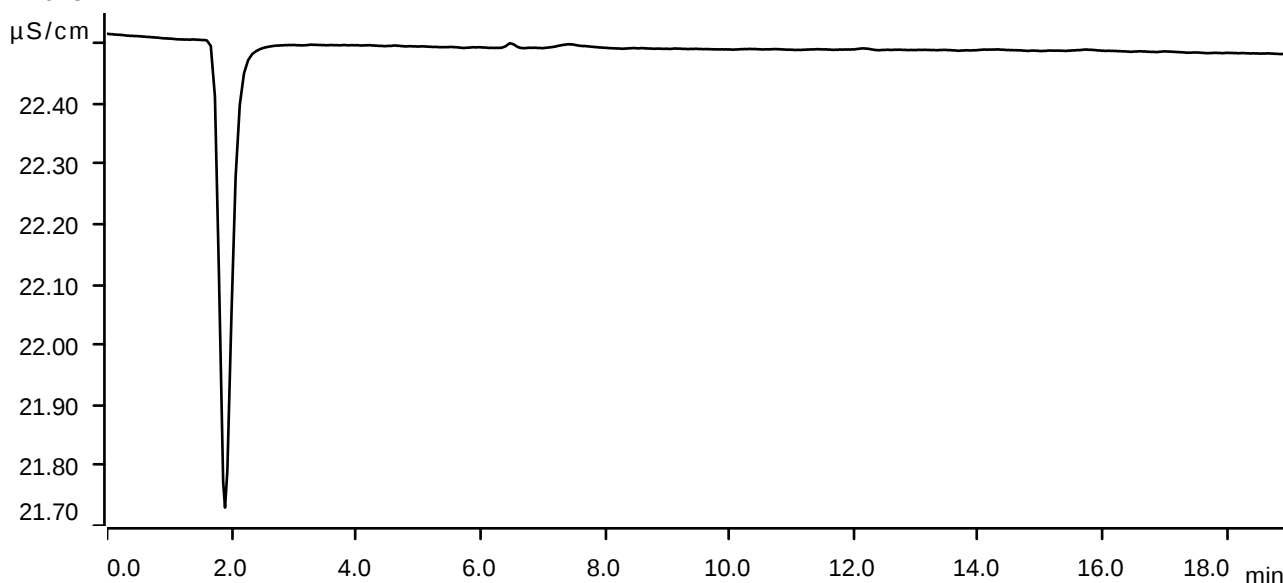
Sample data

Ident STD1
Sample type Standard 1
Determination start 2025-04-22 10:37:58 UTC-4
Method IC1-042225
Operator

Anions

Data source Conductivity detector 1 (Eco IC 1)
Channel Conductivity
Recording time 19.0 min
Integration Automatically
Column type Metrosep A Supp 19 - 150/4.0
Eluent composition not defined
Flow 0.700 mL/min
Maximum flow monitored yes
Pressure 11.32 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



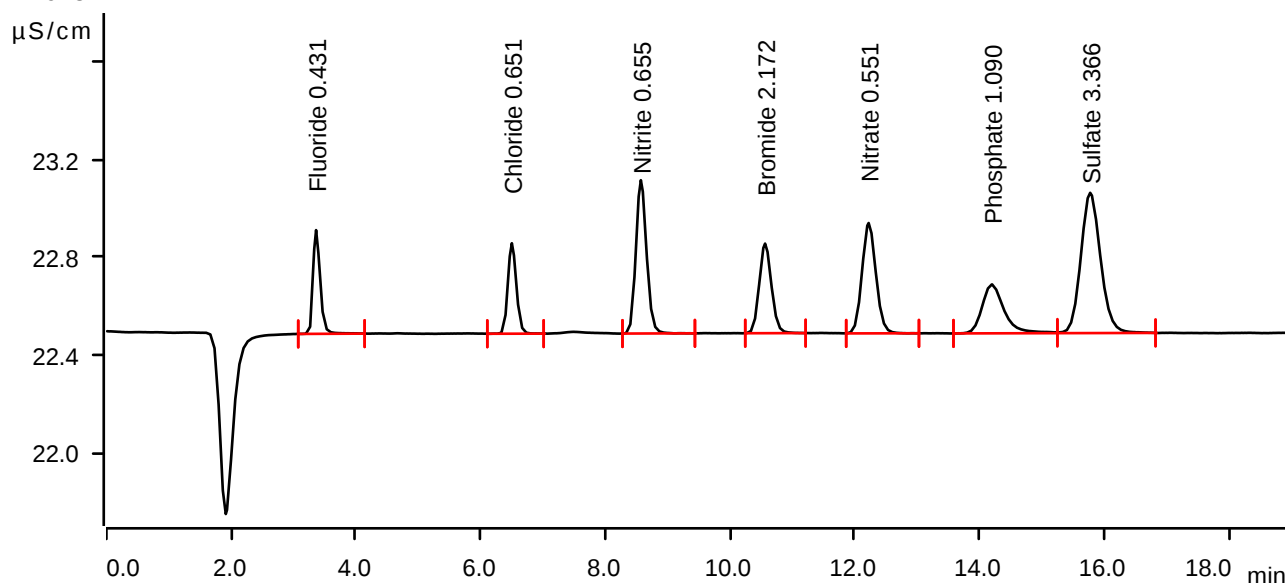
Sample data

Ident STD2
Sample type Standard 2
Determination start 2025-04-22 10:59:20 UTC-4
Method IC1-042225
Operator

Anions

Data source Conductivity detector 1 (Eco IC 1)
Channel Conductivity
Recording time 19.0 min
Integration Automatically
Column type Metrosep A Supp 19 - 150/4.0
Eluent composition not defined
Flow 0.700 mL/min
Maximum flow monitored yes
Pressure 11.26 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.363	0.0560	0.425	0.431	Fluoride
2	6.502	0.0581	0.371	0.651	Chloride
3	8.570	0.1247	0.628	0.655	Nitrite
4	10.562	0.0832	0.367	2.172	Bromide
5	12.222	0.1168	0.452	0.551	Nitrate
6	14.197	0.0820	0.201	1.090	Phosphate
7	15.773	0.2111	0.575	3.366	Sulfate

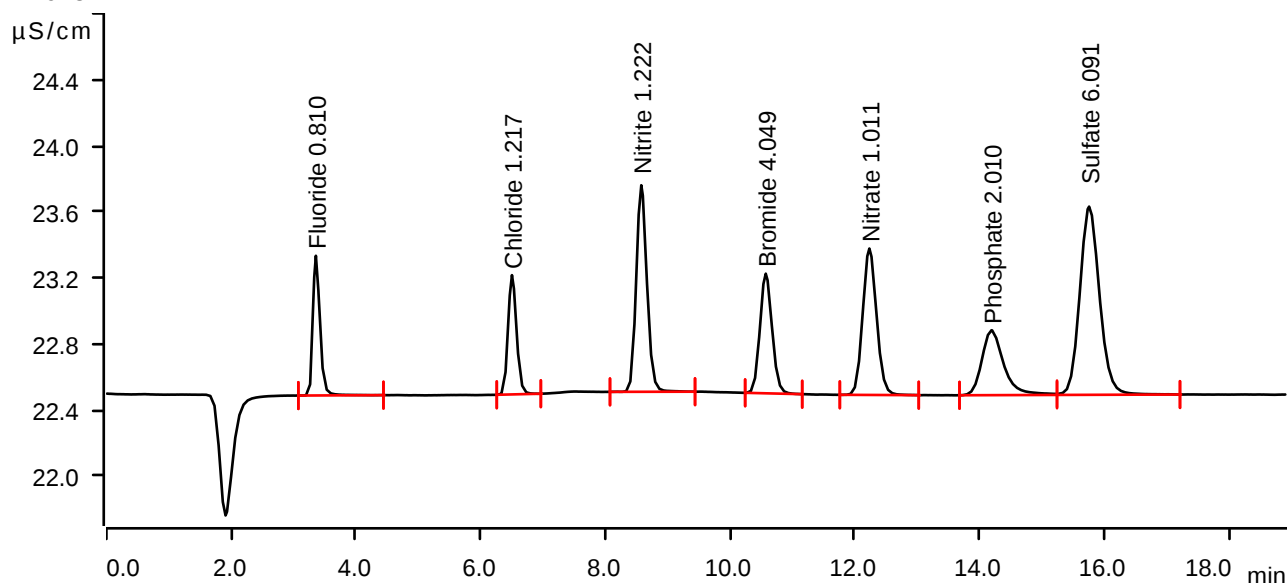
Sample data

Ident STD3
Sample type Standard 3
Determination start 2025-04-22 11:20:44 UTC-4
Method IC1-042225
Operator

Anions

Data source Conductivity detector 1 (Eco IC 1)
Channel Conductivity
Recording time 19.0 min
Integration Automatically
Column type Metrosep A Supp 19 - 150/4.0
Eluent composition not defined
Flow 0.700 mL/min
Maximum flow monitored yes
Pressure 11.43 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.360	0.1105	0.845	0.810	Fluoride
2	6.503	0.1132	0.722	1.217	Chloride
3	8.577	0.2488	1.250	1.222	Nitrite
4	10.572	0.1632	0.724	4.049	Bromide
5	12.233	0.2282	0.886	1.011	Nitrate
6	14.192	0.1596	0.393	2.010	Phosphate
7	15.757	0.4185	1.139	6.091	Sulfate

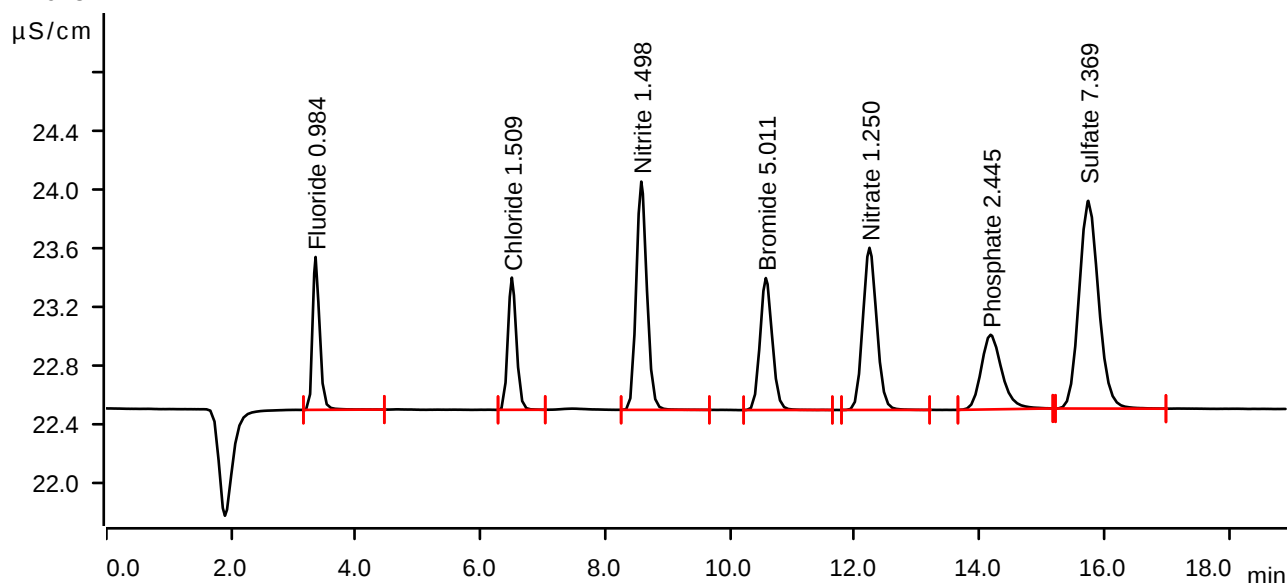
Sample data

Ident STD4
Sample type Standard 4
Determination start 2025-04-22 11:42:09 UTC-4
Method IC1-042225
Operator

Anions

Data source Conductivity detector 1 (Eco IC 1)
Channel Conductivity
Recording time 19.0 min
Integration Automatically
Column type Metrosep A Supp 19 - 150/4.0
Eluent composition not defined
Flow 0.700 mL/min
Maximum flow monitored yes
Pressure 11.43 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.355	0.1356	1.044	0.984	Fluoride
2	6.502	0.1416	0.903	1.509	Chloride
3	8.577	0.3094	1.559	1.498	Nitrite
4	10.573	0.2043	0.902	5.011	Bromide
5	12.235	0.2860	1.108	1.250	Nitrate
6	14.177	0.1963	0.510	2.445	Phosphate
7	15.743	0.5159	1.419	7.369	Sulfate

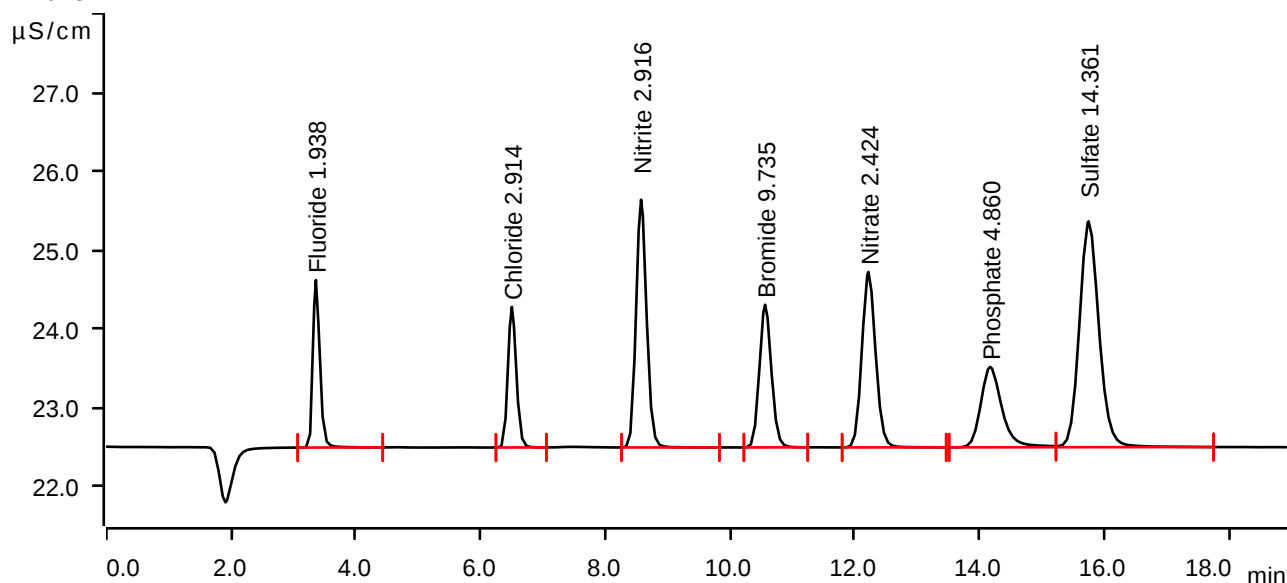
Sample data

Ident STD5
Sample type Standard 5
Determination start 2025-04-22 12:03:34 UTC-4
Method IC1-042225
Operator

Anions

Data source Conductivity detector 1 (Eco IC 1)
Channel Conductivity
Recording time 19.0 min
Integration Automatically
Column type Metrosep A Supp 19 - 150/4.0
Eluent composition not defined
Flow 0.700 mL/min
Maximum flow monitored yes
Pressure 11.49 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.360	0.2730	2.125	1.938	Fluoride
2	6.502	0.2783	1.784	2.914	Chloride
3	8.573	0.6200	3.144	2.916	Nitrite
4	10.562	0.4057	1.810	9.735	Bromide
5	12.218	0.5702	2.226	2.424	Nitrate
6	14.170	0.4000	1.020	4.860	Phosphate
7	15.748	1.0484	2.866	14.361	Sulfate

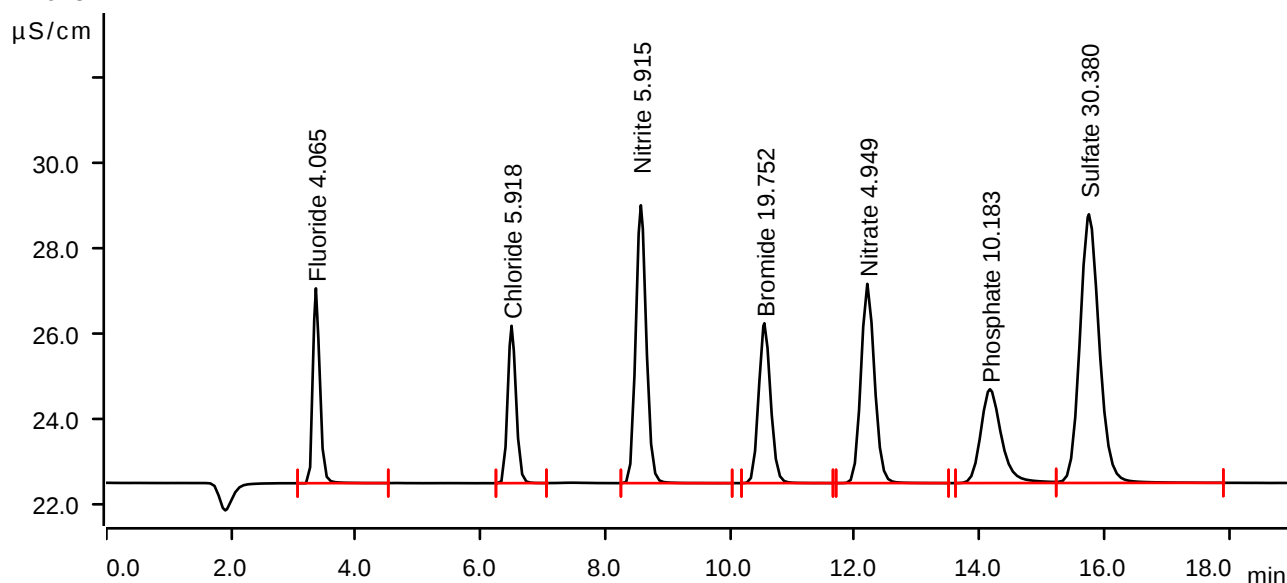
Sample data

Ident STD6
Sample type Standard 6
Determination start 2025-04-22 12:25:01 UTC-4
Method IC1-042225
Operator

Anions

Data source Conductivity detector 1 (Eco IC 1)
Channel Conductivity
Recording time 19.0 min
Integration Automatically
Column type Metrosep A Supp 19 - 150/4.0
Eluent composition not defined
Flow 0.700 mL/min
Maximum flow monitored yes
Pressure 11.49 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.360	0.5793	4.564	4.065	Fluoride
2	6.497	0.5704	3.686	5.918	Chloride
3	8.570	1.2768	6.510	5.915	Nitrite
4	10.550	0.8327	3.746	19.752	Bromide
5	12.202	1.1810	4.667	4.949	Nitrate
6	14.167	0.8491	2.199	10.183	Phosphate
7	15.753	2.2683	6.294	30.380	Sulfate

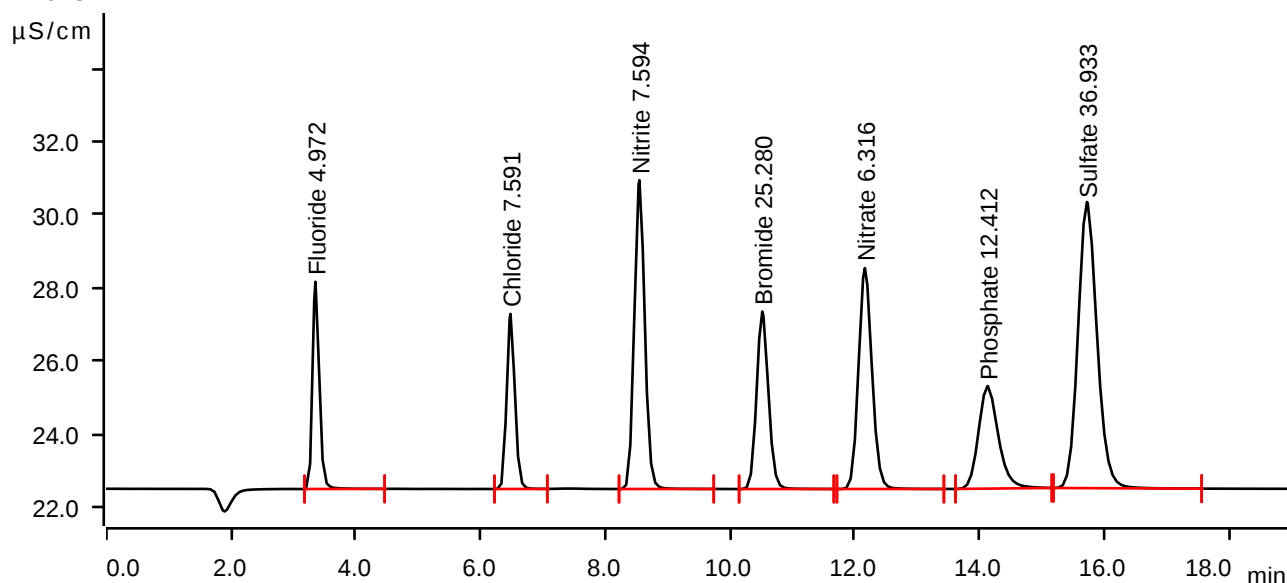
Sample data

Ident STD7
Sample type Standard 7
Determination start 2025-04-22 12:46:28 UTC-4
Method IC1-042225
Operator

Anions

Data source Conductivity detector 1 (Eco IC 1)
Channel Conductivity
Recording time 19.0 min
Integration Automatically
Column type Metrosep A Supp 19 - 150/4.0
Eluent composition not defined
Flow 0.700 mL/min
Maximum flow monitored yes
Pressure 11.43 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.353	0.7100	5.662	4.972	Fluoride
2	6.480	0.7331	4.785	7.591	Chloride
3	8.547	1.6445	8.440	7.594	Nitrite
4	10.517	1.0684	4.850	25.280	Bromide
5	12.162	1.5118	6.035	6.316	Nitrate
6	14.127	1.0372	2.803	12.412	Phosphate
7	15.722	2.7673	7.822	36.933	Sulfate

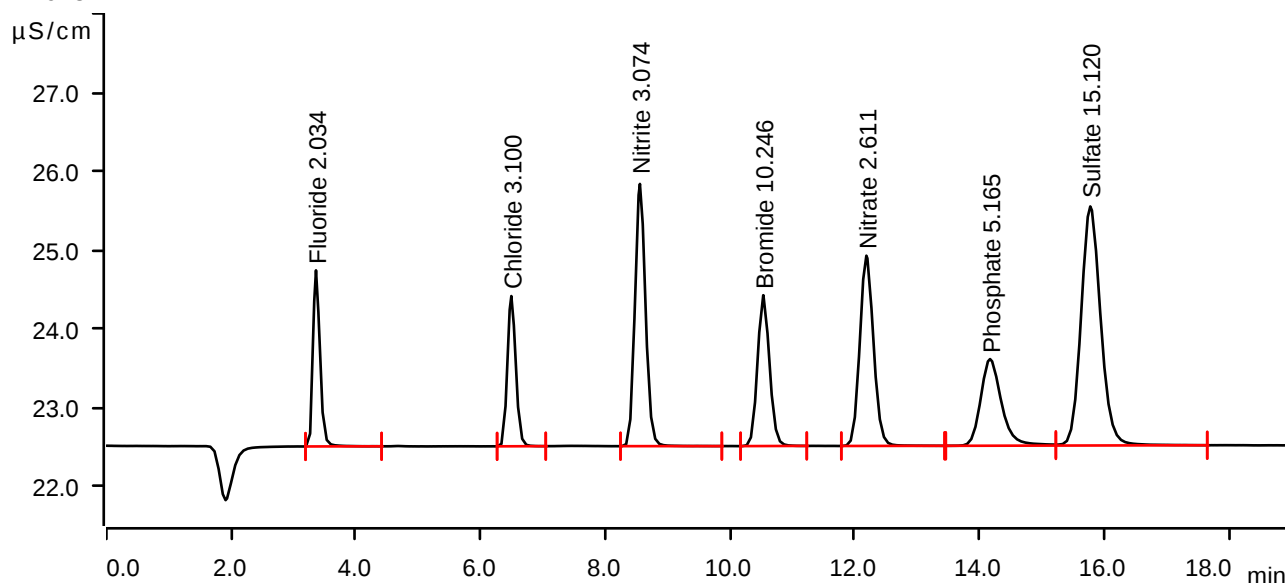
Sample data

Ident ICV
Sample type Check standard 1
Determination start 2025-04-22 13:07:56 UTC-4
Method IC1-042225
Operator

Anions

Data source Conductivity detector 1 (Eco IC 1)
Channel Conductivity
Recording time 19.0 min
Integration Automatically
Column type Metrosep A Supp 19 - 150/4.0
Eluent composition not defined
Flow 0.700 mL/min
Maximum flow monitored yes
Pressure 11.60 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.362	0.2867	2.234	2.034	Fluoride
2	6.493	0.2963	1.906	3.100	Chloride
3	8.555	0.6546	3.328	3.074	Nitrite
4	10.532	0.4274	1.914	10.246	Bromide
5	12.185	0.6154	2.414	2.611	Nitrate
6	14.168	0.4257	1.100	5.165	Phosphate
7	15.775	1.1062	3.034	15.120	Sulfate

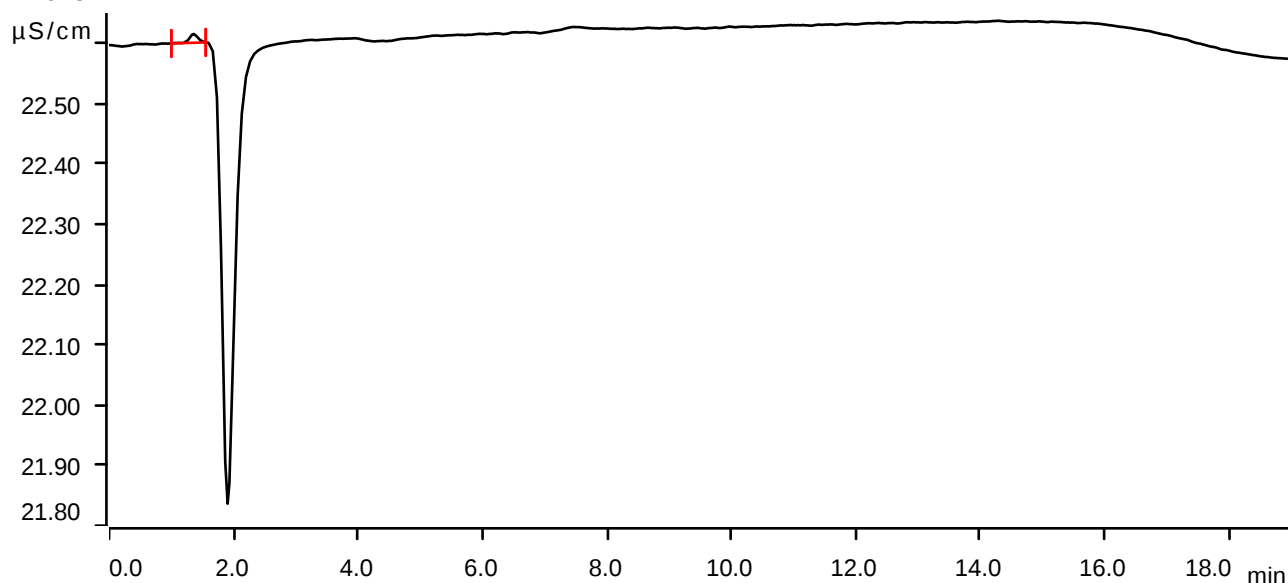
Sample data

Ident ICB
Sample type Sample
Determination start 2025-04-22 13:58:31 UTC-4
Method IC1-042225
Operator

Anions

Data source Conductivity detector 1 (Eco IC 1)
Channel Conductivity
Recording time 19.0 min
Integration Automatically
Column type Metrosep A Supp 19 - 150/4.0
Eluent composition not defined
Flow 0.700 mL/min
Maximum flow monitored yes
Pressure 11.32 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



Peak number	Retention time	Area	Height	Concentration	Component name
	min	(µS/cm) x min	µS/cm	ppm	
1	1.362	0.0024	0.015	invalid	

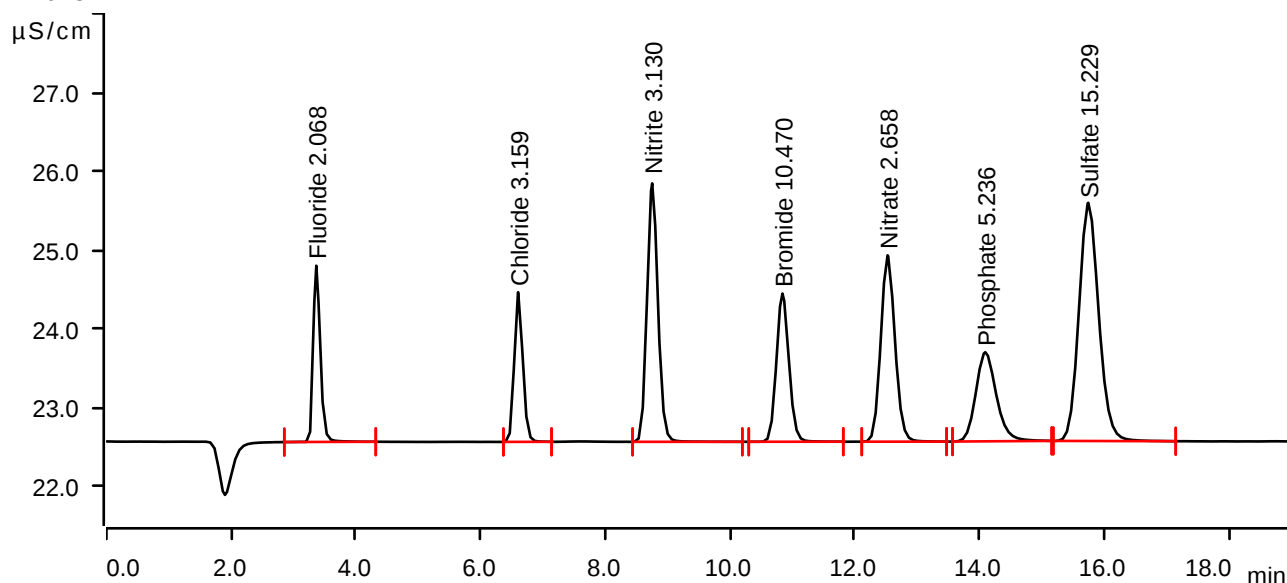
Sample data

Ident CCV
Sample type Check standard 1
Determination start 2025-04-29 11:14:08 UTC-4
Method IC1-042225
Operator

Anions

Data source Conductivity detector 1 (Eco IC 1)
Channel Conductivity
Recording time 19.0 min
Integration Automatically
Column type Metrosep A Supp 19 - 150/4.0
Eluent composition not defined
Flow 0.700 mL/min
Maximum flow monitored yes
Pressure 12.22 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.367	0.2917	2.236	2.068	Fluoride
2	6.603	0.3021	1.899	3.159	Chloride
3	8.752	0.6669	3.280	3.130	Nitrite
4	10.840	0.4370	1.880	10.470	Bromide
5	12.525	0.6267	2.364	2.658	Nitrate
6	14.092	0.4317	1.131	5.236	Phosphate
7	15.743	1.1145	3.023	15.229	Sulfate

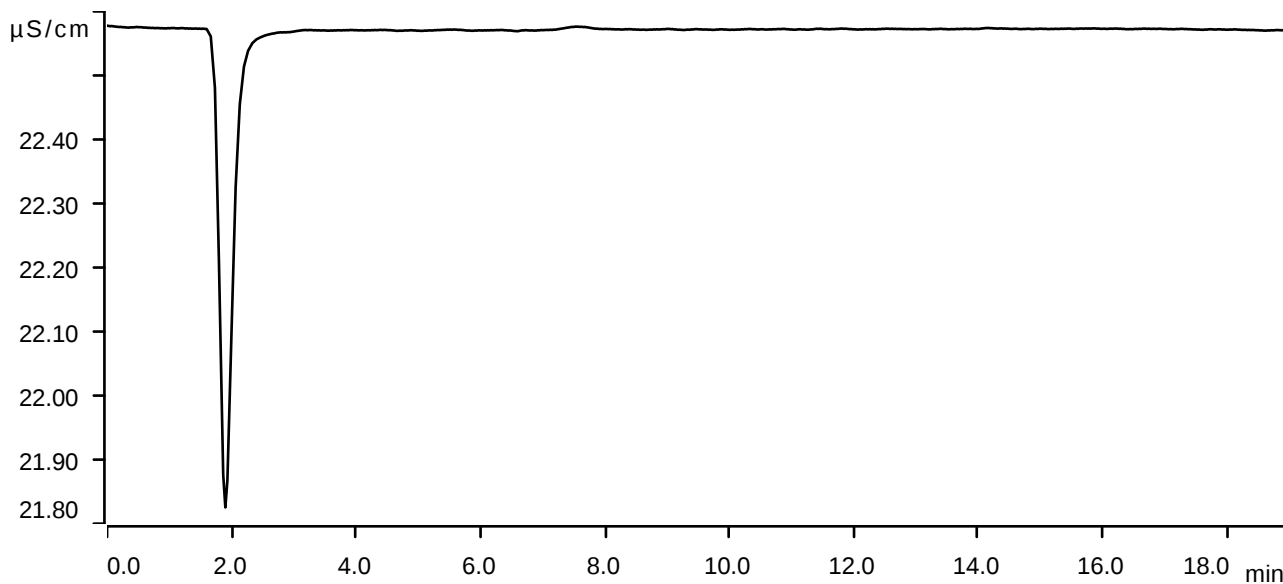
Sample data

Ident CCB
Sample type Sample
Determination start 2025-04-29 11:35:38 UTC-4
Method IC1-042225
Operator

Anions

Data source Conductivity detector 1 (Eco IC 1)
Channel Conductivity
Recording time 19.0 min
Integration Automatically
Column type Metrosep A Supp 19 - 150/4.0
Eluent composition not defined
Flow 0.700 mL/min
Maximum flow monitored yes
Pressure 12.16 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



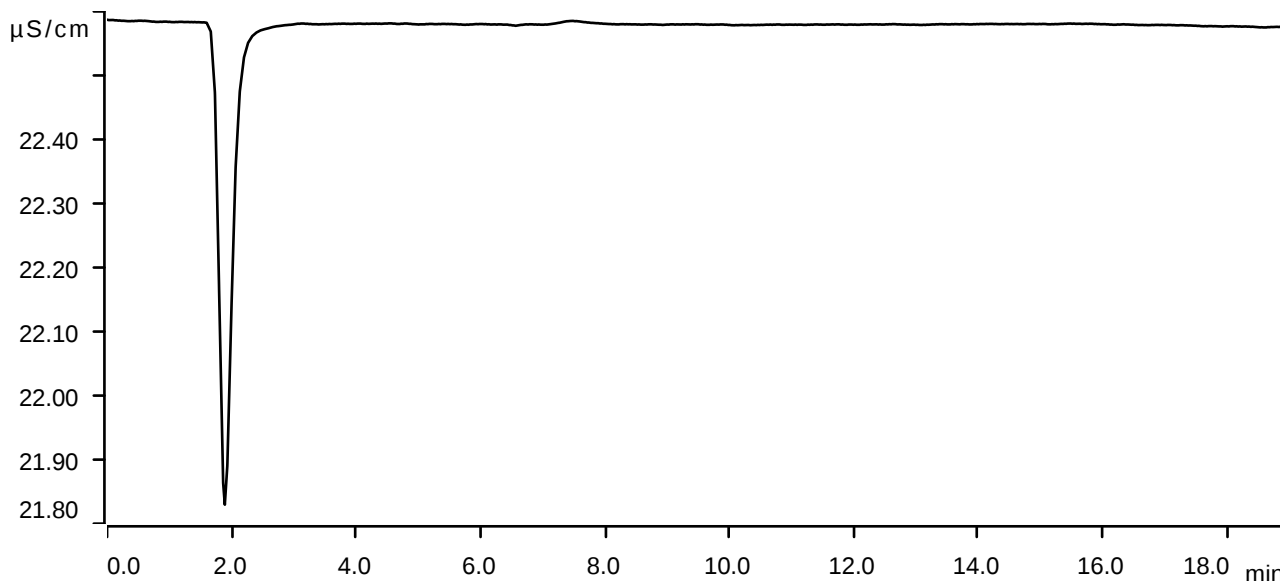
Sample data

Ident LB135679BLS
Sample type Sample
Determination start 2025-04-29 11:57:09 UTC-4
Method IC1-042225
Operator

Anions

Data source Conductivity detector 1 (Eco IC 1)
Channel Conductivity
Recording time 19.0 min
Integration Automatically
Column type Metrosep A Supp 19 - 150/4.0
Eluent composition not defined
Flow 0.700 mL/min
Maximum flow monitored yes
Pressure 12.16 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



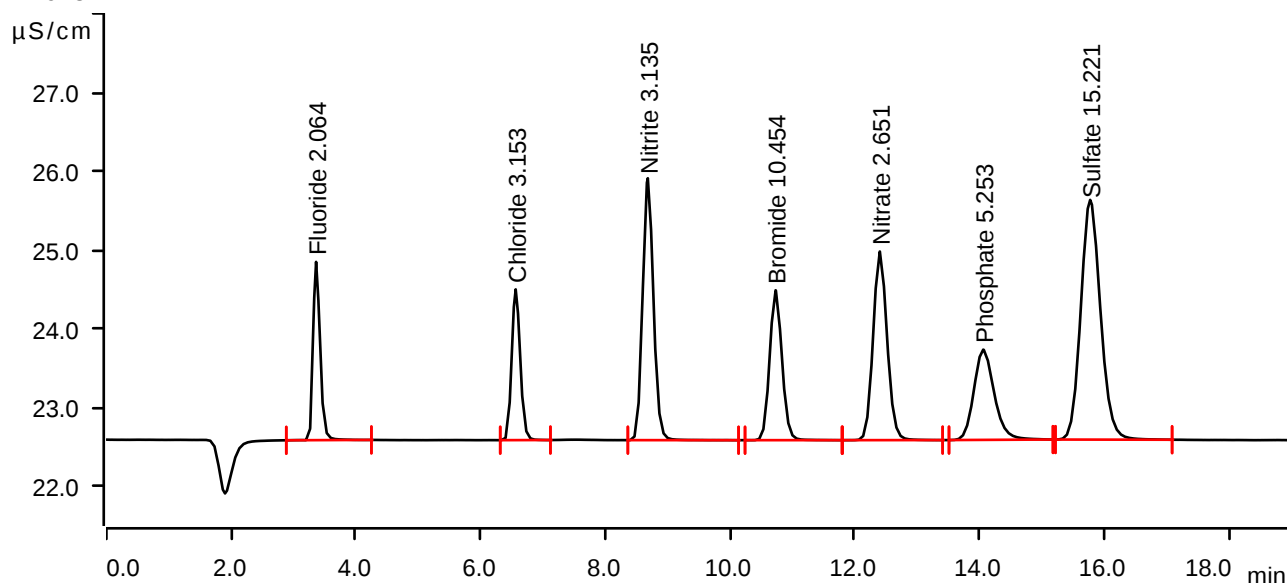
Sample data

Ident LB135679BSS
Sample type Check standard 1
Determination start 2025-04-29 12:18:40 UTC-4
Method IC1-042225
Operator

Anions

Data source Conductivity detector 1 (Eco IC 1)
Channel Conductivity
Recording time 19.0 min
Integration Automatically
Column type Metrosep A Supp 19 - 150/4.0
Eluent composition not defined
Flow 0.700 mL/min
Maximum flow monitored yes
Pressure 12.16 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.363	0.2911	2.262	2.064	Fluoride
2	6.563	0.3015	1.913	3.153	Chloride
3	8.682	0.6678	3.323	3.135	Nitrite
4	10.730	0.4363	1.902	10.454	Bromide
5	12.400	0.6252	2.393	2.651	Nitrate
6	14.058	0.4332	1.145	5.253	Phosphate
7	15.773	1.1138	3.042	15.221	Sulfate

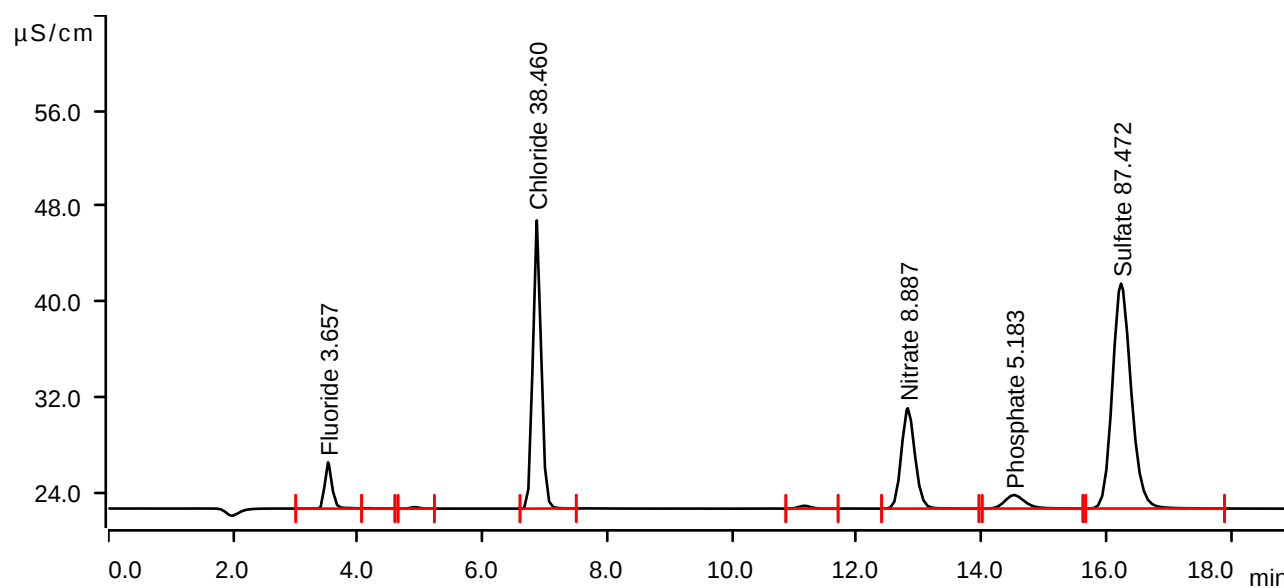
Sample data

Ident Q1872-01DLX4
Sample type Sample
Determination start 2025-04-29 13:02:04 UTC-4
Method IC1-042225
Operator

Anions

Data source Conductivity detector 1 (Eco IC 1)
Channel Conductivity
Recording time 19.0 min
Integration Automatically
Column type Metrosep A Supp 19 - 150/4.0
Eluent composition not defined
Flow 0.700 mL/min
Maximum flow monitored yes
Pressure 12.16 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



Peak number	Retention time min	Area ($\mu\text{S/cm}$) x min	Height $\mu\text{S/cm}$	Concentration ppm	Component name
1	3.522	0.5206	3.880	3.657	Fluoride
2	4.150	0.0075	0.031	invalid	
3	4.913	0.0217	0.126	invalid	
4	6.870	3.7348	24.194	38.460	Chloride
5	11.158	0.0538	0.236	1.481	
6	12.817	2.1339	8.422	8.887	Nitrate
7	14.520	0.4273	1.135	5.183	Phosphate
8	16.237	6.6160	18.880	87.472	Sulfate

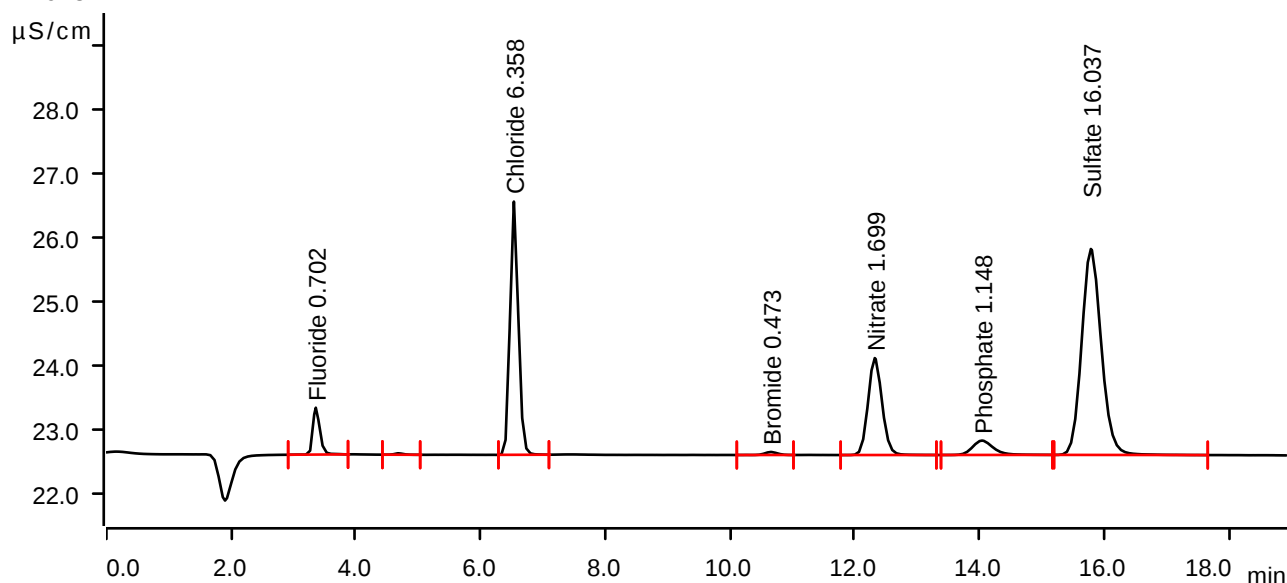
Sample data

Ident Q1872-01DL2X20
Sample type Sample
Determination start 2025-04-29 13:25:29 UTC-4
Method IC1-042225
Operator

Anions

Data source Conductivity detector 1 (Eco IC 1)
Channel Conductivity
Recording time 19.0 min
Integration Automatically
Column type Metrosep A Supp 19 - 150/4.0
Eluent composition not defined
Flow 0.700 mL/min
Maximum flow monitored yes
Pressure 12.95 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.358	0.0950	0.732	0.702	Fluoride
2	4.685	0.0035	0.022	invalid	
3	6.535	0.6132	3.954	6.358	Chloride
4	10.653	0.0108	0.047	0.473	Bromide
5	12.320	0.3947	1.514	1.699	Nitrate
6	14.040	0.0869	0.225	1.148	Phosphate
7	15.785	1.1760	3.217	16.037	Sulfate

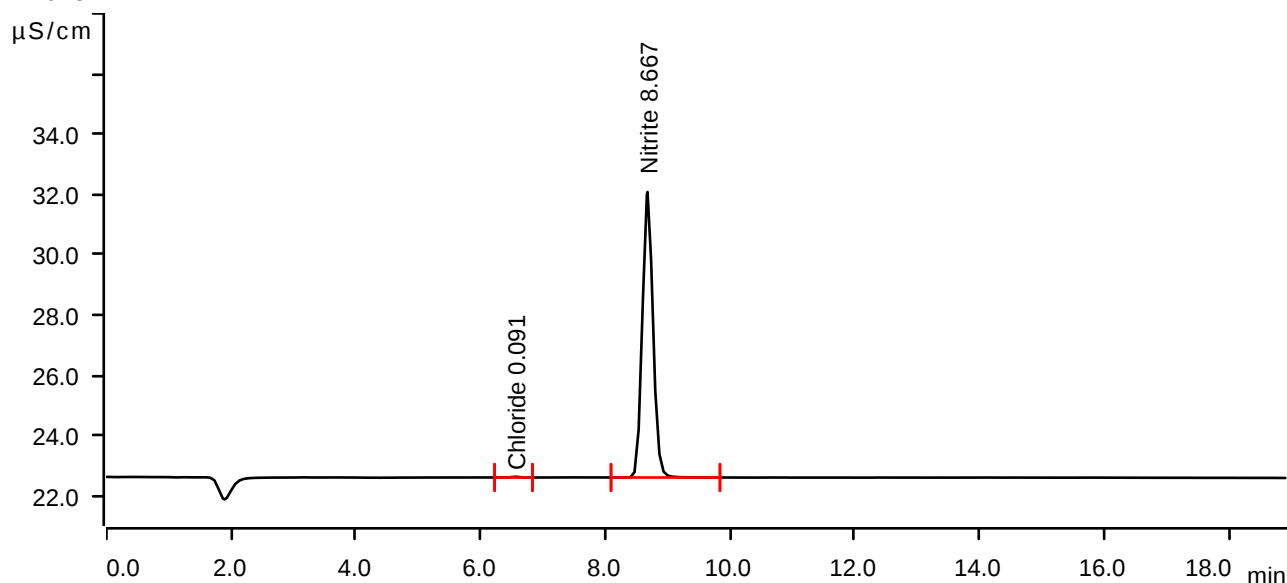
Sample data

Ident Q1872-25
Sample type Sample
Determination start 2025-04-29 14:11:24 UTC-4
Method IC1-042225
Operator

Anions

Data source Conductivity detector 1 (Eco IC 1)
Channel Conductivity
Recording time 19.0 min
Integration Automatically
Column type Metrosep A Supp 19 - 150/4.0
Eluent composition not defined
Flow 0.700 mL/min
Maximum flow monitored yes
Pressure 11.94 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	6.557	0.0038	0.024	0.091	Chloride
2	8.677	1.8794	9.476	8.667	Nitrite

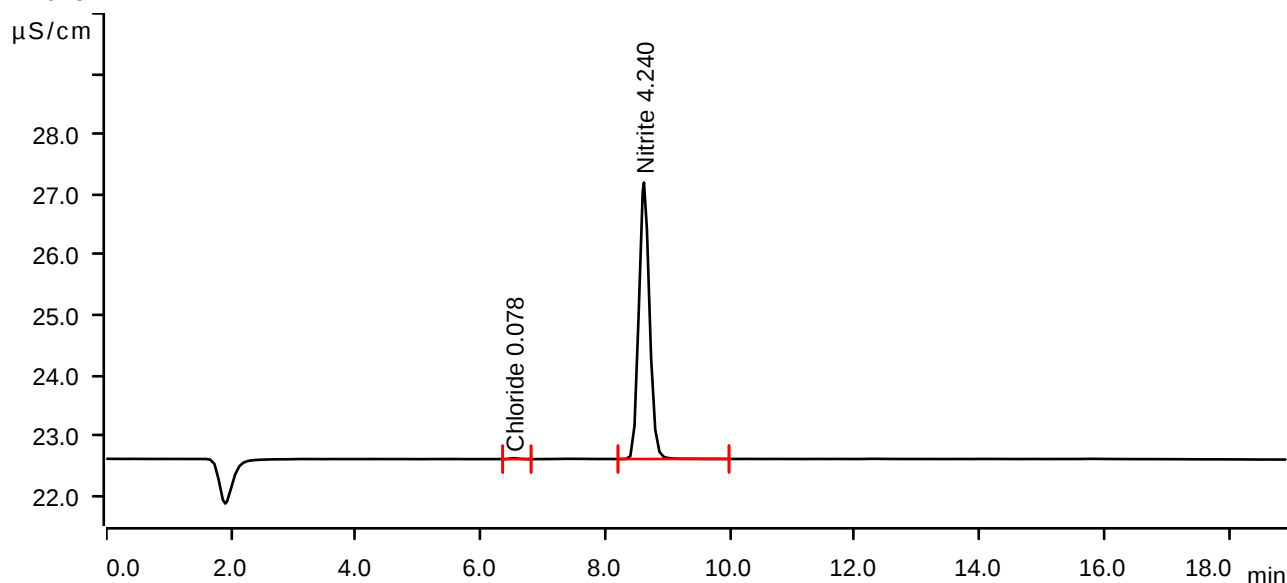
Sample data

Ident Q1872-25DLX2
Sample type Sample
Determination start 2025-04-29 14:56:19 UTC-4
Method IC1-042225
Operator

Anions

Data source Conductivity detector 1 (Eco IC 1)
Channel Conductivity
Recording time 19.0 min
Integration Automatically
Column type Metrosep A Supp 19 - 150/4.0
Eluent composition not defined
Flow 0.700 mL/min
Maximum flow monitored yes
Pressure 12.11 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	6.530	0.0024	0.015	0.078	Chloride
2	8.620	0.9099	4.588	4.240	Nitrite

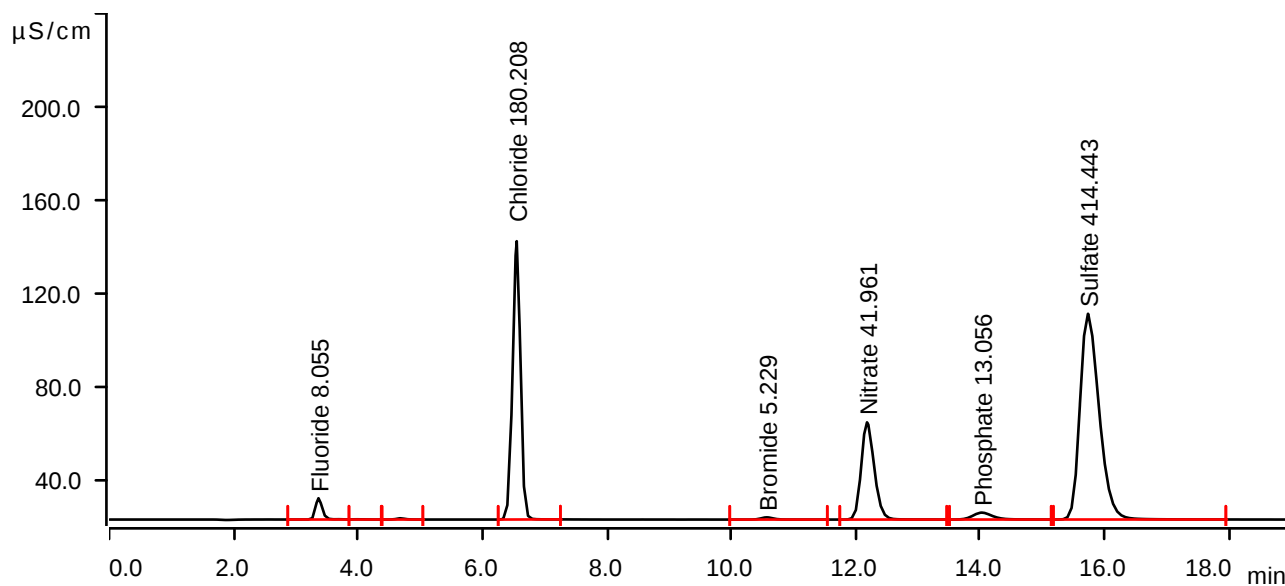
Sample data

Ident Q1872-01
Sample type Sample
Determination start 2025-04-29 15:39:14 UTC-4
Method IC1-042225
Operator

Anions

Data source Conductivity detector 1 (Eco IC 1)
Channel Conductivity
Recording time 19.0 min
Integration Automatically
Column type Metrosep A Supp 19 - 150/4.0
Eluent composition not defined
Flow 0.700 mL/min
Maximum flow monitored yes
Pressure 11.66 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



Peak number	Retention time min	Area ($\mu\text{S/cm}$) x min	Height $\mu\text{S/cm}$	Concentration ppm	Component name
1	3.367	1.1539	9.145	8.055	Fluoride
2	3.987	0.0223	0.095	invalid	
3	4.680	0.0852	0.528	invalid	
4	6.552	17.5187	119.527	180.208	Chloride
5	10.570	0.2135	0.952	5.229	Bromide
6	12.180	10.1368	41.760	41.961	Nitrate
7	14.025	1.0915	2.970	13.056	Phosphate
8	15.730	31.5162	88.370	414.443	Sulfate

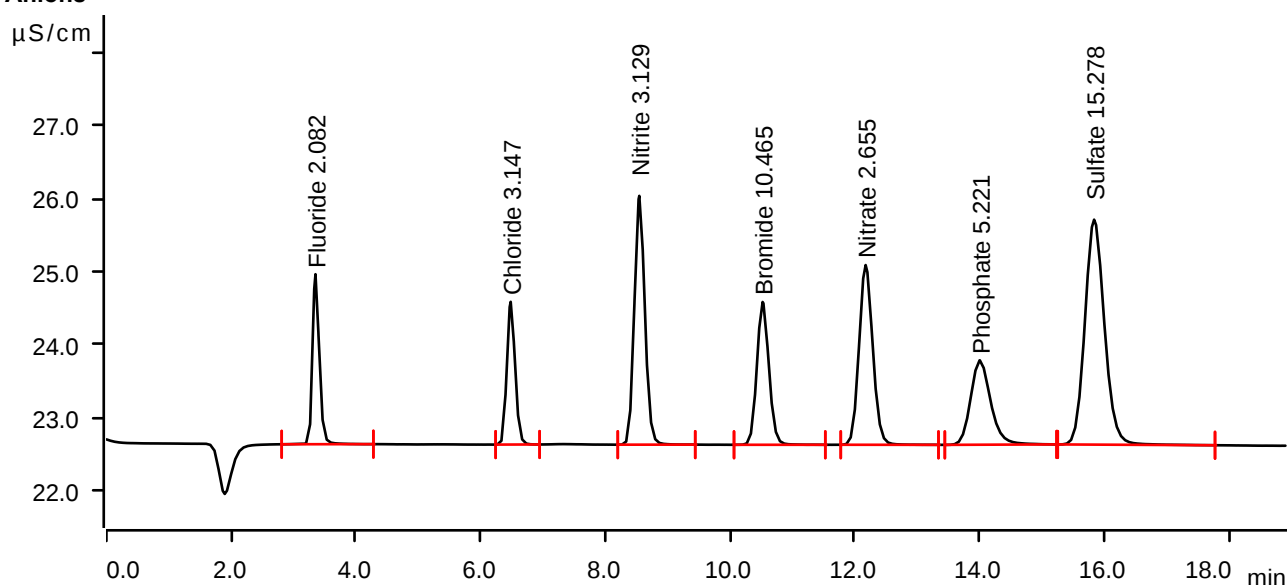
Sample data

Ident CCV
Sample type Check standard 1
Determination start 2025-04-29 16:00:45 UTC-4
Method IC1-042225
Operator

Anions

Data source Conductivity detector 1 (Eco IC 1)
Channel Conductivity
Recording time 19.0 min
Integration Automatically
Column type Metrosep A Supp 19 - 150/4.0
Eluent composition not defined
Flow 0.700 mL/min
Maximum flow monitored yes
Pressure 12.33 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.353	0.2938	2.323	2.082	Fluoride
2	6.483	0.3009	1.950	3.147	Chloride
3	8.545	0.6666	3.400	3.129	Nitrite
4	10.522	0.4368	1.952	10.465	Bromide
5	12.173	0.6260	2.456	2.655	Nitrate
6	14.005	0.4305	1.154	5.221	Phosphate
7	15.837	1.1182	3.074	15.278	Sulfate

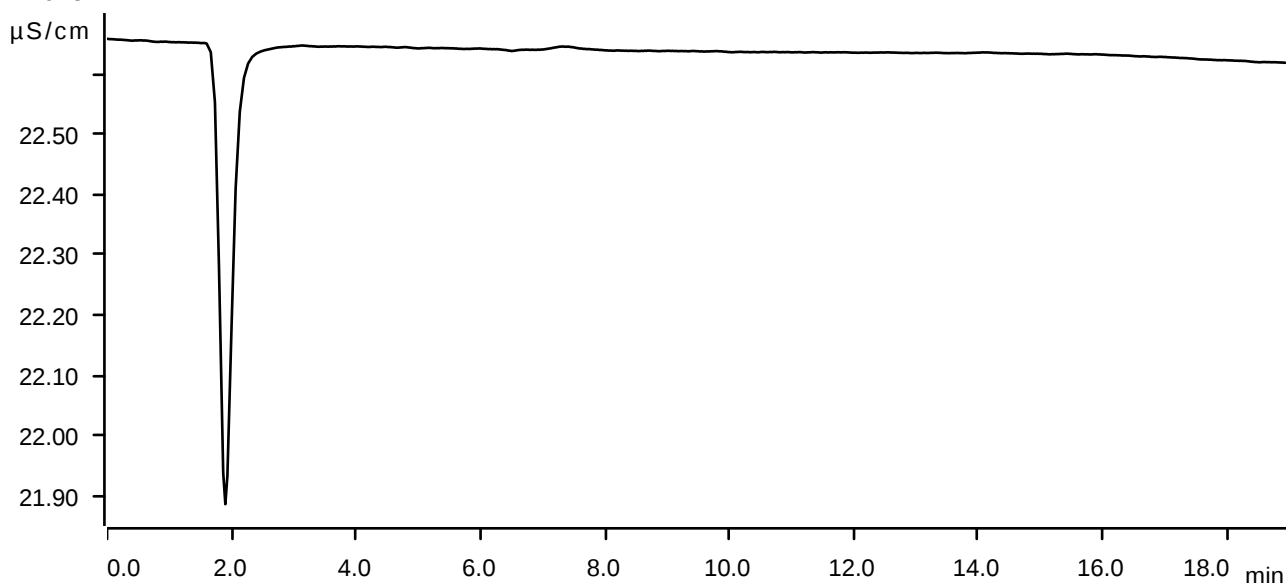
Sample data

Ident CCB
Sample type Sample
Determination start 2025-04-29 16:22:15 UTC-4
Method IC1-042225
Operator

Anions

Data source Conductivity detector 1 (Eco IC 1)
Channel Conductivity
Recording time 19.0 min
Integration Automatically
Column type Metrosep A Supp 19 - 150/4.0
Eluent composition not defined
Flow 0.700 mL/min
Maximum flow monitored yes
Pressure 11.43 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



WORKLIST(Hardcopy Internal Chain)

LB135679

WorkList Name : Anions-042925 WorkList ID : 189342 Department : Wet-Chemistry Date : 04-29-2025 10:39:13

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1872-01	HW0425-PT-AN-SOIL	Solid	Anions Group1	1:1 HNO3 to pH < 2	ALLI03	QA Of	04/21/2025	9056A
Q1872-25	HW0425-PT-NO2-SOIL	Solid	Anions Group2	1:1 HNO3 to pH < 2	ALLI03	QA Of	04/21/2025	9056A

Date/Time 04/29/25 11:00
Raw Sample Received by: 12 (20)
Raw Sample Relinquished by: ST (QA0)

Date/Time NA
Raw Sample Received by: "
Raw Sample Relinquished by: "

Lb1356

Test results

Aquakem 7.2AQ1

Page:

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

Reviewed by : RM

Instrument ID : Konelab

5/7/2025 12:38

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	98.999	0.0	0.065	
ICB1	1.366	0.0	0.001	
CCV1	245.155	0.0	0.161	
CCB1	1.415	0.0	0.001	
PB167873BL	1.277	0.0	0.001	
PB167873BS	95.439	0.0	0.063	
LOWPB167873	10.055	0.0	0.007	
HIGHPB167873	489.793	0.0	0.320	
Q1936-01	4.691	0.0	0.003	
Q1936-03	2.081	0.0	0.002	
Q1936-07	2.027	0.0	0.002	
Q1937-01	1.395	0.0	0.001	
Q1937-03	1.254	0.0	0.001	
Q1936-05	1.159	0.0	0.001	
CCV2	241.524	0.0	0.158	
CCB2	1.206	0.0	0.001	
Q1937-05	1.512	0.0	0.001	
Q1937-07	1.606	0.0	0.001	
Q1937-09	1.345	0.0	0.001	
Q1937-11	1.484	0.0	0.001	
Q1938-01	1.147	0.0	0.001	
Q1938-03	3.397	0.0	0.003	
Q1938-05	2.140	0.0	0.002	
Q1938-07	1.418	0.0	0.001	
Q1938-07DUP	1.574	0.0	0.001	
Q1938-07MS	42.495	0.0	0.028	
CCV3	249.805	0.0	0.164	
CCB3	1.592	0.0	0.001	
Q1938-07MSD	41.652	0.0	0.028	
Q1872-03	1053.849	0.0	0.689	Test limit high
CCV4	244.653	0.0	0.160	
CCB4	1.208	0.0	0.001	
Q1872-03DLX5	224.652	0.0	0.147	
CCV5	249.524	0.0	0.163	
CCB5	1.572	0.0	0.001	

100% (90-110)
97% (90-110) 05/07/2025
RM

N 35
Mean 95.013
SD 203.6856
CV% 214.38

Aquakem v. 7.2AQ1

Results from time period:

Wed May 07 09:20:29 2025

Wed May 07 12:13:55 2025

Sample Id	Sam/Ctr/c/	Test short name	Test type	Result	Result unit	Result date and time	Stat
0.0PPBCN	A	Total CN	P	1.024	µg/l	5/7/2025 10:11:56	
5.0PPBCN	A	Total CN	P	5.4111	µg/l	5/7/2025 10:11:57	
10PPBCN	A	Total CN	P	10.9055	µg/l	5/7/2025 10:11:58	
50PPBCN	A	Total CN	P	47.916	µg/l	5/7/2025 10:11:59	
100PPBCN	A	Total CN	P	100.5029	µg/l	5/7/2025 10:12:00	
250PPBCN	A	Total CN	P	248.3098	µg/l	5/7/2025 10:12:01	
500PPBCN	A	Total CN	P	500.9307	µg/l	5/7/2025 10:12:02	
ICV1	S	Total CN	P	98.9986	µg/l	5/7/2025 11:02:11	
ICB1	S	Total CN	P	1.3662	µg/l	5/7/2025 11:02:12	
CCV1	S	Total CN	P	245.1545	µg/l	5/7/2025 11:02:14	
CCB1	S	Total CN	P	1.415	µg/l	5/7/2025 11:02:17	
PB167873BL	S	Total CN	P	1.2768	µg/l	5/7/2025 11:02:18	
PB167873BS	S	Total CN	P	95.4394	µg/l	5/7/2025 11:09:45	
LOWPB167873	S	Total CN	P	10.0553	µg/l	5/7/2025 11:09:48	
HIGHPB167873	S	Total CN	P	489.7934	µg/l	5/7/2025 11:09:51	
Q1936-01	S	Total CN	P	4.6908	µg/l	5/7/2025 11:09:52	
Q1936-03	S	Total CN	P	2.0812	µg/l	5/7/2025 11:09:53	
Q1936-07	S	Total CN	P	2.0272	µg/l	5/7/2025 11:09:55	
Q1937-01	S	Total CN	P	1.3954	µg/l	5/7/2025 11:17:19	
Q1937-03	S	Total CN	P	1.2537	µg/l	5/7/2025 11:17:20	
Q1936-05	S	Total CN	P	1.1592	µg/l	5/7/2025 11:17:21	
CCV2	S	Total CN	P	241.5237	µg/l	5/7/2025 11:17:24	
CCB2	S	Total CN	P	1.2063	µg/l	5/7/2025 11:17:26	
Q1937-05	S	Total CN	P	1.5117	µg/l	5/7/2025 11:17:27	
Q1937-07	S	Total CN	P	1.6058	µg/l	5/7/2025 11:17:28	
Q1937-09	S	Total CN	P	1.3449	µg/l	5/7/2025 11:17:29	
Q1937-11	S	Total CN	P	1.4839	µg/l	5/7/2025 11:22:07	
Q1938-01	S	Total CN	P	1.1473	µg/l	5/7/2025 11:22:08	
Q1938-03	S	Total CN	P	3.3973	µg/l	5/7/2025 11:22:09	
Q1938-05	S	Total CN	P	2.1398	µg/l	5/7/2025 11:22:10	
Q1938-07	S	Total CN	P	1.4185	µg/l	5/7/2025 11:29:42	
Q1938-07DUP	S	Total CN	P	1.5738	µg/l	5/7/2025 11:29:43	
Q1938-07MS	S	Total CN	P	42.4946	µg/l	5/7/2025 11:29:46	
CCV3	S	Total CN	P	249.8048	µg/l	5/7/2025 11:29:48	
CCB3	S	Total CN	P	1.5922	µg/l	5/7/2025 11:29:50	
Q1938-07MSD	S	Total CN	P	41.6518	µg/l	5/7/2025 11:29:52	
Q1872-03	S	Total CN	P	1053.8491	µg/l	5/7/2025 11:37:17	
CCV4	S	Total CN	P	244.6532	µg/l	5/7/2025 11:44:56	
CCB4	S	Total CN	P	1.2076	µg/l	5/7/2025 11:44:59	
Q1872-03DLX5	S	Total CN	P	224.6522	µg/l	5/7/2025 12:09:08	
CCV5	S	Total CN	P	249.5241	µg/l	5/7/2025 12:13:52	
CCB5	S	Total CN	P	1.5718	µg/l	5/7/2025 12:13:55	

Calibration results

Aquakem 7.2AQ1

Page: 1

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

Reviewed by : RM

Instrument ID : Konelab

5/7/2025 10:12

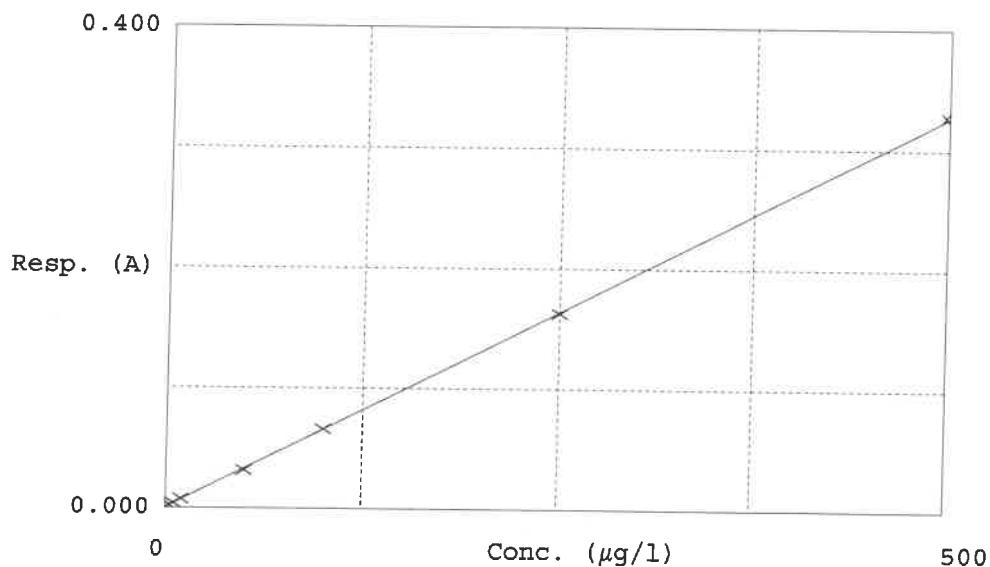
Test Total CN

Accepted 5/7/2025 10:12

Factor 1530
Bias 0

Coeff. of det. 0.999950

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.0PPBCN	0.001	1.0240	0.0000	8.2
2	5.0PPBCN	0.004	5.4111	5.0000	9.1
3	10PPBCN	0.007	10.9055	10.0000	-4.2
4	50PPBCN	0.032	47.9160	50.0000	0.5
5	100PPBCN	0.066	100.5029	100.0000	-0.7
6	250PPBCN	0.163	248.3098	250.0000	0.2
7	500PPBCN	0.328	500.9307	500.0000	

05/07/2025
RM

LB13569

Test results

Aquakem 7.2AQ1

Page:

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

Reviewed by : RM Instrument ID : Konelab

5/7/2025 13:18

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	96.220	0.0	0.063	
ICB1	1.346	0.0	0.001	
CCV1	239.056	0.0	0.157	
CCB1	1.371	0.0	0.001	
PB167896BL	1.054	0.0	0.001	
PB167896BS	100.208	0.0	0.066	
Q1872-04	1061.850	0.0	0.694	Test limit high
Q1872-04DLX5	229.099	0.0	0.150	
CCV2	241.961	0.0	0.158	
CCB2	1.300	0.0	0.001	

N	10
Mean	197.347
SD	320.6860
CV%	162.50

Aquakem v. 7.2AQ1

Results from time period:

Wed May 07 13:09:51 2025

Wed May 07 13:16:38 2025

Sample Id	Sam/Ctr/c	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPBCN	A	Total CN	P	1.024	µg/l	5/7/2025 10:11:56	
5.0PPBCN	A	Total CN	P	5.4111	µg/l	5/7/2025 10:11:57	
10PPBCN	A	Total CN	P	10.9055	µg/l	5/7/2025 10:11:58	
50PPBCN	A	Total CN	P	47.916	µg/l	5/7/2025 10:11:59	
100PPBCN	A	Total CN	P	100.5029	µg/l	5/7/2025 10:12:00	
250PPBCN	A	Total CN	P	248.3098	µg/l	5/7/2025 10:12:01	
500PPBCN	A	Total CN	P	500.9307	µg/l	5/7/2025 10:12:02	
ICV1	S	Total CN	P	96.2199	µg/l	5/7/2025 13:09:52	
ICB1	S	Total CN	P	1.3462	µg/l	5/7/2025 13:09:53	
CCV1	S	Total CN	P	239.0562	µg/l	5/7/2025 13:09:55	
CCB1	S	Total CN	P	1.3714	µg/l	5/7/2025 13:09:58	
PB167896BL	S	Total CN	P	1.0541	µg/l	5/7/2025 13:09:59	
PB167896BS	S	Total CN	P	100.2082	µg/l	5/7/2025 13:10:01	
Q1872-04	S	Total CN	P	1061.851	µg/l	5/7/2025 13:16:31	
Q1872-04DLX5	S	Total CN	P	229.0995	µg/l	5/7/2025 13:16:33	
CCV2	S	Total CN	P	241.9607	µg/l	5/7/2025 13:16:36	
CCB2	S	Total CN	P	1.2998	µg/l	5/7/2025 13:16:38	

=====
Calibration results Aquakem 7.2AQ1 Page: 1

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

Reviewed by : RM Instrument ID : Konelab

5/7/2025 10:12

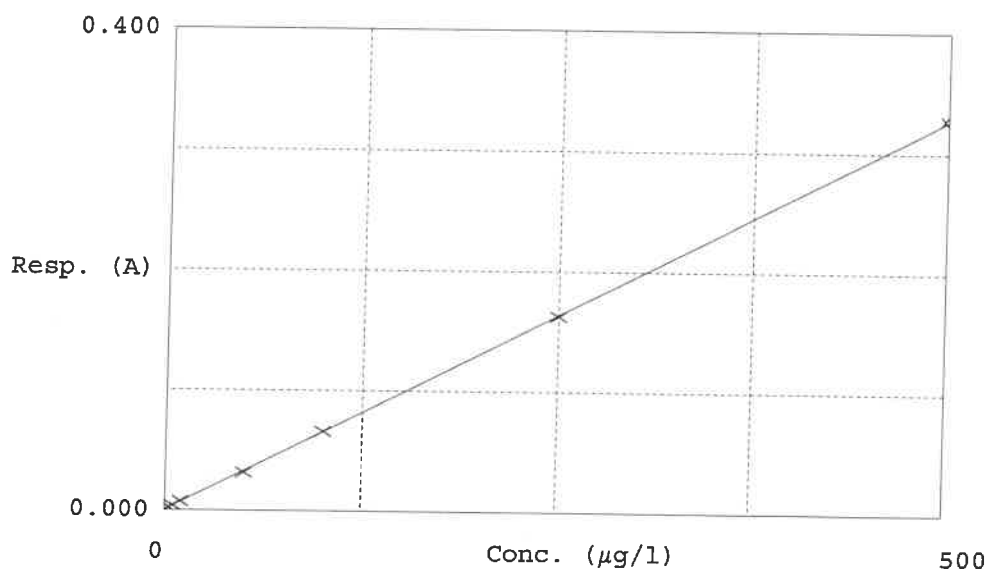
Test Total CN

Accepted 5/7/2025 10:12

Factor 1530
Bias 0

Coeff. of det. 0.999950

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.0PPBCN	0.001	1.0240	0.0000	8.2
2	5.0PPBCN	0.004	5.4111	5.0000	9.1
3	10PPBCN	0.007	10.9055	10.0000	-4.2
4	50PPBCN	0.032	47.9160	50.0000	0.5
5	100PPBCN	0.066	100.5029	100.0000	-0.7
6	250PPBCN	0.163	248.3098	250.0000	0.2
7	500PPBCN	0.328	500.9307	500.0000	

05/07/2025
RM

Analytical Summary Report

Analysis Method: 9045D
Parameter: Corrosivity
Run Number: LB135698
BalanceID: WC SC-7

Analyst By : jignesh
Supervisor Review By : Iwona
Slope : 98.2
pH Meter ID : WC PH METER-1

Calibration Standards	Chemtech Log#
PH 4 BUFFER SOLUTION	W3178
BUFFER PH 7.00 GREEN 1PINT PK6	W3093
PH 10.01 BUFFER, COLOR CD 475ML	W3191
buffer solution pH 7 yellow	W3071
Buffer Solution, PH2 (500ml)	W3161
Buffer Solution, PH12 (500ml)	W3072

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

True Value of CCV1 = 2.00 Control Limits[+/- 0.1].

True Value of CCV2 = 12.00 Control Limits[+/- 0.1].

True Value of CCV3 = 2.00 Control Limits[+/- 0.1].

Seq	LabID	DF	Matrix	Weight (gm)	Volume (ml)	Temperature (°C)	Result (pH)	Anal Date	Anal Time
1	CAL1	1	Water	NA	NA	20.3	4.01	05/07/2025	15:00
2	CAL2	1	Water	NA	NA	20.4	7.01	05/07/2025	15:01
3	CAL3	1	Water	NA	NA	20.3	10.04	05/07/2025	15:05
4	ICV	1	Water	NA	NA	20.4	7.00	05/07/2025	15:10
5	CCV1	1	Water	NA	NA	20.2	2.01	05/07/2025	15:11
6	Q1872-02	1	Solid	20.02	20	21.2	9.10	05/07/2025	15:20
7	Q1964-04	1	Solid	20.03	20	21.7	6.13	05/07/2025	15:25
8	Q1964-04DUP	1	Solid	20.04	20	21.8	6.14	05/07/2025	15:26
9	Q1966-03	1	Solid	20.02	20	22.7	7.13	05/07/2025	15:33
10	Q1968-04	1	Solid	20.03	20	21.3	5.53	05/07/2025	15:40
11	Q1968-08	1	Solid	20.04	20	20.3	8.73	05/07/2025	15:45
12	Q1972-04	1	Solid	20.02	20	21.7	5.54	05/07/2025	15:52
13	Q1972-08	1	Solid	20.01	20	22.2	5.55	05/07/2025	16:00
14	Q1972-12	1	Solid	20.03	20	21.9	5.77	05/07/2025	16:10
15	Q1972-16	1	Solid	20.04	20	22.1	7.67	05/07/2025	16:15
16	CCV2	1	Water	NA	NA	20.2	12.02	05/07/2025	16:20
17	Q1972-20	1	Solid	20.03	20	21.9	5.76	05/07/2025	16:25
18	Q1972-24	1	Solid	20.04	20	21.5	7.53	05/07/2025	16:35
19	Q1974-02	1	Solid	20.02	20	21.4	7.24	05/07/2025	16:40
20	Q1974-04	1	Solid	20.01	20	22.9	5.39	05/07/2025	16:45

Seq	LabID	DF	Matrix	Weight (gm)	Volume (ml)	Temperature (°C)	Result (pH)	Anal Date	An
21	CCV3	1	Water	NA	NA	20.3	2.01	05/07/2025	16:50

- 1
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- 14

WORKLIST(Hardcopy Internal Chain)

B 135596

WorkList Name : corrosivity q1968 WorkList ID : 189366 Department : Wet-Chemistry Date : 05-07-2025 12:24:20

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1872-02	HW0425-PT-CORR-SOIL	Solid	Corrosivity	Cool 4 deg C	ALLI03	QA Of	04/21/2025	9045D
Q1964-04	MH-LL	Solid	Corrosivity	Cool 4 deg C	PSEG03	L31	05/06/2025	9045D
Q1966-03	SILICA-GEL	Solid	Corrosivity	Cool 4 deg C	PSEG03	L41	05/06/2025	9045D
Q1968-04	MH-M	Solid	Corrosivity	Cool 4 deg C	PSEG03	L41	05/06/2025	9045D
Q1968-08	MH-M	Solid	Corrosivity	Cool 4 deg C	PSEG03	L41	05/06/2025	9045D
Q1972-04	SUB-WC	Solid	Corrosivity	Cool 4 deg C	PSEG03	L41	05/06/2025	9045D
Q1972-08	WC-B-10	Solid	Corrosivity	Cool 4 deg C	PSEG03	L51	05/07/2025	9045D
Q1972-12	WC-B-2	Solid	Corrosivity	Cool 4 deg C	PSEG03	L51	05/07/2025	9045D
Q1972-16	WC-B-7	Solid	Corrosivity	Cool 4 deg C	PSEG03	L51	05/07/2025	9045D
Q1972-20	SUB-WC-2	Solid	Corrosivity	Cool 4 deg C	PSEG03	L51	05/07/2025	9045D
Q1972-24	WC-B-1	Solid	Corrosivity	Cool 4 deg C	PSEG03	L51	05/07/2025	9045D
Q1974-02	OILY-DEBRIS-COMP	Solid	Corrosivity	Cool 4 deg C	PSEG03	L51	05/07/2025	9045D
Q1974-04	OILY-PADS	Solid	Corrosivity	Cool 4 deg C	PSEG03	L41	05/07/2025	9045D

Date/Time 05/07/25 14:20
Raw Sample Received by: SP CDDI
Raw Sample Relinquished by: SP CDDI

Date/Time 05/07/25 17:30
Raw Sample Received by: JI CDDI
Raw Sample Relinquished by: SP CDDI

Analytical Summary Report

Analysis Method: 1010B

Reviewed By: rubina

Parameter: Flash Point

Supervisor Review By: jignesh

Run Number: LB135703

Ambient Barometric Pressure (mmHg): 760.00

Thermometer ID: Flash Point

Barometric Scale ID: 0511064

Reagent/Standard	Lot/Log #
p-xylene (ICV)	W3193

Seq	LabID	True Value °F	DL	Initial Sample °C	Celsius °C	Result °F	Final Result °F	Anal Date	Anal Time
1	ICV	81	1	9	28.00	82.4	82.4	05/08/2025	08:30
2	Q1872-05		1	6	47.00	116.6	116.6	05/08/2025	09:00
3	Q1965-01		1	11	100.00	>212.0	>212.0	05/08/2025	09:30
4	Q1965-01DUP		1	11	100.00	>212.0	>212.0	05/08/2025	10:00

Result = (Celsius * 1.8) + 32

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

WORKLIST(Hardcopy Internal Chain)

66135703

WorkList Name : fp-soil-05-07 WorkList ID : 189356 Department : Wet-Chemistry Date : 05-07-2025 08:29:55

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1872-05	HW0425-PT-FP-SOIL	Solid	Flash Point	Cool 4 deg C	ALLI03	QA 01	04/21/2025	1010B
Q1965-01	50623	Solid	Flash Point	Cool 4 deg C	PSEG03	L41	05/06/2025	1010B

Date/Time 05/08/2025 08:20
Raw Sample Received by: RM (WC)
Raw Sample Relinquished by: JH (WC)

Date/Time 05/08/2025 10:40
Raw Sample Received by: JH (WC)
Raw Sample Relinquished by: RM (WC)

Extraction and Analytical Summary Report

Analysis Method: 9071B
Test: Oil and Grease
Run Number: LB135760
Analysis Date: 05/14/2025
BalanceID: WC SC-6
OvenID: EXT OVEN-3

ANALYST: jignesh
REVIEWED BY: Iwona
Extraction Date: 05/14/2025
Extraction IN Time: 08:35
Extraction OUT Time: 09:30
Thermometer ID: EXT OVEN#3

Dish #	Lab ID	Client ID	Matrix	pH	Sample Weight (g)	Final Volume (mL)	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Silica Gel Weight (g)	Weight After Drying (g)	Final Weight After Drying (g)	Change Weight (g)	Result in ppm
1	LB135760BL	LB135760BL	SOLID		20.02	100	3.0257	3.0257	0	3.0258	3.0258	0.0001	5
2	LB135760BS	LB135760BS	SOLID		20.03	100	2.8741	2.8741	0	2.8760	2.8760	0.0019	94.86
3	Q1872-09	HW0425-PT-OGR-SOIL	SOLID		20.02	100	3.0642	3.0642	0	3.0806	3.0806	0.0164	819.18
4	Q2001-02	WC-A4-03-C	SOLID		20.03	100	3.0488	3.0488	0	3.0604	3.0604	0.0116	579.13
5	Q2001-02DUP	WC-A4-03-CDUP	SOLID		20.04	100	3.0525	3.0525	0	3.0643	3.0643	0.0118	588.82
6	Q2001-02MS	WC-A4-03-C	SOLID		20.03	100	3.0354	3.0354	0	3.0503	3.0503	0.0149	743.88
7	Q2001-02MSD	WC-A4-03-C	SOLID		20.05	100	3.0337	3.0337	0	3.0487	3.0487	0.0150	748.13
8	Q2001-06	WC-A1-05-C	SOLID		20.04	100	3.0084	3.0084	0	3.0211	3.0211	0.0127	633.73
9	Q2001-10	WC-A1-06-C	SOLID		20.03	100	3.0373	3.0373	0	3.0627	3.0627	0.0254	1268.1
10	Q2001-14	WC-A1-07-C	SOLID		20.04	100	3.0371	3.0371	0	3.0522	3.0522	0.0151	753.49

QC Batch# LB135760 Test: Oil and Grease Analysis Date: 05/14/2025

Chemicals Used:

Chemical Name	Chemical Lot #
HEXANE	W3204
pH Paper 0-14	NA
Sodium Sulfate	EP2611
1:1 HCL	NA
Silica Gel	NA
Sand	E2865

Standards Used:

Standard Name	Amount Used	Standard Lot #
LCSS	1.00 ML	WP112785
LCSSD	NA	NA
MS/MSD	1.00 ML	WP112786

BALANCE CALIBRATION / OVEN Dessicator Data

Analytical Balance ID # : WC SC-6

Before Analysis

0.0020 gram Balance: 0.0018 (0.0018-0.0022) In OVEN TEMP1 : 70 °C Dessicator Time In1 : 11:26
 1.0000 gram Balance: 1.0005 (0.9950-1.0050) In Time1: 10:40
 Bal Check Time: 08:44 Out OVEN TEMP1: 70 °C Dessicator Time Out1: 12:00
 Out Time1: 11:25

After Analysis

0.0020 gram Balance: 0.0019 (0.0018-0.0022) In OVEN TEMP2 : 71 °C Dessicator Time In2 : 13:01
 1.0000 gram Balance: 1.0004 (0.9950-1.0050) In Time2: 12:30
 Bal Check Time: 13:40 Out OVEN TEMP2: 71 °C Dessicator Time Out2: 13:35
 Out Time2: 13:00

WORKLIST(Hardcopy Internal Chain)

WB 135760

WorkList Name : OIL & GREASE Q2001

WorkList ID : 189495

Department : Wet-Chemistry

Date : 05-14-2025 08:15:13

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1872-09	HW0425-PT-OGR-SOIL	Solid	Oil and Grease	Cool 4 deg C	ALLI03	QA 01	04/21/2025	9071B
Q2001-02	WC-A4-03-C	Solid	Oil and Grease	Cool 4 deg C	ENTA05	L61	05/06/2025	9071B
Q2001-06	WC-A1-05-C	Solid	Oil and Grease	Cool 4 deg C	ENTA05	L61	05/07/2025	9071B
Q2001-10	WC-A1-06-C	Solid	Oil and Grease	Cool 4 deg C	ENTA05	L61	05/08/2025	9071B
Q2001-14	WC-A1-07-C	Solid	Oil and Grease	Cool 4 deg C	ENTA05	L61	05/08/2025	9071B

Date/Time 05-14-25 08:25

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 05-14-25

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Sample ID	Result	Std. Dev.	RSD	Mode	ALT
CCV1	944.4701			TOC	
CCV1	994.0243			TOC	
CCV1	1004.6030			TOC	
CCV1.....	990.3159...	..	...	TOC	..
CCB1	3.6464			TOC	
CCB1	5.0358			TOC	
CCB1.....	7.4109...	..	...	TOC	..
CCB1	3.8652			TOC	
LB135761BLS	4.3632			TOC	
LB135761BLS.....	3.4836...	..	...	TOC	..
LB135761BLS	3.4217			TOC	
LB135761BLS	6.9535			TOC	
LB135761BSS.....	1035.1798...	..	...	TOC	..
LB135761BSS	1022.0027			TOC	
LB135761BSS	1021.1603			TOC	
LB135761BSS.....	1021.0459...	..	...	TOC	..
Q2126-04	63.4834			TOC	
Q2126-04	65.0843			TOC	
Q2126-04.....	64.4828...	..	...	TOC	..
Q2126-04	59.2571			TOC	
Q2126-05	286.0585			TOC	
Q2126-05.....	287.1295...	..	...	TOC	..
Q2126-05	287.7685			TOC	
Q2126-05	288.7710			TOC	
Q1872-08.....	12147.9795...	..	...	TOC	..
Q1872-08	13737.0488			TOC	
Q1872-08	13728.8574			TOC	
Q1872-08.....	13547.1953...	..	...	TOC	..
CCV2	1049.9238			TOC	
CCV2	1034.9456			TOC	
CCV2.....	1056.1526...	..	...	TOC	..
CCV2	1035.3625			TOC	
CCB2	3.5826			TOC	
CCB2.....	4.9476...	..	...	TOC	..
CCB2	6.5440			TOC	
CCB2	4.7573			TOC	

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Method ID	Sample Type	Vial	Timestamp	Message
Boat Sampler	Sample		2025/05/27 08:34	
Boat Sampler	Sample		2025/05/27 08:37	
Boat Sampler	Sample		2025/05/27 08:39	
Boat Sampler	...Sample	..	..2025/05/27 08:42	..
Boat Sampler	Sample		2025/05/27 08:48	Low Sample Detected
Boat Sampler	Sample		2025/05/27 08:52	Low Sample Detected
Boat Sampler	...Sample	..	..2025/05/27 08:57	..Low Sample Detected
Boat Sampler	Sample		2025/05/27 09:00	Low Sample Detected
Boat Sampler	Sample		2025/05/27 09:07	Low Sample Detected
Boat Sampler	...Sample	..	..2025/05/27 09:10	..Low Sample Detected
Boat Sampler	Sample		2025/05/27 09:13	Low Sample Detected
Boat Sampler	Sample		2025/05/27 09:17	Low Sample Detected
Boat Sampler	...Sample	..	..2025/05/27 09:19	..
Boat Sampler	Sample		2025/05/27 09:22	
Boat Sampler	Sample		2025/05/27 09:24	
Boat Sampler	...Sample	..	..2025/05/27 09:27	..
Boat Sampler	Sample		2025/05/27 09:29	
Boat Sampler	Sample		2025/05/27 09:31	
Boat Sampler	...Sample	..	..2025/05/27 09:33	..
Boat Sampler	Sample		2025/05/27 09:35	
Boat Sampler	Sample		2025/05/27 09:37	
Boat Sampler	...Sample	..	..2025/05/27 09:39	..
Boat Sampler	Sample		2025/05/27 09:41	
Boat Sampler	Sample		2025/05/27 09:43	
Boat Sampler	...Sample	..	..2025/05/27 10:01	..
Boat Sampler	Sample		2025/05/27 10:10	
Boat Sampler	Sample		2025/05/27 10:15	
Boat Sampler	...Sample	..	..2025/05/27 10:19	..
Boat Sampler	Sample		2025/05/27 10:25	
Boat Sampler	Sample		2025/05/27 10:27	
Boat Sampler	...Sample	..	..2025/05/27 10:30	..
Boat Sampler	Sample		2025/05/27 10:33	
Boat Sampler	Sample		2025/05/27 10:40	Low Sample Detected
Boat Sampler	...Sample	..	..2025/05/27 10:43	..Low Sample Detected
Boat Sampler	Sample		2025/05/27 10:46	Low Sample Detected
Boat Sampler	Sample		2025/05/27 10:49	Low Sample Detected

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Last Message: Low Sample Detected
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Sample ID: CCB1 Mode: TOC
Method: Boat Sampler Filename: 05270854
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 08:57
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	7.4109	0.2964	22349	-2.486	-2.517	120

Last Message: Low Sample Detected
=====

Sample ID: CCB1 Mode: TOC
Method: Boat Sampler Filename: 05270857
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 09:00
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.8652	0.1546	11657	-2.469	-2.579	120

Last Message: Low Sample Detected
=====

Sample ID: LB135761BLS Mode: TOC
Method: Boat Sampler Filename: 05270904
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 09:07
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.3632	0.1745	13158	-2.639	-2.645	120

Last Message: Low Sample Detected
=====

Sample ID: LB135761BLS Mode: TOC
Method: Boat Sampler Filename: 05270907
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 09:10
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.4836	0.1393	10505	-2.660	-2.735	120

Last Message: Low Sample Detected
=====

Sample ID: LB135761BLS Mode: TOC
Method: Boat Sampler Filename: 05270911
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 09:13
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.4217	0.1369	10319	-2.683	-2.748	120

Last Message: Low Sample Detected
=====

Sample ID: LB135761BLS Mode: TOC
Method: Boat Sampler Filename: 05270914
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 09:17
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6.9535	0.2781	20970	-2.743	-2.790	120

Last Message: Low Sample Detected
=====

Sample ID: LB135761BSS Mode: TOC
Method: Boat Sampler Filename: 05270917
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 09:19
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1035.1798	41.4072	3121820	-2.768	-1.769	78

Sample ID: LB135761BSS Mode: TOC
Method: Boat Sampler Filename: 05270920
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 09:22
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1022.0027	40.8801	3082082	-2.526	-1.528	73

Sample ID: LB135761BSS Mode: TOC
Method: Boat Sampler Filename: 05270922
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 09:24
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1021.1603	40.8464	3079541	-2.546	-1.549	73

Sample ID: LB135761BS Mode: TOC
S
Method: Boat Sampler Filename: 05270925
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 09:27
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1021.0459	40.8418	3079196	-2.525	-1.528	69

Sample ID: Q2126-04 Mode: TOC
Method: Boat Sampler Filename: 05270928
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 09:29
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	63.4834	2.5393	191449	-2.628	-1.643	41

Sample ID: Q2126-04 Mode: TOC
Method: Boat Sampler Filename: 05270930
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 09:31
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	65.0843	2.6034	196276	-2.765	-1.773	41

Sample ID: Q2126-04 Mode: TOC
Method: Boat Sampler Filename: 05270932
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 09:33
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	64.4828	2.5793	194462	-2.801	-1.810	40

Sample ID: Q2126-04 Mode: TOC
Method: Boat Sampler Filename: 05270933
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 09:35
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	59.2571	2.3703	178703	-2.635	-1.646	40

Sample ID: Q2126-05 Mode: TOC
Method: Boat Sampler Filename: 05270936
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 09:37
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	286.0585	11.4423	862675	-2.855	-1.861	56

Sample ID: Q2126-05 Mode: TOC
Method: Boat Sampler Filename: 05270938
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 09:39
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	287.1295	11.4852	865904	-2.763	-1.773	52

Sample ID: Q2126-05 Mode: TOC
Method: Boat Sampler Filename: 05270940
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 09:41
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	287.7685	11.5107	867832	-2.570	-1.573	50

Sample ID: Q2126-05 Mode: TOC
Method: Boat Sampler Filename: 05270942
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 09:43
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	288.7710	11.5508	870855	-2.769	-1.779	51

Sample ID: Q1872-08 Mode: TOC
Method: Boat Sampler Filename: 05270958
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 10:01
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	12147.9795	87.4655	6594299	-2.766	-1.767	127

Sample ID: Q1872-08 Mode: TOC
Method: Boat Sampler Filename: 05271007
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 10:10
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13737.0488	100.2805	7560463	-2.781	-1.781	146

Sample ID: Q1872-08 Mode: TOC
Method: Boat Sampler Filename: 05271012
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 10:15
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13728.8574	91.9833	6934918	-2.836	-1.838	133

Sample ID: Q1872-08 Mode: TOC
Method: Boat Sampler Filename: 05271016
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 10:19
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13547.1953	92.1209	6945291	-2.765	-1.769	135

Sample ID: CCV2 Mode: TOC
Method: Boat Sampler Filename: 05271023
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 10:25
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1049.9238	41.9970	3166284	-2.992	-1.996	75

Sample ID: CCV2 Mode: TOC

Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Filename: 05271026
Timestamp: 2025/05/27 10:27
Sample Type: Sample

Reviewed By:Iwona
On:5/29/2025 10:47:35
AM
Inst Id :Appolo-9000
LB :LB135761

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1034.9456	41.3978	3121114	-2.263	-1.270	74

Sample ID: CCV2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 05271029
Timestamp: 2025/05/27 10:30
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1056.1526	42.2461	3185069	-2.731	-1.734	71

Sample ID: CCV2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 05271031
Timestamp: 2025/05/27 10:33
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1035.3625	41.4145	3122371	-2.796	-1.796	74

Sample ID: CCB2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 05271037
Timestamp: 2025/05/27 10:40
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.5826	0.1433	10804	-3.006	-3.089	120

Last Message: Low Sample Detected

Sample ID: CCB2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 05271040
Timestamp: 2025/05/27 10:43
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.9476	0.1979	14921	-3.067	-3.111	120

Last Message: Low Sample Detected

Sample ID: CCB2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 05271043
Timestamp: 2025/05/27 10:46
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6.5440	0.2618	19735	-3.049	-3.070	120

Last Message: Low Sample Detected

Sample ID: CCB2 Mode: TOC
Method: Boat Sampler Filename: 05271047
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 10:49
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.7573	0.1903	14347	-3.025	-3.061	120

Last Message: Low Sample Detected

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Sample ID	Result	Std. Dev.	RSD	Mode	ALT
BLANK	14955	8646	57.81	TOC	
250mg/l	841606	148828	17.68	TOC	
500mg/l	1649173	101330	6.14	TOC	
1000mg/l.....	3114148...	128870..	4.14...	TOC	..
2000mg/l	6084076	53153	0.87	TOC	
ICV	1008.1160			TOC	
ICV.....	1026.3085...	..	...	TOC	..
ICV	1034.6257			TOC	
ICV	1033.1101			TOC	
ICB.....	7.8958...	..	...	TOC	..
ICB	7.5463			TOC	
ICB	12.5615			TOC	
ICB.....	13.3053...	..	...	TOC	..

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Method ID	Sample Type	Vial	Timestamp	Message
Boat Sampler	TOC Standard		2025/03/14 08:33	Low Sample Detected
Boat Sampler	TOC Standard		2025/03/14 08:43	
Boat Sampler	TOC Standard		2025/03/14 08:52	
Boat Sampler	...TOC Standard	..	..2025/03/14 09:02	..
Boat Sampler	TOC Standard		2025/03/14 09:13	
Boat Sampler	Sample		2025/03/14 09:32	
Boat Sampler	...Sample	..	..2025/03/14 09:34	..
Boat Sampler	Sample		2025/03/14 09:37	
Boat Sampler	Sample		2025/03/14 09:39	
Boat Sampler	...Sample	..	..2025/03/14 09:43	..Low Sample Detected
Boat Sampler	Sample		2025/03/14 09:47	Low Sample Detected
Boat Sampler	Sample		2025/03/14 09:50	
Boat Sampler	...Sample	..	..2025/03/14 09:54	..Low Sample Detected

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Sample ID: 2000mg/l Mode: TOC
Method: Boat Sampler Filename: 03140903
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:13
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			6076768	-2.111	-1.112	111
2			6011750	-1.590	-0.594	85
3			6120679	-1.745	-0.748	92
4			6127106	-1.924	-0.925	95

<<<Statistics>>> Mean: 6084076 Std Dev: 53153 RSD: 0.87
=====

Sample ID: ICV Mode: TOC
Method: Boat Sampler Filename: 03140930
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:32
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1008.1160	40.3246	3040203	-2.708	-1.710	74

Sample ID: ICV Mode: TOC
Method: Boat Sampler Filename: 03140932
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:34
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1026.3085	41.0523	3095067	-2.463	-1.465	74

Sample ID: ICV Mode: TOC
Method: Boat Sampler Filename: 03140935
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:37
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1034.6257	41.3850	3120149	-2.458	-1.467	72

Sample ID: ICV Mode: TOC
Method: Boat Sampler Filename: 03140937
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:39
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1033.1101	41.3244	3115579	-2.438	-1.439	73

Sample ID: ICB Mode: TOC
Method: Boat Sampler Filename: 03140941
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:43
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	7.8958	0.3158	23812	-2.583	-2.673	120

Last Message: Low Sample Detected
=====

Sample ID: ICB Mode: TOC
Method: Boat Sampler Filename: 03140944
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:47
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	7.5463	0.3019	22758	-2.639	-2.694	120

Last Message: Low Sample Detected
=====

Sample ID: ICB Mode: TOC
Method: Boat Sampler Filename: 03140949
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:50
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	12.5615	0.5025	37882	-2.737	-1.746	36

Sample ID: ICB Mode: TOC
Method: Boat Sampler Filename: 03140951
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:54
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13.3053	0.5322	40125	-2.721	-2.705	120

Last Message: Low Sample Detected
=====

1. Curve ID: TOC SOIL
eated: 2025/03/14 09:14
libration Factor (m): 7.539e+04
Intercept (b): 78996
squared: 0.99960

Standard ID	Y	X Expected	Measured	Message	Date & Time
	Raw Data	ug C	ug C		
BLANK	14955	0.000	-0.849	-	2025/03/14 08:33
250mg/l	841606	10.000	10.115	7.5	2025/03/14 08:43
500mg/l	1649173	20.000	20.827	4.1	2025/03/14 08:52
1000mg/l	3114148	40.000	40.258	0.6	2025/03/14 09:02
2000mg/l	6084076	80.000	79.650	-0.4	2025/03/14 09:13

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WORKLIST(Hardcopy Internal Chain)

66135761

WorkList Name : toc-1872		WorkList ID : 189754		Department : Wet-Chemistry		Date : 05-27-2025 08:11:11		
Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1872-08	HW0425-PT-NUT-SOIL	Solid	TOC	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Lloyd Kahn
Q2126-04	LOD-MDL-SOIL-04-QT2-2025	Solid	TOC	Cool 4 deg C	ALLI03	QA Of	05/23/2025	Lloyd Kahn
Q2126-05	LOQ-SOIL-05-QT2-2025	Solid	TOC	Cool 4 deg C	ALLI03	QA Of	05/23/2025	Lloyd Kahn

Date/Time 05/27/25 09:05
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

Date/Time NA
Raw Sample Received by: 11
Raw Sample Relinquished by: 11

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LB13578

Test results

Aquakem 7.2AQ1

Page:

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

5/15/2025 12:31

Reviewed by : RM

Instrument ID : Konelab

Test: TKN-NH3

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	4.778	0.0	1.024	
ICB1	0.113	0.0	0.035	
CCV1	4.830	0.0	1.035	
CCB1	0.103	0.0	0.033	
RL CHECK	0.503	0.0	0.118	
PB167946BL	0.098	0.0	0.032	
PB167946BS	4.826	0.0	1.034	
Q2005-01	47.281	0.0	10.037	
Q2005-01DUP	47.278	0.0	10.036	Abs. high, Init abs., Tes
Q2005-01MS	47.282	0.0	10.037	Abs. high, Init abs., Tes
Q2005-01MSD	47.281	0.0	10.037	Abs. high, Init abs., Tes
PB167947BL	0.206	0.0	0.055	
PB167947BS	4.791	0.0	1.027	
Q1872-07	47.282	0.0	10.037	
CCV2	4.790	0.0	1.027	Abs. high, Init abs., Tes
CCB2	0.133	0.0	0.039	
Q1872-07DLX10	5.448	0.0	1.166	
Q2005-01DLX10	7.489	0.0	1.599	
Q2005-01DUPDLX10	7.892	0.0	1.685	
CCV3	5.044	0.0	1.081	
CCB3	0.094	0.0	0.031	
N	21			
Mean	13.692			
SD	19.4028			
CV%	141.70			

100% (50-150)

05/15/2025
RMAbs. high, Init abs., Tes
Abs. high, Init abs., Tes
Abs. high, Init abs., Tes
Abs. high, Init abs., Tes

Abs. high, Init abs., Tes

Aquakem v. 7.2AQ1

Results from time period:

Thu May 15 10:19:43 2025

Thu May 15 12:19:57 2025

Sample Id	Sam/Ctr/c	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPM	A	TKN-NH3	P	0.1037	mg/l	5/15/2025 10:19:43	
0.5PPM	A	TKN-NH3	P	0.5316	mg/l	5/15/2025 10:19:44	
1.0PPM	A	TKN-NH3	P	1.0067	mg/l	5/15/2025 10:19:45	
2.5PPM	A	TKN-NH3	P	2.361	mg/l	5/15/2025 10:19:46	
5.0PPM	A	TKN-NH3	P	4.9293	mg/l	5/15/2025 10:19:47	
6.7PPM	A	TKN-NH3	P	6.6663	mg/l	5/15/2025 10:19:48	
10.0PPM	A	TKN-NH3	P	10.0681	mg/l	5/15/2025 10:19:49	
ICV1	S	TKN-NH3	P	4.7784	mg/l	5/15/2025 11:07:15	
ICB1	S	TKN-NH3	P	0.1131	mg/l	5/15/2025 11:07:17	
CCV1	S	TKN-NH3	P	4.8298	mg/l	5/15/2025 11:07:19	
CCB1	S	TKN-NH3	P	0.1032	mg/l	5/15/2025 11:07:21	
RL CHECK	S	TKN-NH3	P	0.5027	mg/l	5/15/2025 11:07:23	
PB167946BL	S	TKN-NH3	P	0.0978	mg/l	5/15/2025 11:07:26	
PB167946BS	S	TKN-NH3	P	4.8259	mg/l	5/15/2025 11:17:57	
Q2005-01	S	TKN-NH3	P	47.2813	mg/l	5/15/2025 11:17:59	
Q2005-01DUP	S	TKN-NH3	P	47.2778	mg/l	5/15/2025 11:18:00	
Q2005-01MS	S	TKN-NH3	P	47.2822	mg/l	5/15/2025 11:18:01	
Q2005-01MSD	S	TKN-NH3	P	47.281	mg/l	5/15/2025 11:18:02	
PB167947BL	S	TKN-NH3	P	0.2059	mg/l	5/15/2025 11:18:05	
PB167947BS	S	TKN-NH3	P	4.7913	mg/l	5/15/2025 11:18:07	
Q1872-07	S	TKN-NH3	P	47.2815	mg/l	5/15/2025 11:18:08	
CCV2	S	TKN-NH3	P	4.7904	mg/l	5/15/2025 11:26:25	
CCB2	S	TKN-NH3	P	0.1327	mg/l	5/15/2025 11:26:26	
Q1872-07DLX10	S	TKN-NH3	P	5.4479	mg/l	5/15/2025 12:13:53	
Q2005-01DLX10	S	TKN-NH3	P	7.489	mg/l	5/15/2025 12:14:00	
Q2005-01DUPDLX10	S	TKN-NH3	P	7.892	mg/l	5/15/2025 12:19:54	
CCV3	S	TKN-NH3	P	5.0436	mg/l	5/15/2025 12:19:55	
CCB3	S	TKN-NH3	P	0.0944	mg/l	5/15/2025 12:19:57	

Calibration results

Aquakem 7.2AQ1

Page:

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

5/15/2025 10:28

Reviewed by : RM

Instrument ID : Konelab

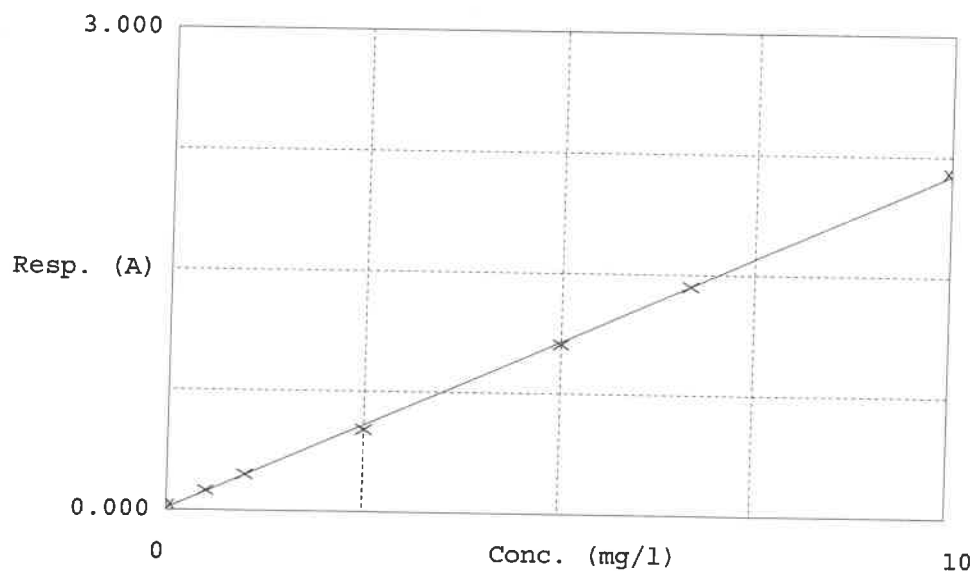
Test TKN-NH3

Accepted 5/15/2025 10:28

Factor 4.716
Bias 0.011

Coeff. of det. 0.999508

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.00PPM	0.033	0.1037	0.0000	-
2	TKN-10	0.124	0.5316	0.5000	6.3
3	TKN-10	0.225	1.0067	1.0000	0.7
4	TKN-10	0.512	2.3610	2.5000	-5.6
5	TKN-10	1.056	4.9293	5.0000	-1.4
6	TKN-10	1.425	6.6663	6.6667	-0.5
7	TKN-10	2.146	10.0681	10.0000	0.7

05/15/2025
RM

Sample ID	Result	Std. Dev.	RSD	Mode	ALT
CCV1	944.4701			TOC	
CCV1	994.0243			TOC	
CCV1	1004.6030			TOC	
CCV1.....	990.3159...	..	...	TOC	..
CCB1	3.6464			TOC	
CCB1	5.0358			TOC	
CCB1.....	7.4109...	..	...	TOC	..
CCB1	3.8652			TOC	
LB135817BLS	4.3632			TOC	
LB135817BLS.....	3.4836...	..	...	TOC	..
LB135817BLS	3.4217			TOC	
LB135817BLS	6.9535			TOC	
LB135817BSS.....	1035.1798...	..	...	TOC	..
LB135817BSS	1022.0027			TOC	
LB135817BSS	1021.1603			TOC	
LB135817BSS.....	1021.0459...	..	...	TOC	..
Q2126-01	63.4834			TOC	
Q2126-01	65.0843			TOC	
Q2126-01.....	64.4828...	..	...	TOC	..
Q2126-01	59.2571			TOC	
Q2126-02	286.0585			TOC	
Q2126-02.....	287.1295...	..	...	TOC	..
Q2126-02	287.7685			TOC	
Q2126-02	288.7710			TOC	
Q1872-07.....	12147.9795...	..	...	TOC	..
Q1872-07	13737.0488			TOC	
Q1872-07	13728.8574			TOC	
Q1872-07.....	13547.1953...	..	...	TOC	..
CCV2	1049.9238			TOC	
CCV2	1034.9456			TOC	
CCV2.....	1056.1526...	..	...	TOC	..
CCV2	1035.3625			TOC	
CCB2	3.5826			TOC	
CCB2.....	4.9476...	..	...	TOC	..
CCB2	6.5440			TOC	
CCB2	4.7573			TOC	

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Method ID	Sample Type	Vial	Timestamp	Message
Boat Sampler	Sample		2025/05/27 08:34	
Boat Sampler	Sample		2025/05/27 08:37	
Boat Sampler	Sample		2025/05/27 08:39	
Boat Sampler	...Sample	..	..2025/05/27 08:42	..
Boat Sampler	Sample		2025/05/27 08:48	Low Sample Detected
Boat Sampler	Sample		2025/05/27 08:52	Low Sample Detected
Boat Sampler	...Sample	..	..2025/05/27 08:57	..Low Sample Detected
Boat Sampler	Sample		2025/05/27 09:00	Low Sample Detected
Boat Sampler	Sample		2025/05/27 09:07	Low Sample Detected
Boat Sampler	...Sample	..	..2025/05/27 09:10	..Low Sample Detected
Boat Sampler	Sample		2025/05/27 09:13	Low Sample Detected
Boat Sampler	Sample		2025/05/27 09:17	Low Sample Detected
Boat Sampler	...Sample	..	..2025/05/27 09:19	..
Boat Sampler	Sample		2025/05/27 09:22	
Boat Sampler	Sample		2025/05/27 09:24	
Boat Sampler	...Sample	..	..2025/05/27 09:27	..
Boat Sampler	Sample		2025/05/27 09:29	
Boat Sampler	Sample		2025/05/27 09:31	
Boat Sampler	...Sample	..	..2025/05/27 09:33	..
Boat Sampler	Sample		2025/05/27 09:35	
Boat Sampler	Sample		2025/05/27 09:37	
Boat Sampler	...Sample	..	..2025/05/27 09:39	..
Boat Sampler	Sample		2025/05/27 09:41	
Boat Sampler	Sample		2025/05/27 09:43	
Boat Sampler	...Sample	..	..2025/05/27 10:01	..
Boat Sampler	Sample		2025/05/27 10:10	
Boat Sampler	Sample		2025/05/27 10:15	
Boat Sampler	...Sample	..	..2025/05/27 10:19	..
Boat Sampler	Sample		2025/05/27 10:25	
Boat Sampler	Sample		2025/05/27 10:27	
Boat Sampler	...Sample	..	..2025/05/27 10:30	..
Boat Sampler	Sample		2025/05/27 10:33	
Boat Sampler	Sample		2025/05/27 10:40	Low Sample Detected
Boat Sampler	...Sample	..	..2025/05/27 10:43	..Low Sample Detected
Boat Sampler	Sample		2025/05/27 10:46	Low Sample Detected
Boat Sampler	Sample		2025/05/27 10:49	Low Sample Detected

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Last Message: Low Sample Detected
=====

Sample ID: CCB1 Mode: TOC
Method: Boat Sampler Filename: 05270854
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 08:57
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	7.4109	0.2964	22349	-2.486	-2.517	120

Last Message: Low Sample Detected
=====

Sample ID: CCB1 Mode: TOC
Method: Boat Sampler Filename: 05270857
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 09:00
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.8652	0.1546	11657	-2.469	-2.579	120

Last Message: Low Sample Detected
=====

Sample ID: LB135817BLS Mode: TOC
Method: Boat Sampler Filename: 05270904
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 09:07
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.3632	0.1745	13158	-2.639	-2.645	120

Last Message: Low Sample Detected
=====

Sample ID: LB135817BLS Mode: TOC
Method: Boat Sampler Filename: 05270907
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 09:10
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.4836	0.1393	10505	-2.660	-2.735	120

Last Message: Low Sample Detected
=====

Sample ID: LB135817BLS Mode: TOC
Method: Boat Sampler Filename: 05270911
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 09:13
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.4217	0.1369	10319	-2.683	-2.748	120

Last Message: Low Sample Detected
=====

Sample ID: LB135817BLS Mode: TOC
Method: Boat Sampler Filename: 05270914
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 09:17
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6.9535	0.2781	20970	-2.743	-2.790	120

Last Message: Low Sample Detected
=====

Sample ID: LB135817BSS Mode: TOC
Method: Boat Sampler Filename: 05270917
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 09:19
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1035.1798	41.4072	3121820	-2.768	-1.769	78

=====

Sample ID: LB135817BSS Mode: TOC
Method: Boat Sampler Filename: 05270920
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 09:22
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1022.0027	40.8801	3082082	-2.526	-1.528	73

=====

Sample ID: LB135817BSS Mode: TOC
Method: Boat Sampler Filename: 05270922
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 09:24
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1021.1603	40.8464	3079541	-2.546	-1.549	73

=====

Sample ID: LB135817BS Mode: TOC
S
Method: Boat Sampler Filename: 05270925
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 09:27
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1021.0459	40.8418	3079196	-2.525	-1.528	69

=====

Sample ID: Q2126-01 Mode: TOC
Method: Boat Sampler Filename: 05270928
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 09:29
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	63.4834	2.5393	191449	-2.628	-1.643	41

Sample ID: Q2126-01 Mode: TOC
Method: Boat Sampler Filename: 05270930
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 09:31
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	65.0843	2.6034	196276	-2.765	-1.773	41

Sample ID: Q2126-01 Mode: TOC
Method: Boat Sampler Filename: 05270932
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 09:33
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	64.4828	2.5793	194462	-2.801	-1.810	40

Sample ID: Q2126-01 Mode: TOC
Method: Boat Sampler Filename: 05270933
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 09:35
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	59.2571	2.3703	178703	-2.635	-1.646	40

Sample ID: Q2126-02 Mode: TOC
Method: Boat Sampler Filename: 05270936
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 09:37
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	286.0585	11.4423	862675	-2.855	-1.861	56

Sample ID: Q2126-02 Mode: TOC
Method: Boat Sampler Filename: 05270938
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 09:39
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	287.1295	11.4852	865904	-2.763	-1.773	52

Sample ID: Q2126-02 Mode: TOC
Method: Boat Sampler Filename: 05270940
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 09:41
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	287.7685	11.5107	867832	-2.570	-1.573	50

Sample ID: Q2126-02 Mode: TOC
Method: Boat Sampler Filename: 05270942
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 09:43
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	288.7710	11.5508	870855	-2.769	-1.779	51

Sample ID: Q1872-07 Mode: TOC
Method: Boat Sampler Filename: 05270958
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 10:01
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	12147.9795	87.4655	6594299	-2.766	-1.767	127

Sample ID: Q1872-07 Mode: TOC
Method: Boat Sampler Filename: 05271007
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 10:10
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13737.0488	100.2805	7560463	-2.781	-1.781	146

Sample ID: Q1872-07 Mode: TOC
Method: Boat Sampler Filename: 05271012
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 10:15
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13728.8574	91.9833	6934918	-2.836	-1.838	133

Sample ID: Q1872-07 Mode: TOC
Method: Boat Sampler Filename: 05271016
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 10:19
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13547.1953	92.1209	6945291	-2.765	-1.769	135

Sample ID: CCV2 Mode: TOC
Method: Boat Sampler Filename: 05271023
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 10:25
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1049.9238	41.9970	3166284	-2.992	-1.996	75

Sample ID: CCV2 Mode: TOC

Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Filename: 05271026
Timestamp: 2025/05/27 10:27
Sample Type: Sample

Reviewed By:Iwona
On:5/29/2025 10:47:27
AM
Inst Id :Appolo-9000
LB :LB135817

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1034.9456	41.3978	3121114	-2.263	-1.270	74

Sample ID: CCV2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 05271029
Timestamp: 2025/05/27 10:30
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1056.1526	42.2461	3185069	-2.731	-1.734	71

Sample ID: CCV2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 05271031
Timestamp: 2025/05/27 10:33
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1035.3625	41.4145	3122371	-2.796	-1.796	74

Sample ID: CCB2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 05271037
Timestamp: 2025/05/27 10:40
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.5826	0.1433	10804	-3.006	-3.089	120

Last Message: Low Sample Detected

Sample ID: CCB2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 05271040
Timestamp: 2025/05/27 10:43
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.9476	0.1979	14921	-3.067	-3.111	120

Last Message: Low Sample Detected

Sample ID: CCB2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 05271043
Timestamp: 2025/05/27 10:46
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6.5440	0.2618	19735	-3.049	-3.070	120

Last Message: Low Sample Detected

Sample ID: CCB2 Mode: TOC
Method: Boat Sampler Filename: 05271047
Cal. Curve: TOC SOIL Timestamp: 2025/05/27 10:49
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.7573	0.1903	14347	-3.025	-3.061	120

Last Message: Low Sample Detected

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Sample ID	Result	Std. Dev.	RSD	Mode	ALT
BLANK	14955	8646	57.81	TOC	
250mg/l	841606	148828	17.68	TOC	
500mg/l	1649173	101330	6.14	TOC	
1000mg/l.....	3114148...	128870..	4.14...	TOC	..
2000mg/l	6084076	53153	0.87	TOC	
ICV	1008.1160			TOC	
ICV.....	1026.3085...	..	...	TOC	..
ICV	1034.6257			TOC	
ICV	1033.1101			TOC	
ICB.....	7.8958...	..	...	TOC	..
ICB	7.5463			TOC	
ICB	12.5615			TOC	
ICB.....	13.3053...	..	...	TOC	..

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Method ID	Sample Type	Vial	Timestamp	Message
Boat Sampler	TOC Standard		2025/03/14 08:33	Low Sample Detected
Boat Sampler	TOC Standard		2025/03/14 08:43	
Boat Sampler	TOC Standard		2025/03/14 08:52	
Boat Sampler	...TOC Standard	..	..2025/03/14 09:02	..
Boat Sampler	TOC Standard		2025/03/14 09:13	
Boat Sampler	Sample		2025/03/14 09:32	
Boat Sampler	...Sample	..	..2025/03/14 09:34	..
Boat Sampler	Sample		2025/03/14 09:37	
Boat Sampler	Sample		2025/03/14 09:39	
Boat Sampler	...Sample	..	..2025/03/14 09:43	..Low Sample Detected
Boat Sampler	Sample		2025/03/14 09:47	Low Sample Detected
Boat Sampler	Sample		2025/03/14 09:50	
Boat Sampler	...Sample	..	..2025/03/14 09:54	..Low Sample Detected

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Sample ID: 2000mg/l Mode: TOC
Method: Boat Sampler Filename: 03140903
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:13
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			6076768	-2.111	-1.112	111
2			6011750	-1.590	-0.594	85
3			6120679	-1.745	-0.748	92
4			6127106	-1.924	-0.925	95

<<<Statistics>>> Mean: 6084076 Std Dev: 53153 RSD: 0.87

Sample ID: ICV Mode: TOC
Method: Boat Sampler Filename: 03140930
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:32
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1008.1160	40.3246	3040203	-2.708	-1.710	74

Sample ID: ICV Mode: TOC
Method: Boat Sampler Filename: 03140932
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:34
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1026.3085	41.0523	3095067	-2.463	-1.465	74

Sample ID: ICV Mode: TOC
Method: Boat Sampler Filename: 03140935
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:37
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1034.6257	41.3850	3120149	-2.458	-1.467	72

Sample ID: ICV Mode: TOC
Method: Boat Sampler Filename: 03140937
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:39
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1033.1101	41.3244	3115579	-2.438	-1.439	73

Sample ID: ICB Mode: TOC
Method: Boat Sampler Filename: 03140941
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:43
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	7.8958	0.3158	23812	-2.583	-2.673	120

Last Message: Low Sample Detected
=====

Sample ID: ICB Mode: TOC
Method: Boat Sampler Filename: 03140944
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:47
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	7.5463	0.3019	22758	-2.639	-2.694	120

Last Message: Low Sample Detected
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Sample ID: ICB Mode: TOC
Method: Boat Sampler Filename: 03140949
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:50
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	12.5615	0.5025	37882	-2.737	-1.746	36

Sample ID: ICB Mode: TOC
Method: Boat Sampler Filename: 03140951
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:54
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13.3053	0.5322	40125	-2.721	-2.705	120

Last Message: Low Sample Detected
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1. Curve ID: TOC SOIL
eated: 2025/03/14 09:14
libration Factor (m): 7.539e+04
Intercept (b): 78996
squared: 0.99960

Standard ID	Y	X Expected	Measured	Message	Date & Time
	Raw Data	ug C	ug C		
BLANK	14955	0.000	-0.849	-	2025/03/14 08:33
250mg/l	841606	10.000	10.115	7.5	2025/03/14 08:43
500mg/l	1649173	20.000	20.827	4.1	2025/03/14 08:52
1000mg/l	3114148	40.000	40.258	0.6	2025/03/14 09:02
2000mg/l	6084076	80.000	79.650	-0.4	2025/03/14 09:13
12				12	
3/20/25				3/20/25	

WORKLIST(Hardcopy Internal Chain)

LB 35817

WorkList Name : toc-052725

WorkList ID : 189768

Department : Wet-Chemistry

Date : 05-27-2025 08:11:20

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1872-07	HW0425-PT-NUT-SOIL	Solid	TOC	Cool 4 deg C	ALLI03	QA Of	04/21/2025	9060A
Q2126-01	LOD-MDL-SOIL-03-QT2-2025	Solid	TOC	Cool 4 deg C	ALLI03	QA Of	05/23/2025	9060A
Q2126-02	LOQ-SOIL-02-QT2-2025	Solid	TOC	Cool 4 deg C	ALLI03	QA Of	05/23/2025	9060A

Date/Time 05/27/25 09:05
Raw Sample Received by: 12(-C)
Raw Sample Relinquished by: SJ(QAO)

Date/Time NA

Raw Sample Received by: 11

Raw Sample Relinquished by: 11

Analysis Method: 365.3
Parameter: Phosphorus, Total
Run Number: LB135933

ANALYST: Iwona
SUPERVISOR REVIEW BY: Sohil
BALANCE ID: WC SC-7

Reagent/Standard	Lot/Log #
calibration std. phosphate 1 ppm	WP113224
calibration std. phosphate 0.5 ppm	WP113223
calibration std. phosphate 0.3 ppm	WP113222
calibration std. phosphate 0.1 ppm	WP113221
calibration std. phosphate 0.05 ppm	WP113220
calibration std. 0 ppm	WP113219
phosphate CCV std.	WP113225
5N sulfuric acid	WP112831
Combined reagent	WP113245
Phenolphthalein indicator	WP111415
Sodium hydroxide, 1N	WP111323
Phosphosphate LOQ std, 0.05PPM	WP113229
Phosphate ICV-LCS Std	WP113226
Phosphate LOD-MDL Std 0.025ppm	WP113228

Intercept: -0.0021 Slope: 0.6505 Regression: 0.99976

Seq	Lab ID	True Value (mg/L)	DF	Initial Volume (mL)	Final Volume (mL)	Absorbance Reading at 880nm	Result (mg/L)	%D	AnalDate	AnalTime
1	CAL1	0.00	1	50	50	0.000	0.003		05/28/2025	15:30
2	CAL2	0.05	1	50	50	0.033	0.054	8	05/28/2025	15:30
3	CAL3	0.10	1	50	50	0.067	0.106	6	05/28/2025	15:31
4	CAL4	0.30	1	50	50	0.183	0.285	-5	05/28/2025	15:31
5	CAL5	0.50	1	50	50	0.321	0.497	-0.6	05/28/2025	15:32
6	CAL6	1.00	1	50	50	0.652	1.006	0.6	05/28/2025	15:32

Analysis Method: 365.3

ANALYST: Iwona

Parameter: Phosphorus, Total

SUPERVISOR REVIEW BY: Sohil

Run Number: LB135933

BALANCE ID: WC SC-7

Seq	Lab ID	True Value (mg/l)	DF	Initial Volume (mL)	Final Volume (mL)	Absorbance Reading at 880nm	Result (mg/L)	AnalDate	AnalTime
1	ICV	0.50	1	50	50	0.328	0.507	05/28/2025	15:33
2	ICB		1	50	50	0.002	0.006	05/28/2025	15:33
3	CCV1	0.50	1	50	50	0.324	0.501	05/28/2025	15:34
4	CCB1		1	50	50	0.000	0.003	05/28/2025	15:34
5	RL Check	0.05	1	50	50	0.032	0.052	05/28/2025	15:35
6	PB168183BL		1	1.00	50	0.003	0.008	05/28/2025	15:35
7	PB168183BS	0.50	1	1.00	50	0.320	0.495	05/28/2025	15:36
8	Q1872-07		1	1.00	50	2.112	3.250	05/28/2025	15:36
9	Q2085-01		1	1.01	50	0.618	0.953	05/28/2025	15:37
10	Q2085-01DUP		1	1.01	50	0.614	0.947	05/28/2025	15:37
11	Q2085-01MS	0.50	1	1.02	50	0.745	1.149	05/28/2025	15:38
12	Q2085-01MSD	0.50	1	1.02	50	0.749	1.155	05/28/2025	15:38
13	Q2085-02		1	1.02	50	0.570	0.879	05/28/2025	15:39
14	Q2085-03		1	1.02	50	0.380	0.587	05/28/2025	15:39
15	Q2085-07		1	1.01	50	0.354	0.547	05/28/2025	15:40
16	CCV2	0.50	1	50	50	0.326	0.504	05/28/2025	15:40
17	CCB2		1	50	50	0.003	0.008	05/28/2025	15:41
18	Q2085-08		1	1.02	50	0.546	0.843	05/28/2025	15:41
19	Q2126-01		1	1.04	50	0.035	0.057	05/28/2025	15:42
20	Q2126-02		1	1.01	50	0.019	0.032	05/28/2025	15:42
21	Q1872-07		100	1.00	50	0.315	0.487	05/28/2025	15:43
22	Q2085-01MS	0.50	2	1.02	50	0.466	0.720	05/28/2025	15:43
23	Q2085-01MSD	0.50	2	1.02	50	0.465	0.718	05/28/2025	15:44
24	CCV3	0.50	1	50	50	0.318	0.492	05/28/2025	15:44
25	CCB3		1	50	50	0.002	0.006	05/28/2025	15:45

Analysis Method: 7196A

ANALYST: rubina

Parameter: ~~Hexavalent Chromium~~

SUPERVISOR REVIEW BY: Iwona

Run Number: LB135937

pH Meter ID: WC pH Meter-1

Reagent/Standard	Lot/Log #
hexavalent chromium color reagent	WP113258
5N sulfuric acid	WP112831
HNO3 Hex-Chrome, 5M	WP112830
HEX LOD STD, 0.005PPM	WP113256
Hexchrome Cleaning Solution	WP113087
Hex LOQ Std, 0.01PPM	WP113257

Intercept: 0.0004

Slope: 0.7659

Regression: 0.999941

Seq	Lab ID	True Value (mg/l)	DF	Initial Vol (ml)	Final Vol (ml)	pH HNO3	pH H2SO4	Absorb.at 540nm		Absorbance Difference	Result (mg/L)	%D	Anal Date	Anal Time
								Backgrnd	Color					
1	CAL1	0	1	100	100	7.32	1.63	0.000	0.000	0.000	-0.00		05/28/2025	12:40
2	CAL2	0.01	1	100	100	7.37	1.88	0.000	0.007	0.007	0.008	-20	05/28/2025	12:41
3	CAL3	0.025	1	100	100	7.40	1.85	0.000	0.020	0.020	0.025	0	05/28/2025	12:42
4	CAL4	0.05	1	100	100	7.36	1.90	0.000	0.040	0.040	0.051	2	05/28/2025	12:43
5	CAL5	0.1	1	100	100	7.45	1.88	0.000	0.080	0.080	0.103	3	05/28/2025	12:44
6	CAL6	0.5	1	100	100	7.40	1.89	0.000	0.377	0.377	0.491	-1.8	05/28/2025	12:45
7	CAL7	1	1	100	100	7.39	1.91	0.000	0.769	0.769	1.003	0.3	05/28/2025	12:46

Analysis Method: 7196A

ANALYST:rubina

Parameter: Hexavalent Chromium

SUPERVISOR REVIEW BY:Iwona

Run Number: LB135937

pH Meter ID:WC pH Meter-1

Seq	Lab ID	True Value	DF	Initial Vol (ml/gm)	Final Vol (ml)	pH HN03	pH H2SO4	Absorb.at540nm		Absorbance Difference	Intermediate Result (mg/L)	Anal Date	Anal Time
								Backgrnd	Color				
1	ICV	0.5	1	100	100	7.44	1.88	0.000	0.380	0.380	0.496	05/28/2025	12:47
2	ICB		1	100	100	7.29	1.94	0.000	0.001	0.001	0.001	05/28/2025	12:48
3	CCV1	0.5	1	100	100	7.50	1.98	0.000	0.379	0.379	0.494	05/28/2025	12:49
4	CCB1		1	100	100	7.26	1.72	0.000	0.000	0.000	-0.001	05/28/2025	12:50
5	RL Check	0.01	1	100	100	7.38	1.90	0.000	0.009	0.009	0.011	05/28/2025	12:51
6	PB167788BL		1	2.50	100	7.34	1.70	0.000	0.001	0.001	0.001	05/28/2025	12:52
7	PB167788BS	20	1	2.50	100	7.47	1.85	0.000	0.380	0.380	0.496	05/28/2025	12:53
8	Q1872-06		1	2.50	100	7.28	1.83	0.047	1.779	1.732	2.261	05/28/2025	12:54
9	Q2126-01		1	2.50	100	7.34	1.91	0.000	0.005	0.005	0.006	05/28/2025	12:55
10	Q2126-02		1	2.50	100	7.32	1.94	0.000	0.010	0.010	0.013	05/28/2025	12:56
11	Q2128-01		1	2.52	100	7.47	2.10	0.001	0.002	0.001	0.001	05/28/2025	12:57
12	Q2130-01		1	2.56	100	7.52	2.16	0.000	0.001	0.001	0.001	05/28/2025	12:58
13	Q2130-01DU		1	2.56	100	7.50	2.20	0.000	0.001	0.001	0.001	05/28/2025	12:59
14	Q2130-01MS	40	2	2.57	100	7.55	2.17	0.000	0.335	0.335	0.437	05/28/2025	13:00
15	Q2130-01MS	1284	40	2.56	100	7.52	2.20	0.000	0.604	0.604	0.788	05/28/2025	13:01
16	CCV2	0.5	1	100	100	7.41	1.92	0.000	0.382	0.382	0.498	05/28/2025	13:02
17	CCB2		1	100	100	7.28	1.63	0.000	0.001	0.001	0.001	05/28/2025	13:03
18	Q2130-01MS	40	2	2.57	100	7.57	2.20	0.000	0.377	0.377	0.492	05/28/2025	13:04
19	Q2136-01		1	2.55	100	7.64	2.06	0.004	0.004	0.000	-0.001	05/28/2025	13:05
20	Q1872-06		5	2.50	100	7.28	1.83	0.007	0.389	0.382	0.498	05/28/2025	13:06
21	CCV3	0.5	1	100	100	7.44	1.88	0.000	0.379	0.379	0.494	05/28/2025	13:07
22	CCB3		1	100	100	7.39	1.78	0.000	0.000	0.000	-0.001	05/28/2025	13:08

SOP ID : M3060A,7196A-Hex.Chromium-26

SDG No : N/A

Matrix : SOIL

Pipette ID : WC

Balance ID : WC SC-7.

Hood ID : HOOD#3

Block ID : WC S-2, WC S-1

Weigh By : RM

Start Digest Date: 05/28/2025 Time : 08:50 Temp : 90 °C

End Digest Date: 05/28/2025 Time : 09:50 Temp : 93 °C

11 batch 05/28/2025 10:30 90 °C
05/28/2025 11:30 95 °C

Digestion tube ID : M6054

Block Thermometer ID : WC-Block#1

Filter paper ID : 400213

Prep Technician Signature: *RM*

pH Meter ID : WC pH meter-1

Supervisor Signature: *12*

Standard Name	MLS USED	STD REF. # FROM LOG
PRE-DIGESTION SPIKE	2.0ML	WP111315
INSOLUBLE SPIKE	0.02GM	W2202
POST-DIGESTION SPIKE	2.0ML	WP111315
LCSS	1.0ML	WP111316
PBS003	50.ML	W3112

Chemical Used	ML/SAMPLE USED	Lot Number
MAGNESIUM CHLORIDE	0.4GM	W3152
PHOSPHATE BUFFER	0.5ML	WP112903
HEX. DIGESTION SOLN.	50.0ML	WP113085
5M HNO3	5-7ML	WP112830
5N H2SO4	1-3ML	WP112831
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	Vol(ml)	Comment
CAL1	CAL1	2.5ML	W3112
CAL2	CAL2	0.2ML	WP113230
CAL3	CAL3	0.5ML	WP113230
CAL4	CAL4	1ML	WP113230
CAL5	CAL5	0.2ML	WP111315
CAL6	CAL6	1ML	WP111315
CAL7	CAL7	2.0ML	WP111315
ICV	ICV	1ML	WP111316
ICB	ICB	2.5ML	W3112
CCV	CCV	1ML	WP111315
CCB	CCB	2.5ML	W3112

Extraction Conformance/Non-Conformance Comments:

N/A

05/28/2025
RM

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

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/Nitrite	Comment	Prep Pos
PB167788BL	PBS788	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
PB167788BS	LCS788	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1872-06	HW0425-PT-CR6-SOIL	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2126-01	LOD-MDL-SOIL-03-QT2-2025	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2126-02	LOQ-SOIL-02-QT2-2025	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2128-01	TP03-MHM	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2130-01	TP-3	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2130-01DUP	TP-3DUP	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2130-01MSPre	TP-3MSPRE	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2130-01MS2Ins	TP-3MS2INS	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2130-01MS3Post	TP-3MS3POST	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2136-01	OR-646-COMP-52	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : HEX-5-28

WorkList ID : 189793

Department : Distillation

Date : 05-28-2025 08:14:35

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1872-06	HW0425-PT-CR6-SOIL	Solid	Hexavalent Chromium	Cool 4 deg C	ALLI03	QA Of	04/21/2025	7196A
Q2126-01	LOD-MDL-SOIL-03-QT2-2025	Solid	Hexavalent Chromium	Cool 4 deg C	ALLI03	QA Of	05/23/2025	7196A
Q2126-02	LOQ-SOIL-02-QT2-2025	Solid	Hexavalent Chromium	Cool 4 deg C	ALLI03	QA Of	05/23/2025	7196A
Q2128-01	TP03-MHM	Solid	Hexavalent Chromium	Cool 4 deg C	PSEG03	L41	05/23/2025	7196A
Q2130-01	TP-3	Solid	Hexavalent Chromium	Cool 4 deg C	PSEG03	L41	05/27/2025	7196A
Q2136-01	OR-646-COMP-52	Solid	Hexavalent Chromium	Cool 4 deg C	PSEG03	L41	05/27/2025	7196A

Date/Time

05/28/2025 08.20

Raw Sample Received by:

RM (WC)

Raw Sample Relinquished by:

RM (WC)

Date/Time

05/28/2025 10.45

Raw Sample Received by:

RM acc

Raw Sample Relinquished by:

RM (WC)

SOP ID : MSM4500-NH3 B,G-Ammonia-17

SDG No : N/A

Start Digest Date: 04/30/2025 Time : 09:25 Temp : 150 °C

Matrix : SOIL

End Digest Date: 04/30/2025 Time : 10:25 Temp : 158 °C

Pipette ID : WC

11 batch
04/30/2025 10:50 150°C } RM
04/30/2025 11:50 160°C }

Balance ID : WC SC-7

Hood ID : HOOD#2

Digestion tube ID : M5595

Block Thermometer ID : WC CYANIDE

Block ID : WC-DIST-BLOCK-1

Filter paper ID : N/A

Prep Technician Signature: RM

Weigh By : RM

pH Meter ID : N/A

Supervisor Signature: 12

Standardized Name	MLS USED	STD REF. # FROM LOG
LCSS	1.0ML	WP112614
MS/MSD SPIKE SOL.	1.0ML	WP112613
PBW	50.0ML	W3112
RL CHECK	0.1ML	WP112613
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 Paper 0-14	N/A	W3140
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

ALL GLASSWEAR ARE STEAMED OUT AND THERE WERE NO TRACE OF AMMONIA USING NESLER REAGENT
WP111604

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/30/2025 12:05	RM CWG	RM CWG
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167793BL	PBS793	1.00	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
PB167793BS	LCS793	1.00	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1872-07	HW0425-PT-NUT-SOIL	1.00	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1889-01DUP	COMP-1DUP	1.02	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1889-01MS	COMP-1MS	1.03	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1889-01MSD	COMP-1MSD	1.02	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1889-01	COMP-1	1.02	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1889-02	COMP-2	1.04	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1889-03	COMP-3	1.01	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1903-01	COMP-4	1.04	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1903-02	COMP-5	1.04	50	N/A	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1903-03	COMP-6	1.02	50	N/A	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
Q1907-01	CO-8R-WC	1.02	50	N/A	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : ammonia-04-29 WorkList ID : 189210 Department : Distillation Date : 04-29-2025 11:26:03

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1872-07	HW0425-PT-NUT-SOIL	Solid	Ammonia	Cool 4 deg C	ALLI03	QA Of	04/21/2025	SM4500-NH3
Q1889-01	COMP-1	Solid	Ammonia	Cool 4 deg C	POWE02	L51	04/24/2025	SM4500-NH3
Q1889-02	COMP-2	Solid	Ammonia	Cool 4 deg C	POWE02	L51	04/24/2025	SM4500-NH3
Q1889-03	COMP-3	Solid	Ammonia	Cool 4 deg C	POWE02	L51	04/24/2025	SM4500-NH3
Q1903-01	COMP-4	Solid	Ammonia	Cool 4 deg C	POWE02	L51	04/25/2025	SM4500-NH3
Q1903-02	COMP-5	Solid	Ammonia	Cool 4 deg C	POWE02	L51	04/25/2025	SM4500-NH3
Q1903-03	COMP-6	Solid	Ammonia	Cool 4 deg C	POWE02	L51	04/25/2025	SM4500-NH3
Q1907-01	CO-8R-WC	Solid	Ammonia	Cool 4 deg C	WALS01	L51	04/28/2025	SM4500-NH3

Date/Time 04/30/2025 08:20
Raw Sample Received by: RM
Raw Sample Relinquished by: xDuck

Date/Time 04/30/2025 11:10
Raw Sample Received by: JF
Raw Sample Relinquished by: RM

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

SDG No : N/A

Start Digest Date: 05/06/2025 Time : 11:00 Temp : 124 °C

Matrix : SOIL

End Digest Date: 05/06/2025 Time : 12:30 Temp : 126 °C

Pipette ID : WC

if belch 05/06/2025 13:00 124°C
05/06/2025 14:30 126°C

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: [Signature]

Weigh By : JP

pH Meter ID : N/A

Supervisor Signature: 12

Standard Name	MLS USED	STD REF. # FROM LOG
LCSS	1.0ML	WP111296
MS/MSD SPIKE SOL.	0.40ML	WP111295
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
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	0.5ML	W3012
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	5.0ML	WP111295
LOWSTD	LOWSTD	0.1ML	WP111295

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
05/06/2025 14:50	JP / LOC	RM / [Signature]
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167873BL	PBS873	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
PB167873BS	LCS873	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1872-03	HW0425-PT-CN-SOIL	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1936-01	SMALL-PILE-A	1.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1936-03	SMALL-PILE-B	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1936-05	SMALL-PILE-C	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1936-07	SMALL-PILE-D	1.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1937-01	LARGE-PILE-A	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1937-03	LARGE-PILE-B	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1937-05	LARGE-PILE-C	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1937-07	LARGE-PILE-D	1.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1937-09	LARGE-PILE-E	1.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1937-11	LARGE-PILE-F	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1938-01	LOWER-WALL-PILE-A	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1938-03	LOWER-WALL-PILE-B	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1938-05	LOWER-WALL-PILE-C	1.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1938-07	LOWER-WALL-PILE-D	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1938-07DUP	LOWER-WALL-PILE-DDUP	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1938-07MS	LOWER-WALL-PILE-DMS	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1938-07MSD	LOWER-WALL-PILE-DMSD	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : CN Q1936 WorkList ID : 189295 Department : Distillation Date : 05-05-2025 08:12:23

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1872-03	HW0425-PT-CN-SOIL	Solid	Cyanide	Cool 4 deg C	ALLI03	QA Of	04/21/2025	9012B
Q1936-01	SMALL-PILE-A	Solid	Cyanide	Cool 4 deg C	SAXT01	L51	05/01/2025	9012B
Q1936-03	SMALL-PILE-B	Solid	Cyanide	Cool 4 deg C	SAXT01	L51	05/01/2025	9012B
Q1936-05	SMALL-PILE-C	Solid	Cyanide	Cool 4 deg C	SAXT01	L51	05/01/2025	9012B
Q1936-07	SMALL-PILE-D	Solid	Cyanide	Cool 4 deg C	SAXT01	L51	05/01/2025	9012B
Q1937-01	LARGE-PILE-A	Solid	Cyanide	Cool 4 deg C	SAXT01	L51	05/01/2025	9012B
Q1937-03	LARGE-PILE-B	Solid	Cyanide	Cool 4 deg C	SAXT01	L41	05/01/2025	9012B
Q1937-05	LARGE-PILE-C	Solid	Cyanide	Cool 4 deg C	SAXT01	L41	05/01/2025	9012B
Q1937-07	LARGE-PILE-D	Solid	Cyanide	Cool 4 deg C	SAXT01	L41	05/01/2025	9012B
Q1937-09	LARGE-PILE-E	Solid	Cyanide	Cool 4 deg C	SAXT01	L41	05/01/2025	9012B
Q1937-11	LARGE-PILE-F	Solid	Cyanide	Cool 4 deg C	SAXT01	L41	05/01/2025	9012B
Q1938-01	LOWER-WALL-PILE-A	Solid	Cyanide	Cool 4 deg C	SAXT01	L41	05/01/2025	9012B
Q1938-03	LOWER-WALL-PILE-B	Solid	Cyanide	Cool 4 deg C	SAXT01	L41	05/01/2025	9012B
Q1938-05	LOWER-WALL-PILE-C	Solid	Cyanide	Cool 4 deg C	SAXT01	L41	05/01/2025	9012B
Q1938-07	LOWER-WALL-PILE-D	Solid	Cyanide	Cool 4 deg C	SAXT01	L41	05/01/2025	9012B

Date/Time 05/06/2025 10:00
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

Date/Time 05/06/2025 13:30
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

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

SDG No : N/A

Start Digest Date: 05/06/2025 Time : 13:00 Temp : 124 °C

Matrix : SOIL

End Digest Date: 05/06/2025 Time : 14:30 Temp : 126 °C

Pipette 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: [Signature]

Weigh By : JP

pH Meter ID : N/A

Supervisor Signature: [Signature]

Standardized Name	MLS USED	STD REF. # FROM LOG
LCSS	1.0ML	WP111296
PBS003	50.0ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.25N NaOH	50.0ML	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 PB167873
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 PB167873
LOWSTD	LOWSTD	N/A	AS PER PB167873

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
05/06/2025 14:50	[Signature] / LOC	RM (WC)
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167896BL	PBS896	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
PB167896BS	LCS896	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1872-04	HW0425-PT-CN-SOIL	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : CN1872

WorkList ID : 189367

Department : Distillation

Date : 05-06-2025 10:12:14

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1872-04	HW0425-PT-CN-SOIL	Solid	Cyanide	Cool 4 deg C	ALLI03	QA Of	04/21/2025	9014

Date/Time 05/06/2025 12:00

Raw Sample Received by: JRC

Raw Sample Relinquished by: JRC

Date/Time NA

Raw Sample Received by: "

Raw Sample Relinquished by: "

SOP ID : MSM4500-N Org C-TKN-11

SDG No : N/A

Start Digest Date: 05/13/2025 Time : 09:00 Temp : 385 °C

Matrix : SOIL

End Digest Date: 05/13/2025 Time : 10:30 Temp : 380 °C

Pipette ID : WC

Start Distillation Date: 05/13/2025 Time : 12:35 Temp : 150 °C

Balance ID : WC SC-7

End Distillation Date: 05/13/2025 Time : 13:35 Temp : 160 °C

Hood ID : HOOD#2&3

Digestion tube ID : M5595

Block Thermometer ID : Therm#2(2179)

Block ID : WC-DIST-BLOCK-1

Filter paper ID : N/A

Prep Technician Signature: RM

Weigh By : RM

pH Meter ID : N/A

Supervisor Signature: 12

Standard Name	MLS USED	STD REF. # FROM LOG
TKN CAL STD	50.0ML	WP113038
TKN CCV STD	50.0ML	WP113039
TKN ICV STD	50.0ML	WP113040
TKN LCS STD	50.0ML	WP113041
RL CHECK	N/A	AS PER PB167946

Chemical Used	ML/SAMPLE USED	Lot Number
TKN DIGESTION FLUID	10.0ML	WP111319
TKN DISTILLATION BUFFER	10.0ML	WP112903
H2SO4 0.04N	5.0ML	WP112828
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

ALL GLASSWEAR ARE STEAMED OUT AND THERE WERE NO TRACE OF AMMONIA USING NESLER REAGENT WP111604.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
05/13/2025 13:45	RM CWC	RM CWC
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/Nitrite	Comment	Prep Pos
PB167947BL	PBS947	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
PB167947BS	LCS947	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1872-07	HW0425-PT-NUT-SOIL	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A

SOP ID : M365.3 & SM4500-P E-18

SDG No : N/A

Matrix : SOIL

Pipette ID : WC

Balance ID : WC SC-7

Hood ID : HOOD#3

Block ID : WC S-2, WC S-1

Weigh By : IZ

Start Digest Date: 05/28/2025 Time : 11:45 Temp : 95 °C

End Digest Date: 05/28/2025 Time : 12:45 Temp : 95 °C

1 batch 05/28/2025 13:10 95 °C
05/28/2025 14:10 96 °C

Digestion tube ID : M5595

Block Thermometer ID : WC-Block#1

Filter paper ID : N/A

Prep Technician Signature: 12

pH Meter ID : N/A

Supervisor Signature: 78

Standardized Name	MLS USED	STD REF. # FROM LOG
LCSS	0.5ML	WP112914
MS/MSD SPIKE SOL.	0.5ML	WP112913
PBS003	50.0ML	W3112
LOD	50.0ML	WP113228
LOQ	50.0ML	WP113229

Chemical Used	ML/SAMPLE USED	Lot Number
11N H2SO4	1ML	WP112615
AMMONIUM PERSULFATE	0.4GM	W3035
pH Paper 0-14	N/A	W3140
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
CAL1	CAL1	50.0ML	WP113219
CAL2	CAL2	50.0ML	WP113220
CAL3	CAL3	50.0ML	WP113221
CAL4	CAL4	50.0ML	WP113222
CAL5	CAL5	50.0ML	WP113223
CAL6	CAL6	50.0ML	WP113224
ICV	ICV	50.0ML	WP113226
ICB	ICB	50.0ML	W3112
CCV	CCV	50.0ML	WP113225
CCB	CCB	50.0ML	W3112

Extraction Conformance/Non-Conformance Comments:

N/A

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

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB168183BL	PBS183	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
PB168183BS	LCS183	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1872-07	HW0425-PT-NUT-SOIL	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-01	SC-4-SED-051525	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-01DUP	SC-4-SED-051525DUP	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-01MS	SC-4-SED-051525MS	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-01MSD	SC-4-SED-051525MSD	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-02	SC-3-SED-051525	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-03	SC-2-SED-051525	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-07	SC-COMP-SED-051625	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-08	DUPE-1-SC	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2126-01	LOD-MDL-SOIL-03-QT2-2025	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2126-02	LOQ-SOIL-02-QT2-2025	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TotalPhos-052825 WorkList ID : 189781 Department : Distillation Date : 05-28-2025 09:26:27

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1872-07	HW0425-PT-NUT-SOIL	Solid	Phosphorus, Total	Cool 4 deg C	ALLI03	QA Of	04/21/2025	365.3
Q2085-01	SC-4-SED-051525	Solid	Phosphorus, Total	Cool 4 deg C	USAR03	L41	05/15/2025	365.3
Q2085-02	SC-3-SED-051525	Solid	Phosphorus, Total	Cool 4 deg C	USAR03	L41	05/15/2025	365.3
Q2085-03	SC-2-SED-051525	Solid	Phosphorus, Total	Cool 4 deg C	USAR03	L41	05/15/2025	365.3
Q2085-07	SC-COMP-SED-051625	Solid	Phosphorus, Total	Cool 4 deg C	USAR03	L41	05/16/2025	365.3
Q2085-08	DUPE-1-SC	Solid	Phosphorus, Total	Cool 4 deg C	USAR03	L41	05/16/2025	365.3
Q2126-01	LOD-MDL-SOIL-03-QT2-2025	Solid	Phosphorus, Total	Cool 4 deg C	ALLI03	QA Of	05/23/2025	365.3
Q2126-02	LOQ-SOIL-02-QT2-2025	Solid	Phosphorus, Total	Cool 4 deg C	ALLI03	QA Of	05/23/2025	365.3

Date/Time 05/28/25 10:30
 Raw Sample Received by: 12(20)
 Raw Sample Relinquished by: 28(20)

Date/Time 05/28/25 12:10
 Raw Sample Received by: 28(20)
 Raw Sample Relinquished by: 12(20)

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB135580

Review By	jignesh	Review On	4/29/2025 12:47:39 PM
Supervise By	Iwona	Supervise On	4/29/2025 12:51:58 PM
SubDirectory	LB135580	Test	TS

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	N/A

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB135580BL	LB135580BL	MB	04/28/25 11:00		jignesh	OK
2	Q1872-24	HW0425-PT-SOL-SO	SAM	04/28/25 11:00		jignesh	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB135612

Review By	rubina	Review On	5/1/2025 9:04:33 AM
Supervise By	Iwona	Supervise On	5/1/2025 12:51:47 PM
SubDirectory	LB135612	Test	Ammonia
STD. NAME	STD REF.#		
ICAL Standard	WP112894		
ICV Standard	WP112896		
CCV Standard	WP112895		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP112614		
Chk Standard	WP112897,WP111745,WP111385,WP111660		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	04/30/25 13:01		rubina	OK
2	0.1PPM	0.1PPM	CAL2	04/30/25 13:01		rubina	OK
3	0.2PPM	0.2PPM	CAL3	04/30/25 13:01		rubina	OK
4	0.4PPM	0.4PPM	CAL4	04/30/25 13:01		rubina	OK
5	1.0PPM	1.0PPM	CAL5	04/30/25 13:01		rubina	OK
6	1.3PPM	1.3PPM	CAL6	04/30/25 13:01		rubina	OK
7	2.0PPM	2.0PPM	CAL7	04/30/25 13:01		rubina	OK
8	ICV1	ICV1	ICV	04/30/25 13:41		rubina	OK
9	ICB1	ICB1	ICB	04/30/25 13:41		rubina	OK
10	CCV1	CCV1	CCV	04/30/25 13:41		rubina	OK
11	CCB1	CCB1	CCB	04/30/25 13:41		rubina	OK
12	RL	RL	LOQ	04/30/25 13:41		rubina	OK
13	PB167793BL	PB167793BL	MB	04/30/25 13:41		rubina	OK
14	PB167793BS	PB167793BS	LCS	04/30/25 13:51		rubina	OK
15	Q1889-01	COMP-1	SAM	04/30/25 13:51		rubina	OK
16	Q1889-01DUP	COMP-1DUP	DUP	04/30/25 13:51		rubina	OK
17	Q1889-01MS	COMP-1MS	MS	04/30/25 13:51		rubina	OK
18	Q1889-01MSD	COMP-1MSD	MSD	04/30/25 13:51		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB135612

Review By	rubina	Review On	5/1/2025 9:04:33 AM
Supervise By	Iwona	Supervise On	5/1/2025 12:51:47 PM
SubDirectory	LB135612	Test	Ammonia
STD. NAME	STD REF.#		
ICAL Standard	WP112894		
ICV Standard	WP112896		
CCV Standard	WP112895		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP112614		
Chk Standard	WP112897,WP111745,WP111385,WP111660		

19	Q1889-02	COMP-2	SAM	04/30/25 13:51		rubina	OK
20	Q1889-03	COMP-3	SAM	04/30/25 13:51		rubina	OK
21	Q1903-01	COMP-4	SAM	04/30/25 14:02		rubina	OK
22	CCV2	CCV2	CCV	04/30/25 14:02		rubina	OK
23	CCB2	CCB2	CCB	04/30/25 14:02		rubina	OK
24	Q1903-02	COMP-5	SAM	04/30/25 14:02		rubina	OK
25	Q1903-03	COMP-6	SAM	04/30/25 14:02		rubina	OK
26	Q1907-01	CO-008R-WC	SAM	04/30/25 14:02		rubina	OK
27	Q1872-07	HW0425-PT-NUT-SO	SAM	04/30/25 14:13	High	rubina	Dilution
28	Q1872-07DL	HW0425-PT-NUT-SO	SAM	04/30/25 14:13	Report 20X	rubina	Confirms
29	CCV3	CCV3	CCV	04/30/25 14:19		rubina	OK
30	CCB3	CCB3	CCB	04/30/25 14:19		rubina	OK

Instrument ID: IC-2

Daily Analysis Runlog For Sequence/QC Batch ID # LB135679

Review By	rubina	Review On	5/7/2025 1:05:16 PM
Supervise By	Iwona	Supervise On	5/7/2025 1:06:54 PM
SubDirectory	LB135679	Test	Anions
STD. NAME	STD REF.#		
ICAL Standard	WP112787,WP112788,WP112789,WP112790,WP112791,WP112792,WP112793		
ICV Standard	WP112794		
CCV Standard	WP112892		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP112893		
Chk Standard	WP112798,WP112800		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	STD1	STD1	CAL1	04/22/25 10:37	All standards, samples, and	NF/IZ	OK
2	STD2	STD2	CAL2	04/22/25 10:59	QC are filtered through	NF/IZ	OK
3	STD3	STD3	CAL3	04/22/25 11:20	0.45um, filter lot W3160	NF/IZ	OK
4	STD4	STD4	CAL4	04/22/25 11:42		NF/IZ	OK
5	STD5	STD5	CAL5	04/22/25 12:03		NF/IZ	OK
6	STD6	STD6	CAL6	04/22/25 12:25		NF/IZ	OK
7	STD7	STD7	CAL7	04/22/25 12:46		NF/IZ	OK
8	ICV1	ICV1	ICV	04/22/25 13:07		NF/IZ	OK
9	ICB1	ICB1	ICB	04/22/25 13:58		NF/IZ	OK
10	CCV1	CCV1	CCV	04/29/25 11:14		NF/IZ	OK
11	CCB1	CCB1	CCB	04/29/25 11:35		NF/IZ	OK
12	LB135679BLS	LB135679BLS	MB	04/29/25 11:57		NF/IZ	OK
13	LB135679BSS	LB135679BSS	LCS	04/29/25 12:18		NF/IZ	OK
14	Q1872-01DL	HW0425-PT-AN-SOIL	SAM	04/29/25 13:02	4X for CL,F,NO3,OPO4,SO4,Still CL, NO3, SO4 high	NF/IZ	Dilution
15	Q1872-01DL2	HW0425-PT-AN-SOIL	SAM	04/29/25 13:25	20X for CL,NO3,SO4	NF/IZ	Confirms
16	Q1872-25	HW0425-PT-NO2-SO	SAM	04/29/25 14:11	NO2 high	NF/IZ	Dilution
17	Q1872-25DL	HW0425-PT-NO2-SO	SAM	04/29/25 14:56	2x for NO2	NF/IZ	Confirms

Instrument ID: IC-2

Daily Analysis Runlog For Sequence/QC Batch ID # LB135679

Review By	rubina	Review On	5/7/2025 1:05:16 PM
Supervise By	Iwona	Supervise On	5/7/2025 1:06:54 PM
SubDirectory	LB135679	Test	Anions

STD. NAME	STD REF.#
ICAL Standard	WP112787,WP112788,WP112789,WP112790,WP112791,WP112792,WP112793
ICV Standard	WP112794
CCV Standard	WP112892
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP112893
Chk Standard	WP112798,WP112800

18	Q1872-01	HW0425-PT-AN-SOIL	SAM	04/29/25 15:39	CL,F,NO3,OPO4,SO4 high	NF/IZ	Dilution
19	CCV2	CCV2	CCV	04/29/25 16:00		NF/IZ	OK
20	CCB2	CCB2	CCB	04/29/25 16:22		NF/IZ	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB135693

Review By	rubina	Review On	5/8/2025 10:21:54 AM
Supervise By	Iwona	Supervise On	5/12/2025 10:28:55 AM
SubDirectory	LB135693	Test	Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP112977,WP112978,WP112979,WP112980,WP112981,WP112982,WP112983		
ICV Standard	W3012		
CCV Standard	WP112978		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP111296		
Chk Standard	WP112643,WP112900,WP112985		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	05/07/25 10:11		rubina	OK
2	5.0PPBCN	5.0PPBCN	CAL2	05/07/25 10:11		rubina	OK
3	10PPBCN	10PPBCN	CAL3	05/07/25 10:11		rubina	OK
4	50PPBCN	50PPBCN	CAL4	05/07/25 10:11		rubina	OK
5	100PPBCN	100PPBCN	CAL5	05/07/25 10:12		rubina	OK
6	250PPBCN	250PPBCN	CAL6	05/07/25 10:12		rubina	OK
7	500PPBCN	500PPBCN	CAL7	05/07/25 10:12		rubina	OK
8	ICV1	ICV1	ICV	05/07/25 11:02		rubina	OK
9	ICB1	ICB1	ICB	05/07/25 11:02		rubina	OK
10	CCV1	CCV1	CCV	05/07/25 11:02		rubina	OK
11	CCB1	CCB1	CCB	05/07/25 11:02		rubina	OK
12	PB167873BL	PB167873BL	MB	05/07/25 11:02		rubina	OK
13	PB167873BS	PB167873BS	LCS	05/07/25 11:09		rubina	OK
14	LOWPB167873	LOWPB167873	SAM	05/07/25 11:09		rubina	OK
15	HIGHPB167873	HIGHPB167873	SAM	05/07/25 11:09		rubina	OK
16	Q1936-01	SMALL-PILE-A	SAM	05/07/25 11:09		rubina	OK
17	Q1936-03	SMALL-PILE-B	SAM	05/07/25 11:09		rubina	OK
18	Q1936-07	SMALL-PILE-D	SAM	05/07/25 11:09		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB135693

Review By	rubina	Review On	5/8/2025 10:21:54 AM
Supervise By	Iwona	Supervise On	5/12/2025 10:28:55 AM
SubDirectory	LB135693	Test	Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP112977,WP112978,WP112979,WP112980,WP112981,WP112982,WP112983		
ICV Standard	W3012		
CCV Standard	WP112978		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP111296		
Chk Standard	WP112643,WP112900,WP112985		

19	Q1937-01	LARGE-PILE-A	SAM	05/07/25 11:17		rubina	OK
20	Q1937-03	LARGE-PILE-B	SAM	05/07/25 11:17		rubina	OK
21	Q1936-05	SMALL-PILE-C	SAM	05/07/25 11:17		rubina	OK
22	CCV2	CCV2	CCV	05/07/25 11:17		rubina	OK
23	CCB2	CCB2	CCB	05/07/25 11:17		rubina	OK
24	Q1937-05	LARGE-PILE-C	SAM	05/07/25 11:17		rubina	OK
25	Q1937-07	LARGE-PILE-D	SAM	05/07/25 11:17		rubina	OK
26	Q1937-09	LARGE-PILE-E	SAM	05/07/25 11:17		rubina	OK
27	Q1937-11	LARGE-PILE-F	SAM	05/07/25 11:22		rubina	OK
28	Q1938-01	LOWER-WALL-PILE-I	SAM	05/07/25 11:22		rubina	OK
29	Q1938-03	LOWER-WALL-PILE-I	SAM	05/07/25 11:22		rubina	OK
30	Q1938-05	LOWER-WALL-PILE-I	SAM	05/07/25 11:22		rubina	OK
31	Q1938-07	LOWER-WALL-PILE-I	SAM	05/07/25 11:29		rubina	OK
32	Q1938-07DUP	LOWER-WALL-PILE-I	DUP	05/07/25 11:29		rubina	OK
33	Q1938-07MS	LOWER-WALL-PILE-I	MS	05/07/25 11:29		rubina	OK
34	CCV3	CCV3	CCV	05/07/25 11:29		rubina	OK
35	CCB3	CCB3	CCB	05/07/25 11:29		rubina	OK
36	Q1938-07MSD	LOWER-WALL-PILE-I	MSD	05/07/25 11:29		rubina	OK
37	Q1872-03	HW0425-PT-CN-SOIL	SAM	05/07/25 11:37	CN is high	rubina	Dilution
38	CCV4	CCV4	CCV	05/07/25 11:44		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB135693

Review By	rubina	Review On	5/8/2025 10:21:54 AM
Supervise By	Iwona	Supervise On	5/12/2025 10:28:55 AM
SubDirectory	LB135693	Test	Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP112977,WP112978,WP112979,WP112980,WP112981,WP112982,WP112983
ICV Standard	W3012
CCV Standard	WP112978
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP111296
Chk Standard	WP112643,WP112900,WP112985

39	CCB4	CCB4	CCB	05/07/25 11:44		rubina	OK
40	Q1872-03DL	HW0425-PT-CN-SOIL	SAM	05/07/25 12:09	5X for CN	rubina	Confirms
41	CCV5	CCV5	CCV	05/07/25 12:13		rubina	OK
42	CCB5	CCB5	CCB	05/07/25 12:13		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB135694

Review By	rubina	Review On	5/8/2025 10:22:56 AM
Supervise By	Iwona	Supervise On	5/12/2025 10:29:02 AM
SubDirectory	LB135694	Test	Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP112977,WP112978,WP112979,WP112980,WP112981,WP112982,WP112983		
ICV Standard	W3012		
CCV Standard	WP112978		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP111296		
Chk Standard	WP112643,WP112900,WP112985		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	05/07/25 10:11		rubina	OK
2	5.0PPBCN	5.0PPBCN	CAL2	05/07/25 10:11		rubina	OK
3	10PPBCN	10PPBCN	CAL3	05/07/25 10:11		rubina	OK
4	50PPBCN	50PPBCN	CAL4	05/07/25 10:11		rubina	OK
5	100PPBCN	100PPBCN	CAL5	05/07/25 10:12		rubina	OK
6	250PPBCN	250PPBCN	CAL6	05/07/25 10:12		rubina	OK
7	500PPBCN	500PPBCN	CAL7	05/07/25 10:12		rubina	OK
8	ICV1	ICV1	ICV	05/07/25 13:09		rubina	OK
9	ICB1	ICB1	ICB	05/07/25 13:09		rubina	OK
10	CCV1	CCV1	CCV	05/07/25 13:09		rubina	OK
11	CCB1	CCB1	CCB	05/07/25 13:09		rubina	OK
12	PB167896BL	PB167896BL	MB	05/07/25 13:09		rubina	OK
13	PB167896BS	PB167896BS	LCS	05/07/25 13:10		rubina	OK
14	Q1872-04	HW0425-PT-CN-SOIL	SAM	05/07/25 13:16	CN High	rubina	Dilution
15	Q1872-04DL	HW0425-PT-CN-SOIL	SAM	05/07/25 13:16	5x for CN	rubina	Confirms
16	CCV2	CCV2	CCV	05/07/25 13:16		rubina	OK
17	CCB2	CCB2	CCB	05/07/25 13:16		rubina	OK

Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135698

Review By	jignesh	Review On	5/7/2025 4:25:53 PM
Supervise By	Iwona	Supervise On	5/7/2025 4:29:09 PM
SubDirectory	LB135698	Test	Corrosivity
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	W3178,W3093,W3191,W3071,W3161,W3072		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	05/07/25 15:00		Jignesh	OK
2	CAL2	CAL2	CAL	05/07/25 15:01		Jignesh	OK
3	CAL3	CAL3	CAL	05/07/25 15:05		Jignesh	OK
4	ICV	ICV	ICV	05/07/25 15:10		Jignesh	OK
5	CCV1	CCV1	CCV	05/07/25 15:11		Jignesh	OK
6	Q1872-02	HW0425-PT-CORR-S	SAM	05/07/25 15:20		Jignesh	OK
7	Q1964-04	MH-LL	SAM	05/07/25 15:25		Jignesh	OK
8	Q1964-04DUP	MH-LLDUP	DUP	05/07/25 15:26		Jignesh	OK
9	Q1966-03	SILICA-GEL	SAM	05/07/25 15:33		Jignesh	OK
10	Q1968-04	MH-M	SAM	05/07/25 15:40		Jignesh	OK
11	Q1968-08	MH-M	SAM	05/07/25 15:45		Jignesh	OK
12	Q1972-04	SUB-WC	SAM	05/07/25 15:52		Jignesh	OK
13	Q1972-08	WC-B-10	SAM	05/07/25 16:00		Jignesh	OK
14	Q1972-12	WC-B-2	SAM	05/07/25 16:10		Jignesh	OK
15	Q1972-16	WC-B-7	SAM	05/07/25 16:15		Jignesh	OK
16	CCV2	CCV2	CCV	05/07/25 16:20		Jignesh	OK
17	Q1972-20	SUB-WC-2	SAM	05/07/25 16:25		Jignesh	OK
18	Q1972-24	WC-B-1	SAM	05/07/25 16:35		Jignesh	OK

Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135698

Review By	jignesh	Review On	5/7/2025 4:25:53 PM
Supervise By	Iwona	Supervise On	5/7/2025 4:29:09 PM
SubDirectory	LB135698	Test	Corrosivity

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	W3178,W3093,W3191,W3071,W3161,W3072

19	Q1974-02	OILY-DEBRIS-COMP	SAM	05/07/25 16:40		Jignesh	OK
20	Q1974-04	OILY-PADS	SAM	05/07/25 16:45		Jignesh	OK
21	CCV3	CCV3	CCV	05/07/25 16:50		Jignesh	OK

Instrument ID: IGN-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135703

Review By	rubina	Review On	5/8/2025 3:39:58 PM
Supervise By	jignesh	Supervise On	5/8/2025 4:16:49 PM
SubDirectory	LB135703	Test	Flash Point
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	W3193		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	ICV	ICV	ICV	05/08/25 08:30		rubina	OK
2	Q1872-05	HW0425-PT-FP-SOIL	SAM	05/08/25 09:00		rubina	OK
3	Q1965-01	50623	SAM	05/08/25 09:30		rubina	OK
4	Q1965-01DUP	50623DUP	DUP	05/08/25 10:00		rubina	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB135760

Review By	jignesh	Review On	5/14/2025 2:18:50 PM
Supervise By	Iwona	Supervise On	5/14/2025 2:28:32 PM
SubDirectory	LB135760	Test	Oil and Grease
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	W3204,NA,EP2611,NA,NA,E2865,WP112785,NA,WP112786		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB135760BL	LB135760BL	MB	05/14/25 10:40		jignesh	OK
2	LB135760BS	LB135760BS	LCS	05/14/25 10:40		jignesh	OK
3	Q1872-09	HW0425-PT-OGR-SC	SAM	05/14/25 10:40		jignesh	OK
4	Q2001-02	WC-A4-03-C	SAM	05/14/25 10:40		jignesh	OK
5	Q2001-02DUP	WC-A4-03-CDUP	DUP	05/14/25 10:40		jignesh	OK
6	Q2001-02MS	WC-A4-03-CMS	MS	05/14/25 10:40		jignesh	OK
7	Q2001-02MSD	WC-A4-03-CMSD	MSD	05/14/25 10:40		jignesh	OK
8	Q2001-06	WC-A1-05-C	SAM	05/14/25 10:40		jignesh	OK
9	Q2001-10	WC-A1-06-C	SAM	05/14/25 10:40		jignesh	OK
10	Q2001-14	WC-A1-07-C	SAM	05/14/25 10:40		jignesh	OK

Instrument ID: TOC

Daily Analysis Runlog For Sequence/QC Batch ID # LB135761

Review By	rubina	Review On	5/29/2025 10:35:00 AM
Supervise By	Iwona	Supervise On	5/29/2025 10:47:35 AM
SubDirectory	LB135761	Test	TOC
STD. NAME	STD REF.#		
ICAL Standard	WP112403,WP112404,WP112405,WP112406,WP112407		
ICV Standard	WP112408		
CCV Standard	WP113210		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP113211		
Chk Standard	WP112446		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	BLANK	BLANK	CAL1	03/14/25 08:33		NF IZ	OK
2	250mg/l	250mg/l	CAL2	03/14/25 08:43		NF IZ	OK
3	500mg/l	500mg/l	CAL3	03/14/25 08:52		NF IZ	OK
4	1000mg/l	1000mg/l	CAL4	03/14/25 09:02		NF IZ	OK
5	2000mg/l	2000mg/l	CAL5	03/14/25 09:13		NF IZ	OK
6	ICV1	ICV1	ICV	03/14/25 09:39		NF IZ	OK
7	ICB1	ICB1	ICB	03/14/25 09:54		NF IZ	OK
8	CCV1	CCV1	CCV	05/27/25 08:42		NF IZ	OK
9	CCB1	CCB1	CCB	05/27/25 09:00		NF IZ	OK
10	LB135761BLS	LB135761BLS	MB	05/27/25 09:17		NF IZ	OK
11	LB135761BSS	LB135761BSS	LCS	05/27/25 09:27		NF IZ	OK
12	Q2126-04	LOD-MDL-SOIL-04-Q	SAM	05/27/25 09:35		NF IZ	OK
13	Q2126-05	LOQ-SOIL-05-QT2-20	LOQ	05/27/25 09:43		NF IZ	OK
14	Q1872-08	HW0425-PT-NUT-SO	SAM	05/27/25 10:19		NF IZ	OK
15	CCV2	CCV2	CCV	05/27/25 10:33		NF IZ	OK
16	CCB2	CCB2	CCB	05/27/25 10:49		NF IZ	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB135787

Review By	rubina	Review On	5/15/2025 3:58:51 PM
Supervise By	Iwona	Supervise On	5/15/2025 4:02:23 PM
SubDirectory	LB135787	Test	TKN
STD. NAME	STD REF.#		
ICAL Standard	WP113038		
ICV Standard	WP113040		
CCV Standard	WP113039		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP113041		
Chk Standard	WP112897,WP111745,WP111385,WP111660		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	05/15/25 10:19		rubina	OK
2	0.5PPM	0.5PPM	CAL2	05/15/25 10:19		rubina	OK
3	1.0PPM	1.0PPM	CAL3	05/15/25 10:19		rubina	OK
4	2.5PPM	2.5PPM	CAL4	05/15/25 10:19		rubina	OK
5	5.0PPM	5.0PPM	CAL5	05/15/25 10:19		rubina	OK
6	6.7PPM	6.7PPM	CAL6	05/15/25 10:19		rubina	OK
7	10.0PPM	10.0PPM	CAL7	05/15/25 10:19		rubina	OK
8	ICV1	ICV1	ICV	05/15/25 11:07		rubina	OK
9	ICB1	ICB1	ICB	05/15/25 11:07		rubina	OK
10	CCV1	CCV1	CCV	05/15/25 11:07		rubina	OK
11	CCB1	CCB1	CCB	05/15/25 11:07		rubina	OK
12	RL	RL	LOQ	05/15/25 11:07		rubina	OK
13	PB167946BL	PB167946BL	MB	05/15/25 11:07		rubina	OK
14	PB167946BS	PB167946BS	LCS	05/15/25 11:17		rubina	OK
15	Q2005-01	252806	SAM	05/15/25 11:17	TKN High	rubina	Dilution
16	Q2005-01DUP	252806DUP	DUP	05/15/25 11:18	TKN High	rubina	Dilution
17	Q2005-01MS	252806MS	MS	05/15/25 11:18		rubina	OK
18	Q2005-01MSD	252806MSD	MSD	05/15/25 11:18		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB135787

Review By	rubina	Review On	5/15/2025 3:58:51 PM
Supervise By	Iwona	Supervise On	5/15/2025 4:02:23 PM
SubDirectory	LB135787	Test	TKN

STD. NAME	STD REF.#
ICAL Standard	WP113038
ICV Standard	WP113040
CCV Standard	WP113039
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP113041
Chk Standard	WP112897,WP111745,WP111385,WP111660

19	PB167947BL	PB167947BL	MB	05/15/25 11:18		rubina	OK
20	PB167947BS	PB167947BS	LCS	05/15/25 11:18		rubina	OK
21	Q1872-07	HW0425-PT-NUT-SO	SAM	05/15/25 11:18	TKN High	rubina	Dilution
22	CCV2	CCV2	CCV	05/15/25 11:26		rubina	OK
23	CCB2	CCB2	CCB	05/15/25 11:26		rubina	OK
24	Q1872-07DL	HW0425-PT-NUT-SO	SAM	05/15/25 12:13	10X for TKN	rubina	Confirms
25	Q2005-01DL	252806DL	SAM	05/15/25 12:14	10X for TKN	rubina	Confirms
26	Q2005-01DUPDL	252806DUPDL	DUP	05/15/25 12:19	10X for TKN	rubina	Confirms
27	CCV3	CCV3	CCV	05/15/25 12:19		rubina	OK
28	CCB3	CCB3	CCB	05/15/25 12:19		rubina	OK

Instrument ID: TOC

Daily Analysis Runlog For Sequence/QC Batch ID # LB135817

Review By	rubina	Review On	5/29/2025 10:34:44 AM
Supervise By	Iwona	Supervise On	5/29/2025 10:47:27 AM
SubDirectory	LB135817	Test	TOC
STD. NAME	STD REF.#		
ICAL Standard	WP112403,WP112404,WP112405,WP112406,WP112407		
ICV Standard	WP112408		
CCV Standard	WP113210		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP113211		
Chk Standard	WP112446		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	BLANK	BLANK	CAL1	03/14/25 08:33		NF IZ	OK
2	250mg/l	250mg/l	CAL2	03/14/25 08:43		NF IZ	OK
3	500mg/l	500mg/l	CAL3	03/14/25 08:52		NF IZ	OK
4	1000mg/l	1000mg/l	CAL4	03/14/25 09:02		NF IZ	OK
5	2000mg/l	2000mg/l	CAL5	03/14/25 09:13		NF IZ	OK
6	ICV1	ICV1	ICV	03/14/25 09:39		NF IZ	OK
7	ICB1	ICB1	ICB	03/14/25 09:54		NF IZ	OK
8	CCV1	CCV1	CCV	05/27/25 08:42		NF IZ	OK
9	CCB1	CCB1	CCB	05/27/25 09:00		NF IZ	OK
10	LB135817BLS	LB135817BLS	MB	05/27/25 09:17		NF IZ	OK
11	LB135817BSS	LB135817BSS	LCS	05/27/25 09:27		NF IZ	OK
12	Q2126-01	LOD-MDL-SOIL-03-Q	SAM	05/27/25 09:35		NF IZ	OK
13	Q2126-02	LOQ-SOIL-02-QT2-20	LOQ	05/27/25 09:43		NF IZ	OK
14	Q1872-07	HW0425-PT-NUT-SO	SAM	05/27/25 10:19		NF IZ	OK
15	CCV2	CCV2	CCV	05/27/25 10:33		NF IZ	OK
16	CCB2	CCB2	CCB	05/27/25 10:49		NF IZ	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135933

Review By	Iwona	Review On	5/29/2025 12:12:10 PM
Supervise By	Sohil	Supervise On	5/29/2025 12:15:21 PM
SubDirectory	LB135933	Test	Phosphorus, Total
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	WP113224,WP113223,WP113222,WP113221,WP113220,WP113219,WP113225,WP112831,WP113245,WP111415,V		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	05/28/25 15:30		Iwona	OK
2	CAL2	CAL2	CAL	05/28/25 15:30		Iwona	OK
3	CAL3	CAL3	CAL	05/28/25 15:31		Iwona	OK
4	CAL4	CAL4	CAL	05/28/25 15:31		Iwona	OK
5	CAL5	CAL5	CAL	05/28/25 15:32		Iwona	OK
6	CAL6	CAL6	CAL	05/28/25 15:32		Iwona	OK
7	ICV	ICV	ICV	05/28/25 15:33		Iwona	OK
8	ICB	ICB	ICB	05/28/25 15:33		Iwona	OK
9	CCV1	CCV1	CCV	05/28/25 15:34		Iwona	OK
10	CCB1	CCB1	CCB	05/28/25 15:34		Iwona	OK
11	RL Check	RL Check	SAM	05/28/25 15:35		Iwona	OK
12	PB168183BL	PB168183BL	MB	05/28/25 15:35		Iwona	OK
13	PB168183BS	PB168183BS	LCS	05/28/25 15:36		Iwona	OK
14	Q1872-07	HW0425-PT-NUT-SO	SAM	05/28/25 15:36		Iwona	OK
15	Q2085-01	SC-4-SED-051525	SAM	05/28/25 15:37		Iwona	OK
16	Q2085-01DUP	SC-4-SED-051525DU	DUP	05/28/25 15:37		Iwona	OK
17	Q2085-01MS	SC-4-SED-051525MS	MS	05/28/25 15:38		Iwona	OK
18	Q2085-01MSD	SC-4-SED-051525MS	MSD	05/28/25 15:38		Iwona	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135933

Review By	Iwona	Review On	5/29/2025 12:12:10 PM
Supervise By	Sohil	Supervise On	5/29/2025 12:15:21 PM
SubDirectory	LB135933	Test	Phosphorus, Total
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	WP113224,WP113223,WP113222,WP113221,WP113220,WP113219,WP113225,WP112831,WP113245,WP111415,V		

19	Q2085-02	SC-3-SED-051525	SAM	05/28/25 15:39		Iwona	OK
20	Q2085-03	SC-2-SED-051525	SAM	05/28/25 15:39		Iwona	OK
21	Q2085-07	SC-COMP-SED-0516	SAM	05/28/25 15:40		Iwona	OK
22	CCV2	CCV2	CCV	05/28/25 15:40		Iwona	OK
23	CCB2	CCB2	CCB	05/28/25 15:41		Iwona	OK
24	Q2085-08	DUPE-1-SC	SAM	05/28/25 15:41		Iwona	OK
25	Q2126-01	LOD-MDL-SOIL-03-Q	SAM	05/28/25 15:42		Iwona	OK
26	Q2126-02	LOQ-SOIL-02-QT2-20	SAM	05/28/25 15:42		Iwona	OK
27	Q1872-07DL	HW0425-PT-NUT-SO	SAM	05/28/25 15:43		Iwona	OK
28	Q2085-01MS	SC-4-SED-051525MS	MS	05/28/25 15:43		Iwona	OK
29	Q2085-01MSD	SC-4-SED-051525MS	MSD	05/28/25 15:44		Iwona	OK
30	CCV3	CCV3	CCV	05/28/25 15:44		Iwona	OK
31	CCB3	CCB3	CCB	05/28/25 15:45		Iwona	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135937

Review By	rubina	Review On	5/28/2025 4:19:04 PM
Supervise By	Iwona	Supervise On	5/28/2025 4:32:40 PM
SubDirectory	LB135937	Test	Hexavalent Chromium
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	WP113258,WP112831,WP112830,WP113256,WP113087,WP113257		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	05/28/25 12:40		rubina	OK
2	CAL2	CAL2	CAL	05/28/25 12:41		rubina	OK
3	CAL3	CAL3	CAL	05/28/25 12:42		rubina	OK
4	CAL4	CAL4	CAL	05/28/25 12:43		rubina	OK
5	CAL5	CAL5	CAL	05/28/25 12:44		rubina	OK
6	CAL6	CAL6	CAL	05/28/25 12:45		rubina	OK
7	CAL7	CAL7	CAL	05/28/25 12:46		rubina	OK
8	ICV	ICV	ICV	05/28/25 12:47		rubina	OK
9	ICB	ICB	ICB	05/28/25 12:48		rubina	OK
10	CCV1	CCV1	CCV	05/28/25 12:49		rubina	OK
11	CCB1	CCB1	CCB	05/28/25 12:50		rubina	OK
12	RL Check	RL Check	SAM	05/28/25 12:51		rubina	OK
13	PB167788BL	PB167788BL	MB	05/28/25 12:52		rubina	OK
14	PB167788BS	PB167788BS	LCS	05/28/25 12:53		rubina	OK
15	Q1872-06	HW0425-PT-CR6-SO	SAM	05/28/25 12:54		rubina	OK
16	Q2126-01	LOD-MDL-SOIL-03-Q	SAM	05/28/25 12:55		rubina	OK
17	Q2126-02	LOQ-SOIL-02-QT2-20	SAM	05/28/25 12:56		rubina	OK
18	Q2128-01	TP03-MHM	SAM	05/28/25 12:57		rubina	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135937

Review By	rubina	Review On	5/28/2025 4:19:04 PM
Supervise By	Iwona	Supervise On	5/28/2025 4:32:40 PM
SubDirectory	LB135937	Test	Hexavalent Chromium
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	WP113258,WP112831,WP112830,WP113256,WP113087,WP113257		

19	Q2130-01	TP-3	SAM	05/28/25 12:58		rubina	OK
20	Q2130-01DUP	TP-3DUP	DUP	05/28/25 12:59		rubina	OK
21	Q2130-01MSPre	TP-3MS	MS	05/28/25 13:00		rubina	OK
22	Q2130-01MS2Ins	TP-3MS	MS	05/28/25 13:01		rubina	OK
23	CCV2	CCV2	CCV	05/28/25 13:02		rubina	OK
24	CCB2	CCB2	CCB	05/28/25 13:03		rubina	OK
25	Q2130-01MS3Post	TP-3MS	MS	05/28/25 13:04		rubina	OK
26	Q2136-01	OR-646-COMP-52	SAM	05/28/25 13:05		rubina	OK
27	Q1872-06DL	HW0425-PT-CR6-SO	SAM	05/28/25 13:06		rubina	OK
28	CCV3	CCV3	CCV	05/28/25 13:07		rubina	OK
29	CCB3	CCB3	CCB	05/28/25 13:08		rubina	OK

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Test : Ammonia, Anions Group1, Anions Group2, Corrosivity, Cyanide, Flash Point, Hexavalent Chromium, Oil and Grease, Percent Solids, Phosphorus, Total, TKN, TOC, TS

Sequence ID/Qc Batch ID: LB135580,LB135612,LB135679,LB135693,LB135694,LB135698,LB135703,LB135760,LB135761,LB13

EP2611,WP111294,WP111295,WP111296,WP111315,WP111316,WP111317,WP111318,WP111319,WP111323,WP111325,WP111385,WP111415,WP111436,WP111437,WP111660,WP111745,WP112403,WP112404,WP112405,WP112406,WP112407,WP112408,WP112446,WP112611,WP112612,WP112613,WP112614,WP112615,WP112643,WP112785,WP112786,WP112787,WP112788,WP112789,WP112790,WP112791,WP112792,WP112793,WP112794,WP112796,WP112798,WP112800,WP112826,WP112827,WP112828,WP112830,WP112831,WP112892,WP112893,WP112894,WP112895,WP112896,WP112897,WP112900,WP112903,WP112913,WP112914,WP112976,WP112977,WP112978,WP112979,WP112980,WP112981,WP112982,WP112983,WP112985,WP113038,WP113039,WP113040,WP113041,WP113085,WP113087,WP113112,WP113113,WP113210,WP113211,WP113219,WP113220,WP113221,WP113222,WP113223,WP113224,WP113225,WP113226,WP113227,WP113228,WP113229,WP113230,WP113244,WP113245,WP113256,WP113257,WP113258.

AS PER

PB167946,E2865,E3551,E3917,E3937,M6041,M6151,M6158,W2202,W2306,W2647,W2650,W2651,W2652,W2664,W2666,W2668,W2697,W2700,W2784,W2788,W2817,W2858,W2860,W2871,W2979,W2983,W3009,W3012,W3019,W3035,W3071,W3072,W3074,W3082,W3093,W3112,W3113,W3132,W3138,W3139,W3140,W3152,W3154,W3161,W3163,W3168,W3169,W3174,W3178,W3180,W3191,W3193,W3195,W3196,W3197,W3198,W3203,W3204,W3205,W3206,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2611	05/09/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 05/09/2025
FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
11	Sodium hydroxide absorbing solution 0.25 N	WP111294	01/07/2025	07/07/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WC-SC-5)	None	Iwona Zarych 01/07/2025
FROM 21.00000L of W3112 + 210.00000gram of W3113 = Final Quantity: 21.000 L								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3850	Cyanide MS-MSD spiking solution, 5PPM	WP111295	01/07/2025	07/07/2025	Niha Farheen Shaik	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 01/07/2025
FROM 1.00000ml of W3154 + 199.00000ml of WP111294 = Final Quantity: 200.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3371	Cyanide LCS Spike Solution, 5PPM	WP111296	01/07/2025	07/07/2025	Niha Farheen Shaik	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 01/07/2025
FROM 1.00000ml of W3138 + 199.00000ml of WP111294 = Final Quantity: 200.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1993	HEXAVALENTCHROMIUM STOCK STD 1, 50PPM	WP111315	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych 01/09/2025
FROM 0.14140gram of W2651 + 1000.00000ml of W3112 = Final Quantity: 1000.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1994	HEXAVALENTCHROMIUM STOCK STD 2, 50PPM	WP111316	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych 01/09/2025
FROM 0.14140gram of W2652 + 1000.00000ml of W3112 = Final Quantity: 1000.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1796	NaOH, 0.1N	WP111317	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_SCALE_7 (WC SC-6)	None	Iwona Zarych 01/09/2025
FROM 4.00000gram of W3113 + 996.00000ml of W3112 = Final Quantity: 1000.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1471	NaOH Solution, 6N	WP111318	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_SCALE_7 (WC SC-6)	None	Iwona Zarych 01/09/2025
FROM 240.00000gram of W3113 + 760.00000ml of W3112 = Final Quantity: 1000.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
619	TKN digestion solution	WP111319	01/09/2025	04/23/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych
FROM 134.00000gram of W2983 + 134.00000ml of M6041 + 7.30000gram of W2697 + 725.00000ml of W3112 = Final Quantity: 1000.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1571	Sodium hydroxide, 1N	WP111323	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych
FROM 4.00000gram of W3113 + 96.00000ml of W3112 = Final Quantity: 100.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1494	BORATE BUFFER	WP111325	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-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								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
290	Phenol reagent for Ammonia	WP111385	01/13/2025	07/13/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-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								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1213	Phenolphthalein indicator	WP111415	01/15/2025	06/04/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych
FROM 0.10000gram of W2650 + 50.00000ml of W2788 + 50.00000ml of W3112 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2050	TOC STOCK STD, 4000PPM	WP111436	01/15/2025	07/15/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WC SC-5)	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych
FROM 5.00000ml of W2860 + 8.51200gram of W3169 + 990.00000ml of W3112 = Final Quantity: 1000.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2051	TOC STOCK STD-SS, 4000PPM	WP111437	01/15/2025	06/30/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WC SC-5)	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 01/16/2025
FROM 5.00000ml of W2860 + 8.51200gram of W2784 + 990.00000ml of W3112 = Final Quantity: 1000.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
635	EDTA BUFFER FOR AMMONIA	WP111660	01/28/2025	07/28/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-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								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
304	TOC CAL 0.00ppm	WP112403	03/14/2025	03/21/2025	Niha Farheen Shaik	None	None	Iwona Zarych
								03/20/2025

FROM 100.00000ml of W3112 = Final Quantity: 100.000 ml

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
712	TOC SOIL cal 250ppm	WP112404	03/14/2025	03/21/2025	Niha Farheen Shaik	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 03/20/2025
FROM 15.00000ml of W3112 + 1.00000ml of WP111436 = Final Quantity: 16.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
710	TOC SOIL cal 500ppm	WP112405	03/14/2025	03/21/2025	Niha Farheen Shaik	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 03/20/2025
FROM 14.00000ml of W3112 + 2.00000ml of WP111436 = Final Quantity: 16.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3544	TOC SOIL Cal- CCV 1000PPM	WP112406	03/14/2025	03/21/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 03/20/2025

FROM 15.00000ml of W3112 + 5.00000ml of WP111436 = Final Quantity: 20.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
713	TOC SOIL cal 2000ppm	WP112407	03/14/2025	03/21/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 03/20/2025

FROM 5.00000ml of W3112 + 5.00000ml of WP111436 = Final Quantity: 10.000 ml

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2819	TOC ICV-LCSS, 1000PPM	WP112408	03/14/2025	03/21/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 03/20/2025

FROM 15.00000ml of W3112 + 5.00000ml of WP111437 = Final Quantity: 20.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
613	Phosphoric acid reagent	WP112446	03/25/2025	09/25/2025	Niha Farheen Shaik	None	None	Iwona Zarych 03/26/2025

FROM 150.00000ml of W3112 + 50.00000ml of W2860 = Final Quantity: 200.000 ml

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
153	Ammonia Stock Std. (1000 ppm)	WP112611	04/07/2025	10/07/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych
FROM 3.81900gram of W3196 + 996.18100ml of W3112 = Final Quantity: 1000.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1895	Ammonia Stock Std, 1000PPM-SS	WP112612	04/07/2025	10/07/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych
FROM 3.81900gram of W3195 + 996.18100ml of W3112 = Final Quantity: 1000.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1322	Ammonia Intermediate Std, 50PPM	WP112613	04/07/2025	05/07/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 04/07/2025
FROM 95.00000ml of W3112 + 5.00000ml of WP112611 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1639	Ammonia Intermediate Std-Second source, 50PPM	WP112614	04/07/2025	05/07/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 04/07/2025
FROM 95.00000ml of W3112 + 5.00000ml of WP112612 = Final Quantity: 100.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1211	11 N sulfuric acid	WP112615	04/03/2025	10/07/2025	Niha Farheen Shaik	None	None	Iwona Zarych
								04/07/2025

FROM 306.00000ml of M6041 + 694.00000ml of W3112 = Final Quantity: 1000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
539	CN BUFFER	WP112643	04/09/2025	10/09/2025	Niha Farheen Shaik	WETCHEM_S CALE_5 (WC SC-5)	None	Iwona Zarych
								04/09/2025

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

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3931	Spiking std for 9071B	WP112785	04/22/2025	10/03/2025	Jignesh Parikh	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych
FROM 1.00000gram of W2817 + 1.00000gram of W2871 + 1000.00000ml of E3917 = Final Quantity: 1000.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3873	Spiking solution for 9071B - SS	WP112786	04/22/2025	10/03/2025	Jignesh Parikh	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych
FROM 1.00000gram of W3009 + 1.00000gram of W3082 + 1000.00000L of E3917 = Final Quantity: 1000.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2487	Anions 300/9056 calibration standard 1	WP112787	04/22/2025	04/23/2025	Iwona Zarych	None	None	Jignesh Parikh 04/22/2025

FROM 10.00000ml of W3112 = Final Quantity: 10.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
24	Anions 300/9056 calibration standard 2	WP112788	04/22/2025	04/23/2025	Iwona Zarych	None	WETCHEM_FIPETTE_3 (WC)	Jignesh Parikh 04/22/2025

FROM 0.20000ml of W3180 + 9.80000ml of W3112 = Final Quantity: 10.000 ml

Wet Chemistry STANDARD PREPARATION LOG

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25	Anions 300/9056 calibration standard 3	WP112789	04/22/2025	04/23/2025	Iwona Zarych	None	WETCHEM_FIPETTE_3 (WC)	Jignesh Parikh 04/22/2025
FROM 0.40000ml of W3180 + 9.60000ml of W3112 = Final Quantity: 10.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
26	Anions 300/9056 calibration standard 4	WP112790	04/22/2025	04/23/2025	Iwona Zarych	None	WETCHEM_FIPETTE_3 (WC)	Jignesh Parikh 04/22/2025
FROM 0.50000ml of W3180 + 9.50000ml of W3112 = Final Quantity: 10.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3680	Anions 300/9056 calibration standard 5-CCV	WP112791	04/22/2025	04/23/2025	Iwona Zarych	None	WETCHEM_FIPETTE_3 (WC)	Jignesh Parikh 04/22/2025
FROM 45.00000ml of W3112 + 5.00000ml of W3180 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3679	Anions 300/9056 calibration standard 6	WP112792	04/22/2025	04/23/2025	Iwona Zarych	None	WETCHEM_FIPETTE_3 (WC)	Jignesh Parikh 04/22/2025
FROM 2.00000ml of W3180 + 8.00000ml of W3112 = Final Quantity: 10.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3681	Anions 300/9056 calibration standard 7	WP112793	04/22/2025	04/23/2025	Iwona Zarych	None	WETCHEM_FIPETTE_3 (WC)	Jignesh Parikh 04/22/2025
FROM 2.50000ml of W3180 + 7.50000ml of W3112 = Final Quantity: 10.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
83	TCLP Fluid#1	WP112794	04/22/2025	10/22/2025	Jignesh Parikh	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 04/22/2025
FROM 114.00000ml of W3205 + 19834.56000ml of W3112 + 45.00000ml of W3112 + 5.00000ml of W3197 + 51.44000gram of W3113 = Final Quantity: 50.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3233	Anions 300/9056 ICV-LCS std	WP112794	04/22/2025	04/23/2025	Iwona Zarych	None	WETCHEM_FIPETTE_3 (WC)	Jignesh Parikh 04/22/2025
FROM 114.00000ml of W3205 + 19834.56000ml of W3112 + 45.00000ml of W3112 + 5.00000ml of W3197 + 51.44000gram of W3113 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
4035	IC ELUENT CONCENTRATE FOR IC-1	WP112796	04/22/2025	10/22/2025	Iwona Zarych	WETCHEM_SCALE_5 (WC SC-5)	None	Jignesh Parikh 04/22/2025
FROM 2.10000gram of W2647 + 84.75000gram of W3163 + 913.15000ml of W3112 = Final Quantity: 1000.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
4036	IC ELUENT FOR IC-1	WP112798	04/22/2025	05/22/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 04/22/2025

FROM 1980.00000ml of W3112 + 20.00000ml of WP112796 = Final Quantity: 2000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
4037	IC H2SO4 FOR IC-1	WP112800	04/22/2025	05/22/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 04/22/2025

FROM 5.60000ml of M6041 + 994.40000ml of W3112 = Final Quantity: 1000.000 ml

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3214	Magnesium Chloride For Cyanide 2.5M(51%W/V)	WP112827	04/25/2025	10/25/2025	Rubina Mughal	WETCHEM_S CALE_8 (WC SC-7)	None	Iwona Zarych
								04/25/2025

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

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1597	0.04 N H2SO4	WP112828	04/25/2025	10/25/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 04/25/2025
FROM 1.00000ml of M6041 + 999.00000ml of W3112 = Final Quantity: 1000.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1836	HNO3 Hex-Chrome, 5M	WP112830	04/25/2025	10/25/2025	Rubina Mughal	None	None	Iwona Zarych 04/25/2025
FROM 320.00000ml of M6158 + 680.00000ml of W3112 = Final Quantity: 1000.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
126	5N sulfuric acid	WP112831	04/25/2025	10/25/2025	Rubina Mughal	None	None	Iwona Zarych
								04/25/2025

FROM 140.00000ml of M6041 + 860.00000ml of W3112 = Final Quantity: 1.000 L

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3680	Anions 300/9056 calibration standard 5-CCV	WP112892	04/29/2025	04/30/2025	Iwona Zarych	None	WETCHEM_FIPETTE_3	Jignesh Parikh
							(WC)	05/06/2025

FROM 45.00000ml of W3112 + 5.00000ml of W3180 = Final Quantity: 50.000 ml

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3233	Anions 300/9056 ICV-LCS std	WP112893	04/29/2025	04/30/2025	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 05/06/2025
FROM 45.00000ml of W3112 + 5.00000ml of W3197 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
275	Ammonia Calibration Std. (2 ppm)	WP112894	04/30/2025	05/01/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 05/01/2025
FROM 48.00000ml of W3112 + 2.00000ml of WP112613 = Final Quantity: 50.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
285	Ammonia CCV Std. (1 ppm)	WP112895	04/30/2025	05/01/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 05/01/2025
FROM 49.00000ml of W3112 + 1.00000ml of WP112613 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
286	Ammonia ICV Std. (1 ppm)	WP112896	04/30/2025	05/01/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 05/01/2025
FROM 49.00000ml of W3112 + 1.00000ml of WP112614 = Final Quantity: 50.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
740	sodium nitroferricyanide for ammonia	WP112897	04/30/2025	05/30/2025	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych 05/01/2025
FROM 0.05000gram of W2666 + 99.95000ml of W3112 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
607	PYRIDINE-BARBITURIC ACID	WP112900	05/01/2025	08/18/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	Glass Pipette-A	Iwona Zarych 05/01/2025
FROM 145.00000ml of W3112 + 15.00000gram of W3203 + 15.00000ml of M6151 + 75.00000ml of W3019 = Final Quantity: 250.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
190	HEX CHROME PHOSPHATE BUFFER	WP112903	05/01/2025	11/01/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych
FROM 0.84500L of W3112 + 68.04000gram of W3206 + 87.09000gram of W3168 = Final Quantity: 1.000 L								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
115	Phosphate Stock Std. (50 ppm)	WP112913	05/01/2025	11/01/2025	Iwona Zarych	WETCHEM_SCALE_5 (WC SC-5)	None	Jignesh Parikh
FROM 0.11000gram of W3198 + 500.00000ml of W3112 = Final Quantity: 500.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2790	Phosphate Stock std, 50PPM-SS	WP112914	05/01/2025	11/01/2025	Iwona Zarych	WETCHEM_SCALE_5 (WC SC-5)	None	Jignesh Parikh 05/06/2025
FROM 0.11000gram of W3206 + 500.00000ml of W3112 = Final Quantity: 500.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3456	Cyanide Intermediate Working Std, 5PPM	WP112976	05/07/2025	05/08/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 05/07/2025
FROM 0.25000ml of W3154 + 49.75000ml of WP111294 = Final Quantity: 50.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
4	Calibration standard 500 ppb	WP112977	05/07/2025	05/08/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 05/07/2025
FROM 45.00000ml of WP111294 + 5.00000ml of WP112976 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3761	Calibration-CCV CN Standard 250 ppb	WP112978	05/07/2025	05/08/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 05/07/2025
FROM 2.50000ml of WP112976 + 47.50000ml of WP111294 = Final Quantity: 50.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
6	Calibration Standard 100 ppb	WP112979	05/07/2025	05/08/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 05/07/2025
FROM 1.00000ml of WP112976 + 49.00000ml of WP111294 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
7	Calibration Standard 50 ppb	WP112980	05/07/2025	05/08/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 05/07/2025
FROM 0.50000ml of WP112976 + 49.50000ml of WP111294 = Final Quantity: 50.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
8	Calibration Standard 10 ppb	WP112981	05/07/2025	05/08/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 05/07/2025
FROM 1.00000ml of WP112977 + 49.00000ml of WP111294 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
9	Calibration Standard 5 ppb	WP112982	05/07/2025	05/08/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 05/07/2025
FROM 0.50000ml of WP112977 + 49.50000ml of WP111294 = Final Quantity: 50.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
167	0 ppb CN calibration std	WP112983	05/07/2025	05/08/2025	Rubina Mughal	None	None	Iwona Zarych
05/07/2025								

FROM 50.00000ml of WP111294 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1582	Chloramine T solution, 0.014M	WP112985	05/07/2025	05/08/2025	Rubina Mughal	WETCHEM_S CALE_5 (WC SC-5)	Glass Pipette-A	Iwona Zarych
05/07/2025								

FROM 0.08000gram of W3139 + 20.00000ml of W3112 = Final Quantity: 20.000 ml

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
295	TKN Calibration Std (10 ppm)	WP113038	05/13/2025	05/20/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 05/14/2025
FROM 49.50000ml of W3112 + 0.50000ml of WP112611 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
297	TKN CCV STD 5 ppm	WP113039	05/13/2025	05/20/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 05/14/2025
FROM 49.75000ml of W3112 + 0.25000ml of WP112611 = Final Quantity: 50.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
296	TKN ICV STD 5 ppm	WP113040	05/13/2025	05/20/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 05/14/2025
FROM 49.75000ml of W3112 + 0.25000ml of WP112612 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
298	TKN LCS STD 5 ppm	WP113041	05/13/2025	05/20/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 05/14/2025
FROM 49.75000ml of W3112 + 0.25000ml of WP112612 = Final Quantity: 50.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
148	hexchrome digestion fluid	WP113085	05/15/2025	06/15/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych
FROM 120.00000gram of W3163 + 4.00000L of W3112 + 80.00000gram of W3113 = Final Quantity: 4000.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3354	Hexchrome Cleaning Solution	WP113087	05/15/2025	08/18/2025	Rubina Mughal	None	None	Iwona Zarych
FROM 182.00000ml of M6151 + 727.00000ml of W3112 + 91.00000ml of M6158 = Final Quantity: 1000.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
648	Ammonium molybdate solution	WP113112	05/16/2025	11/16/2025	Iwona Zarych	WETCHEM_SCALE_5 (WC SC-5)	None	Jignesh Parikh 05/16/2025
FROM 20.00000gram of W2664 + 480.00000ml of W3112 = Final Quantity: 500.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
588	Potassium Antimonyl Tartrate	WP113113	05/16/2025	11/16/2025	Iwona Zarych	WETCHEM_SCALE_5 (WC SC-5)	None	Jignesh Parikh 05/16/2025
FROM 1.37150gram of W2306 + 500.00000ml of W3112 = Final Quantity: 500.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3544	TOC SOIL Cal- CCV 1000PPM	WP113210	05/23/2025	05/30/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 05/28/2025

FROM 15.00000ml of W3112 + 5.00000ml of WP111436 = Final Quantity: 20.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2819	TOC ICV-LCSS, 1000PPM	WP113211	05/23/2025	05/30/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 05/28/2025

FROM 15.00000ml of W3112 + 5.00000ml of WP111437 = Final Quantity: 20.000 ml

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
122	calibration std. 0 ppm	WP113219	05/28/2025	05/29/2025	Rubina Mughal	None	None	Iwona Zarych
								05/28/2025

FROM 100.00000ml of W3112 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
121	calibration std. phosphate 0.05 ppm	WP113220	05/28/2025	05/29/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3	Iwona Zarych
							(WC)	05/28/2025

FROM 99.90000ml of W3112 + 0.10000ml of WP112913 = Final Quantity: 100.000 ml

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
120	calibration std. phosphate 0.1 ppm	WP113221	05/28/2025	05/29/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 05/28/2025
FROM 99.80000ml of W3112 + 0.20000ml of WP112913 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
119	calibration std. phosphate 0.3 ppm	WP113222	05/28/2025	05/29/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 05/28/2025
FROM 99.40000ml of W3112 + 0.60000ml of WP112913 = Final Quantity: 100.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
118	calibration std. phosphate 0.5 ppm	WP113223	05/28/2025	05/29/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 05/28/2025
FROM 99.00000ml of W3112 + 1.00000ml of WP112913 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
117	calibration std. phosphate 1 ppm	WP113224	05/28/2025	05/29/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 05/28/2025
FROM 98.00000ml of W3112 + 2.00000ml of WP112913 = Final Quantity: 100.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
124	phosphate CCV std.	WP113225	05/28/2025	05/29/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 05/28/2025
FROM 99.00000ml of W3112 + 1.00000ml of WP112913 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3805	Phosphate ICV-LCS Std	WP113226	05/28/2025	05/29/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 05/28/2025
FROM 99.00000ml of W3112 + 1.00000ml of WP112914 = Final Quantity: 100.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3907	Phosphate MDL-LOD-LOQ spike solution, 5ppm	WP113227	05/28/2025	05/29/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 05/28/2025
FROM 9.00000ml of W3112 + 1.00000ml of WP112913 = Final Quantity: 10.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3814	Phosphate LOD-MDL Std 0.025ppm	WP113228	05/28/2025	05/29/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 05/28/2025
FROM 99.50000ml of W3112 + 0.50000ml of WP113227 = Final Quantity: 100.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3730	Phosphatase LOQ std, 0.05PPM	WP113229	05/28/2025	05/29/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 05/28/2025
FROM 99.00000ml of W3112 + 1.00000ml of WP113227 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1103	HEX CHROME INTERMEDIATE STD SOURCE 1 (5PPM)	WP113230	05/28/2025	05/29/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 05/28/2025
FROM 9.00000ml of W3112 + 1.00000ml of WP11315 = Final Quantity: 10.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
590	Ascorbic Acid	WP113244	05/28/2025	05/29/2025	Iwona Zarych	WETCHEM_SCALE_5 (WC SC-5)	None	Jignesh Parikh 05/28/2025
FROM 0.52800gram of W3074 + 30.00000ml of W3112 = Final Quantity: 30.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
658	Combined reagent	WP113245	05/28/2025	05/29/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 05/28/2025
FROM 15.00000ml of WP113112 + 30.00000ml of WP113244 + 5.00000ml of WP113113 + 50.00000ml of WP112831 = Final Quantity: 100.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1986	HEX LOD STD, 0.005PPM	WP113256	05/28/2025	05/29/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Jignesh Parikh 05/28/2025
FROM 99.90000ml of W3112 + 0.10000ml of WP113230 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3731	Hex LOQ Std, 0.01PPM	WP113257	05/28/2025	05/29/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Jignesh Parikh 05/28/2025
FROM 99.80000ml of W3112 + 0.20000ml of WP113230 = Final Quantity: 100.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
114	hexavalent chromium color reagent	WP113258	05/28/2025	06/04/2025	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	None	Jignesh Parikh 05/28/2025
FROM 0.25000gram of W2979 + 50.00000ml of E3937 = Final Quantity: 50.000 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	0000243821	06/30/2025	04/30/2020 / RAJESH	04/28/2020 / RAJESH	E2865

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	10/03/2025	04/03/2025 / Rajesh	03/31/2025 / Rajesh	E3917

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	11/22/2025	05/22/2025 / RUPESH	05/14/2025 / RUPESH	E3937

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	03/25/2029	03/10/2025 / Eman	02/02/2025 / Sagar	M6158

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AA14125-36 / LEAD (II) CHROMATE, ACS, 500G	U19B018	01/23/2027	01/23/2017 / apatel	01/23/2017 / apatel	W2202

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	A1561-500GM / POTASSIUM ANTIMONY TARTRATE TRIHYDRATE, 500G	2GH0057	12/11/2027	12/11/2017 / apatel	12/11/2017 / apatel	W2306

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3506-5 / SODIUM BICARBONATE, PWD, ACS, 2.5KG	0000240594	06/03/2026	02/24/2020 / AMANDEEP	01/20/2020 / apatel	W2647

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J2870-1 / PHENOLPHTHALEIN, INDICATOR F/TITRATION, 500G	0000235350	06/04/2025	01/31/2020 / AMANDEEP	01/20/2020 / apatel	W2650

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AA13450-36 / Potassium Dichromate, 500g(NEW)	T15F019	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2651

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P188-500 / Potassium Dichromate, 500g(new-2nd lot)	194664	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2652

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J07716-1 / Ammonium Molybdate 500G	0000234410	02/11/2026	02/10/2020 / AMANDEEP	01/31/2020 / apatel	W2664

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	87683 / Sodium Nitroferrocyanide 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.	J3818-5 / SODIUM PHOSPHATE, MONOBAS/HYD, CRYST, ACS, 2.5 KG	0000225799	12/03/2025	04/05/2021 / Alexander	02/10/2020 / apatel	W2668

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	0330-500G / Cupric Sulfate Pentahydrate	CPECG2635	04/23/2025	04/23/2020 / apatel	04/23/2020 / apatel	W2697

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P243-500 / Potassium Hydrogen Phthalate, 500 gms	201089	06/30/2025	12/23/2020 / apatel	12/16/2020 / apatel	W2784

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC16721-3 / Isopropanol, 99%	C20F23007	06/23/2025	12/30/2020 / apatel	12/30/2020 / apatel	W2788

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	A12244 / Stearic acid, 98%, 100 g	U20E006	04/02/2026	04/02/2021 / apatel	04/02/2021 / apatel	W2817

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 #
PCI Scientific Supply, Inc.	J0260-3 / Phosphoric Acid, 2.5 L	0000278313	01/31/2026	07/12/2021 / apatel	07/12/2021 / apatel	W2860

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	H223-57 / Hexadecane, 99.0%	0000266903	05/04/2027	09/07/2021 / apatel	08/26/2021 / apatel	W2871

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	31390 / 1,5-Diphenylcarbazine	MKCR6636	12/09/2027	12/09/2022 / lwona	12/09/2022 / lwona	W2979

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3278-5 / Potassium Sulfate, 2.5 Kgs	SLCM9788	11/21/2027	11/21/2022 / lwona	11/21/2022 / lwona	W2983

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	H223-57 / Hexadecane, 99.0%	SHBP8192	02/27/2028	02/27/2023 / lwona	02/27/2023 / lwona	W3009

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 / lwona	02/20/2020 / lwona	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 / lwona	04/03/2023 / lwona	W3019

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	BDH0214-500G / Ammonium Persulfate Crystal, 500g	MKCR9319	06/30/2028	03/05/2024 / lwona	06/06/2023 / lwona	W3035

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14455-3 / buffer solution pH 7 yellow	4308H30	07/31/2025	01/02/2024 / JIGNESH	12/06/2023 / lwona	W3071

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14940-1 / Buffer Solution, PH12 (500ml)	2310P21	04/30/2025	01/02/2024 / JIGNESH	12/07/2023 / lwona	W3072

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J0938-7 / Ascorbic Acid, 500 gms	MKCS4627	09/30/2025	01/16/2024 / lwona	01/16/2024 / lwona	W3074

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	A12244 / Stearic acid, 98%, 100 g	U23E020	02/26/2029	02/26/2024 / lwona	02/26/2024 / lwona	W3082

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	566002 / BUFFER PH 7.00 GREEN 1PINT PK6	44001f99	12/31/2025	04/03/2024 / jignesh	04/02/2024 / jignesh	W3093

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

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 / lwona	07/08/2024 / lwona	W3113

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

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	44080060	01/30/2025	09/06/2024 / lwona	08/28/2024 / lwona	W3138

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	140444 / TEST PAPERS,PH 0-14,.5 SENSI,100PK	10D0142	09/17/2029	09/17/2024 / lwona	09/17/2024 / lwona	W3140

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

CHEMICAL RECEIPT LOG BOOK

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	1411J58	05/31/2025	12/02/2024 / lwona	12/02/2024 / lwona	W3154

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL13850-1 / Buffer Solution, PH2 (500ml)	2411E26	10/31/2026	12/09/2024 / lwona	12/09/2024 / lwona	W3161

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	EM-SX0395-3 / SODIUM CARBONATE ANHYDR 2.5KG	24E3156178	09/30/2027	12/10/2024 / lwona	12/10/2024 / lwona	W3163

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3252-1 / POTAS PHOSPHATE, DIBASIC PWD, ACS, 500G	24H0856239	04/19/2028	01/03/2025 / lwona	01/03/2025 / lwona	W3168

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P243-500 / Potassium Hydrogen Phthalate, 500 gms	24H0956262	04/28/2026	01/03/2025 / lwona	01/03/2025 / lwona	W3169

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 / lwona	01/24/2025 / lwona	W3174

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14055-3 / PH 4 BUFFER SOLUTION	2411A93	10/30/2026	04/01/2025 / JIGNESH	01/27/2025 / jignesh	W3178

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	300-CAL-A-500ML / 300.0 Calibration Standard, 500 ml	V2-MEB742616	02/19/2026	02/19/2025 / lwona	01/27/2025 / lwona	W3180

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	TCX0014-500ML / p-xylene	C6PEN	03/19/2029	03/21/2025 / rubina	03/19/2025 / lwona	W3193

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 / lwona	03/19/2025 / lwona	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 / lwona	03/19/2025 / lwona	W3196

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	300-CAL-A-500ML / 300.0 Calibration Standard, 500 ml	040525	04/05/2027	04/08/2025 / lwona	04/08/2025 / lwona	W3197

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3246-1 / POTAS PHOSPHATE, MONO, CRY, ACS, 500G	MKCW6723	10/31/2028	04/11/2025 / lwona	04/11/2025 / lwona	W3198

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 / lwona	04/21/2025 / lwona	W3203

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25c0362005	04/30/2026	04/22/2025 / jignesh	04/18/2025 / jignesh	W3204

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC01050-3 / ACETIC ACID, GLACIAL, ACS, 2.5L	540404	04/30/2026	04/22/2025 / jignesh	04/17/2025 / jignesh	W3205

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3246-1 / POTAS PHOSPHATE, MONO, CRY, ACS, 500G	MKCX1379	01/31/2029	04/29/2025 / lwona	04/29/2025 / lwona	W3206

Certificate of analysis

Product No. 14125
Product: Lead(II) chromate, ACS, 98%
Lot No.: U19B018

Test	Limits	Results
Assay	98.0 % min	99.3 %
Soluble matter	0.15 % max	< 0.02 %
Carbon compounds	0.01 % max	< 0.01 %

Traceable to NIST? Yes

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CERTIFICATE OF ANALYSIS

Printed: 12/8/2017

Page 1 of 1

Customer No : 30017
Order Number : 3008126
Catalog : A1561

Customer : PCI SCIENTIFIC
Delivery # : 58495347
Potassium Antimony Tartrate Trihydrate,
Reagent, ACS

Customer PO : 6035343

Lot : 2GH0057

Chemical Formula : $C_8H_4K_2O_{12}Sb_2 \cdot 3H_2O$
CAS# : 28300-74-5

Formula Weight : 667.87

W2306
received
12/11/12
AB

Test

Limit
Min. Max.

Results

ASSAY ($C_8H_4K_2O_{12}Sb_2 \cdot 3HO$)	99.0 - 103.0 %	101.0 %
TITRATABLE ACID OR BASE	-- 0.020 meq/g	<0.020 meq/g
LOSS ON DRYING	-- 2.7 %	<2.7 %
ARSENIC (As)	-- 0.015 %	<0.015 %
APPEARANCE		WHITE POWDER
DATE OF MANUFACTURE		29-DEC-2015

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

Read and understand label and MSDS/SDS before handling any chemical. All Spectrum's chemicals are for manufacturing, processing, repacking or research purposes by experienced personnel only. The customer must ensure to provide its users adequate hazardous material training and appropriate protective gears before handling our chemicals.

Certificate of Analysis Results Certified By:

Product No.: 13450
Product: Potassium dichromate, ACS, 99.0% min
Lot No.: T15F019

Test	Limits	Results
Appearance	Orange-red crystals	Orange-red crystals
Identification	To Pass	Passes
Purity	99.0 % min	99.67 %
Insoluble matter	0.005 % max	0.004 %
Loss on drying	0.05 % max	0.03 %
Chloride	0.001 % max	< 0.001 %
Sulfate	0.005 % max	< 0.005 %
Iron	0.001 % max	< 0.001 %
Calcium	0.003 % max	0.0012 %
Sodium	0.02 % max	0.0047 %

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Ammonium Molybdate, 4-Hydrate, Crystal
BAKER ANALYZED® A.C.S. Reagent

(ammonium heptamolybdate, tetrahydrate)



Material No.: 0716-01
Batch No.: 0000234410
Manufactured Date: 2019/02/13
Retest Date: 2026/02/11
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (as MoO ₃)	81.0 – 83.0 %	81.4
ACS – Insoluble Matter	<= 0.005 %	< 0.001
Chloride (Cl)	<= 0.002 %	< 0.002
Nitrate (NO ₃)	Passes Test	PT
Arsenate, Phosphate and Silicate (as SiO ₂)	<= 0.001 %	< 0.001
ACS – Phosphate (PO ₄)	<= 5 ppm	< 5
Sulfate (SO ₄)	<= 0.02 %	< 0.02
Heavy Metals (as Pb)	<= 0.001 %	< 0.001
Magnesium (Mg)	<= 0.005 %	< 0.001
Potassium (K)	<= 0.01 %	< 0.01
Sodium (Na)	<= 0.01 %	<0.001

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

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

James Ethier
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

Phenolphthalein, Powder
BAKER ANALYZED® A.C.S. Reagent



Material No.: 2870-01
Batch No.: 0000235350
Manufactured Date: 2018/06/06
Retest Date: 2025/06/04
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
ACS – Clarity of Solution	Passes Test	PT
Visual Transition Interval – pH...8.0 (Colorless)	Passes Test	PT
Visual Transition Interval – pH...10.0 (Red)	Passes Test	PT

For Laboratory, Research or Manufacturing Use

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


Jamie Ethier
Vice President Global Quality

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Avantor Performance Materials, LLC
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Sodium Bicarbonate, Powder
BAKER ANALYZED® A.C.S. Reagent

(sodium hydrogen carbonate)



Material No.: 3506-05
Batch No.: 0000240594
Manufactured Date: 2019/06/05
Retest Date: 2026/06/03
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (NaHCO ₃) (dried basis)	99.7 – 100.3 %	100.1
Insoluble Matter	<= 0.015 %	< 0.002
Chloride (Cl)	<= 0.003 %	0.003
Phosphate (PO ₄)	<= 0.001 %	0.001
Sulfur Compounds (as SO ₄)	<= 0.003 %	0.003
Calcium (Ca)	<= 0.02 %	0.02
Trace Impurities – Iron (Fe)	<= 0.001 %	0.001
Magnesium (Mg)	<= 0.005 %	0.005
Potassium (K)	<= 0.005 %	0.005
Ammonium (NH ₄)	<= 5 ppm	5
Trace Impurities – ACS – Heavy Metals (as Pb)	<= 5 ppm	5

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

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


Jamie Ethier
Vice President Global Quality

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Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Hexadecane, 99.0%



Material No.: H223-57
Batch No.: 0000266903
Manufactured Date: 2020/05/05
Retest Date: 2027/05/04
Revision No: 1

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ (CH ₂) ₁₄ CH ₃) (by GC)	>= 99.0 %	99.3
Infrared Spectrum	Passes Test	PT

For Laboratory, Research or Manufacturing Use

Country of Origin: US
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

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	40.5°C min	40.5 °C
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

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Phosphoric Acid
BAKER ANALYZED® A.C.S. Reagent

(orthophosphoric acid)



Material No.: 0260-03
Batch No.: 0000278313
Manufactured Date: 2021/02/01
Retest Date: 2026/01/31
Revision No: 2

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (H_3PO_4) (by acidimetry)	85.0 – 87.0 %	85.8
Calcium (Ca)	≤ 0.002 %	< 0.001
Color (APHA)	≤ 10	5
Insoluble Matter	≤ 0.001 %	< 0.001
ACS – Magnesium (Mg)	≤ 0.002 %	< 0.002
Sulfate (SO_4)	≤ 12 ppm	< 4
Volatile Acids (as CH_3COOH)	≤ 0.001 %	0.001
Reducing Substances	Passes Test	PT
Chloride (Cl)	≤ 3 ppm	< 1
Nitrate (NO_3)	≤ 5 ppm	< 2
Trace Impurities – Antimony (Sb)	≤ 20.000 ppm	0.007
Trace Impurities – Arsenic (As)	≤ 0.500 ppm	< 0.001
Trace Impurities – Iron (Fe)	≤ 10.000 ppm	< 1.000
Heavy Metals (as Pb)	≤ 8 ppm	< 3
Trace Impurities – Manganese (Mn)	≤ 0.500 ppm	0.005
Trace Impurities – Potassium (K)	≤ 40.000 ppm	< 0.001
Trace Impurities – Sodium (Na)	≤ 200.000 ppm	0.082

For Laboratory, Research or Manufacturing Use

Exceeds A.C.S. Specifications

Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US

Packaging Site: Phillipsburg 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
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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

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W2817
REC. 04/02/2021

Product Name: Stearic acid, 98%, Thermo Scientific Chemicals
Catalog Number: A12244.14

CAS Number: 57-11-4
Molecular Formula: C₁₈H₃₆O₂
Molecular Weight: 284.48
InChI Key: QIQXTHQIDYTRH-UHFFFAOYSA-N
SMILES: CCCCCCCCCCCCCCCC(O)=O
Synonym: stearic acid acide stearique hydrofol acid 1855 hydrofol acid 1655 industrene 5016
stearic acid, ion(1-) (8Cl) glycon TP glycon DP acidum stearinicum hydrofol acid 150

Product Specification

Appearance (Color): White
Form: Crystals or powder or crystalline powder or flakes or waxy solid
Assay (Silylated GC): ≥97.5%
Melting Point (clear melt): 67.0-74.0°C

Date Of Print: 11/30/2023

Product Specifications are subject to amendment and may change over time. Data contained is accurate as of the date printed.



CERTIFICATE OF ANALYSIS

Product Name ISOPROPYL ALCOHOL, 99%
Grade Meets ACS/USP/NF Monographs
Catalog # 231000099, zp231000099
Lot # C20F23007
Date of Manufacture: 06/23/20 **W2788 Received on 12/30/2020 by AP**
Recommended Retest Date: Five Years from Date of Manufacture

TEST	MONO GRAPH	SPECIFICATION	RESULT
Assay (corrected for water)	USP	99.0% min	99.92%
Assay (corrected for water)	ACS	99.5% min	
Solubility in water	ACS ⁺	To Pass Test	Pass
Appearance	ACS ⁺	Clear, colorless liquid	Pass
Color, APHA	ACS	10 max	1
Limit of Nonvolatile Residue	USP ⁺	NMT 2.5 mg (0.005%)	0.1 mg
Residue after Evaporation	ACS ⁺	0.001% max	< 0.001%
Specific Gravity	USP	0.783 - 0.787 @25°C	0.783
Identification A - Infrared Absorption	USP	To Pass Test	Pass
Identification B	USP	To Pass Test	Pass
Refractive Index @ 20°C	USP	1.376-1.378	1.377
Acidity	USP ⁺	NMT 0.70 ml of 0.020N NaOH is required	0.30 mL
Titration Acid or Base	ACS ⁺	0.0001 meq/g max	0.0001 meq/g
Carbonyl Compounds	ACS	Propionaldehyde 0.002% max	< 0.002%
		Acetone 0.002% max	None Detected
Limit of Volatile Impurities	USP	Diethyl Ether NMT 0.1%	< 0.1%
		Acetone NMT 0.1%	None Detected
		Diisopropyl Ether NMT 0.1%	< 0.1%
		n-Propyl Alcohol NMT 0.1%	< 0.1%
		2-Butanol NMT 0.1%	< 0.1%
		Total NMT 1.0%	< 0.1%
Water, wt%	ACS	NMT 0.2%	0.05%
Water Determination	USP	NMT 0.5%	

⁺This test is performed quarterly

Certification and Compliance Statements

This lot of Isopropyl Alcohol complies with all of the current requirements listed in the United States Pharmacopeia, American Chemical Society monographs and the National Formulary.

No chemicals whatsoever are used as solvents at any point in the manufacture, processing or packaging of Isopropyl Alcohol. Only Class 2 and Class 3 residual solvents may appear as impurities / related substances / low level contaminants in IPA. Concentration of Class 2 Option 1 and Class 3 residual solvents is below limits in the current USP/NF General Chapter <467>.

This product is not derived, nor does it come in contact with, any materials derived from bovine or other animal sources.

This product is for further commercial manufacturing, laboratory or research use, and may be used as an excipient or a process solvent for pharmaceutical purposes. It is not intended for use as an active ingredient in drug manufacturing nor as a medical device or disinfectant. Appropriate/legal use of this product is the responsibility of the user.

Approved by: D. Simoncelli, Quality Control Chemist

Date of Approval: 06/23/2020



W3071
Rec 12/6/23

Certificate of Analysis 12

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

Lot Number: 4308H30

Product Number: 1551

Manufacture Date: AUG 09, 2023

Expiration Date: JUL 2025

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

The NIST traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

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

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

Test	Specification	Result
Appearance	Yellow liquid	Passed

*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	7.002	0.02	186-I-g, 186-II-g, 191d

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

pH measurements were performed in our Batesville, IN laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.02) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1551-2.5	10 L Cubitainer®	24 months
1551-5	20 L Cubitainer®	24 months

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



Paul Brandon (08/09/2023)

Production Manager

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Contents of Certificates and Labels."

This product was tested in an ISO 17025 Accredited Laboratory

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~~112778~~ W2983
Rec. 11/21/22 12

Product Name:

Certificate of Analysis

Potassium sulfate - ReagentPlus®, ≥99.0%

Product Number:

P0772

Batch Number:

SLCM9788

Brand:

SIGALD

CAS Number:

7778-80-5

MDL Number:

MFCD00011388

Formula:

K₂O₄S

Formula Weight:

174.26 g/mol

Quality Release Date:

03 MAR 2022



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder	Powder
Solubility (Color)	Colorless	Colorless
Solubility (Turbidity)	Clear	Clear
10 g plus 150 mL, H ₂ O		
Titration with NaOH	≥ 99.0 %	99.2 %



Brian Dulle, Supervisor

Quality Assurance

St. Louis, Missouri US

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W3009
rec. 2/27/2023 12

Product Name:

Hexadecane - ReagentPlus®, 99%

Certificate of Analysis

Product Number:

H6703

Batch Number:

SHBP8192

 $\text{CH}_3(\text{CH}_2)_{14}\text{CH}_3$

Brand:

SIAL

CAS Number:

544-76-3

MDL Number:

MFCD00008998

Formula:

C16H34

Formula Weight:

226.44 g/mol

Quality Release Date:

04 AUG 2022

Test	Specification	Result
Appearance (Color)	Colorless or White	Colorless
Appearance (Form)	Liquid or Solid	Liquid
Infrared Spectrum	Conforms to Structure	Conforms
Refractive index at 20 ° C	1.432 - 1.436	1.435
Purity (GC)	≥ 98.5 %	99.3 %
Color Test	≤ 20 APHA	< 5 APHA


Larry Coers, Director
Quality Control
Sheboygan Falls, WI US

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W3019
rec 4/3/23

3050 Spruce Street, Saint Louis, MO 63103, USA

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

Certificate of Analysis

Product Name:

Pyridine - anhydrous, 99.8%

Product Number:

270970

Batch Number:

SHBQ2113

Brand:

SIAL

CAS Number:

110-86-1

MDL Number:

MFCD00011732

Formula:

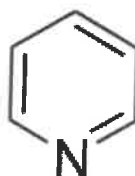
C₅H₅N

Formula Weight:

79.10 g/mol

Quality Release Date:

15 DEC 2022



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


Larry Coers, Director
Quality Control
Sheboygan Falls, WI US

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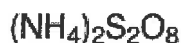
W 3035
rec. 6/6/23 12

Product Name:

Certificate of Analysis

Ammonium persulfate - ACS reagent, $\geq 98.0\%$

Product Number: 248614
Batch Number: MKCR9319
Brand: SIGALD
CAS Number: 7727-54-0
MDL Number: MFCD00003390
Formula Weight: 228.20 g/mol
Quality Release Date: 13 OCT 2022



Test	Specification	Result
Appearance (Color)	White to Off White	White
Appearance (Form)	Powder or Crystals or Granules or Chunks	Crystals
ICP Major Analysis	Confirmed	Confirmed
Confirms Sulfur Component		
Titration by KMNO ₄	$\geq 98.0 \%$	100.0 %
Residue on ignition (Ash)	$\leq 0.05 \%$	< 0.05 %
Insoluble Matter	$\leq 0.005 \%$	0.002 %
c = 10 %; In Water		
Chloride and Chlorate (as Cl)	$\leq 0.001 \%$	< 0.001 %
Iron (Fe)	$\leq 0.001 \%$	< 0.001 %
Heavy Metal	$\leq 0.005 \%$	< 0.001 %
as Lead		
Manganese (Mn)	$\leq 0.5 \text{ ppm}$	< 0.1 ppm
Titrateable Acid (meq/g)	≤ 0.04	< 0.04
Meets ACS Requirements	Current ACS Specification	Conforms


Larry Coers, Director
Quality Control
Milwaukee, WI US

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customerservice@riccachemical.com

W 3072
REC. 12/01/23
12

Certificate of Analysis

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

Lot Number: 2310P21

Product Number: 1615

Manufacture Date: OCT 24, 2023

Expiration Date: APR 2025

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

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

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

Test	Specification	Result
Appearance	Colorless liquid	Passed

*Not a certified value.

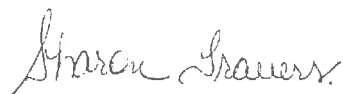
Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	12.005	0.02	186-I-g, 186-II-g, 191d

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1615-1	4 L natural poly	18 months
1615-16	500 mL clear PET-G	18 months
1615-32	1 L natural poly	18 months
1615-5	20 L Cubitainer®	18 months

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

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Sharon Travers (10/24/2023)

Operations Manager

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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 (Na ₂ B ₄ O ₇ • 10H ₂ O)	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 (PO ₄)	0.001% max.	<0.001%
Sulfate (SO ₄)	0.005% max.	<0.005%

Joe Schoellkopf

Quality Control Manager

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EMD Millipore Corporation

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Burlington, MA 01803
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Certificate of Analysis

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Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

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Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

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Catalog Number	P188	Quality Test / Release Date	08/12/2019
Lot Number	194664		
Description	POTASSIUM DICHROMATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Aug/2024
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		
Chemical Comment			

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Fine, orange-red crystals
ASSAY	%	>= 99	99.2
CALCIUM	%	<= 0.003	<0.003
CHLORIDE	%	<= 0.001	<0.001
LOSS ON DRYING @ 105 C	%	<= 0.05	<0.05
SULFATE (SO4)	%	<= 0.005	<0.005
INSOLUBLE MATTER	%	<= 0.005	0.003
IRON (Fe)	%	<= 0.001	<0.001
SODIUM (Na)	%	<= 0.02	<0.02
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST

Jerusa Bailey-Wyche

Quality Assurance Specialist - Certificate of Analysis Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.

*Based on suggested storage condition.

Certificate of Analysis

ThermoFisher
SCIENTIFIC

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 faxThermo Fisher Scientific's Quality System has been found to conform to Quality Management System
Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	P243	Quality Test / Release Date	06/19/2020
Lot Number	201089		
Description	POTASSIUM HYDROGEN PHTHALATE, ACIDIMETRIC STANDARD, A.C.S.		
Country of Origin	Spain	Suggested Retest Date	Jun/2025
Chemical Origin	Organic - non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	WHITE CRYSTALS
ASSAY POTASSIUM HYDROGEN PHTHALATE	%	Inclusive Between 99.95 - 100.05	100.03
CHLORINE COMPOUNDS	%	<= 0.003	<0.003
HEAVY METALS (as Pb)	ppm	<= 5	<5
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
INSOLUBLE MATTER	%	<= 0.005	<0.005
IRON (Fe)	ppm	<= 5	<5
PH OF 0.05M SOLUTION		Inclusive Between 4.00 - 4.02	4.00
SODIUM (Na)	%	<= 0.005	<0.005
SULFUR COMPOUNDS	%	<= 0.002	<0.002%
TRACEABLE TO NIST	SOD CARBONATE	= LOT 351a	351a
TRACEABLE TO NIST KHP STD	POT. ACID PHTHALATE	= LOT 84L	84L



Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.

*Based on suggested storage condition.

Allan Chemical Corporation

235 Margaret King Avenue
Ringwood NJ 07456

Telephone: 973-962-4014
Fax: 973-962-6820
E-Mail: allanchem@allanchem.com

ATTN: ALLAN CHEMICAL - QC DEPT.
DATE: September 20, 2021
P.O. #: 14410
PART #: N/A
LOT #: CPECG2635

W2697

CERTIFICATE OF ANALYSIS CUPRIC SULFATE CRYSTAL – ACS GRADE

<u>ASSAY:</u>	102.0 %
<u>LEAD:</u>	< 0.0001 %
<u>NITROGEN COMPOUNDS:</u>	< 0.001 %
<u>ZINC:</u>	< 0.0001 %
<u>INSOLUBLE MATTER:</u>	< 0.001 %
<u>CHLORIDE:</u>	< 0.001 %
<u>CHROMIUM:</u>	< 0.00002 %
<u>IRON:</u>	0.0003 %
<u>NICKEL:</u>	< 0.0001 %
<u>CADMIUM:</u>	< 0.0001 %
<u>MANGANESE:</u>	< 0.0001 %
<u>CALCIUM:</u>	< 0.005 %
<u>POTASSIUM:</u>	< 0.001 %
<u>SODIUM:</u>	< 0.001 %

Sand
Purified
Washed and Ignited



Material No.: 3382-05
Batch No.: 0000243821
Manufactured Date: 2018/04/09
Retest Date: 2025/04/07
Revision No: 1

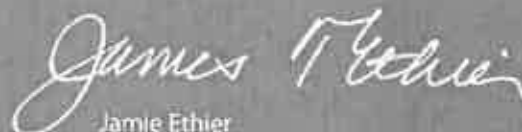
Certificate of Analysis

Test	Specification	Result
Substances Soluble in HCl	$\leq 0.16\%$	0.01

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

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

E 2865


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



**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3

Acetone

BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

Avantor™



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (μeq/g)	<= 0.3	0.2
Titration Base (μeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 03/31/25

E3917

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Acetone

BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (μeq/g)	<= 0.3	0.2
Titration Base (μeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3937

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC



R: 02/20/20
53

Instructions for QATS Reference Material: *Inorganic ICV Solutions*

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.

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 ($\mu\text{g/L}$) (after 10-fold dilution)	Concentration ($\mu\text{g/L}$) (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 ($\mu\text{g/L}$) (after 100-fold dilution)	Analyte	Concentration ($\mu\text{g/L}$) (after 100-fold dilution)
Hg	4.0	CN ⁻	99

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

avantor™



M 6041-4b
MS

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 ₂ SO 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 SO ₂)	≤ 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™**

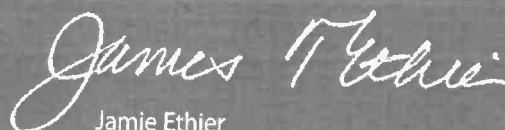


Material No.: 9673-33
Batch No.: 23D2462010

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



Jamie Ethier
Vice President Global Quality

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

avantor™



M6151

R → 11/15/25

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

Certificate of Analysis

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

>>> Continued on page 2 >>>

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

avantor™



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

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

>>> Continued on page 3 >>>

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

 **avantor**™

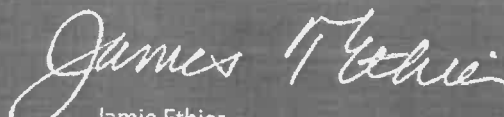


Material No.: 9530-33
Batch No.: 22G2862015

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

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


Jamie Ethier
Vice President Global Quality

Nitric Acid 69%
CMOS



R- 0210212025

m - 6158

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO ₃)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO ₄)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantorsTM



Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 50 ppb	16 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 µm and greater	≤ 60 par/ml	10 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

 **avantorsTM**



Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
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For Microelectronic Use

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



Jamie Croak
Director Quality Operations, Bioscience Division

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

(sodium dihydrogen phosphate, monohydrate)



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

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

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

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

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


Jamie Ethier
Vice President Global Quality

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

W 2979

Rec: 12/09/22

exp. 12/09/27

Product Name:

1,5-Diphenylcarbazine - ACS reagent

Product Number:

259225

Batch Number:

MKCR6636

Brand:

SIAL

CAS Number:

140-22-7

MDL Number:

MFCD00003013

Formula:

C₁₃H₁₄N₄O

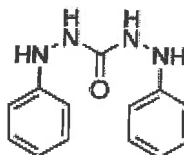
Formula Weight:

242.28 g/mol

Quality Release Date:

02 JUN 2022

Certificate of Analysis



Test	Specification	Result
Appearance (Color)	Conforms to Requirements	Pink
Off-White to Pink, Light Purple or Tan		
Appearance (Form)	Powder or Chunks	Powder
Melting Point	173.0 - 176.0 °C	173.0 °C
Infrared Spectrum	Conforms to Structure	Conforms
Residue on ignition (Ash)	≤ 0.05 %	0.01 %
15 minutes, 800 Degrees Celsius		
Solubility	Pass	Pass
Sensitivity Test	Pass	Pass
Meets ACS Requirements	Current ACS Specification	Conforms



Larry Coers, Director
Quality Control
Milwaukee, WI US

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



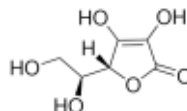
W3074 Rec. on 01/16/24 by IZ

Certificate of Analysis

Product Name:

L-Ascorbic acid - ACS reagent, ≥99%

Product Number: 255564
Batch Number: MKCS4627
Brand: SIAL
CAS Number: 50-81-7
MDL Number: MFCD00064328
Formula: C₆H₈O₆
Formula Weight: 176.12 g/mol
Quality Release Date: 21 NOV 2022
Recommended Retest Date: SEP 2025



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Conforms to Requirements	Powder
Powder, Crystals, Crystalline Powder, Granules and/or Chunks		
Infrared Spectrum	Conforms to Structure	Conforms
Optical Rotation (+); c = 10%; Water	20.5 - 21.5 deg	20.7 deg
Titration by Iodine	≥ 99.0 %	99.4 %
Residue on Ignition	≤ 0.10 %	0.03 %
Iron (Fe)	≤ 0.001 %	< 0.001 %
Heavy Metals by ICP-OES	≤ 0.002 %	0.001 %
Recommended Retest Period 3 Years	-----	-----
Meets ACS Requirements	Current ACS Specification	Conforms

Larry Coers, Director
 Quality Control
 Milwaukee, WI US

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



Certificate of analysis

W3082 Received on 2/26/2026 by IZ

Product No.: A12244
Product: Stearic acid, 98%
Lot No.: U23E020

Appearance White flakes
Assay 98.7 %

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Certificate of Analysis

W3093
004121
04/03/2024
16

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

Lot Number: 4401F99

Product Number: 1551

Manufacture Date: JAN 08, 2024

Expiration Date: DEC 2025

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

The NIST traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

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

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

Test	Specification	Result
Appearance	Yellow liquid	Passed

*Not a certified value.

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

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

pH measurements were performed in our Batesville, IN laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.02) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1551-1	4 L natural poly	24 months
1551-1CT	4 L Cubitainer®	24 months
1551-2.5	10 L Cubitainer®	24 months
1551-5	20 L Cubitainer®	24 months

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



Paul Brandon (01/08/2024)

Production Manager

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

This product was tested in an ISO 17025 Accredited Laboratory

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

Sodium Hydroxide (Pellets)

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

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

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

Storage: Room Temperature

Pellets

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

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

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

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

Additional Information

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

Product meets analytical specifications of the grades listed.



Sodium Hydroxide (Pellets)

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

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

Pellets

Spec Set: 0583ACS

Internal ID #: 710

Signature	Additional Information
We certify that this batch conforms to the specifications listed. 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	Analysis may have been rounded to significant digits in specification limits. Product meets analytical specifications of the grades listed.

Item Number	ED150	Lot Number	2ND0156
Item	Edetate Disodium, Dihydrate, USP	CAS Number	6381-92-6
Molecular Formula	C ₁₀ H ₁₄ N ₂ Na ₂ O ₈ •2H ₂ O	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) ₃ N]		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

Spectrum Chemical Mfg Corp
755 Jersey Avenue
New Brunswick 08901 NJ



Certificate of Analysis Results Approved By:

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

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.

Certificate of Analysis

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

Product Code: **LC13545**

Manufacture Date: August 01, 2024

Lot Number: **44080060**

Expiration Date: January 30, 2025

Test	Specification	Result
Appearance (clarity)	clear solution	clear solution
Appearance (color)	colorless	colorless
Concentration (CN)	0.990 - 1.010mg/mL	1.008mg/mL
Concentration (CN)	990 - 1,010ppm	1,008ppm
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 standards.

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
Chemistry Supervisor - Quality Control

ISO9001:2015 Registration #0306-01

W3139 Received on 9/9/24 by IZ

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

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

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

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•6H₂O

CAS Number	7791-18-6
Molecular Formula	MgCl ₂ •6H ₂ O

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% Phosphate (PO ₄) : < 5 ppm Sulfate (SO ₄) : < 0.002%
Cation	Ammonium (NH ₄) : < 0.002% Barium (Ba) : 0.005% Calcium (Ca) : 0.01% Iron (Fe) : 4.5 ppm Manganese (Mn) : 0.624 ppm Potassium (K) : 0.004% Sodium (Na) : 0.000003% 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

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Certificate of Analysis

Cyanide Standard, 1000 ppm CN⁻

Lot Number: 1411J58**Product Number:** 2543**Manufacture Date:** NOV 22, 2024**Expiration Date:** MAY 2025

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

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

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

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

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

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
2543-16	500 mL amber poly	6 months
2543-32	1 L amber poly	6 months
2543-4	120 mL amber poly	6 months

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



Certificate of Analysis

Buffer, Reference Standard, pH 2.00 ± 0.01 at 25°C**Lot Number:** 2411E26**Product Number:** 1493**Manufacture Date:** NOV 11, 2024**Expiration Date:** OCT 2026

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

The NIST traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

°C	10	15	20	25	30	35	40	45	50
pH	1.93	1.98	1.98	2.00	2.01	2.03	2.03	2.04	2.04

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Chloride	7447-40-7	ACS
Hydrochloric Acid	7647-01-0	ACS

Test	Specification	Result
Appearance	Colorless liquid	Passed

*Not a certified value.

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

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1493-1	4 L natural poly	24 months
1493-16	500 mL natural poly	24 months
1493-1CT	4 L Cubitainer®	24 months
1493-2.5	10 L Cubitainer®	24 months
1493-32	1 L natural poly	24 months

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



Jose Pena (11/11/2024)
Operations Manager

This product was tested in an ISO 17025 Accredited Laboratory

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W3163 Rec. on 12/10/24 by IZ

Certificate of Analysis



Material BDH9284-2.5KG
Material Description BDH SODIUM CARB ANHYD ACS 2.5KG
Grade U S P REAGENT (ACS GRADE)

Batch 24E3156178
Reassay Date 09/30/2027
CAS Number 497-19-8
Molecular Formula Na₂CO₃
Molecular Mass 105.99

Date of Manufacture 09/01/2023
Storage Room Temperature
Material is hygroscopic. Protect from Moisture.
Additional Product Description:

Characteristics	Specifications	Measured Values
Appearance	Fine white granular powder	Fine white granular powder
Calcium	<= 0.03 %	0.003 %
Chloride	<= 0.001 %	0.0003 %
Heavy Metals (as Pb)	<= 0.0005 %	0.0001 %
Insolubles	<= 0.01 %	0.001 %
Iron	<= 0.0005 %	0.0001 %
Loss on Heating	<= 1.0 %	0.03 %
Magnesium	<= 0.005 %	0.001 %
Phosphate	<= 0.001 %	0.001 %
Potassium	<= 0.005 %	0.003 %
Purity	>= 99.5 %	100.0 %
Silica	<= 0.005 %	0.001 %
Sulfur Compounds	<= 0.003 %	0.002 %
Extra Description:	Meets Reagent Specifications for testing USP/NF monographs	

Internal ID #: 710

Signature	Additional Information
We certify that this batch conforms to the specifications listed above. 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	Analysis may have been rounded to significant digits in specification limits Product meets analytical specifications of the grades listed.



Material	BDH9266-500G
Material Description	BDH POTASS PHOSPHAT DBSC 500GM
Grade	ACS GRADE
Batch	24H0856239
Reassay Date	04/19/2028
CAS Number	7758-11-4
Molecular Formula	K ₂ HPO ₄
Molecular Mass	174.18
Date of Manufacture	04/19/2024
Storage	Room Temperature

Characteristics	Specifications	Measured Values
Appearance	Fine white crystalline powder	Fine white crystalline powder
Chloride	<= 0.003 %	0.002 %
Heavy Metals (as Pb)	<= 0.0005 %	<0.0005 %
Insolubles	<= 0.01 %	<0.01 %
Iron	<= 0.001 %	<0.001 %
Loss on Drying	<= 1.0 %	<0.5 %
Nitrogen Compounds	<= 0.001 %	<0.001 %
pH (5%, Water) @25C	8.5 - 9.6	8.8
Purity	>= 98.0 %	99.1 %
Sodium	<= 0.05 %	<0.05 %
Sulfate	<= 0.005 %	<0.002 %
CUSTOMER PART # BDH9266-500G		

Internal ID #: 793

Signature	Additional Information
We certify that this batch conforms to the specifications listed above. 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	Analysis may have been rounded to significant digits in specification limits Product meets analytical specifications of the grades listed.



Material	BDH9260-500G
Material Description	BDH POTASS HYDRGN PHTHLTE 500G
Grade	ACS GRADE
Batch	24H0956262
Reassay Date	04/28/2026
CAS Number	877-24-7
Molecular Formula	HOCC6H4COOK
Molecular Mass	204.22
Date of Manufacture	04/29/2023
Storage	Room Temperature

Characteristics	Specifications	Measured Values
Appearance	White crystals.	White crystals.
Assay (dried basis)	99.95 - 100.05 %	99.98 %
Chlorine Compounds	<= 0.003 %	<0.003 %
Heavy Metals (as Pb)	<= 5 ppm	<5 ppm
Insoluble Matter	<= 0.005 %	0.003 %
Iron	<= 5 ppm	<5 ppm
pH (0.05M, Water) @25C	4.00 - 4.02	4.00
Sodium	<= 0.005 %	<0.005 %
Sulfur Compounds	<= 0.002 %	<0.002 %

Internal ID #: 322

Signature	Additional Information
We certify that this batch conforms to the specifications listed above. 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	Analysis may have been rounded to significant digits in specification limits Product meets analytical specifications of the grades listed.

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-NH ₃ 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

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

Certificate of Analysis

231758 58

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

Lot Number: 2411A93

Product Number: 1501

Manufacture Date: NOV 04, 2024

Expiration Date: OCT 2026

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

The NIST Traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

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

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

Test	Specification	Result
Appearance	Red liquid	Passed

*Not a certified value.

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

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

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1501-16	500 mL natural poly	24 months
1501-2.5	10 L Cubitainer®	24 months
1501-5	20 L Cubitainer®	24 months

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



Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Ion Chromatography Solution
Catalog Number: 300-CAL-A
Lot Number: V2-MEB742616
Matrix: H₂O
Value / Analyte(s):
150 µg/mL ea:
Sulfate,
100 µg/mL ea:
Bromide,
50 µg/mL ea:
o-Phosphate as P,
30 µg/mL ea:
Chloride, Nitrite as N,
25 µg/mL ea:
Nitrate as N,
20 µg/mL ea:
Fluoride

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Bromide, Br	100.0 ± 0.5 µg/mL	Chloride, Cl	30.01 ± 0.13 µg/mL
Fluoride, F-	20.00 ± 0.07 µg/mL	Nitrate as N, NNO ₃ -	25.00 ± 0.10 µg/mL
Nitrite as N, NNO ₂ -	30.00 ± 0.10 µg/mL	o-Phosphate as P, PPO ₄	50.00 ± 0.18 µg/mL
Sulfate, SO ₄	150.0 ± 0.8 µg/mL		

Density: 0.999 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Br	IC Assay	3184	151130
Br	Fajans	999c	999c
Cl	IC Assay	3182	190830
Cl	Fajans	999c	999c
F-	IC Assay	3183	140203
NNO3-	IC Assay	3185	170309
NNO2-	IC Assay	Traceable to 40H	08228TH-H2
NNO2-	Calculated	40h	40h
PPO4	IC Assay	3186	170606
SO4	IC Assay	3181	080603

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k(u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2(u_{char i}^2)]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a)(u_{char a})$$

X_a = mean of Assay Method A with

$u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k(u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 CHROMATOGRAM

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures [Terms and Conditions of Sale](https://www.inorganicventures.com/terms-and-conditions-sale). The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.
- For more information, visit www.inorganicventures.com/TCT

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; [inorganicventures.com](https://www.inorganicventures.com); info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 02, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 02, 2029**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

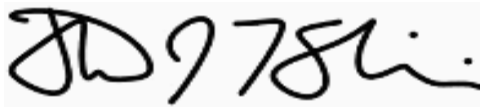
Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor



Certificate Approved By:

Thomas Kozikowski
Stock VS Manager



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director





RICCA CHEMICAL COMPANY®

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

Certificate of Analysis

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

Lot Number: 2410F80

Product Number: 1601

Manufacture Date: OCT 09, 2024

Expiration Date: MAR 2026

The certified value for this product is confirmed in independent testing by a second qualified chemist.
The NIST traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

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

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

Test	Specification	Result
Appearance	Blue liquid	Passed

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

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

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1601-1	4 L natural poly	18 months
1601-16	500 mL natural poly	18 months
1601-1CT	4 L Cubitainer®	18 months
1601-2.5	10 L Cubitainer®	18 months
1601-32	1 L natural poly	18 months
1601-5	20 L Cubitainer®	18 months

Version: 1.3

Lot Number: 2410F80

Product Number: 1601

Page 1 of 2



Certificate of Analysis

03/19/2025(JST

TOKYO CHEMICAL INDUSTRY CO.,LTD.

T-PLUS Nihonbashi-Kodemmacho

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

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

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

TCI Lot numbers are 4-5 characters in length. Characters listed after the first 4-5 characters are control numbers for internal purpose only.

The contents of the specifications are subject to change without advance notice. The specification values displayed here are the most up to date values. There may be cases where the product labels display a different specification, however, the product quality still meets the latest specification.

Customer Service:

TCI AMERICA

Tel: +1-800-423-8616 / +1-503-283-1681

Fax: +1-888-520-1075 / +1-503-283-1987

E-mail: Sales-US@TCIchemicals.com

Takuya Nishioka
Quality Assurance Department Manager

Certificate of Analysis



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	NH ₄ Cl
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

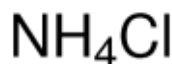
Signature	Additional Information
We certify that this batch conforms to the specifications listed above. This document has been electronically produced and is valid without a signature. Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC. 28600 Fountain Parkway, Solon OH 44139 USA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

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 AgNO ₃	≥ 99.5 %	100.2 %
pH	4.5 - 5.5	4.9
@ 25 Deg c (5% Solution)		
Insoluble Matter	≤ 0.005 %	0.001 %
10%, H ₂ O		
Residue on ignition (Ash)	≤ 0.01 %	< 0.01 %
Calcium (Ca)	≤ 0.001 %	< 0.001 %
Magnesium (Mg)	≤ 5 ppm	1 ppm
Heavy Metals	≤ 5 ppm	< 1 ppm
by ICP		
Iron (Fe)	≤ 2 ppm	< 1 ppm
Phosphate (PO ₄)	≤ 2 ppm	< 2 ppm
Sulfate (SO ₄)	≤ 0.002 %	< 0.002 %
Meets ACS Requirements	Current ACS Specification	Conforms
Recommended Retest Period	-----	-----
3 Years		



Larry Coers, Director

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



Certificate of Analysis

Product Number: 213330
Batch Number: MKCV1009

Quality Control
Milwaukee, WI US

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Instrument IC-1				Analyst: NF		Method: 300.0 / 9056A		Initial Analyst
Ident	Con F-	Con CL-	Con NO2	Con BR-	Con NO3	Con HPO4	Con SO4	
							Method name	date time
STD1	0	0	0	0	0	0	0 IC1-032125	3/21/2025 10:45
STD2	0.421	0.619	0.631	2.075	0.523	1.052	3.247 IC1-032125	3/21/2025 11:07
STD3	0.795	1.199	1.203	3.994	1.001	1.993	5.998 IC1-032125	3/21/2025 11:28
STD4	0.977	1.475	1.468	4.904	1.226	2.407	7.216 IC1-032125	3/21/2025 11:50
STD5	1.993	3.009	2.995	10.03	2.493	4.968	14.842 IC1-032125	3/21/2025 12:11
STD6	4.034	5.988	5.986	19.975	5.011	10.256	30.502 IC1-032125	3/21/2025 12:32
STD7	4.979	7.51	7.517	25.022	6.247	12.323	36.695 IC1-032125	3/21/2025 12:54
ICV	2.031	3.038	3.08	10.364	2.568	5.199	15.269 IC1-032125	3/21/2025 13:37
ICB	0	0.122	0.08	0	0	0	0 IC1-032125	3/21/2025 13:58
CCV	2.034	3.119	3.093	10.383	2.559	5.188	15.179 IC1-032125	4/3/2025 9:38
CCB	0	0	0	0	0	0	0 IC1-032125	4/3/2025 9:59
LB135296BSW	2.028	3.121	3.103	10.387	2.561	5.226	15.185 IC1-032125	4/3/2025 10:43
LB135296BLW	0	0	0	0	0	0	0 IC1-032125	4/3/2025 11:04
Q1711-01	0.332	26.59	0	0.215	0	2.108	10.666 IC1-032125	4/3/2025 12:29
Q1711-02MS	2.301	28.881	3.076	10.43	2.571	2.367	24.892 IC1-032125	4/3/2025 12:50
Q1711-03MSD	2.172	28.857	2.983	10.101	2.479	1.573	24.485 IC1-032125	4/3/2025 13:12
Q1711-04	0.275	20.1	0	0.221	0	0	4.529 IC1-032125	4/3/2025 13:55
Q1711-08	0	0.047	0	0	0	0	0 IC1-032125	4/3/2025 14:16
Q1716-01	0.433	427.687	0	0.63	0.296	0	54.697 IC1-032125	4/3/2025 14:38
Q1711-01DLX10	0.054	2.364	0	0	0	0	1.413 IC1-032125	4/3/2025 14:59
Q1711-04DLX5	0.071	3.687	0	0	0	0	1.238 IC1-032125	4/3/2025 15:21
CCV	2.072	3.107	3.112	10.418	2.589	5.237	15.386 IC1-032125	4/3/2025 15:43
CCB	0	0	0	0	0	0	0 IC1-032125	4/3/2025 17:16

W3198 Received on 4/11/2025 by IZ

3050 Spruce Street, Saint Louis, MO 63103, USA

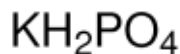
Website: www.sigmaaldrich.comEmail USA: techserv@sial.comOutside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:

Potassium phosphate monobasic - ACS reagent, ≥99.0%

Product Number: P0662
Batch Number: MKCW6723
Brand: SIGALD
CAS Number: 7778-77-0
MDL Number: MFCD00011401
Formula: H₂KO₄P
Formula Weight: 136.09 g/mol
Quality Release Date: 16 OCT 2024
Recommended Retest Date: OCT 2028



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals	Crystals
Assay	≥ 99.0 %	99.8 %
Insoluble Matter	≤ 0.01 %	< 0.01 %
Loss on Drying	≤ 0.2 %	< 0.1 %
At 105°C		
pH	4.1 - 4.5	4.5
(c = 5%, 25 deg C)		
Chloride Content	≤ 0.001 %	< 0.001 %
Sulfate (SO ₄)	≤ 0.003 %	< 0.003 %
Heavy Metals	≤ 0.001 %	< 0.001 %
by ICP		
Iron (Fe)	≤ 0.002 %	< 0.001 %
Sodium (Na)	≤ 0.005 %	< 0.001 %
Recommended Retest Period	-----	-----
4 Years		



Larry Coers, Director
Quality Control
Milwaukee, WI US

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

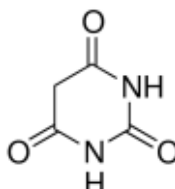


Certificate of Analysis

Product Name:

Barbituric acid - ReagentPlus®, 99%

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



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



Kang Chen
Quality Manager
Wuxi, China CN

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n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis

avantor™



W3204
084K: 09/22/2025
38

Material No.: 9262-03
Batch No.: 25C0362005
Manufactured Date: 2025-01-29
Expiration Date: 2026-04-30
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	≤ 5	5
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	100 %
Color (APHA)	≤ 10	10
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	$< 0.01 \%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

J. Croak

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700 345 of 361

CORCO CHEMICAL CORPORATION

Manufacturers of ACS Reagents and Semiconductor Grade Chemicals

W3205
0942

04/22/25

CERTIFICATE OF ANALYSIS

Date: 4/4/2024

80

Lot No. 540404

Acetic Acid, Glacial (ACS) Reagent Grade

<u>TEST</u>	<u>MAXIMUM LIMITS</u>	<u>RESULT</u>
Appearance	Colorless and free from suspended matter or sediment	Pass
Assay	99.7 min.	99.99%
Color (APHA)	10	5
Dilution Test	Passes Test	Pass
Residue after evaporation	0.001%	0.0003%
Acetic Anhydride	0.01%	0.00%
Chloride (cl)	1 ppm	<1 ppm
Sulfate (SO ₄)	1 ppm	<1 ppm
Heavy Metals (as Pb)	0.5ppm	<0.02 ppm
Iron (Fe)	0.2ppm	<0.1 ppm
Sub. Red. Dichromate	Passes Test	Pass
Sub. Red. Permanganate	Passes Test	Pass
Titratable Base	0.0004meq/g	<0.0002 meq/g

DATE OF MFG: 4/2024
RETEST DATE: 4/2026

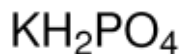
CORCO CHEMICAL CORPORATION. 299 CEDAR LANE. FAIRLESS HILLS, PA 19030. 215-295-5006. FAX 215-295-0781

Certificate of Analysis

Product Name:

Potassium phosphate monobasic - ACS reagent, ≥99.0%

Product Number: P0662
Batch Number: MKCX1379
Brand: SIGALD
CAS Number: 7778-77-0
MDL Number: MFCD00011401
Formula: H₂KO₄P
Formula Weight: 136.09 g/mol
Quality Release Date: 27 JAN 2025
Recommended Retest Date: JAN 2029



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals	Crystals
Assay	≥ 99.0 %	99.9 %
Insoluble Matter	≤ 0.01 %	< 0.01 %
Loss on Drying	≤ 0.2 %	< 0.1 %
At 105°C		
pH	4.1 - 4.5	4.5
(c = 5%, 25 deg C)		
Chloride Content	≤ 0.001 %	< 0.001 %
Sulfate (SO ₄)	≤ 0.003 %	< 0.003 %
Heavy Metals	≤ 0.001 %	< 0.001 %
by ICP		
Iron (Fe)	≤ 0.002 %	< 0.001 %
Sodium (Na)	≤ 0.005 %	< 0.001 %
Recommended Retest Period	-----	-----
4 Years		



Larry Coers, Director
Quality Control
Milwaukee, WI US

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



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 4/25/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 04/24/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:25
Out Date: 04/25/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135545

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
Q1869-01	MH-F	1	1.14	10.43	11.57	10.47	89.5	
Q1869-02	MH-F-EPH	2	1.18	9.96	11.14	10.12	89.8	
Q1869-03	MH-F-VOC	3	1.16	10.28	11.44	10.4	89.9	
Q1871-01	MH-A	4	1.14	9.59	10.73	9.86	90.9	
Q1871-02	MH-A-EPH	5	1.18	9.97	11.15	10.25	91.0	
Q1871-03	MH-A-VOC	6	1.15	10.22	11.37	10.47	91.2	
Q1871-05	MH-B	7	1.18	10.31	11.49	10.58	91.2	
Q1871-06	MH-B-EPH	8	1.16	9.63	10.79	10.05	92.3	
Q1871-07	MH-B-VOC	9	1.18	10.35	11.53	10.75	92.5	
Q1872-01	HW0425-PT-AN-SOIL	31	1.00	1.00	2.00	2.00	100.0	
Q1872-02	HW0425-PT-CORR-SOIL	32	1.00	1.00	2.00	2.00	100.0	
Q1872-03	HW0425-PT-CN-SOIL	33	1.00	1.00	2.00	2.00	100.0	
Q1872-04	HW0425-PT-CN-SOIL	34	1.00	1.00	2.00	2.00	100.0	
Q1872-05	HW0425-PT-FP-SOIL	35	1.00	1.00	2.00	2.00	100.0	
Q1872-06	HW0425-PT-CR6-SOIL	36	1.00	1.00	2.00	2.00	100.0	
Q1872-07	HW0425-PT-NUT-SOIL	37	1.00	1.00	2.00	2.00	100.0	
Q1872-08	HW0425-PT-NUT-SOIL	38	1.00	1.00	2.00	2.00	100.0	
Q1872-09	HW0425-PT-OGF-SOIL	39	1.00	1.00	2.00	2.00	100.0	
Q1872-10	HW0425-PT-MET-SOIL	40	1.00	1.00	2.00	2.00	100.0	
Q1872-11	HW0425-PT-BNA-SOIL	41	1.00	1.00	2.00	2.00	100.0	
Q1872-12	HW0425-PT-TRIAZINE-SOIL	42	1.00	1.00	2.00	2.00	100.0	
Q1872-13	HW0425-PT-PAH-SOIL	43	1.00	1.00	2.00	2.00	100.0	
Q1872-14	HW0425-PT-DIES-SOIL	44	1.00	1.00	2.00	2.00	100.0	
Q1872-15	HW0425-PT-GAS-SOIL	45	1.00	1.00	2.00	2.00	100.0	
Q1872-16	HW0425-PT-NJEPH-SOIL	46	1.00	1.00	2.00	2.00	100.0	
Q1872-17	HW0425-PT-HERB-SOIL	47	1.00	1.00	2.00	2.00	100.0	
Q1872-18	HW0425-PT-PCB-SOIL	48	1.00	1.00	2.00	2.00	100.0	
Q1872-19	HW0425-PT-PCBO-SOIL	49	1.00	1.00	2.00	2.00	100.0	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 4/25/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 04/24/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:25
Out Date: 04/25/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135545

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
Q1872-20	HW0425-PT-PEST-SOIL	50	1.00	1.00	2.00	2.00	100.0	
Q1872-21	HW0425-PT-CHLR-SOIL	51	1.00	1.00	2.00	2.00	100.0	
Q1872-22	HW0425-PT-TXP-SOIL	52	1.00	1.00	2.00	2.00	100.0	
Q1872-23	HW0425-PT-VOA-SOIL	53	1.00	1.00	2.00	2.00	100.0	
Q1872-25	HW0425-PT-NO2-SOIL	54	1.00	1.00	2.00	2.00	100.0	
Q1873-01	CAM-40619	10	1.14	10.70	11.84	4.97	35.8	
Q1873-02	CAM-40620	11	1.15	10.42	11.57	6.19	48.4	
Q1873-03	CAM-40619-20	12	1.18	10.21	11.39	4.77	35.2	
Q1874-01	VNJ-236	13	1.19	10.45	11.64	10.89	92.8	
Q1874-03	RT1491	14	1.19	11.16	12.35	11.43	91.8	
Q1874-05	HT3727	15	1.16	10.63	11.79	11.06	93.1	
Q1875-01	AUD-25-0053	16	1.14	10.75	11.89	11.19	93.5	
Q1875-03	AUD-25-0054	17	1.14	10.02	11.16	10.52	93.6	
Q1875-04	AUD-25-0024	18	1.14	10.03	11.17	10.77	96.0	
Q1876-01	AUD-25-0058	19	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1876-02	AUD-25-0059	20	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1876-03	AUD-25-0060	21	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1876-04	AUD-25-0061	22	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1876-05	AUD-25-0062	23	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1876-06	AUD-25-0063	24	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1876-07	AUD-25-0064	25	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1876-08	AUD-25-0065	26	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1876-09	AUD-25-0066	27	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1877-01	AU-6-042425	55	1.14	10.25	11.39	10.72	93.5	
Q1877-02	AU-6-042425	28	1.14	10.21	11.35	10.54	92.1	
Q1878-01	TR-4-042425	29	1.14	10.17	11.31	11.2	98.9	
Q1878-02	TR-4-042425-E2	30	1.19	10.28	11.47	10.92	94.6	

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-042425

WorkList ID : 189122

Department : Wet-Chemistry

Date : 04-24-2025 08:52:24

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1869-01	MH-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1869-02	MH-F-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1869-03	MH-F-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1871-01	MH-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1871-02	MH-A-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1871-03	MH-A-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1871-05	MH-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1871-06	MH-B-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1871-07	MH-B-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1872-01	HW0425-PT-AN-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-02	HW0425-PT-CORR-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-03	HW0425-PT-CN-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-04	HW0425-PT-CN-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-05	HW0425-PT-FP-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-06	HW0425-PT-CR6-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-07	HW0425-PT-NUT-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-08	HW0425-PT-NUT-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-09	HW0425-PT-OGR-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-10	HW0425-PT-MET-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-11	HW0425-PT-BNA-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-12	HW0425-PT-TRIAZINE-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO

Date/Time

04/24/25

Raw Sample Received by:

sg wyc,

Raw Sample Relinquished by:

DWSH

Date/Time

04/24/25

Raw Sample Received by:

DWSH

Raw Sample Relinquished by:

DWSH

WORKLIST(Hardcopy Internal Chain)

135545

WorkList Name : %1-042425

WorkList ID : 189122

Department : Wet-Chemistry

Date : 04-24-2025 08:52:24

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1872-13	HW0425-PT-PAH-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-14	HW0425-PT-DIES-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-15	HW0425-PT-GAS-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-16	HW0425-PT-NJEPH-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-17	HW0425-PT-HERB-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-18	HW0425-PT-PCB-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-19	HW0425-PT-PCBO-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-20	HW0425-PT-PEST-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-21	HW0425-PT-CHLR-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-22	HW0425-PT-TXP-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-23	HW0425-PT-VOA-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-25	HW0425-PT-NO2-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1873-01	CAM-40619	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1873-02	CAM-40620	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1873-03	CAM-40619-20	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1874-01	VNJ-236	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1874-03	RT1491	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/24/2025	Chemtech -SO
Q1874-05	HT3727	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/24/2025	Chemtech -SO
Q1875-01	AUD-25-0053	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/24/2025	Chemtech -SO
Q1875-03	AUD-25-0054	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1875-04	AUD-25-0024	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO

Date/Time 04/24/25 15:30

Raw Sample Received by: JH WOL

Raw Sample Relinquished by: JH WOL

Date/Time 04/24/25

Raw Sample Received by: JH WOL

Raw Sample Relinquished by: JH WOL

WORKLIST(Hardcopy Internal Chain)

27 135545

WorkList Name : %1-042425

WorkList ID : 189122

Department : Wet-Chemistry

Date : 04-24-2025 08:52:24

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1876-01	AUD-25-0058	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1876-02	AUD-25-0059	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1876-03	AUD-25-0060	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1876-04	AUD-25-0061	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1876-05	AUD-25-0062	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1876-06	AUD-25-0063	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1876-07	AUD-25-0064	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1876-08	AUD-25-0065	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1876-09	AUD-25-0066	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1877-01	AU-6-042425	Solid	Percent Solids	Cool 4 deg C	PSEG05	L41	04/24/2025	Chemtech -SO
Q1877-02	AU-6-042425	Solid	Percent Solids	Cool 4 deg C	PSEG05	L41	04/24/2025	Chemtech -SO
Q1878-01	TR-4-042425	Solid	Percent Solids	Cool 4 deg C	PSEG05	L41	04/24/2025	Chemtech -SO
Q1878-02	TR-4-042425-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L41	04/24/2025	Chemtech -SO

Date/Time

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 04/24/25

Raw Sample Received by:

Raw Sample Relinquished by:

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 4/29/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 04/28/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:37
Out Date: 04/29/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135575

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
Q1872-24	HW0425-PT-SOL-SOIL	8	0.92	10.30	11.22	8.82	76.7	
Q1901-01	B-170-SB00	1	1.14	5.55	6.69	6.28	92.6	
Q1901-02	B-167-SB01	2	1.14	10.22	11.36	9.58	82.6	
Q1901-03	B-170-SB01	3	1.19	10.31	11.5	9.75	83.0	
Q1901-04	B-167-SB02	4	1.15	9.78	10.93	6.35	53.2	
Q1901-05	B-170-SB02	5	1.14	10.16	11.3	8.77	75.1	
Q1902-01	343	6	1.19	10.23	11.42	10.7	93.0	
Q1902-02	343	7	1.13	10.19	11.32	10.33	90.3	
Q1903-01	COMP-4	9	1.18	11.14	12.32	10.46	83.3	
Q1903-02	COMP-5	10	1.16	10.50	11.66	9.44	78.9	
Q1903-03	COMP-6	11	1.17	10.60	11.77	10.06	83.9	
Q1904-01	VNJ-210	12	1.19	10.39	11.58	10.6	90.6	
Q1905-01	MH-G	13	1.15	10.35	11.5	10.38	89.2	
Q1905-02	MH-G-EPH	14	1.16	9.65	10.81	9.71	88.6	
Q1905-03	MH-G-VOC	15	1.16	10.33	11.49	10.36	89.1	
Q1905-05	MH-H	16	1.12	10.03	11.15	10.5	93.5	
Q1905-06	MH-H-EPH	17	1.13	10.30	11.43	10.5	91.0	
Q1905-07	MH-H-VOC	18	1.12	10.03	11.15	10.01	88.6	
Q1906-01	WC-4	19	1.15	9.85	11.00	10.14	91.3	
Q1906-02	WC-4-EPH	20	1.16	9.97	11.13	10.17	90.4	
Q1906-03	WC-4-VOC	21	1.18	9.99	11.17	9.91	87.4	
Q1906-05	WC-5	22	1.16	10.82	11.98	10.19	83.5	
Q1906-06	WC-5-EPH	23	1.13	10.41	11.54	9.94	84.6	
Q1906-07	WC-5-VOC	24	1.18	10.47	11.65	11.63	99.8	
Q1906-09	WC-6	25	1.14	10.04	11.18	10.4	92.2	
Q1906-10	WC-6-EPH	26	1.15	10.77	11.92	10.23	84.3	
Q1906-11	WC-6-VOC	27	1.14	10.47	11.61	10.86	92.8	
Q1906-13	WC-7	28	1.14	10.85	11.99	10.31	84.5	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 4/29/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 04/28/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:37
Out Date: 04/29/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135575

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
Q1906-14	WC-7-EPH	29	1.12	9.86	10.98	9.7	87.0	
Q1906-15	WC-7-VOC	30	1.13	10.27	11.4	10.23	88.6	
Q1907-01	CO-8R-WC	31	1.13	10.26	11.39	9.81	84.6	

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

WORKLIST(Hardcopy Internal Chain)

135545

WorkList Name : %1-042825

WorkList ID : 189159

Department : Wet-Chemistry

Date : 04-28-2025 07:59:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1872-24	HW0425-PT-SOL-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1903-01	COMP-4	Solid	Percent Solids	Cool 4 deg C	POWE02	L51	04/25/2025	Chemtech -SO
Q1903-02	COMP-5	Solid	Percent Solids	Cool 4 deg C	POWE02	L51	04/25/2025	Chemtech -SO
Q1903-03	COMP-6	Solid	Percent Solids	Cool 4 deg C	POWE02	L51	04/25/2025	Chemtech -SO
Q1901-01	B-170-SB00	Solid	Percent Solids	Cool 4 deg C	PORT06	L51	04/26/2025	Chemtech -SO
Q1901-02	B-167-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	L51	04/26/2025	Chemtech -SO
Q1901-03	B-170-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	L51	04/26/2025	Chemtech -SO
Q1901-04	B-167-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	L51	04/26/2025	Chemtech -SO
Q1901-05	B-170-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	L51	04/26/2025	Chemtech -SO
Q1902-01	343	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1902-02	343	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1904-01	VNJ-210	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1905-01	MH-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/28/2025	Chemtech -SO
Q1905-02	MH-G-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/28/2025	Chemtech -SO
Q1905-03	MH-G-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/28/2025	Chemtech -SO
Q1906-13	WC-7	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1906-14	WC-7-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1906-15	WC-7-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1906-05	WC-5	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1906-06	WC-5-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1906-07	WC-5-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO

Date/Time 04/28/25 16:15

Raw Sample Received by: 706001

Raw Sample Relinquished by: 04/28/25

Date/Time 04/28/25

Raw Sample Received by: 04/28/25

Raw Sample Relinquished by: 04/28/25

WORKLIST(Hardcopy Internal Chain)



WorkList Name : %1-042825

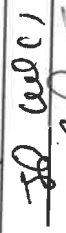
WorkList ID : 189159

Department : Wet-Chemistry

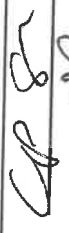
Date : 04-28-2025 07:59:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1906-09	WC-6	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1906-10	WC-6-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1906-11	WC-6-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1905-05	MH-H	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/28/2025	Chemtech -SO
Q1905-06	MH-H-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/28/2025	Chemtech -SO
Q1905-07	MH-H-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/28/2025	Chemtech -SO
Q1906-01	WC-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1906-02	WC-4-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1906-03	WC-4-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1907-01	CO-8R-WC	Solid	Percent Solids	Cool 4 deg C	WALS01	L51	04/28/2025	Chemtech -SO

Date/Time 04/28/25 16:15

Raw Sample Received by: Raw Sample Relinquished by: 

Date/Time 04/28/25 17:30

Raw Sample Received by: Raw Sample Relinquished by: 



SHIPPING DOCUMENTS

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phenova®
Certified Reference Materials

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Company

6390 Joyce Dr., #100
Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

Received by: SJ
4/23/2025 15:50

For terms and conditions of your order, please visit:
www.phenova.com/home/termsofsale

Packing List

Date	Order #
04/21/2025	333293



Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
PO2-1668	Net 30	ZCM-100	1500470	FedEx Collect 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-MET-SOIL	SOIL/HW Trace Metals	HW0425	7100-04
1	1	0	PT-CR6-SOIL	SOIL/HW Hexavalent Chromium	HW0425	7100-05B
1	1	0	PT-CN-SOIL	SOIL/HW Cyanide	HW0425	7100-06
1	1	0	PT-CORR-SOIL	SOIL/HW Corrosivity/pH	HW0425	7100-11
1	1	0	PT-FP-SOIL	SOIL/HW Flash Point	HW0425	7100-10
1	1	0	PT-AN-SOIL	SOIL/HW Anions	HW0425	7100-08
1	1	0	PT-NUT-SOIL	SOIL/HW Nutrients	HW0425	7100-09B
1	1	0	PT-SOL-SOIL	SOIL/HW Solids	HW0425	7100-31
1	1	0	PT-NO2-SOIL	SOIL/HW Nitrite as N	HW0425	7100-71
1	1	0	PT-GAS-SOIL	SOIL/HW Gasoline	HW0425	7100-96
1	1	0	PT-OGR-SOIL	SOIL/HW Oil and Grease	HW0425	7100-94
1	1	0	PT-VOA-SOIL	SOIL/HW Volatiles	HW0425	7100-12
1	1	0	PT-BNA-SOIL	SOIL/HW BNAs	HW0425	7100-13
1	1	0	PT-PEST-SOIL	SOIL/HW Pesticides	HW0425	7100-14
1	1	0	PT-CHLR-SOIL	SOIL/HW Chlordane	HW0425	7100-15
1	1	0	PT-TXP-SOIL	SOIL/HW Toxaphene	HW0425	7100-16
1	1	0	PT-PCB-SOIL	SOIL/HW PCBs	HW0425	7100-17
1	1	0	PT-PCBO-SOIL	SOIL/HW PCBs in Oil	HW0425	7100-88
1	1	0	PT-HERB-SOIL	SOIL/HW Herbicides	HW0425	7100-18
1	1	0	PT-PAH-SOIL	SOIL/HW PAHs	HW0425	7100-22
1	1	0	PT-TRIAZINE-SOIL	SOIL/HW Triazine Pesticides	HW0425	7100-106
1	1	0	PT-NJEPH-SOIL	NJ EPH in SOIL	HW0425	7100-105



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Certified Reference Materials

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Company

Packing List

Date	Order #
04/25/2025	337220



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Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

For terms and conditions of your order, please visit:
www.phenova.com/home/termsofsale

Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: SJ

4/28/2025 9:40

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
CPR	Net 30	ZCM-100	1500470	FedEx Next Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-DIES-SOIL	SOIL/HW Diesel in Soil	HW0425	7100-100

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