

Cover Page

Order ID : P4548

Project ID : Ansonia Landfill 2024

Client : Lockwood, Kessler & Bartlett, Inc.

Lab Sample Number

P4548-01
P4548-02
P4548-03
P4548-04
P4548-05
P4548-06
P4548-07
P4548-08
P4548-09

Client Sample Number

MW-1
MW-1
MW-2
MW-2
MW-3
MW-3
MW-4
MW-4
TRIP BLANK

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

Signature : _____

Date: 11/5/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4548

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: KETAN PATEL

Date: 11/05/2024

LAB CHRONICLE

OrderID:	P4548	OrderDate:	10/24/2024 3:18:00 PM
Client:	Lockwood, Kessler & Bartlett, Inc.	Project:	Ansonia Landfill 2024
Contact:	John Gerlach	Location:	K11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4548-01	MW-1	WATER			10/23/24 10:05			10/24/24
			Alkalinity	SM2320 B			11/04/24 10:25	
			Ammonia	SM4500-NH3		10/28/24	10/28/24 13:42	
			Anions Group1	300.0			10/25/24 09:35	
			BOD5	SM5210 B			10/25/24 09:30	
			pH	9040C			10/25/24 10:10	
			TDS	SM2540 C			10/25/24 12:30	
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		10/28/24	10/28/24 16:20	
			Total Nitrogen	Cal			10/28/24 16:20	
			TSS	SM2540 D			10/28/24 09:00	
			Turbidity	SM2130 B			10/25/24 09:26	
P4548-01DL	MW-1DL	WATER			10/23/24 10:05			10/24/24
			Anions Group1	300.0			10/25/24 12:06	
P4548-03	MW-2	WATER			10/23/24 12:15			10/24/24

LAB CHRONICLE

Alkalinity	SM2320 B		11/04/24 10:35
Ammonia	SM4500-NH3	10/28/24	10/28/24 13:53
Anions Group1	300.0		10/25/24 11:23
BOD5	SM5210 B		10/25/24 09:30
pH	9040C		10/25/24 10:15
TDS	SM2540 C		10/25/24 12:30
TKN	SM4500-N Org C-11 plus NH3 B plus G-11	10/28/24	10/28/24 16:30
Total Nitrogen	Cal		10/28/24 16:57
TSS	SM2540 D		10/28/24 09:00
Turbidity	SM2130 B		10/25/24 09:34

P4548-03DL	MW-2DL	WATER	10/23/24 12:15	10/24/24
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Ammonia	SM4500-NH3	10/28/24	10/28/24 14:41
Anions Group1	300.0		10/25/24 14:15
TKN	SM4500-N Org C-11 plus NH3 B plus G-11	10/28/24	10/28/24 16:57

P4548-03DL 2	MW-2DL2	WATER	10/23/24 12:15	10/24/24
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Anions Group1	300.0		10/25/24 12:28
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P4548-05	MW-3	WATER	10/23/24 11:00	10/24/24
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LAB CHRONICLE

Alkalinity	SM2320 B		11/04/24 10:41
Ammonia	SM4500-NH3	10/28/24	10/28/24 13:53
Anions Group1	300.0		10/25/24 10:40
BOD5	SM5210 B		10/25/24 09:30
pH	9040C		10/25/24 10:17
TDS	SM2540 C		10/25/24 12:30
TKN	SM4500-N Org C-11 plus NH3 B plus G-11	10/28/24	10/28/24 16:30
Total Nitrogen	Cal		10/28/24 16:30
TSS	SM2540 D		10/28/24 09:00
Turbidity	SM2130 B		10/25/24 09:38

P4548-05DL

MW-3DL

WATER

**10/23/24
11:00**

10/24/24

Ammonia	SM4500-NH3	10/28/24	10/28/24 14:41
Anions Group1	300.0		10/25/24 13:32

P4548-07

MW-4

WATER

**10/23/24
11:30**

10/24/24

Alkalinity	SM2320 B		11/04/24 10:46
Ammonia	SM4500-NH3	10/28/24	10/28/24 13:53
Anions Group1	300.0		10/25/24 11:02
BOD5	SM5210 B		10/25/24 09:30

LAB CHRONICLE

pH	9040C		10/25/24 10:19
TDS	SM2540 C		10/25/24 12:30
TKN	SM4500-N Org C-11 plus NH3 B plus G-11	10/28/24	10/28/24 16:30
Total Nitrogen	Cal		10/28/24 16:30
TSS	SM2540 D		10/28/24 09:00
Turbidity	SM2130 B		10/25/24 09:42

P4548-07DL

MW-4DL

WATER

**10/23/24
11:30**

10/24/24

Ammonia	SM4500-NH3	10/28/24	10/28/24 14:41
Anions Group1	300.0		10/25/24 13:54



SAMPLE DATA

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24 10:05
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-1	SDG No.:	P4548
Lab Sample ID:	P4548-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	49.5		1	1.00	2.00	mg/L		11/04/24 10:25	SM 2320 B-11
Ammonia as N	0.045	U	1	0.045	0.10	mg/L	10/28/24 08:40	10/28/24 13:42	SM 4500-NH3 B plus G-11
Chloride	146	OR	1	0.011	0.60	mg/L		10/25/24 09:35	300.0
Nitrite	0.011	U	1	0.011	0.60	mg/L		10/25/24 09:35	300.0
Nitrate	1.30		1	0.0034	0.50	mg/L		10/25/24 09:35	300.0
Sulfate	31.6		1	0.032	3.00	mg/L		10/25/24 09:35	300.0
Nitrate+Nitrite	1.30		1	0.010	1.10	mg/L		10/25/24 09:35	300.0
BOD5	0.17	U	1	0.17	2.00	mg/L		10/25/24 09:30	SM 5210 B-16
pH	5.81	H	1	0	0	pH		10/25/24 10:10	9040C
TDS	422		1	1.00	10.0	mg/L		10/25/24 12:30	SM 2540 C-15
TKN	0.18	U	1	0.18	0.50	mg/L	10/28/24 09:30	10/28/24 16:20	SM4500-N Org C-11 plus NH3 B plus G-11
Nitrogen	1.30		1	0.31	1.30	mg/L		10/28/24 16:20	SM 4500-N Org C-11 plus NH3 B plus G-11
TSS	1.00	U	1	1.00	4.00	mg/L		10/28/24 09:00	SM 2540 D-15
Turbidity	0.38	J	1	0.075	1.00	NTU		10/25/24 09:26	SM 2130 B-11

Comments: The alkalinity to pH 4.29=49.5 mg CaCO3/L, pH result reported at temperature 20.3 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24 10:05
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-1DL	SDG No.:	P4548
Lab Sample ID:	P4548-01DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	110	D	50	0.55	30.0	mg/L		10/25/24 12:06	300.0

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:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24 12:15
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-2	SDG No.:	P4548
Lab Sample ID:	P4548-03	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	437		1	1.00	2.00	mg/L		11/04/24 10:35	SM 2320 B-11
Ammonia as N	10.1	OR	1	0.045	0.10	mg/L	10/28/24 08:40	10/28/24 13:53	SM 4500-NH3 B plus G-11
Chloride	524	OR	1	0.011	0.60	mg/L		10/25/24 11:23	300.0
Nitrite	0.011	U	1	0.011	0.60	mg/L		10/25/24 11:23	300.0
Nitrate	0.088	J	1	0.0034	0.50	mg/L		10/25/24 11:23	300.0
Sulfate	41.8	OR	1	0.032	3.00	mg/L		10/25/24 11:23	300.0
Nitrate+Nitrite	0.090	J	1	0.010	1.10	mg/L		10/25/24 11:23	300.0
BOD5	10.5		1	0.17	2.00	mg/L		10/25/24 09:30	SM 5210 B-16
pH	6.72	H	1	0	0	pH		10/25/24 10:15	9040C
TDS	1150		1	1.00	10.0	mg/L		10/25/24 12:30	SM 2540 C-15
TKN	11.1	OR	1	0.18	0.50	mg/L	10/28/24 09:30	10/28/24 16:30	SM4500-N Org C-11 plus NH3 B plus G-11
Nitrogen	11.6		1	0.31	1.30	mg/L		10/28/24 16:57	SM 4500-N Org C-11 plus NH3 B plus G-11
TSS	23.5		1	1.00	4.00	mg/L		10/28/24 09:00	SM 2540 D-15
Turbidity	135		1	0.075	1.00	NTU		10/25/24 09:34	SM 2130 B-11

Comments: The alkalinity to pH 4.40=437 mg CaCO3/L, pH result reported at temperature 20.1 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24 12:15
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-2DL	SDG No.:	P4548
Lab Sample ID:	P4548-03DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	12.0	D	10	0.45	1.00	mg/L	10/28/24 08:40	10/28/24 14:41	SM 4500-NH3 B plus G-11
Chloride	493	OR	2	0.022	1.20	mg/L		10/25/24 14:15	300.0
Sulfate	41.2	D	2	0.064	6.00	mg/L		10/25/24 14:15	300.0
TKN	11.5	D	2	0.36	1.00	mg/L	10/28/24 09:30	10/28/24 16:57	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:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24 12:15
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-2DL2	SDG No.:	P4548
Lab Sample ID:	P4548-03DL2	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	350	D	100	1.10	60.0	mg/L		10/25/24 12:28	300.0

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:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24 11:00
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-3	SDG No.:	P4548
Lab Sample ID:	P4548-05	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	368		1	1.00	2.00	mg/L		11/04/24 10:41	SM 2320 B-11
Ammonia as N	5.40	OR	1	0.045	0.10	mg/L	10/28/24 08:40	10/28/24 13:53	SM 4500-NH3 B plus G-11
Chloride	330	OR	1	0.011	0.60	mg/L		10/25/24 10:40	300.0
Nitrite	0.011	U	1	0.011	0.60	mg/L		10/25/24 10:40	300.0
Nitrate	2.20		1	0.0034	0.50	mg/L		10/25/24 10:40	300.0
Sulfate	15.2		1	0.032	3.00	mg/L		10/25/24 10:40	300.0
Nitrate+Nitrite	2.20		1	0.010	1.10	mg/L		10/25/24 10:40	300.0
BOD5	9.51		1	0.17	2.00	mg/L		10/25/24 09:30	SM 5210 B-16
pH	6.73	H	1	0	0	pH		10/25/24 10:17	9040C
TDS	774		1	1.00	10.0	mg/L		10/25/24 12:30	SM 2540 C-15
TKN	6.00		1	0.18	0.50	mg/L	10/28/24 09:30	10/28/24 16:30	SM4500-N Org C-11 plus NH3 B plus G-11
Nitrogen	8.20		1	0.31	1.30	mg/L		10/28/24 16:30	SM 4500-N Org C-11 plus NH3 B plus G-11
TSS	5.30		1	1.00	4.00	mg/L		10/28/24 09:00	SM 2540 D-15
Turbidity	20.0		1	0.075	1.00	NTU		10/25/24 09:38	SM 2130 B-11

Comments: The alkalinity to pH 4.38=368 mg CaCO3/L, pH result reported at temperature 20.1 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24 11:00
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-3DL	SDG No.:	P4548
Lab Sample ID:	P4548-05DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	5.90	D	5	0.23	0.50	mg/L	10/28/24 08:40	10/28/24 14:41	SM 4500-NH3 B plus G-11
Chloride	230	D	100	1.10	60.0	mg/L		10/25/24 13:32	300.0

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:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24 11:30
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-4	SDG No.:	P4548
Lab Sample ID:	P4548-07	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	348		1	1.00	2.00	mg/L		11/04/24 10:46	SM 2320 B-11
Ammonia as N	5.30	OR	1	0.045	0.10	mg/L	10/28/24 08:40	10/28/24 13:53	SM 4500-NH3 B plus G-11
Chloride	331	OR	1	0.011	0.60	mg/L		10/25/24 11:02	300.0
Nitrite	0.011	U	1	0.011	0.60	mg/L		10/25/24 11:02	300.0
Nitrate	2.20		1	0.0034	0.50	mg/L		10/25/24 11:02	300.0
Sulfate	15.3		1	0.032	3.00	mg/L		10/25/24 11:02	300.0
Nitrate+Nitrite	2.20		1	0.010	1.10	mg/L		10/25/24 11:02	300.0
BOD5	10.9		1	0.17	2.00	mg/L		10/25/24 09:30	SM 5210 B-16
pH	6.75	H	1	0	0	pH		10/25/24 10:19	9040C
TDS	822		1	1.00	10.0	mg/L		10/25/24 12:30	SM 2540 C-15
TKN	5.70		1	0.18	0.50	mg/L	10/28/24 09:30	10/28/24 16:30	SM4500-N Org C-11 plus NH3 B plus G-11
Nitrogen	7.90		1	0.31	1.30	mg/L		10/28/24 16:30	SM 4500-N Org C-11 plus NH3 B plus G-11
TSS	5.60		1	1.00	4.00	mg/L		10/28/24 09:00	SM 2540 D-15
Turbidity	11.4		1	0.075	1.00	NTU		10/25/24 09:42	SM 2130 B-11

Comments: The alkalinity to pH 4.27=348 mg CaCO3/L, pH result reported at temperature 20.3 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

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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:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24 11:30
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-4DL	SDG No.:	P4548
Lab Sample ID:	P4548-07DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	5.80	D	5	0.23	0.50	mg/L	10/28/24 08:40	10/28/24 14:41	SM 4500-NH3 B plus G-11
Chloride	238	D	100	1.10	60.0	mg/L		10/25/24 13:54	300.0

Comments: _____

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N = Spiked sample recovery not within control limits



QC RESULT SUMMARY

Initial and Continuing Calibration Verification

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Project: Ansonia Landfill 2024

RunNo.: LB133119

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Bromide	mg/L	10	10	100	90-110	10/16/2024
Chloride	mg/L	3	3	100	90-110	10/16/2024
Fluoride	mg/L	2	2	100	90-110	10/16/2024
Nitrite	mg/L	3	3	100	90-110	10/16/2024
Nitrate	mg/L	2.5	2.5	100	90-110	10/16/2024
Sulfate	mg/L	14.9	15	99	90-110	10/16/2024
Orthophosphate as P	mg/L	4.8	5	96	90-110	10/16/2024
Sample ID: CCV1						
Bromide	mg/L	10.5	10	105	90-110	10/25/2024
Chloride	mg/L	3.2	3	107	90-110	10/25/2024
Fluoride	mg/L	2.1	2	105	90-110	10/25/2024
Nitrite	mg/L	3.1	3	103	90-110	10/25/2024
Nitrate	mg/L	2.6	2.5	104	90-110	10/25/2024
Sulfate	mg/L	15.7	15	105	90-110	10/25/2024
Orthophosphate as P	mg/L	5.2	5	104	90-110	10/25/2024
Sample ID: CCV2						
Bromide	mg/L	10.6	10	106	90-110	10/25/2024
Chloride	mg/L	3.2	3	107	90-110	10/25/2024
Fluoride	mg/L	2.1	2	105	90-110	10/25/2024
Nitrite	mg/L	3.2	3	107	90-110	10/25/2024
Nitrate	mg/L	2.6	2.5	104	90-110	10/25/2024
Sulfate	mg/L	15.7	15	105	90-110	10/25/2024
Orthophosphate as P	mg/L	5.3	5	106	90-110	10/25/2024
Sample ID: CCV3						
Bromide	mg/L	10.6	10	106	90-110	10/25/2024
Chloride	mg/L	3.2	3	107	90-110	10/25/2024
Fluoride	mg/L	2.1	2	105	90-110	10/25/2024
Nitrite	mg/L	3.2	3	107	90-110	10/25/2024
Nitrate	mg/L	2.6	2.5	104	90-110	10/25/2024
Sulfate	mg/L	15.8	15	105	90-110	10/25/2024
Orthophosphate as P	mg/L	5.3	5	106	90-110	10/25/2024

Initial and Continuing Calibration Verification

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Project: Ansonia Landfill 2024

RunNo.: LB133120

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: Turbidity	ICV	NTU	9.841	10	98	90-110	10/25/2024
Sample ID: Turbidity	CCV1	NTU	9.445	10	94	90-110	10/25/2024
Sample ID: Turbidity	CCV2	NTU	9.487	10	95	90-110	10/25/2024

Initial and Continuing Calibration Verification

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Project: Ansonia Landfill 2024

RunNo.: LB133123

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV						
pH		pH	7.00	7	100	90-110	10/25/2024
Sample ID:	CCV1						
pH		pH	2.01	2.00	101	90-110	10/25/2024
Sample ID:	CCV2						
pH		pH	12.02	12.00	100	90-110	10/25/2024

Initial and Continuing Calibration Verification

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Project: Ansonia Landfill 2024

RunNo.: LB133173

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 Ammonia as N	mg/L	1.1	1	110	90-110	10/28/2024
Sample ID: CCV1 Ammonia as N	mg/L	0.99	1	99	90-110	10/28/2024
Sample ID: CCV2 Ammonia as N	mg/L	1	1	100	90-110	10/28/2024
Sample ID: CCV3 Ammonia as N	mg/L	1.1	1	110	90-110	10/28/2024
Sample ID: CCV4 Ammonia as N	mg/L	1.1	1	110	90-110	10/28/2024

Initial and Continuing Calibration Verification

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Project: Ansonia Landfill 2024

RunNo.: LB133176

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 TKN	mg/L	5	5	100	90-110	10/28/2024
Sample ID: CCV1 TKN	mg/L	5	5	100	90-110	10/28/2024
Sample ID: CCV2 TKN	mg/L	5.1	5	102	90-110	10/28/2024
Sample ID: CCV3 TKN	mg/L	5.3	5	106	90-110	10/28/2024
Sample ID: CCV4 TKN	mg/L	5.4	5	108	90-110	10/28/2024

Initial and Continuing Calibration Blank Summary

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Project: Ansonia Landfill 2024

RunNo.: LB133119

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	10/16/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	10/16/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	10/16/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	10/16/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	10/16/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	10/16/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	10/16/2024
Sample ID: CCB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	10/25/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	10/25/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	10/25/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	10/25/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	10/25/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	10/25/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	10/25/2024
Sample ID: CCB2							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	10/25/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	10/25/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	10/25/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	10/25/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	10/25/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	10/25/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	10/25/2024
Sample ID: CCB3							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	10/25/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	10/25/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	10/25/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	10/25/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	10/25/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	10/25/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	10/25/2024

Initial and Continuing Calibration Blank Summary

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Project: Ansonia Landfill 2024

RunNo.: LB133120

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB Turbidity	NTU	< 0.5000	0.5000	U	0.075	1.0	10/25/2024
Sample ID: CCB1 Turbidity	NTU	< 0.5000	0.5000	U	0.075	1	10/25/2024
Sample ID: CCB2 Turbidity	NTU	< 0.5000	0.5000	U	0.075	1	10/25/2024

Initial and Continuing Calibration Blank Summary

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Project: Ansonia Landfill 2024

RunNo.: LB133173

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	10/28/2024
Sample ID: CCB1 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	10/28/2024
Sample ID: CCB2 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	10/28/2024
Sample ID: CCB3 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	10/28/2024
Sample ID: CCB4 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	10/28/2024

Initial and Continuing Calibration Blank Summary

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Project: Ansonia Landfill 2024

RunNo.: LB133176

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 TKN	mg/L	< 0.2500	0.2500	U	0.18	0.5	10/28/2024
Sample ID: CCB1 TKN	mg/L	< 0.2500	0.2500	U	0.18	0.5	10/28/2024
Sample ID: CCB2 TKN	mg/L	< 0.2500	0.2500	U	0.18	0.5	10/28/2024
Sample ID: CCB3 TKN	mg/L	< 0.2500	0.2500	U	0.18	0.5	10/28/2024
Sample ID: CCB4 TKN	mg/L	< 0.2500	0.2500	U	0.18	0.5	10/28/2024

Preparation Blank Summary

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Project: Ansonia Landfill 2024

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	LB133119BLW						
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	10/25/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	10/25/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	10/25/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	10/25/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	10/25/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	10/25/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	10/25/2024
Sample ID:	LB133120BL						
Turbidity	NTU	< 0.5000	0.5000	U	0.075	1.0	10/25/2024
Sample ID:	LB133122BL						
BOD5	mg/L	< 0.2000	0.2000	U	0.17	2.0	10/25/2024
Sample ID:	LB133165BL						
TSS	mg/L	< 2.0000	2.0000	U	1	4	10/28/2024
Sample ID:	LB133166BL						
TDS	mg/L	< 5.0000	5.0000	U	1.0	10	10/25/2024
Sample ID:	LB133279BLW						
Alkalinity	mg/L	< 1.0000	1.0000	U	1	2	11/04/2024
Sample ID:	PB164383BL						
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	10/28/2024
Sample ID:	PB164408BL						
TKN	mg/L	< 0.2500	0.2500	U	0.18	0.5	10/28/2024

Matrix Spike Summary

Client:	Lockwood, Kessler & Bartlett, Inc.	SDG No.:	P4548
Project:	Ansonia Landfill 2024	Sample ID:	P4548-01
Client ID:	MW-1MS	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	9.90		0.034	U	10	1	99		10/25/2024
Ammonia as N	mg/L	75-125	0.98		0.045	U	1	1	98		10/28/2024
Chloride	mg/L	80-120	143	OR	146	OR	3	1	-100	*	10/25/2024
Fluoride	mg/L	80-120	2.10		0.13	J	2	1	98		10/25/2024
TKN	mg/L	75-125	4.80		0.18	U	5	1	96		10/28/2024
Nitrite	mg/L	80-120	3.00		0.011	U	3	1	100		10/25/2024
Nitrate	mg/L	80-120	3.80		1.30		2.5	1	100		10/25/2024
Sulfate	mg/L	80-120	45.2	OR	31.6		15	1	91		10/25/2024
Orthophosphate as P	mg/L	80-120	4.80		0.079	U	5	1	96		10/25/2024

Matrix Spike Summary

Client:	Lockwood, Kessler & Bartlett, Inc.	SDG No.:	P4548
Project:	Ansonia Landfill 2024	Sample ID:	P4548-01
Client ID:	MW-1MSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	9.40		0.034	U	10	1	94		10/25/2024
Ammonia as N	mg/L	75-125	0.99		0.045	U	1	1	99		10/28/2024
Chloride	mg/L	80-120	143	OR	146	OR	3	1	-100	*	10/25/2024
Fluoride	mg/L	80-120	2.00		0.13	J	2	1	94		10/25/2024
TKN	mg/L	75-125	4.80		0.18	U	5	1	96		10/28/2024
Nitrite	mg/L	80-120	2.80		0.011	U	3	1	93		10/25/2024
Nitrate	mg/L	80-120	3.60		1.30		2.5	1	92		10/25/2024
Sulfate	mg/L	80-120	44.7	OR	31.6		15	1	87		10/25/2024
Orthophosphate as P	mg/L	80-120	4.50		0.079	U	5	1	90		10/25/2024

Duplicate Sample Summary

Client:	Lockwood, Kessler & Bartlett, Inc.	SDG No.:	P4548
Project:	Ansonia Landfill 2024	Sample ID:	P4548-01
Client ID:	MW-1DUP	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Turbidity	NTU	+/-20	0.38	J	0.38	J	1	1.59		10/25/2024
BOD5	mg/L	+/-20	0.17	U	0.17	U	1	0		10/25/2024
Ammonia as N	mg/L	+/-20	0.045	U	0.045	U	1	0		10/28/2024
TKN	mg/L	+/-20	0.18	U	0.18	U	1	0		10/28/2024
Alkalinity	mg/L	+/-20	49.5		48.7		1	2		11/04/2024

Duplicate Sample Summary

Client:	Lockwood, Kessler & Bartlett, Inc.	SDG No.:	P4548
Project:	Ansonia Landfill 2024	Sample ID:	P4548-01
Client ID:	MW-1MSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Chloride	mg/L	+/-20	143	OR	143	OR	1	0		10/25/2024
Sulfate	mg/L	+/-20	45.2	OR	44.7	OR	1	1		10/25/2024
Bromide	mg/L	+/-20	9.90		9.40		1	5		10/25/2024
Fluoride	mg/L	+/-20	2.10		2.00		1	5		10/25/2024
Nitrate	mg/L	+/-20	3.80		3.60		1	5		10/25/2024
Orthophosphate as P	mg/L	+/-20	4.80		4.50		1	6		10/25/2024
Nitrite	mg/L	+/-20	3.00		2.80		1	7		10/25/2024
Ammonia as N	mg/L	+/-20	0.98		0.99		1	1		10/28/2024
TKN	mg/L	+/-20	4.80		4.80		1	0		10/28/2024

Duplicate Sample Summary

Client:	Lockwood, Kessler & Bartlett, Inc.	SDG No.:	P4548
Project:	Ansonia Landfill 2024	Sample ID:	P4548-07
Client ID:	MW-4DUP	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
TSS	mg/L	+/-5	5.60		5.70		1	1.77		10/28/2024
TDS	mg/L	+/-5	822		840		1	2.17		10/25/2024

Duplicate Sample Summary

Client:	Lockwood, Kessler & Bartlett, Inc.	SDG No.:	P4548
Project:	Ansonia Landfill 2024	Sample ID:	P4549-04
Client ID:	TT-069-IDWGW-20241024DUP	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
pH	pH	+/-20	7.28		7.29		1	0.14		10/25/2024

Laboratory Control Sample Summary

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Project: Ansonia Landfill 2024

Run No.: LB133119

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133119BSW							
Bromide	mg/L	10	10.6		106	1	90-110	10/25/2024
Chloride	mg/L	3	3.20		107	1	90-110	10/25/2024
Fluoride	mg/L	2	2.10		105	1	90-110	10/25/2024
Nitrite	mg/L	3	3.20		107	1	90-110	10/25/2024
Nitrate	mg/L	2.5	2.60		104	1	90-110	10/25/2024
Sulfate	mg/L	15	15.9		106	1	90-110	10/25/2024
Orthophosphate as P	mg/L	5	5.40		108	1	90-110	10/25/2024

Laboratory Control Sample Summary

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Project: Ansonia Landfill 2024

Run No.: LB133122

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133122BS							
BOD5	mg/L	198	182		92	1	84.6-115.4	10/25/2024

Laboratory Control Sample Summary

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Project: Ansonia Landfill 2024

Run No.: LB133165

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133165BS							
TSS	mg/L	550	520		94	1	90-110	10/28/2024

Laboratory Control Sample Summary

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Project: Ansonia Landfill 2024

Run No.: LB133166

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133166BS							
TDS	mg/L	100	94.0		94	1	90-110	10/25/2024

Laboratory Control Sample Summary

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Project: Ansonia Landfill 2024

Run No.: LB133279

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133279BSW							
Alkalinity	mg/L	50	46.0		92	1	80-120	11/04/2024

Laboratory Control Sample Summary

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Project: Ansonia Landfill 2024

Run No.: LB133173

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB164383BS							
Ammonia as N	mg/L	1	1.00		100	1	90-110	10/28/2024

Laboratory Control Sample Summary

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Project: Ansonia Landfill 2024

Run No.: LB133176

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB164408BS							
TKN	mg/L	5	4.90		98	1	90-110	10/28/2024



RAW DATA

Instrument IC-1		Analyst: NF		Method: 300.0 / 9056A		Initial v 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	IC1-101624	10/16/2024 10:55	10 NF/IZ
STD2	0.424	0.632	0.639	2.106	0.535	1.072	3.276	IC1-101624	10/16/2024 11:17	10 NF/IZ
STD3	0.796	1.206	1.205	4.013	1	2	6.052	IC1-101624	10/16/2024 11:38	10 NF/IZ
STD4	1.032	1.537	1.531	5.116	1.277	2.557	7.662	IC1-101624	10/16/2024 11:59	10 NF/IZ
STD5	1.966	2.927	2.921	9.77	2.439	4.871	14.51	IC1-101624	10/16/2024 12:21	10 NF/IZ
STD6	3.88	5.901	5.91	19.683	4.912	9.831	29.286	IC1-101624	10/16/2024 12:42	10 NF/IZ
STD7	5.102	7.598	7.593	25.312	6.337	12.67	37.714	IC1-101624	10/16/2024 13:04	10 NF/IZ
ICV	1.966	2.997	3	9.969	2.497	4.753	14.85	IC1-101624	10/16/2024 13:37	10 NF/IZ
ICB	0	0	0	0	0	0	0	IC1-101624	10/16/2024 13:59	10 NF/IZ
CCV	2.114	3.19	3.145	10.546	2.631	5.247	15.709	IC1-101624	10/25/2024 8:31	10 NF/IZ
CCB	0	0	0	0	0	0	0	IC1-101624	10/25/2024 8:52	10 NF/IZ
LB133119BLW	0	0	0	0	0	0	0	IC1-101624	10/25/2024 9:14	10 NF/IZ
P4548-01	0.131	146.327	0	0	1.326	0	31.583	IC1-101624	10/25/2024 9:35	10 NF/IZ
P4548-01MS	2.087	142.761	2.967	9.935	3.751	4.794	45.212	IC1-101624	10/25/2024 9:57	10 NF/IZ
P4548-01MSD	1.959	143.068	2.808	9.413	3.621	4.522	44.729	IC1-101624	10/25/2024 10:18	10 NF/IZ
P4548-05	0.227	329.551	0	0.379	2.152	0	15.243	IC1-101624	10/25/2024 10:40	10 NF/IZ
P4548-07	0.227	330.575	0	0.351	2.192	0	15.264	IC1-101624	10/25/2024 11:02	10 NF/IZ
P4548-03	0.242	524.108	0	0.498	0.088	0	41.781	IC1-101624	10/25/2024 11:23	10 NF/IZ
LB133119BSW	2.123	3.195	3.154	10.561	2.616	5.356	15.897	IC1-101624	10/25/2024 11:45	10 NF/IZ
P4548-01DLX50	0	2.208	0	0	0.085	0	1.025	IC1-101624	10/25/2024 12:06	10 NF/IZ
P4548-03DLX100	0	3.504	0	0	0	0	0.835	IC1-101624	10/25/2024 12:28	10 NF/IZ
CCV	2.122	3.203	3.172	10.582	2.631	5.29	15.739	IC1-101624	10/25/2024 12:49	10 NF/IZ
CCB	0	0	0	0	0	0	0	IC1-101624	10/25/2024 13:11	10 NF/IZ
P4548-05DLX100	0	2.297	0	0	0	0	0.592	IC1-101624	10/25/2024 13:32	10 NF/IZ
P4548-07DLX100	0	2.376	0	0	0	0	0.618	IC1-101624	10/25/2024 13:54	10 NF/IZ
P4548-03DL2X2	0.14	246.521	0	0.335	0	0	20.614	IC1-101624	10/25/2024 14:15	10 NF/IZ
CCV	2.109	3.209	3.174	10.62	2.632	5.295	15.824	IC1-101624	10/25/2024 14:37	10 NF/IZ
CCB	0	0	0	0	0	0	0	IC1-101624	10/25/2024 14:58	10 NF/IZ

Clear table

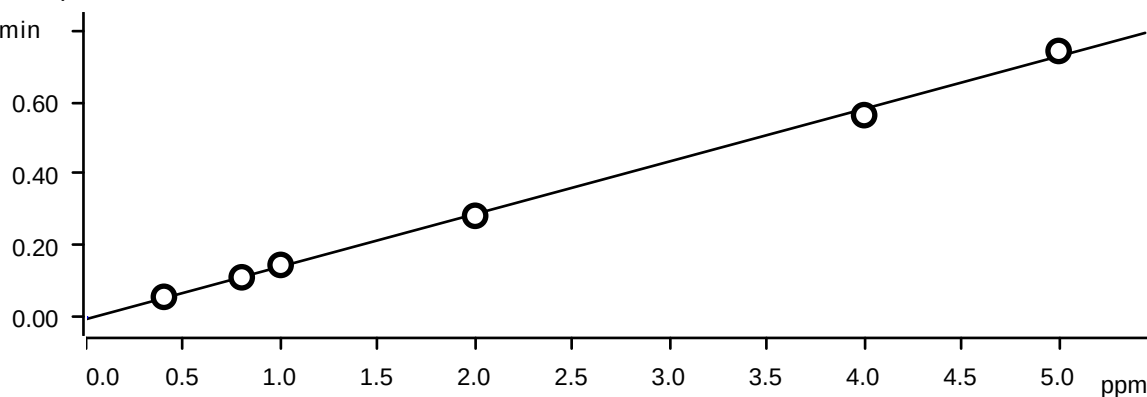
Instrument ID: IC-2 Analyst : IZ Method: 300.0 / 9056A

ident	concentra tion F-	concentratio n CL-	concentrati on NO2	concentrati on BR-	concentrati on NO3	concentratio n HPO4	concentrati on SO4	file name	date time	Initial wt/ Final	Analyst
STD1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	IC1-101624	10/16/2024 10:55	10	NF/IZ
STD2	0.424	0.632	0.639	2.106	0.535	1.072	3.276	IC1-101624	10/16/2024 11:17	10	NF/IZ
STD3	0.796	1.206	1.205	4.013	1.000	2.000	6.052	IC1-101624	10/16/2024 11:38	10	NF/IZ
STD4	1.032	1.537	1.531	5.116	1.277	2.557	7.662	IC1-101624	10/16/2024 11:59	10	NF/IZ
STD5	1.966	2.927	2.921	9.77	2.439	4.871	14.51	IC1-101624	10/16/2024 12:21	10	NF/IZ
STD6	3.88	5.901	5.91	19.683	4.912	9.831	29.286	IC1-101624	10/16/2024 12:42	10	NF/IZ
STD7	5.102	7.598	7.593	25.312	6.337	12.67	37.714	IC1-101624	10/16/2024 13:04	10	NF/IZ

ident	True Value F-	True Value CL-	True Value NO2	True Value BR-	True Value NO3	True Value HPO4	True Value SO4
STD1	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
STD3	0.8000	1.2000	1.2000	4.0000	1.0000	2.0000	6.0000
STD4	1.0000	1.5000	1.5000	5.0000	1.2500	2.5000	7.5000
STD5	2.0000	3.0000	3.0000	10.0000	2.5000	5.0000	15.0000
STD6	4.0000	6.0000	6.0000	20.0000	5.0000	10.0000	30.0000
STD7	5.0000	7.5000	7.5000	25.0000	6.2500	12.5000	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							
STD2	6.0000	5.3333	6.5000	5.3000	7.0000	7.2000	9.2000
STD3	-0.5000	0.5000	0.4167	0.3250	0.0000	0.0000	0.8667
STD4	3.2000	2.4667	2.0667	2.3200	2.1600	2.2800	2.1600
STD5	-1.7000	-2.4333	-2.6333	-2.3000	-2.4400	-2.5800	-3.2667
STD6	-3.0000	-1.6500	-1.5000	-1.5850	-1.7600	-1.6900	-2.3800
STD7	2.0400	1.3067	1.2400	1.2480	1.3920	1.3600	1.9297

Fluoride (Anions)

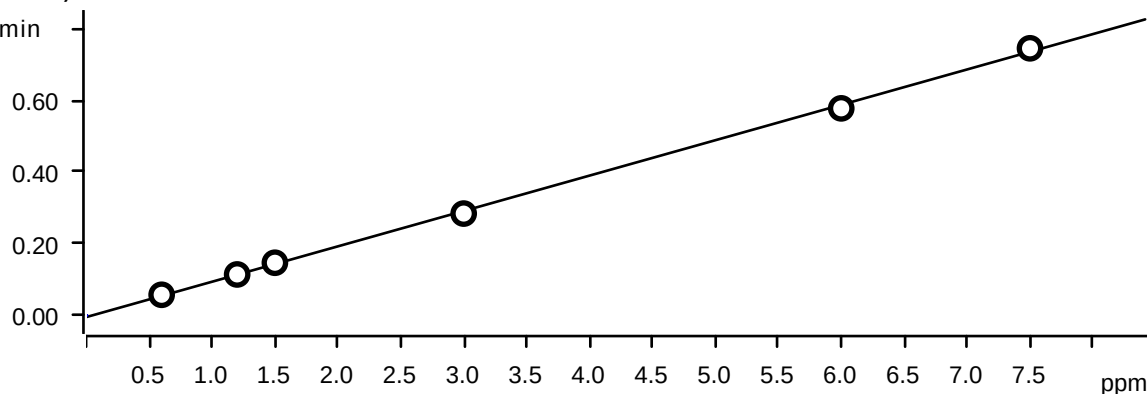
 $(\mu\text{S}/\text{cm}) \times \text{min}$ Function: $A = -5.06114E-3 + 0.0146570 \times Q$

Relative standard deviation 3.824450 %

Correlation coefficient 0.999229

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	2024-10-16 10:55:46 UTC-4	used
Standard 2	1	0.400	10.0	1.0	1.0	0.057	STD2	2024-10-16 11:17:08 UTC-4	used
Standard 3	1	0.800	10.0	1.0	1.0	0.112	STD3	2024-10-16 11:38:32 UTC-4	used
Standard 4	1	1.000	10.0	1.0	1.0	0.146	STD4	2024-10-16 11:59:57 UTC-4	used
Standard 5	1	2.000	10.0	1.0	1.0	0.283	STD5	2024-10-16 12:21:22 UTC-4	used
Standard 6	1	4.000	10.0	1.0	1.0	0.564	STD6	2024-10-16 12:42:48 UTC-4	used
Standard 7	1	5.000	10.0	1.0	1.0	0.743	STD7	2024-10-16 13:04:15 UTC-4	used

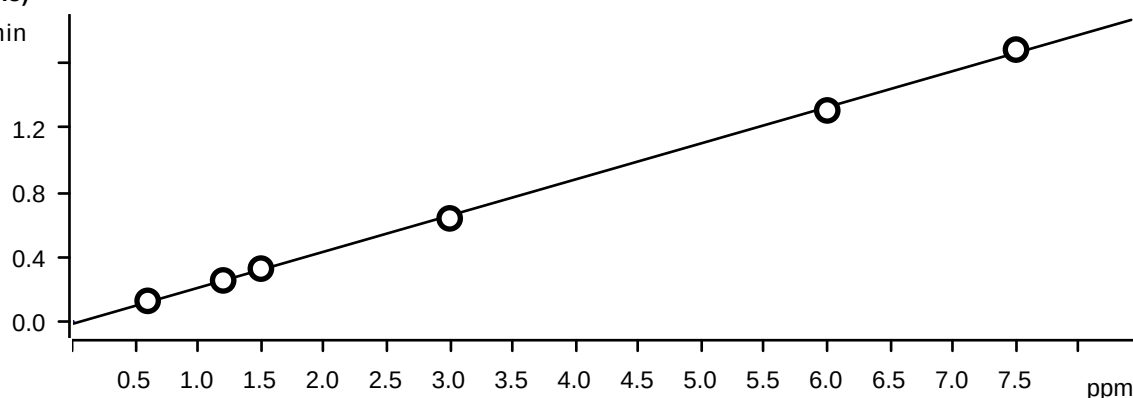
Chloride (Anions)

 $(\mu\text{S}/\text{cm}) \times \text{min}$ Function: $A = -4.66155E-3 + 9.86442E-3 \times Q$

Relative standard deviation 2.532075 %

Correlation coefficient 0.999661

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	2024-10-16 10:55:46 UTC-4	used
Standard 2	1	0.600	10.0	1.0	1.0	0.058	STD2	2024-10-16 11:17:08 UTC-4	used
Standard 3	1	1.200	10.0	1.0	1.0	0.114	STD3	2024-10-16 11:38:32 UTC-4	used
Standard 4	1	1.500	10.0	1.0	1.0	0.147	STD4	2024-10-16 11:59:57 UTC-4	used
Standard 5	1	3.000	10.0	1.0	1.0	0.284	STD5	2024-10-16 12:21:22 UTC-4	used
Standard 6	1	6.000	10.0	1.0	1.0	0.577	STD6	2024-10-16 12:42:48 UTC-4	used
Standard 7	1	7.500	10.0	1.0	1.0	0.745	STD7	2024-10-16 13:04:15 UTC-4	used

Nitrite (Anions) $(\mu\text{S}/\text{cm}) \times \text{min}$ Function: $A = -0.0158639 + 0.0223869 \times Q$

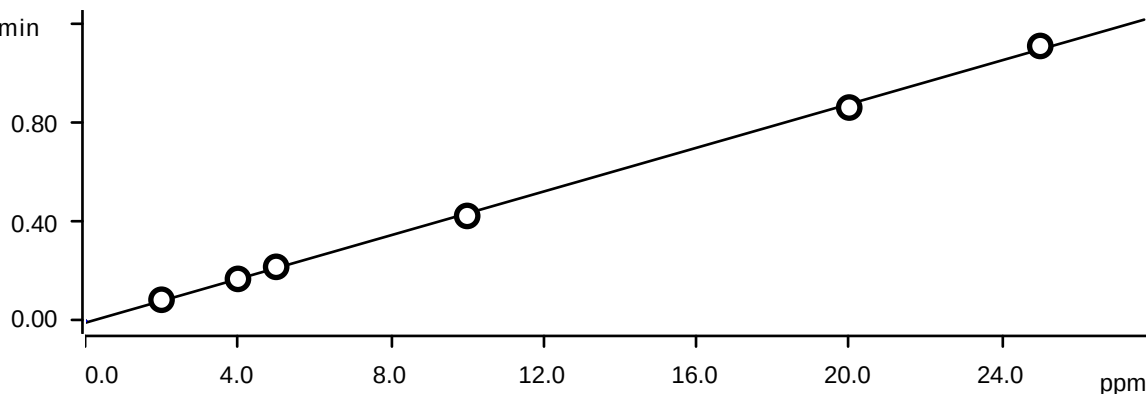
Relative standard deviation 2.476730 %

Correlation coefficient 0.999680

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	2024-10-16 10:55:46 UTC-4	used
Standard 2	1	0.600	10.0	1.0	1.0	0.127	STD2	2024-10-16 11:17:08 UTC-4	used
Standard 3	1	1.200	10.0	1.0	1.0	0.254	STD3	2024-10-16 11:38:32 UTC-4	used
Standard 4	1	1.500	10.0	1.0	1.0	0.327	STD4	2024-10-16 11:59:57 UTC-4	used
Standard 5	1	3.000	10.0	1.0	1.0	0.638	STD5	2024-10-16 12:21:22 UTC-4	used
Standard 6	1	6.000	10.0	1.0	1.0	1.307	STD6	2024-10-16 12:42:48 UTC-4	used
Standard 7	1	7.500	10.0	1.0	1.0	1.684	STD7	2024-10-16 13:04:15 UTC-4	used

Bromide (Anions)

($\mu\text{S}/\text{cm}$) $\times$ min



Function: $A = -7.83486E-3 + 4.40426E-3 \times Q$

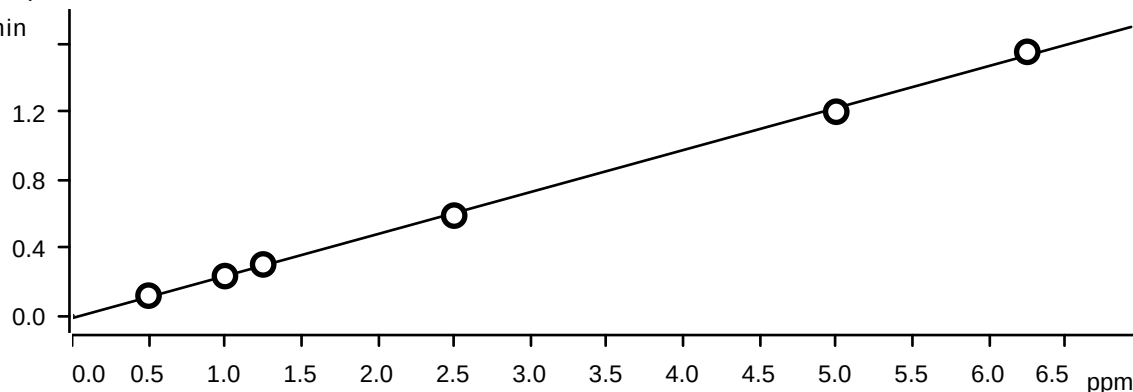
Relative standard deviation 2.425045 %

Correlation coefficient 0.999690

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	2024-10-16 10:55:46 UTC-4	used
Standard 2	1	2.000	10.0	1.0	1.0	0.085	STD2	2024-10-16 11:17:08 UTC-4	used
Standard 3	1	4.000	10.0	1.0	1.0	0.169	STD3	2024-10-16 11:38:32 UTC-4	used
Standard 4	1	5.000	10.0	1.0	1.0	0.217	STD4	2024-10-16 11:59:57 UTC-4	used
Standard 5	1	10.000	10.0	1.0	1.0	0.422	STD5	2024-10-16 12:21:22 UTC-4	used
Standard 6	1	20.000	10.0	1.0	1.0	0.859	STD6	2024-10-16 12:42:48 UTC-4	used
Standard 7	1	25.000	10.0	1.0	1.0	1.107	STD7	2024-10-16 13:04:15 UTC-4	used

Nitrate (Anions)

($\mu\text{S}/\text{cm}$) $\times$ min

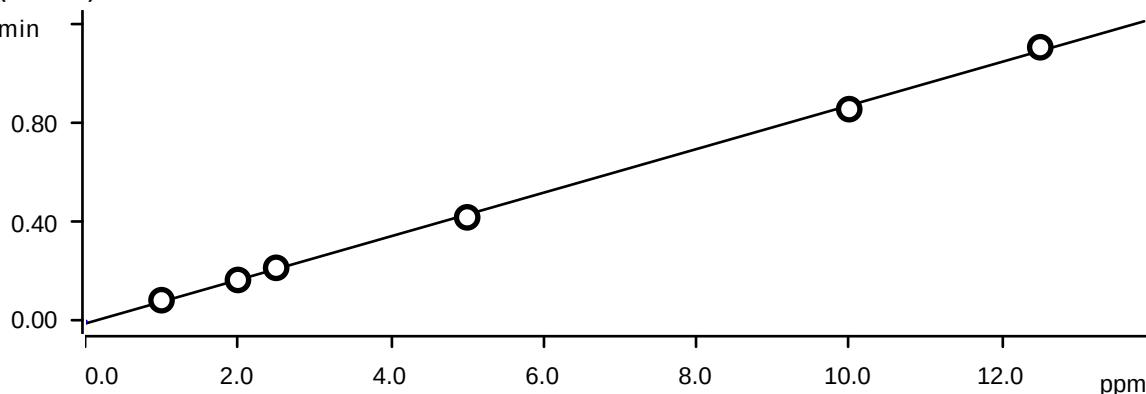


Function: $A = -0.0159932 + 0.0247327 \times Q$

Relative standard deviation 2.693966 %

Correlation coefficient 0.999623

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	2024-10-16 10:55:46 UTC-4	used
Standard 2	1	0.500	10.0	1.0	1.0	0.116	STD2	2024-10-16 11:17:08 UTC-4	used
Standard 3	1	1.000	10.0	1.0	1.0	0.231	STD3	2024-10-16 11:38:32 UTC-4	used
Standard 4	1	1.250	10.0	1.0	1.0	0.300	STD4	2024-10-16 11:59:57 UTC-4	used
Standard 5	1	2.500	10.0	1.0	1.0	0.587	STD5	2024-10-16 12:21:22 UTC-4	used
Standard 6	1	5.000	10.0	1.0	1.0	1.199	STD6	2024-10-16 12:42:48 UTC-4	used
Standard 7	1	6.250	10.0	1.0	1.0	1.551	STD7	2024-10-16 13:04:15 UTC-4	used

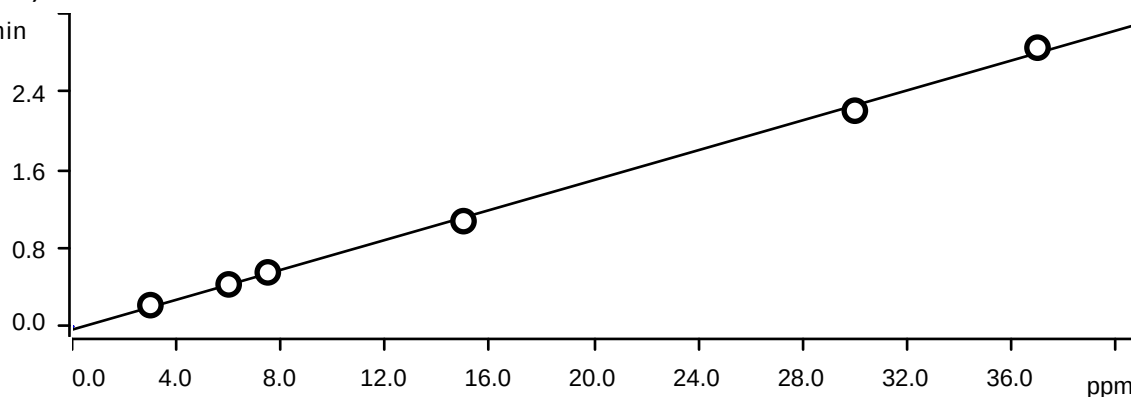
Phosphate (Anions) $(\mu\text{S}/\text{cm}) \times \text{min}$ Function: $A = -9.96170E-3 + 8.78405E-3 \times Q$

Relative standard deviation 2.667639 %

Correlation coefficient 0.999628

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	2024-10-16 10:55:46 UTC-4	used
Standard 2	1	1.000	10.0	1.0	1.0	0.084	STD2	2024-10-16 11:17:08 UTC-4	used
Standard 3	1	2.000	10.0	1.0	1.0	0.166	STD3	2024-10-16 11:38:32 UTC-4	used
Standard 4	1	2.500	10.0	1.0	1.0	0.215	STD4	2024-10-16 11:59:57 UTC-4	used
Standard 5	1	5.000	10.0	1.0	1.0	0.418	STD5	2024-10-16 12:21:22 UTC-4	used
Standard 6	1	10.000	10.0	1.0	1.0	0.854	STD6	2024-10-16 12:42:48 UTC-4	used
Standard 7	1	12.500	10.0	1.0	1.0	1.103	STD7	2024-10-16 13:04:15 UTC-4	used

Sulfate (Anions)

 $(\mu\text{S}/\text{cm}) \times \text{min}$ Function: $A = -0.0322401 + 7.64234E-3 \times Q$

Relative standard deviation 3.651427 %

Correlation coefficient 0.999303

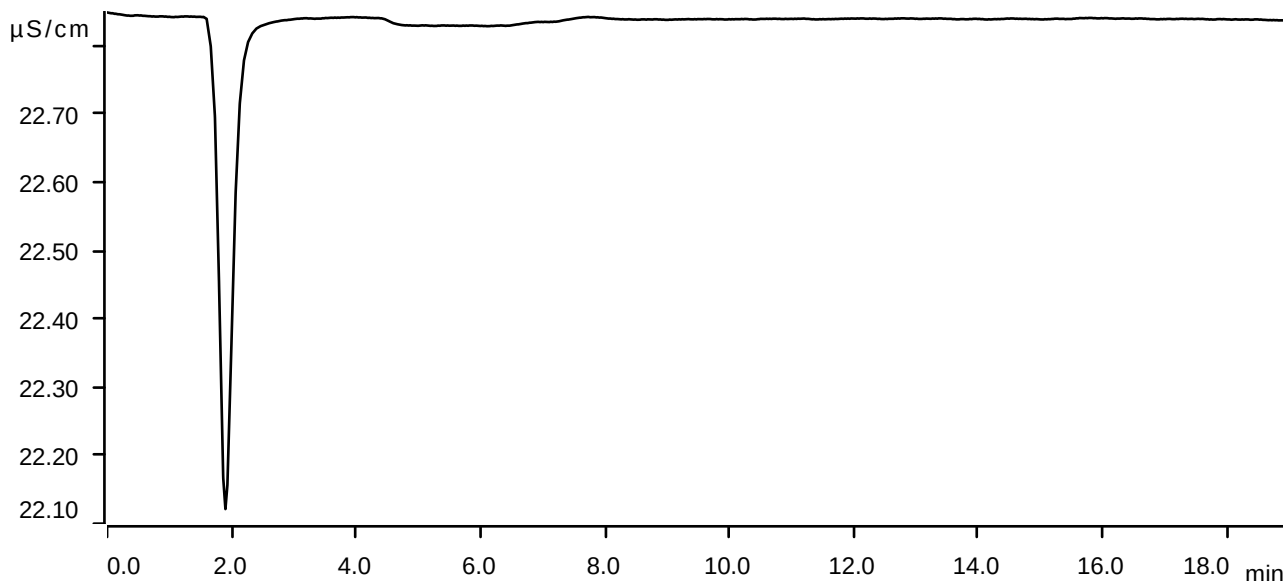
Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date	Used
Standard 1	1	0.000	10.0	1.0	1.0	n. d.	STD1	2024-10-16 10:55:46 UTC-4	used
Standard 2	1	3.000	10.0	1.0	1.0	0.218	STD2	2024-10-16 11:17:08 UTC-4	used
Standard 3	1	6.000	10.0	1.0	1.0	0.430	STD3	2024-10-16 11:38:32 UTC-4	used
Standard 4	1	7.500	10.0	1.0	1.0	0.553	STD4	2024-10-16 11:59:57 UTC-4	used
Standard 5	1	15.000	10.0	1.0	1.0	1.077	STD5	2024-10-16 12:21:22 UTC-4	used
Standard 6	1	30.000	10.0	1.0	1.0	2.206	STD6	2024-10-16 12:42:48 UTC-4	used
Standard 7	1	37.000	10.0	1.0	1.0	2.850	STD7	2024-10-16 13:04:15 UTC-4	used

Sample data

Ident STD1
Sample type Standard 1
Determination start 2024-10-16 10:55:46 UTC-4
Method IC1-101624
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

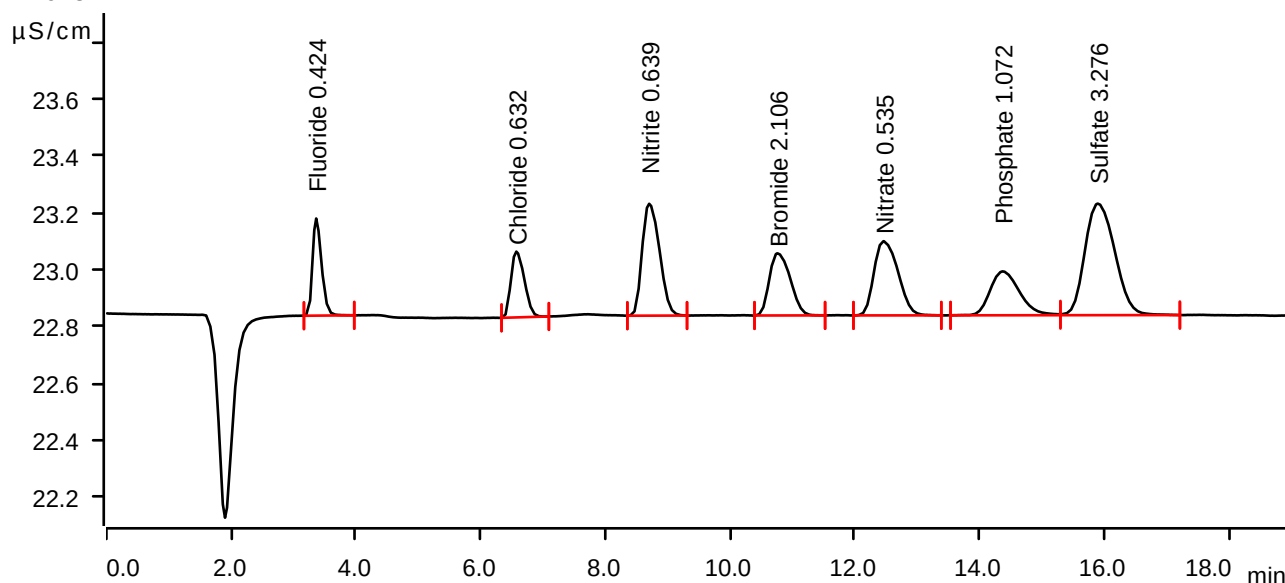
Sample data

Ident STD2
Sample type Standard 2
Determination start 2024-10-16 11:17:08 UTC-4
Method IC1-101624
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 12.56 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	3.365	0.0571	0.341	0.424	Fluoride
2	6.573	0.0576	0.231	0.632	Chloride
3	8.703	0.1273	0.393	0.639	Nitrite
4	10.758	0.0849	0.219	2.106	Bromide
5	12.458	0.1163	0.261	0.535	Nitrate
6	14.368	0.0842	0.154	1.072	Phosphate
7	15.893	0.2181	0.392	3.276	Sulfate

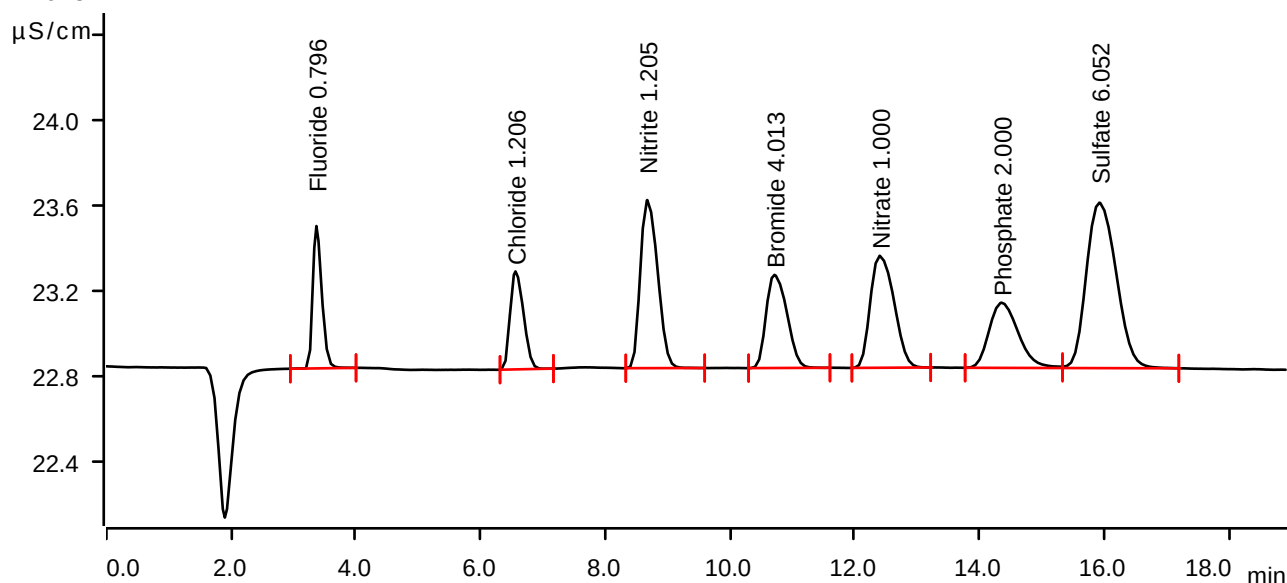
Sample data

Ident STD3
Sample type Standard 3
Determination start 2024-10-16 11:38:32 UTC-4
Method IC1-101624
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	3.368	0.1116	0.667	0.796	Fluoride
2	6.560	0.1143	0.459	1.206	Chloride
3	8.673	0.2538	0.788	1.205	Nitrite
4	10.712	0.1689	0.436	4.013	Bromide
5	12.398	0.2314	0.525	1.000	Nitrate
6	14.353	0.1657	0.305	2.000	Phosphate
7	15.922	0.4302	0.775	6.052	Sulfate

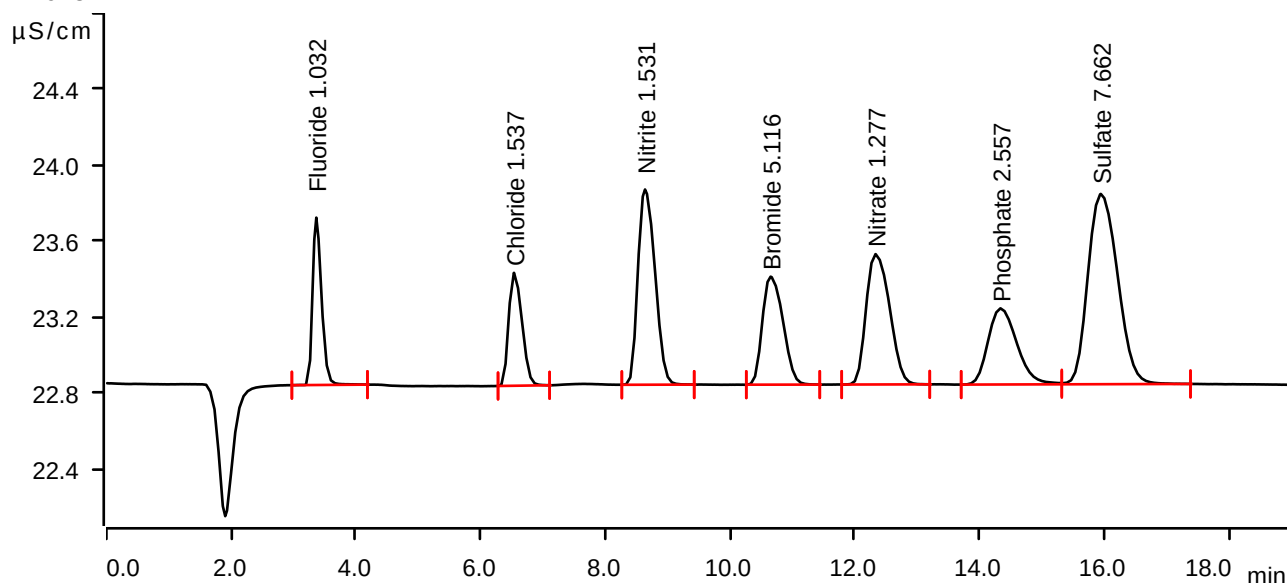
Sample data

Ident STD4
Sample type Standard 4
Determination start 2024-10-16 11:59:57 UTC-4
Method IC1-101624
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	3.367	0.1462	0.882	1.032	Fluoride
2	6.537	0.1469	0.595	1.537	Chloride
3	8.637	0.3270	1.029	1.531	Nitrite
4	10.650	0.2175	0.569	5.116	Bromide
5	12.332	0.2999	0.687	1.277	Nitrate
6	14.337	0.2147	0.401	2.557	Phosphate
7	15.945	0.5533	1.003	7.662	Sulfate

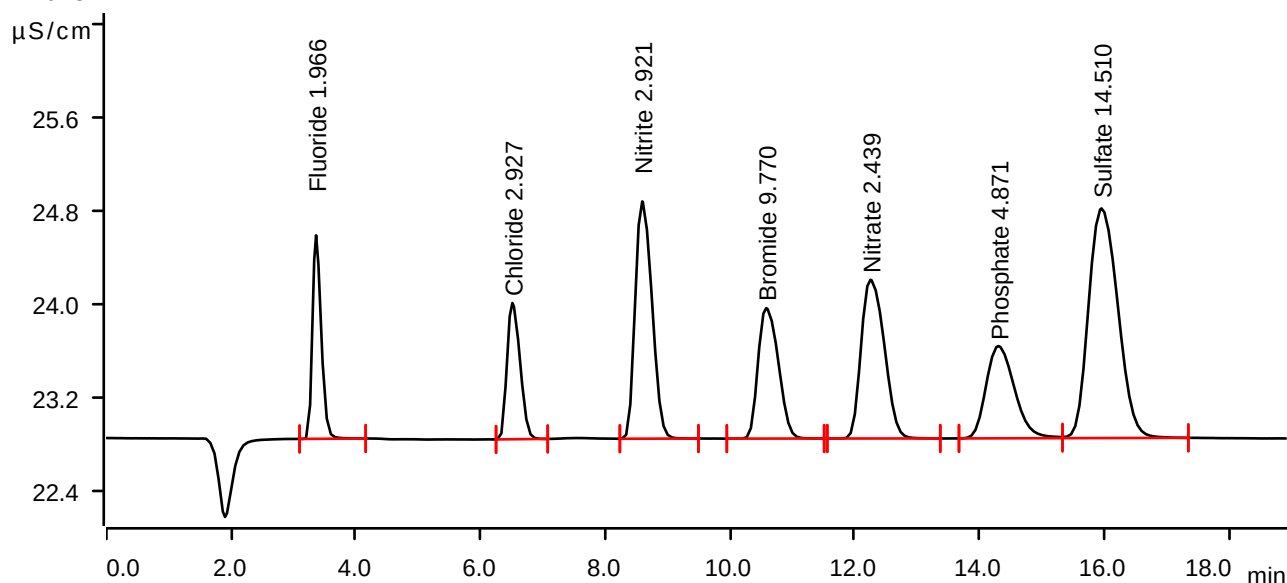
Sample data

Ident STD5
Sample type Standard 5
Determination start 2024-10-16 12:21:22 UTC-4
Method IC1-101624
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 11.99 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	0.2831	1.748	1.966	Fluoride
2	6.510	0.2841	1.170	2.927	Chloride
3	8.592	0.6381	2.038	2.921	Nitrite
4	10.580	0.4225	1.121	9.770	Bromide
5	12.252	0.5873	1.364	2.439	Nitrate
6	14.302	0.4179	0.793	4.871	Phosphate
7	15.955	1.0767	1.972	14.510	Sulfate

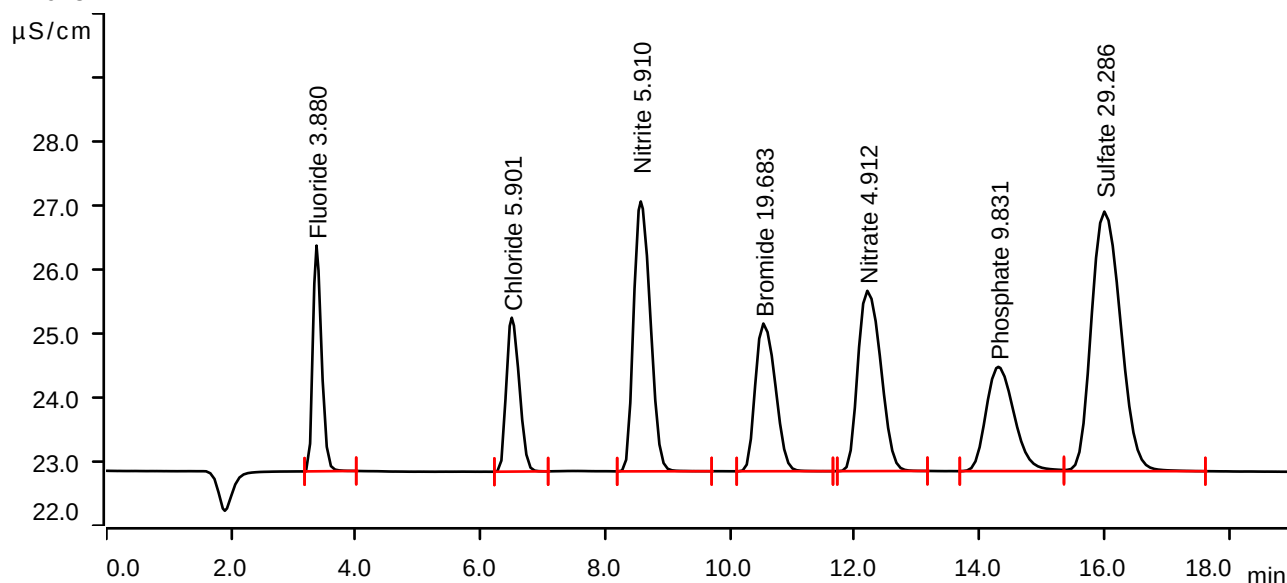
Sample data

Ident STD6
Sample type Standard 6
Determination start 2024-10-16 12:42:48 UTC-4
Method IC1-101624
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 11.88 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	3.370	0.5637	3.525	3.880	Fluoride
2	6.500	0.5774	2.404	5.901	Chloride
3	8.568	1.3072	4.215	5.910	Nitrite
4	10.535	0.8590	2.306	19.683	Bromide
5	12.202	1.1988	2.815	4.912	Nitrate
6	14.302	0.8536	1.629	9.831	Phosphate
7	16.002	2.2059	4.054	29.286	Sulfate

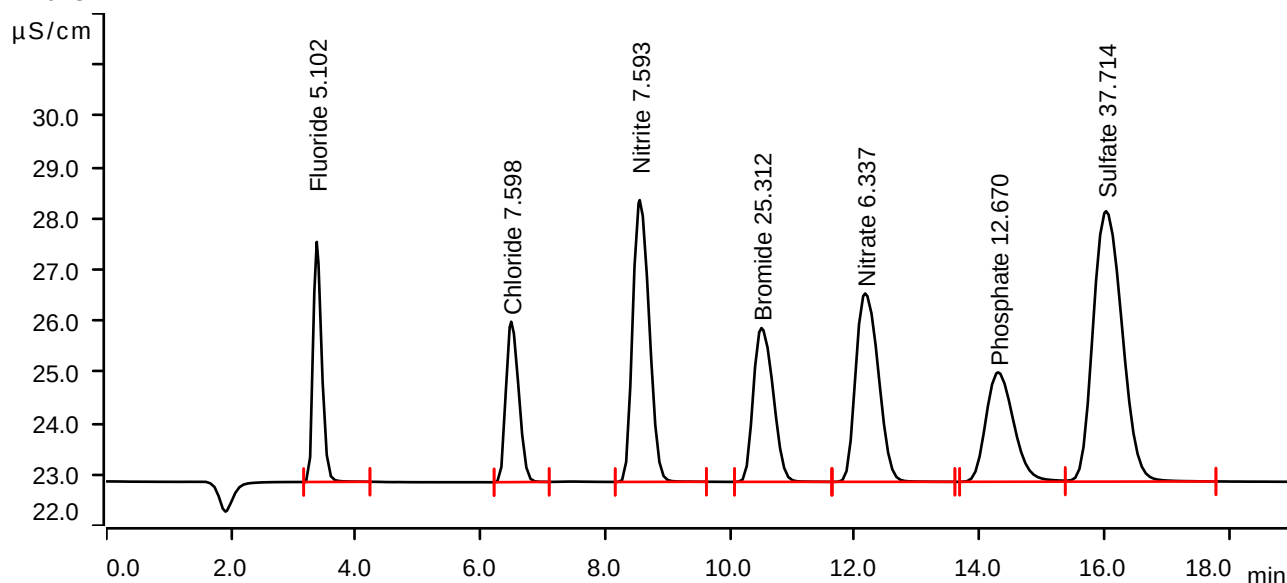
Sample data

Ident STD7
Sample type Standard 7
Determination start 2024-10-16 13:04:15 UTC-4
Method IC1-101624
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 12.73 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	3.373	0.7427	4.687	5.102	Fluoride
2	6.492	0.7448	3.132	7.598	Chloride
3	8.552	1.6841	5.502	7.593	Nitrite
4	10.503	1.1070	3.003	25.312	Bromide
5	12.167	1.5512	3.678	6.337	Nitrate
6	14.297	1.1030	2.137	12.670	Phosphate
7	16.028	2.8500	5.280	37.714	Sulfate

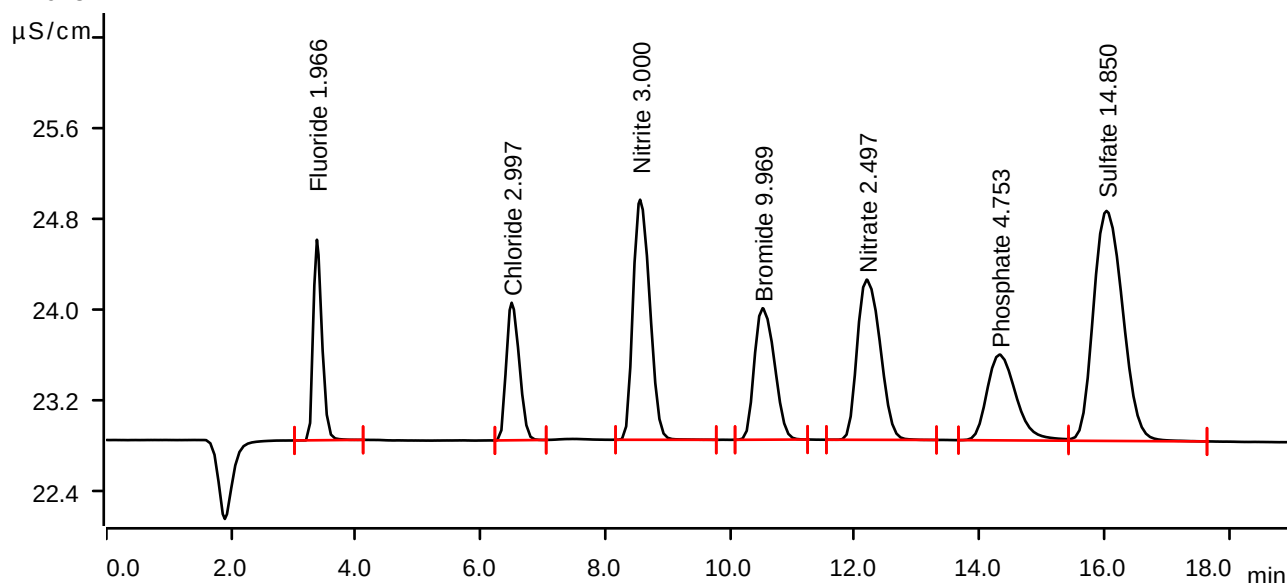
Sample data

Ident ICV
Sample type Check standard 1
Determination start 2024-10-16 13:37:49 UTC-4
Method IC1-101624
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



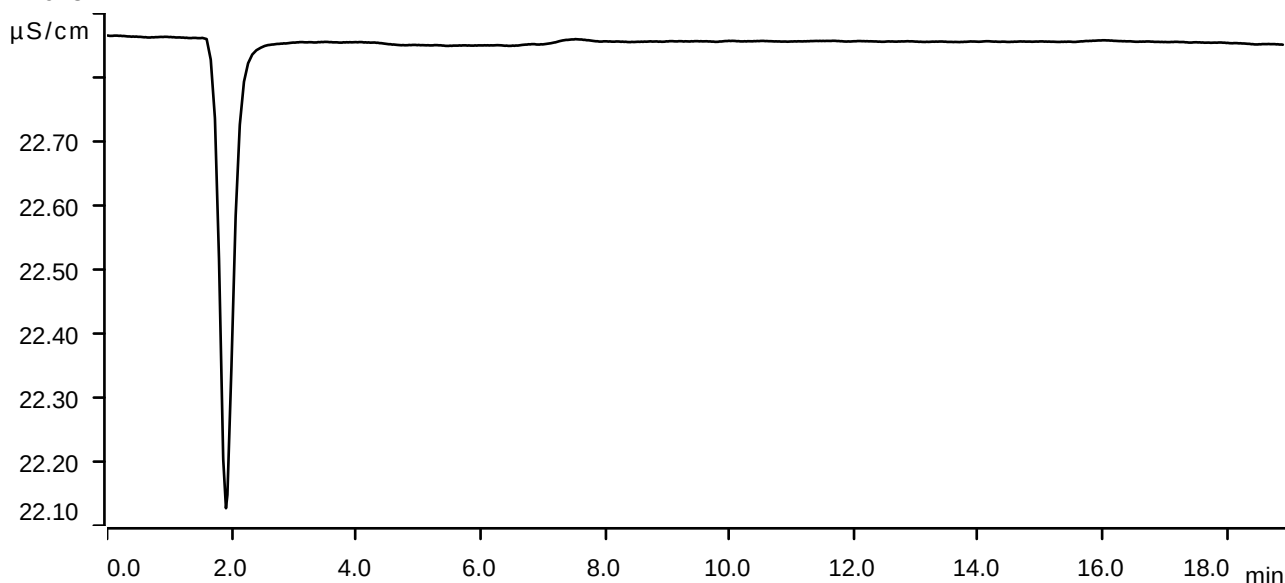
Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.377	0.2830	1.762	1.966	Fluoride
2	6.498	0.2910	1.209	2.997	Chloride
3	8.558	0.6557	2.109	3.000	Nitrite
4	10.522	0.4312	1.155	9.969	Bromide
5	12.190	0.6017	1.407	2.497	Nitrate
6	14.320	0.4076	0.753	4.753	Phosphate
7	16.035	1.1027	2.020	14.850	Sulfate

Sample data

Ident ICB
Sample type Sample
Determination start 2024-10-16 13:59:18 UTC-4
Method IC1-101624
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

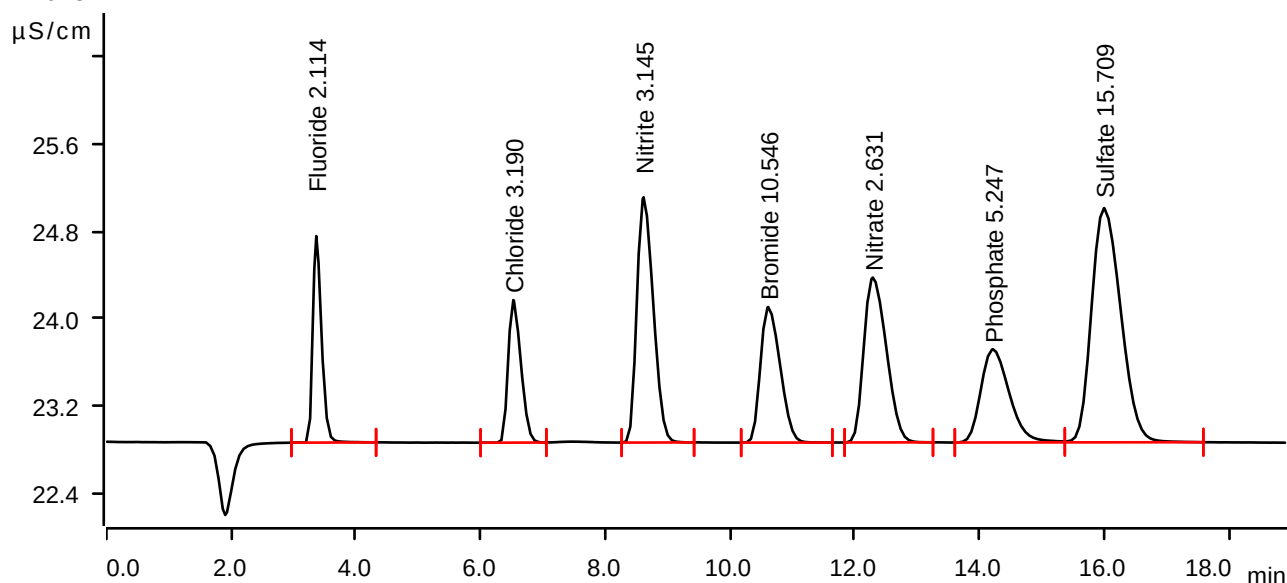
Sample data

Ident CCV
Sample type Check standard 1
Determination start 2024-10-25 08:31:23 UTC-4
Method IC1-101624
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	3.367	0.3048	1.895	2.114	Fluoride
2	6.525	0.3100	1.308	3.190	Chloride
3	8.613	0.6881	2.251	3.145	Nitrite
4	10.612	0.4566	1.244	10.546	Bromide
5	12.288	0.6347	1.513	2.631	Nitrate
6	14.215	0.4509	0.855	5.247	Phosphate
7	15.995	1.1683	2.149	15.709	Sulfate

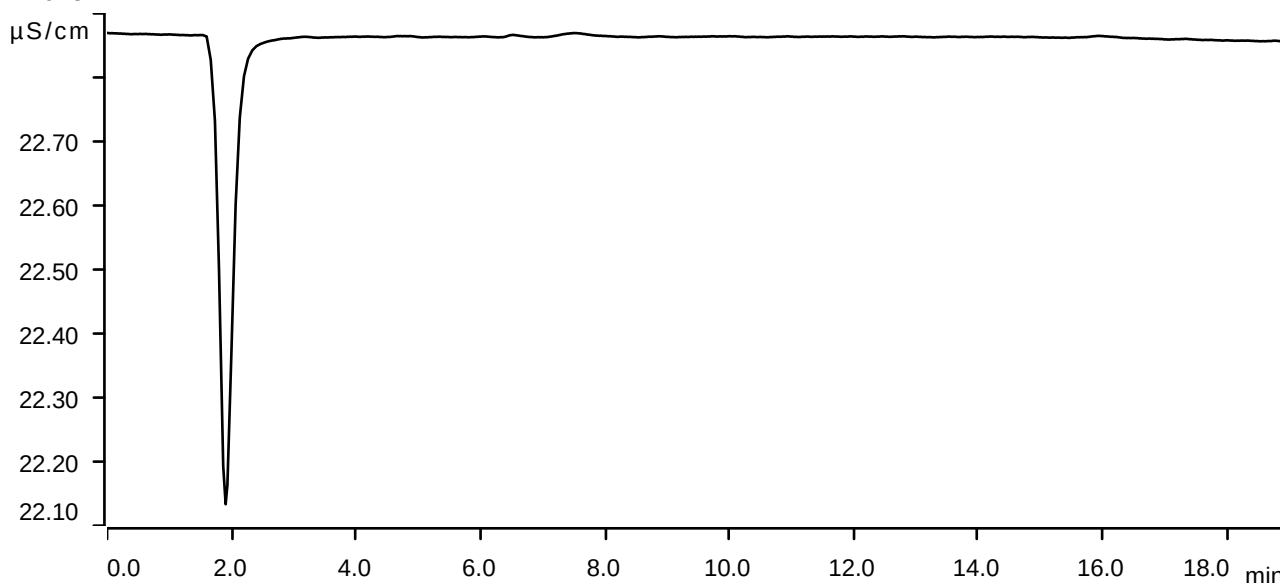
Sample data

Ident CCB
Sample type Sample
Determination start 2024-10-25 08:52:54 UTC-4
Method IC1-101624
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 11.71 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions

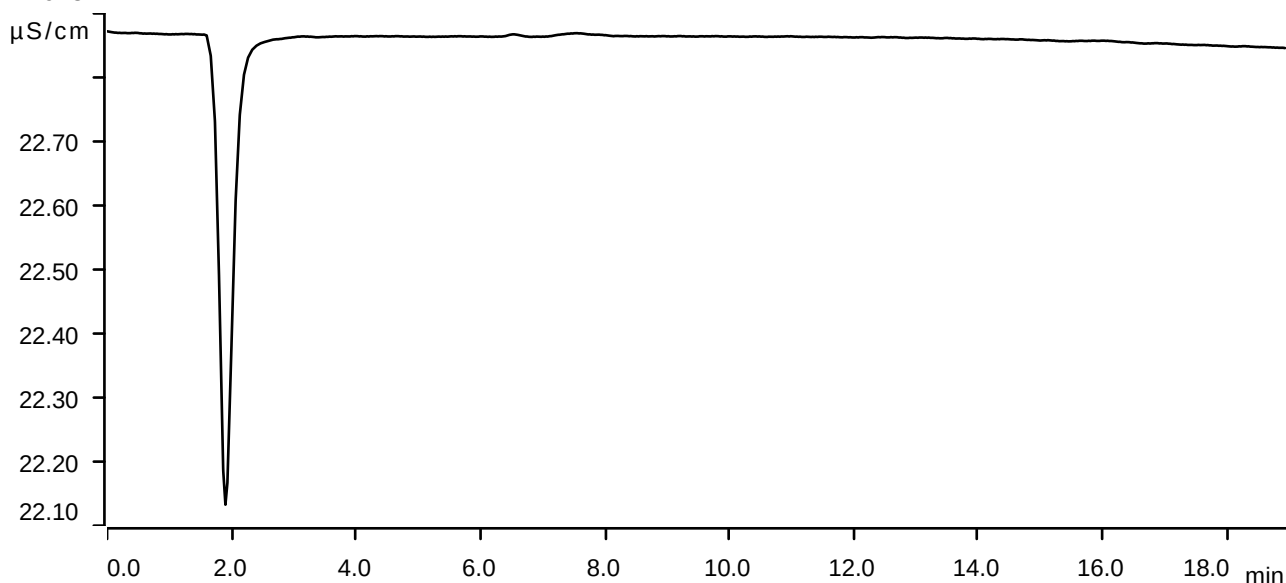


Sample data

Ident LB133119BLW
Sample type Sample
Determination start 2024-10-25 09:14:23 UTC-4
Method IC1-101624
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 11.82 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions

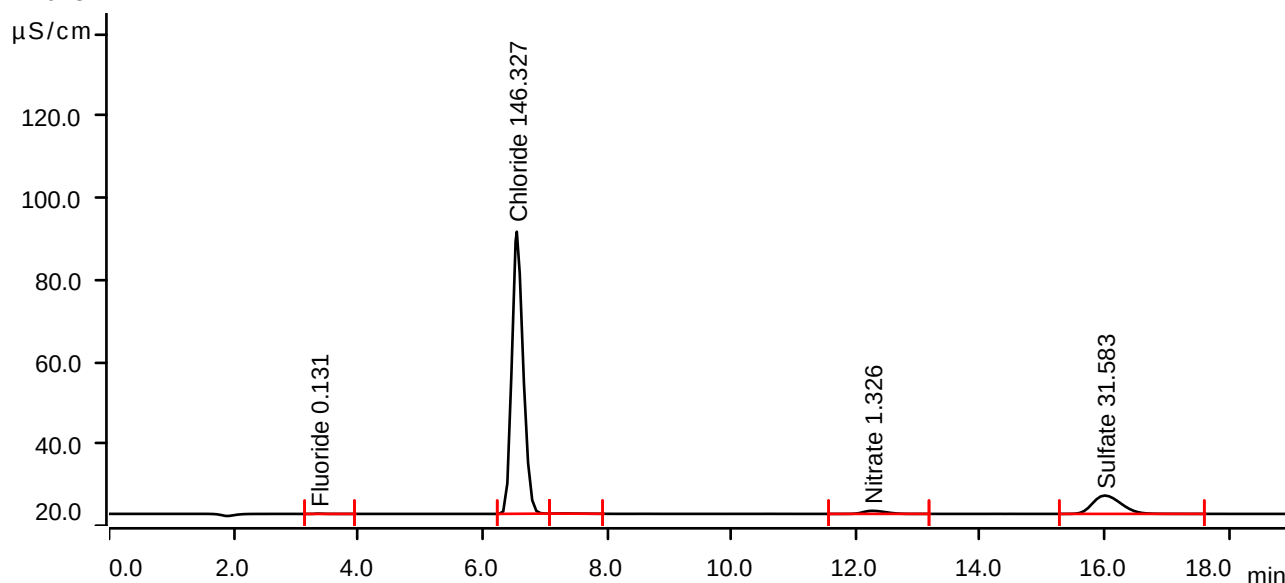
Sample data

Ident P4548-01
Sample type Sample
Determination start 2024-10-25 09:35:54 UTC-4
Method IC1-101624
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 11.82 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	3.365	0.0142	0.076	0.131	Fluoride
2	6.553	14.4296	68.837	146.327	Chloride
3	7.315	0.0190	0.045	invalid	
4	12.263	0.3119	0.755	1.326	Nitrate
5	16.002	2.3814	4.483	31.583	Sulfate

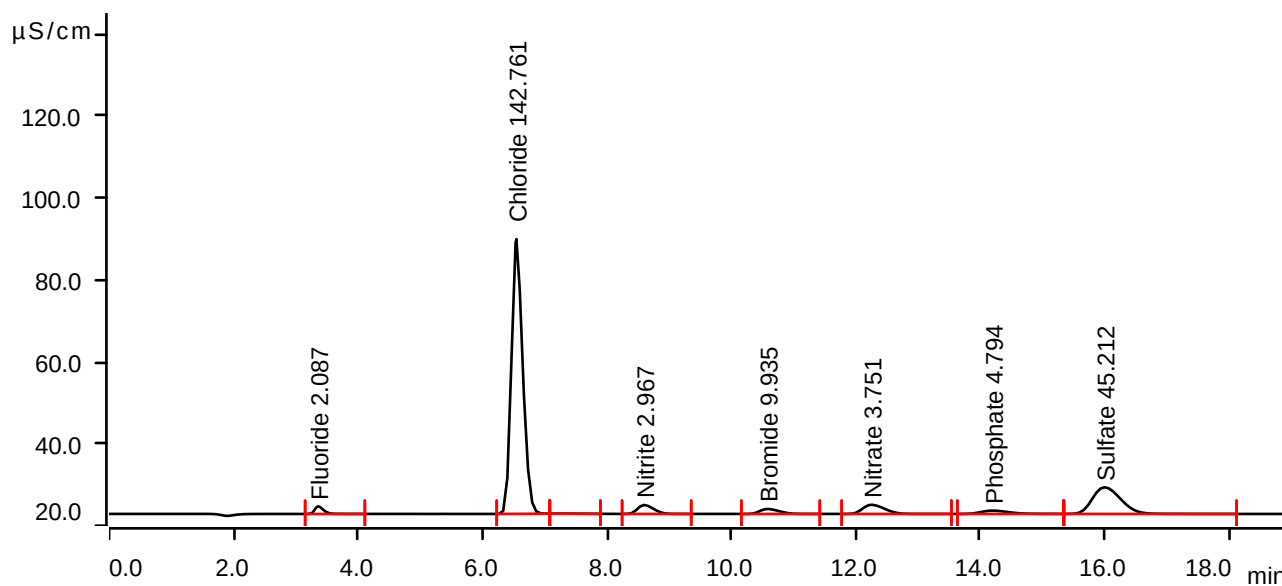
Sample data

Ident P4548-01MS
Sample type Sample
Determination start 2024-10-25 09:57:26 UTC-4
Method IC1-101624
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 12.56 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	3.363	0.3008	1.882	2.087	Fluoride
2	6.547	14.0779	67.042	142.761	Chloride
3	7.312	0.0162	0.039	invalid	
4	8.600	0.6483	2.179	2.967	Nitrite
5	10.583	0.4297	1.198	9.935	Bromide
6	12.252	0.9116	2.225	3.751	Nitrate
7	14.202	0.4111	0.800	4.794	Phosphate
8	15.998	3.4230	6.501	45.212	Sulfate

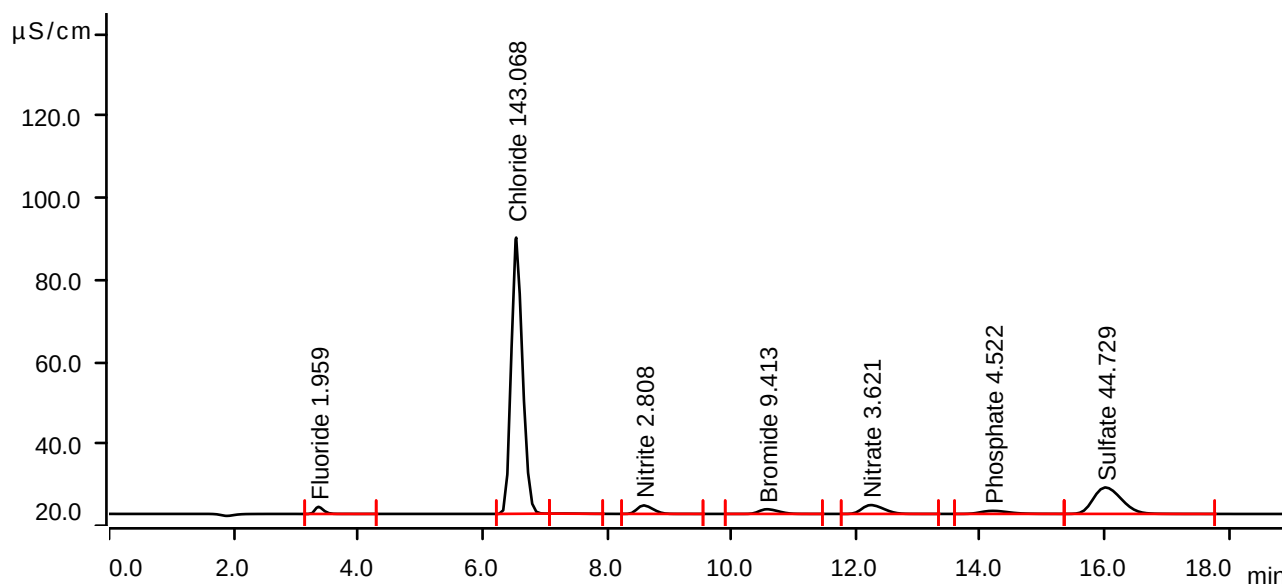
Sample data

Ident P4548-01MSD
Sample type Sample
Determination start 2024-10-25 10:18:59 UTC-4
Method IC1-101624
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	0.2821	1.751	1.959	Fluoride
2	6.543	14.1082	67.411	143.068	Chloride
3	7.300	0.0144	0.035	invalid	
4	8.592	0.6127	2.066	2.808	Nitrite
5	10.573	0.4067	1.139	9.413	Bromide
6	12.243	0.8796	2.158	3.621	Nitrate
7	14.202	0.3872	0.750	4.522	Phosphate
8	16.013	3.3861	6.449	44.729	Sulfate

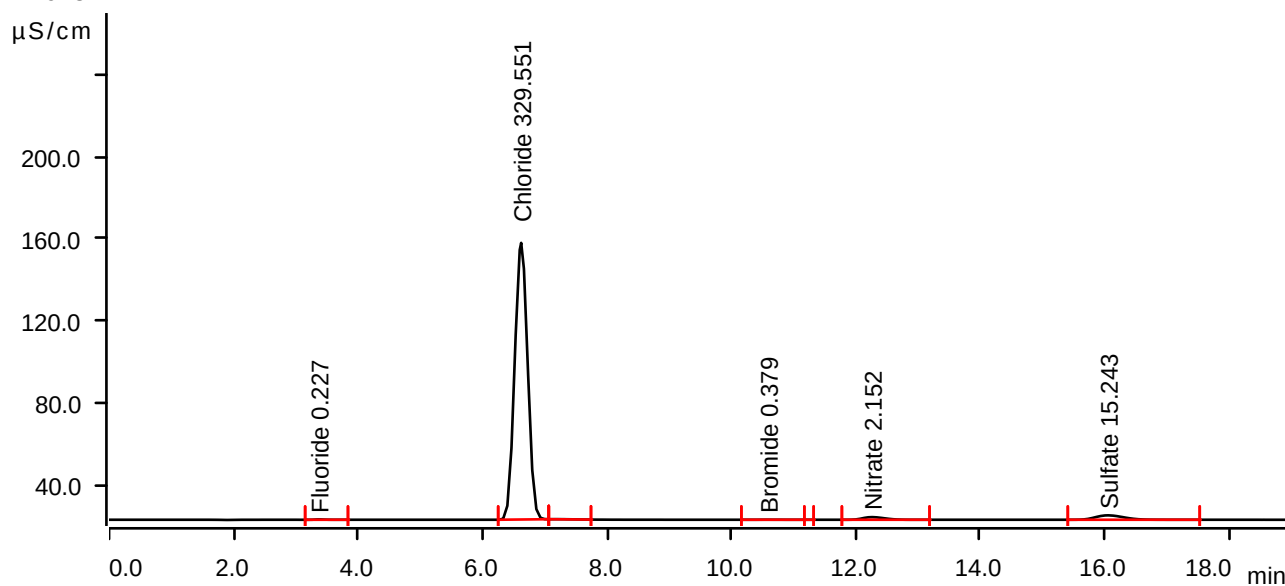
Sample data

Ident P4548-05
Sample type Sample
Determination start 2024-10-25 10:40:33 UTC-4
Method IC1-101624
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 11.77 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	3.368	0.0282	0.170	0.227	Fluoride
2	6.623	32.5037	135.026	329.551	Chloride
3	7.203	0.0239	0.063	invalid	
4	10.587	0.0088	0.023	0.379	Bromide
5	11.190	0.0001	0.001	invalid	
6	12.258	0.5163	1.281	2.152	Nitrate
7	16.050	1.1327	2.151	15.243	Sulfate

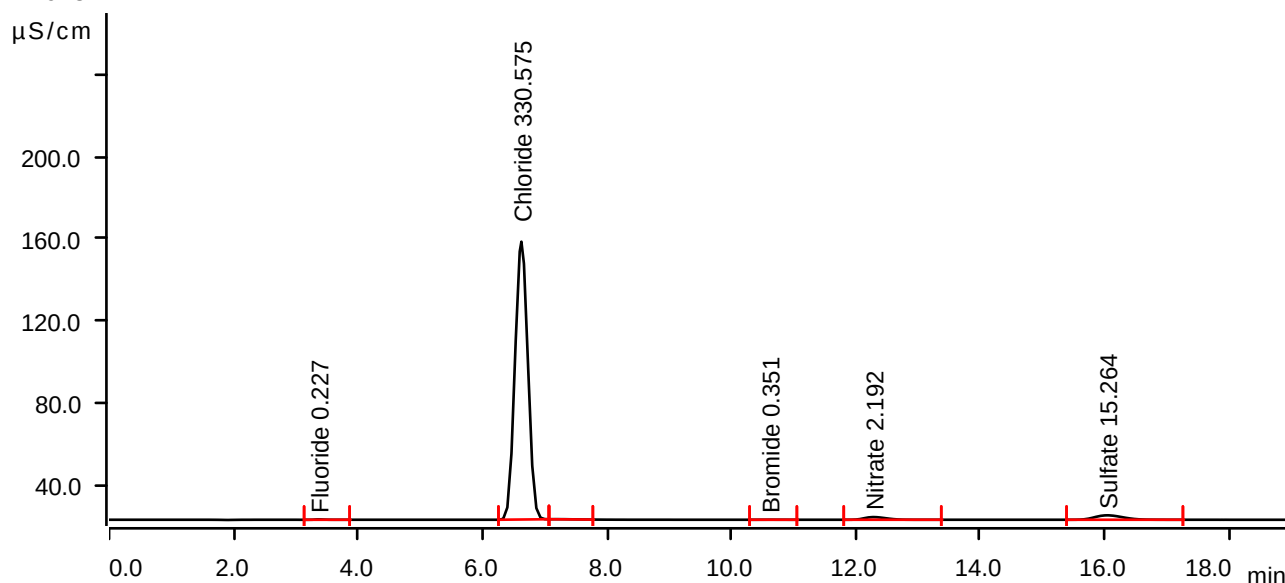
Sample data

Ident P4548-07
Sample type Sample
Determination start 2024-10-25 11:02:07 UTC-4
Method IC1-101624
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 11.77 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	3.365	0.0282	0.170	0.227	Fluoride
2	6.627	32.6047	135.595	330.575	Chloride
3	7.208	0.0252	0.065	invalid	
4	10.615	0.0076	0.022	0.351	Bromide
5	12.283	0.5262	1.300	2.192	Nitrate
6	16.038	1.1343	2.164	15.264	Sulfate

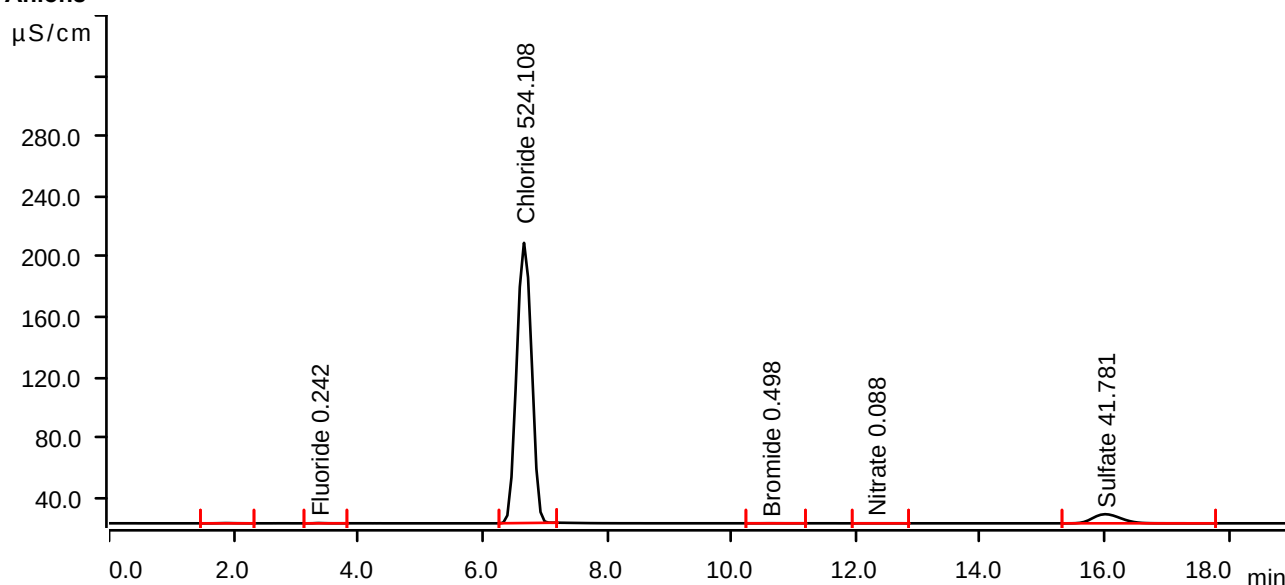
Sample data

Ident P4548-03
Sample type Sample
Determination start 2024-10-25 11:23:41 UTC-4
Method IC1-101624
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 11.77 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	1.878	0.0404	0.150	invalid	
2	3.370	0.0305	0.183	0.242	Fluoride
3	6.670	51.6956	185.961	524.108	Chloride
4	10.627	0.0141	0.039	0.498	Bromide
5	12.315	0.0058	0.014	0.088	Nitrate
6	16.008	3.1608	6.046	41.781	Sulfate

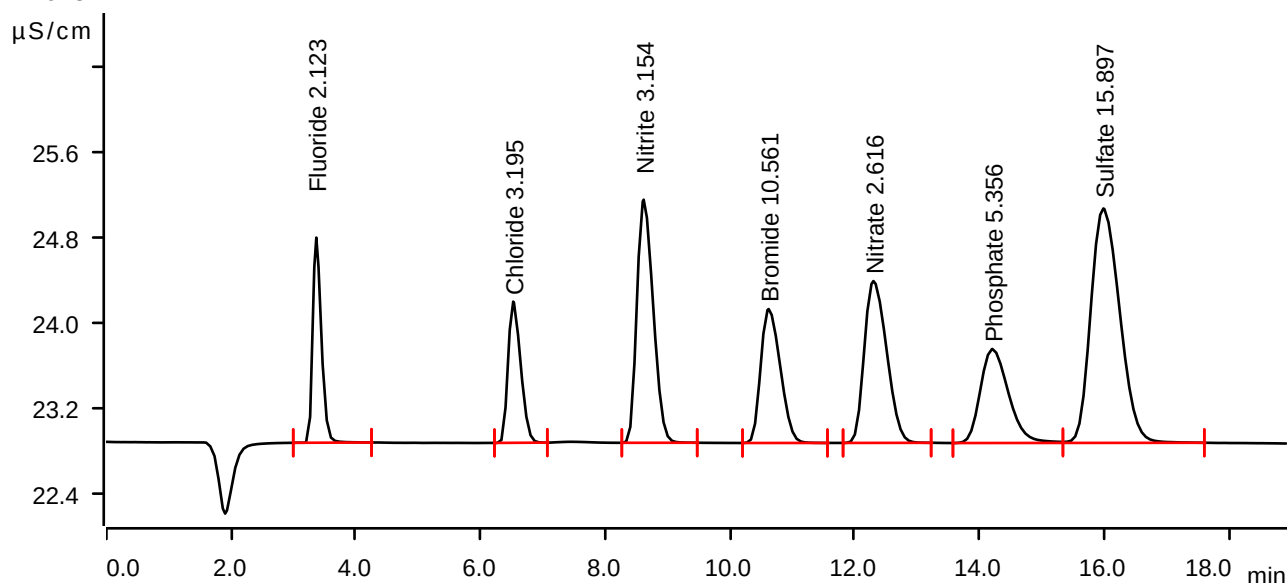
Sample data

Ident LB133119BSW
Sample type Check standard 1
Determination start 2024-10-25 11:45:15 UTC-4
Method IC1-101624
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 11.82 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	0.3061	1.922	2.123	Fluoride
2	6.523	0.3105	1.323	3.195	Chloride
3	8.615	0.6903	2.278	3.154	Nitrite
4	10.618	0.4573	1.256	10.561	Bromide
5	12.298	0.6311	1.516	2.616	Nitrate
6	14.205	0.4605	0.881	5.356	Phosphate
7	15.985	1.1827	2.197	15.897	Sulfate

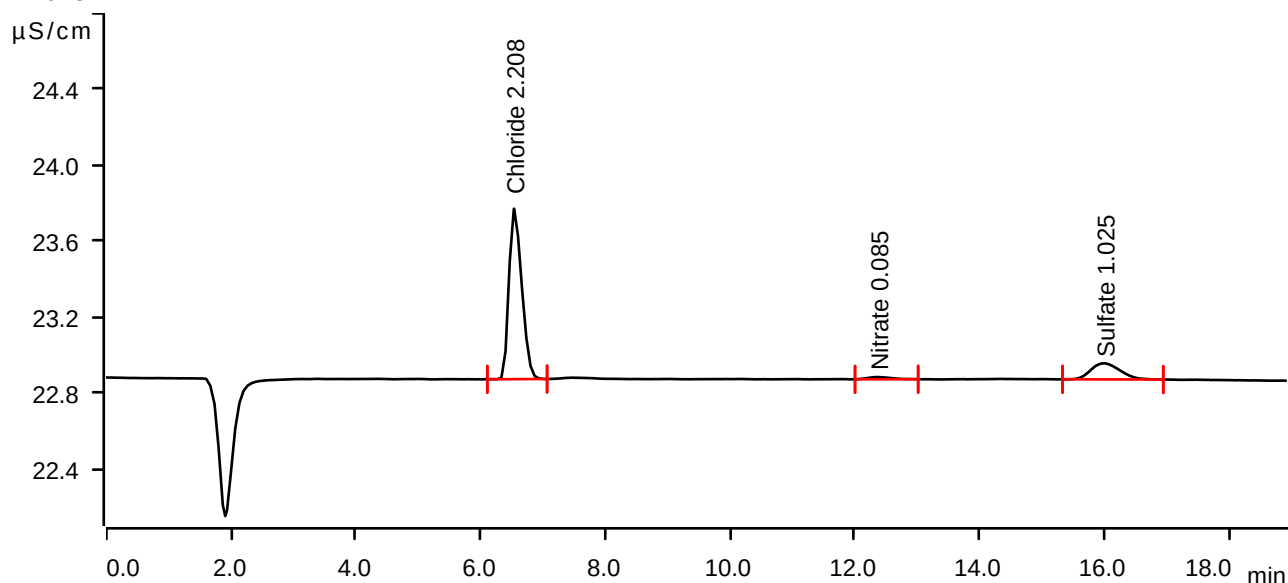
Sample data

Ident P4548-01DLX50
Sample type Sample
Determination start 2024-10-25 12:06:47 UTC-4
Method IC1-101624
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 11.99 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	6.538	0.2131	0.899	2.208	Chloride
2	12.377	0.0049	0.011	0.085	Nitrate
3	16.002	0.0461	0.085	1.025	Sulfate

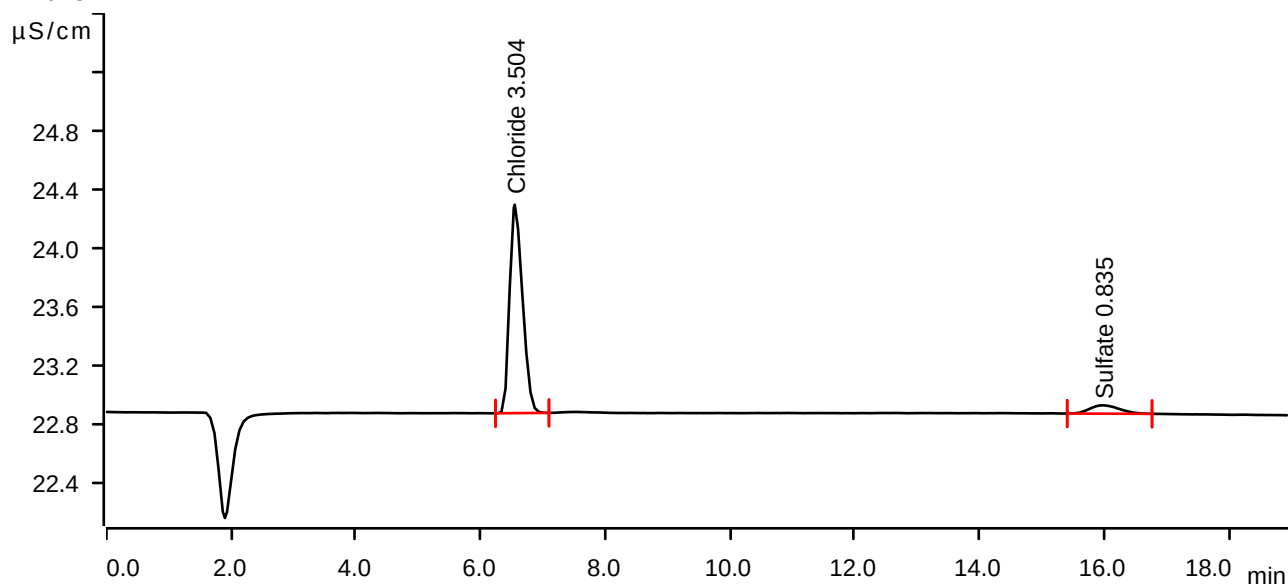
Sample data

Ident P4548-03DLX100
Sample type Sample
Determination start 2024-10-25 12:28:09 UTC-4
Method IC1-101624
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 12.05 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	6.548	0.3410	1.424	3.504	Chloride
2	15.977	0.0316	0.057	0.835	Sulfate

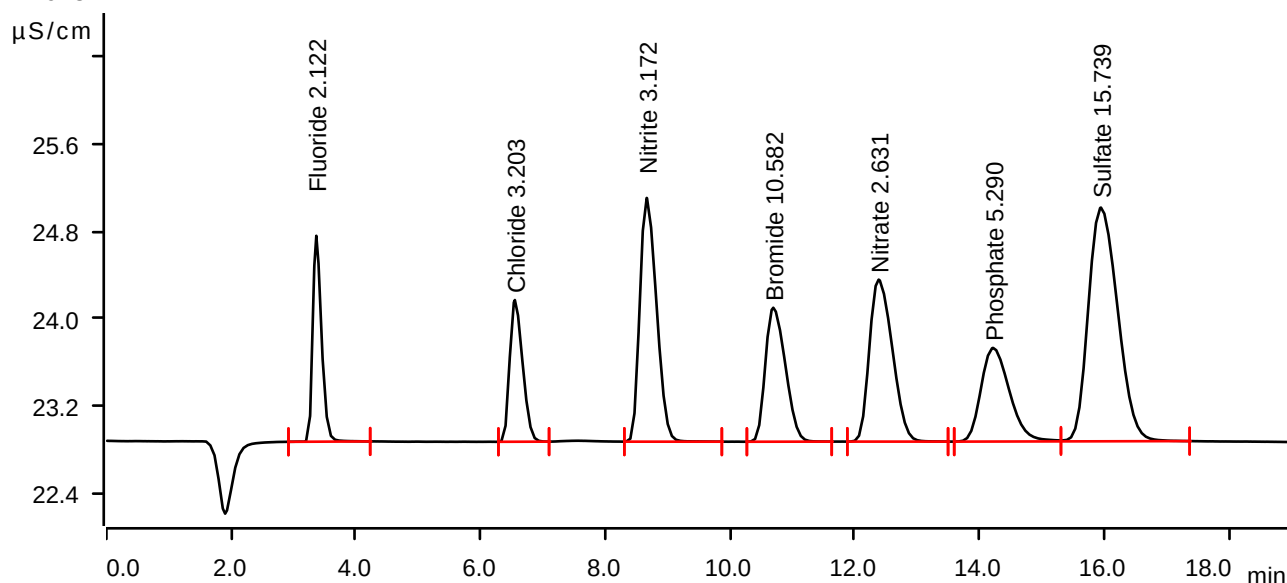
Sample data

Ident CCV
Sample type Check standard 1
Determination start 2024-10-25 12:49:41 UTC-4
Method IC1-101624
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 12.05 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



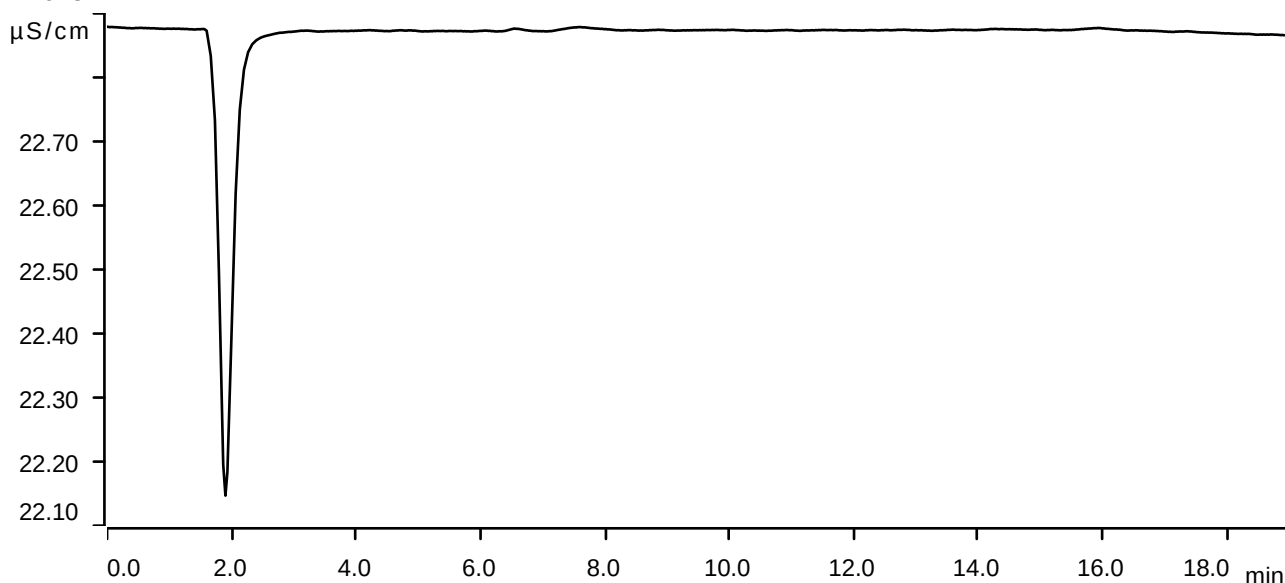
Peak number	Retention time min	Area (µS/cm) x min	Height µS/cm	Concentration ppm	Component name
1	3.367	0.3060	1.889	2.122	Fluoride
2	6.550	0.3113	1.300	3.203	Chloride
3	8.663	0.6943	2.237	3.172	Nitrite
4	10.693	0.4582	1.229	10.582	Bromide
5	12.382	0.6348	1.486	2.631	Nitrate
6	14.218	0.4547	0.860	5.290	Phosphate
7	15.947	1.1706	2.145	15.739	Sulfate

Sample data

Ident CCB
Sample type Sample
Determination start 2024-10-25 13:11:11 UTC-4
Method IC1-101624
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

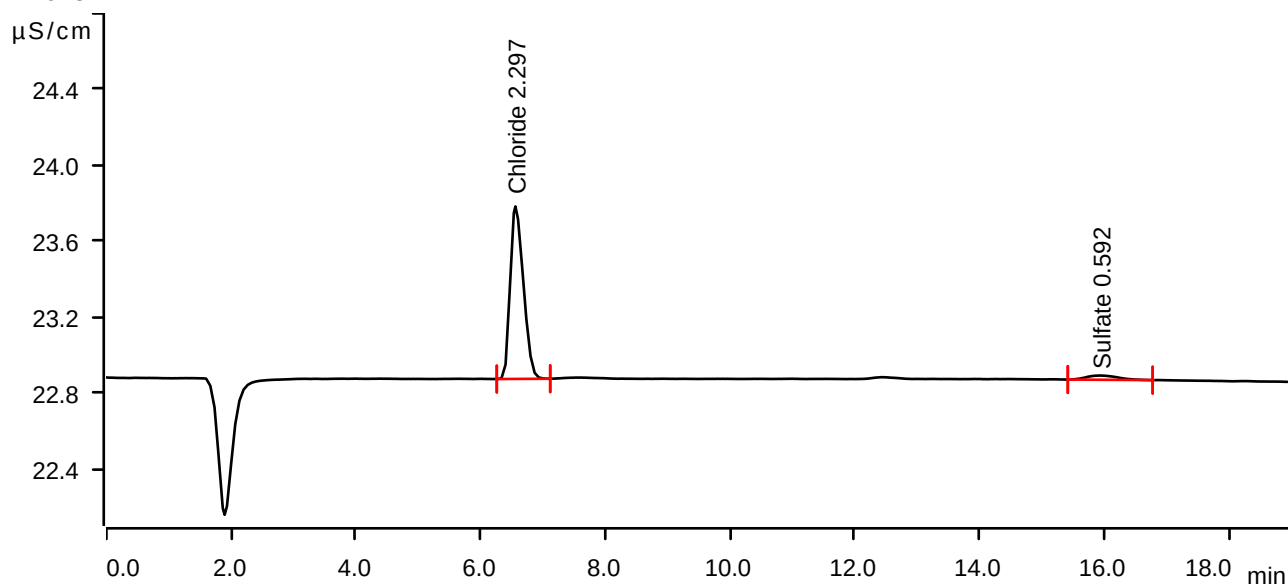
Sample data

Ident P4548-05DLX100
Sample type Sample
Determination start 2024-10-25 13:32:40 UTC-4
Method IC1-101624
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	6.558	0.2219	0.909	2.297	Chloride
2	15.937	0.0130	0.022	0.592	Sulfate

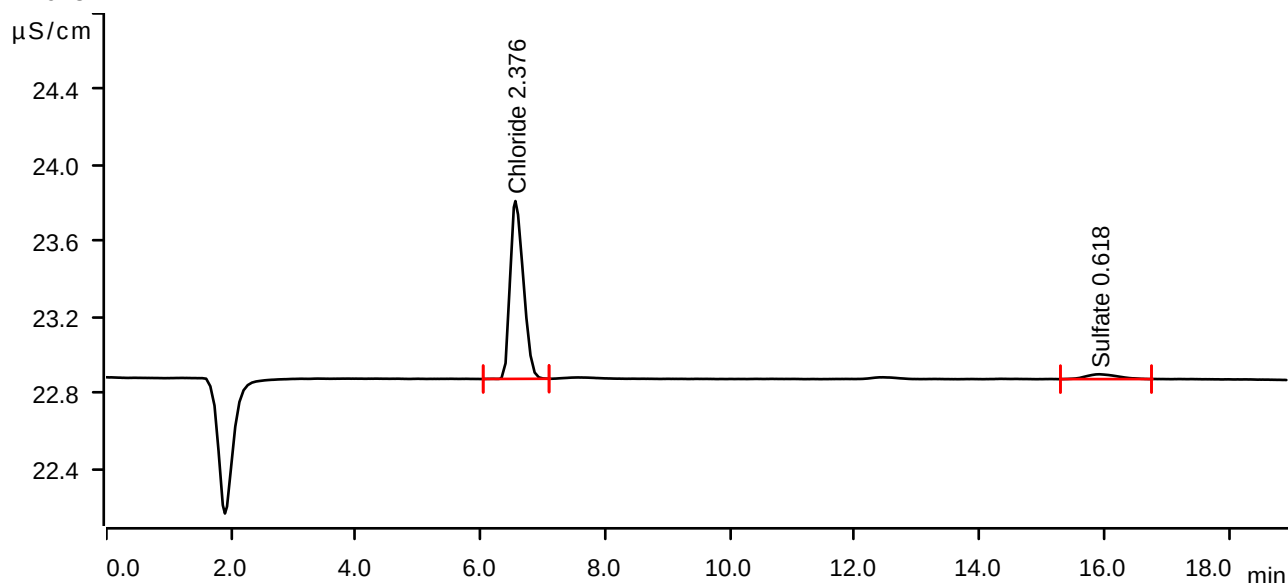
Sample data

Ident P4548-07DLX100
Sample type Sample
Determination start 2024-10-25 13:54:11 UTC-4
Method IC1-101624
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	6.558	0.2297	0.937	2.376	Chloride
2	15.920	0.0150	0.025	0.618	Sulfate

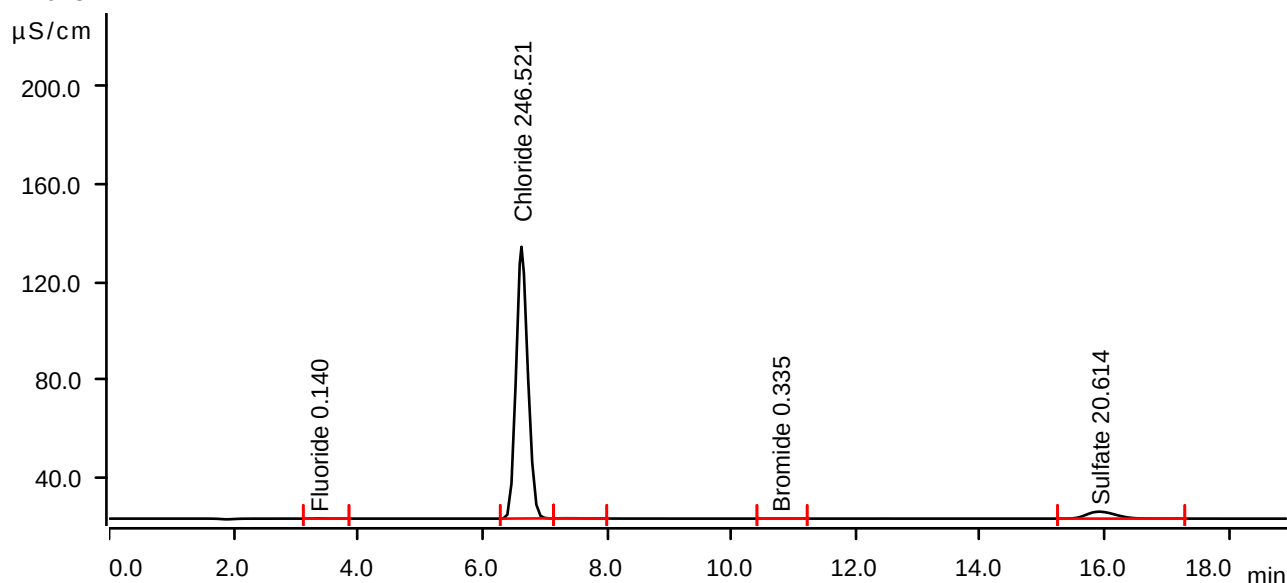
Sample data

Ident P4548-03DL2X2
Sample type Sample
Determination start 2024-10-25 14:15:41 UTC-4
Method IC1-101624
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	3.358	0.0155	0.092	0.140	Fluoride
2	6.628	24.3132	111.428	246.521	Chloride
3	7.378	0.0249	0.058	invalid	
4	10.780	0.0069	0.019	0.335	Bromide
5	15.910	1.5432	2.848	20.614	Sulfate

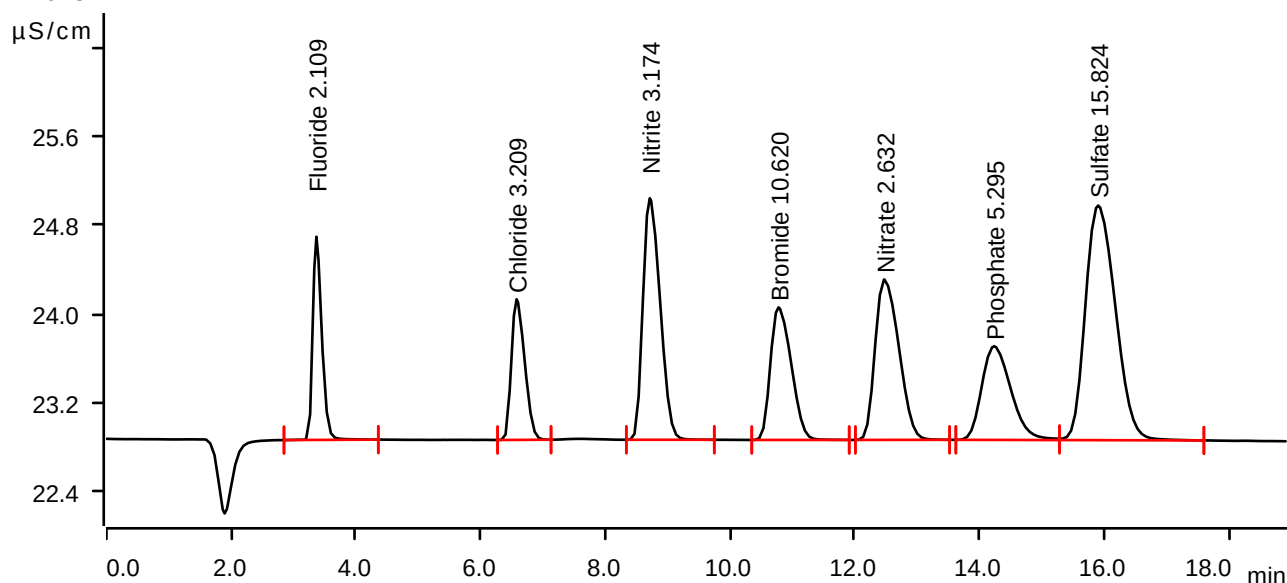
Sample data

Ident CCV
Sample type Check standard 1
Determination start 2024-10-25 14:37:11 UTC-4
Method IC1-101624
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	3.368	0.3041	1.824	2.109	Fluoride
2	6.578	0.3119	1.263	3.209	Chloride
3	8.713	0.6947	2.170	3.174	Nitrite
4	10.777	0.4599	1.191	10.620	Bromide
5	12.475	0.6351	1.440	2.632	Nitrate
6	14.235	0.4551	0.841	5.295	Phosphate
7	15.902	1.1771	2.108	15.824	Sulfate

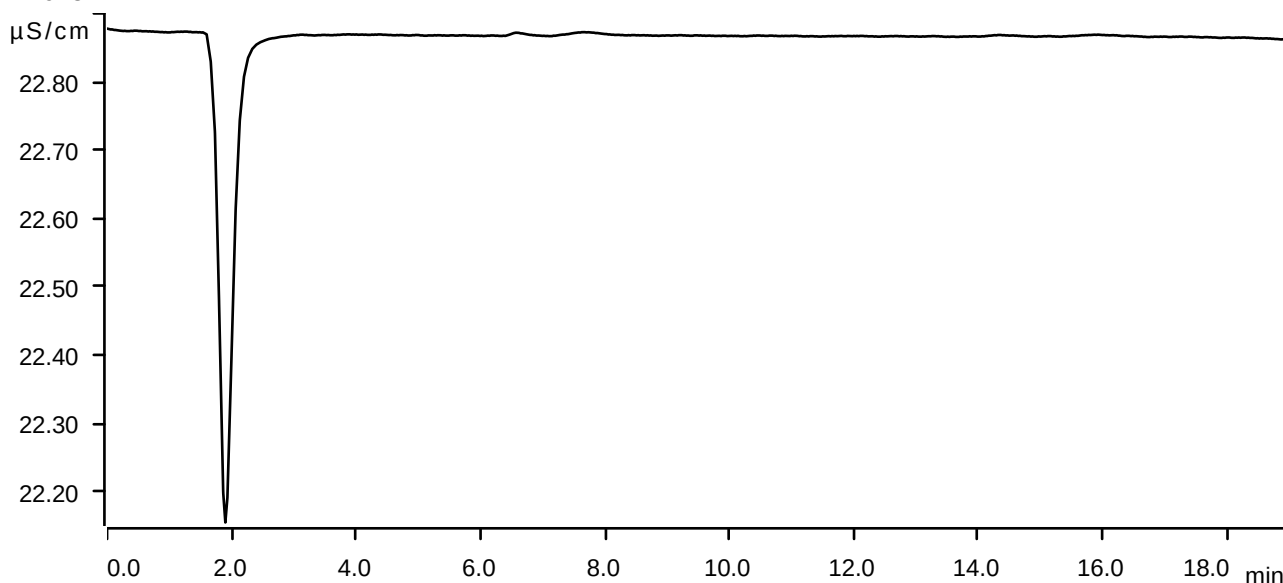
Sample data

Ident CCB
Sample type Sample
Determination start 2024-10-25 14:58:41 UTC-4
Method IC1-101624
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 12.39 MPa
Maximum pressure monitored yes
Temperature ---- °C

Anions



Analytical Summary Report

Analysis Method: SM2130 B

ANALYST: Niha

Parameter: Turbidity

SUPERVISOR REVIEW BY: Iwona

Run Number: LB133120

Reagent/Standard	Lot/Log #
Turbidity Calibration std, 0NTU	WP110410
Turbidity Calibration std, 20NTU	WP110405
Turbidity Calibration std, 80NTU	WP110414
Turbidity Calibration std, 40NTU	WP110404
Turbidity Calibration std, 200NTU	WP110415
Turbidity Calibration std, 1NTU	WP110408
Turbidity Calibration std, 5NTU	WP110407
Turbidity Calibration - CCV std, 10 NTU	WP110406
10 NTU Standard 500 ml	W3116

Intercept: 0.0585

Slope: 0.9594

Regression: 0.9999

Seq	Lab ID	True Value (NTU)	Dilution	Reading	Result (mg/l)	%D	Anal Date	Anal Time
1	CAL1	0	1	0.145	0.09		10/25/2024	08:30
2	CAL2	1	1	1.120	1.11	10.6	10/25/2024	08:34
3	CAL3	5	1	4.600	4.73	-5.3	10/25/2024	08:38
4	CAL4	10	1	9.600	9.95	-0.5	10/25/2024	08:42
5	CAL5	20	1	19.400	20.16	0.8	10/25/2024	08:46
6	CAL6	40	1	38.400	39.96	-0.1	10/25/2024	08:50
7	CAL7	80	1	75.300	78.43	-2	10/25/2024	08:54
8	CAL8	200	1	190.000	197.98	-1	10/25/2024	08:58

Analytical Summary Report

Analysis Method: SM2130 B

ANALYST: Niha

Parameter: Turbidity

SUPERVISOR REVIEW BY: Iwona

Run Number: LB133120

Seq	Lab ID	True Value (NTU)	Dilution	Reading	Result (NTU)	AnalDate	Anal Time
1	ICV	10	1	9.500	9.841	10/25/2024	09:02
2	ICB		1	0.108	0.052	10/25/2024	09:06
3	CCV1	10	1	9.120	9.445	10/25/2024	09:10
4	CCB1		1	0.115	0.059	10/25/2024	09:14
5	LB133120BL		1	0.100	0.043	10/25/2024	09:18
6	P4368-12		1	0.510	0.471	10/25/2024	09:22
7	P4548-01		1	0.424	0.381	10/25/2024	09:26
8	P4548-01DUP		1	0.418	0.375	10/25/2024	09:30
9	P4548-03		1	130.000	135.440	10/25/2024	09:34
10	P4548-05		1	19.200	19.952	10/25/2024	09:38
11	P4548-07		1	11.000	11.405	10/25/2024	09:42
12	CCV2	10	1	9.160	9.487	10/25/2024	09:46
13	CCB2		1	0.106	0.050	10/25/2024	09:50

WORKLIST(Hardcopy Internal Chain)

LB133120

WorkList Name : TURBIDITY-10252024

WorkList ID : 184763

Department : Wet-Chemistry

Date : 10-25-2024 08:15:44

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4548-01	MW-1	Water	Turbidity	Cool 4 deg C	LOCK01	K11	10/23/2024	SM2130 B
P4548-03	MW-2	Water	Turbidity	Cool 4 deg C	LOCK01	K11	10/23/2024	SM2130 B
P4548-05	MW-3	Water	Turbidity	Cool 4 deg C	LOCK01	K11	10/23/2024	SM2130 B
P4548-07	MW-4	Water	Turbidity	Cool 4 deg C	LOCK01	K11	10/23/2024	SM2130 B

Date/Time 10-25-2024, 08:25
Raw Sample Received by: NPLWCJ
Raw Sample Relinquished by: MLL

Date/Time 10-25-2024, 10:00
Raw Sample Received by: MLL
Raw Sample Relinquished by: MLL

BOD5 LOG

ANALYST: rubin

SUPERVISOR: Iwona

Analysis Date: 10/25/2024

MANGANOUS SULFATE SOLUTION: W3103

Alkaline Iodide Azide: W3109

Sodium Thiosulfate, 0.025N: W3105

NaOH, 1N: WP108662

IncubatorID: INCUBATOR #3

GuageID: 0511062

Zero DO: WP110006

QC BATCH ID: LB133122

BOD Water: WP110411

Starch: W3149

Sulfuric acid, 1N: WP110386

POLYSEED: WP110413

GGA: WP110412

Chlorine Strips: W2965

pH Strips: W3104

Lab SampleID	Client ID	Bottle No.	VOL. ML	Initial Reading (ML)	Final Reading (ML)	Difference	Average
WINKLER 1	WINKLER 1	1	300	0.0	9.3	9.3	9.3
WINKLER 2	WINKLER 2	2	300	9.2	18.5	9.3	9.3

Meter Calibration1: 8.58 Zero DO Reading1: 0.10 mg/L (<=0.2 Criteria)

Barometric Pressure1: 776 mmHg DO Meter BOD fluid reading for winkler comparison: 9.39

After Incubation

Meter Calibration2: 9.10 Zero DO Reading2: 0.12 mg/L (<=0.2 Criteria)

Barometric Pressure2: 776 mmHg



QC BATCH ID: LB133122

INCUBATOR TEMP IN(C) : 20.3

INCUBATOR TEMP OUT(C) : 20.2

TIME IN: 09:30

TIME OUT: 11:10

DATE IN: 10/25/2024

DATE OUT: 10/30/2024

Lab SampleID	Bottle No.	Check CL	Initial PH	Final PH	Temp °C	Sam Vol. (mL)	D.O.1 Initial	D.O.2 Final	Depletion	BOD Result (mg/L)	Avg Result (mg/L)	Comment
LB133122BL	1	No	6.72	N/A	20.20	300	9.38	9.37	0.01	0.01	0.01	
POLYSEED	1					10	9.37	6.56	2.81	0.56	0.58	
POLYSEED	2					15	9.35	5.16	4.19	0.56		
POLYSEED	3					20	9.30	3.24	6.06	0.61		
GGA	1					6	9.35	5.21	4.14	178	181.67	
GGA	2					6	9.35	5.14	4.21	181.5		
GGA	3					6	9.29	5.00	4.29	185.5		
P4548-01	1	No	5.81	6.89	20.00	5	9.36	8.74	-	0		pH Adjusted
P4548-01	2					20	9.34	8.60	-	0		
P4548-01	3					50	9.32	8.59	-	0		
P4548-01	4					150	9.30	8.29	-	0		
P4548-01DUP	1	No	5.81	6.89	20.00	5	9.35	8.80	-	0		pH Adjusted
P4548-01DUP	2					20	9.34	8.69	-	0		
P4548-01DUP	3					50	9.31	8.50	-	0		
P4548-01DUP	4					150	9.29	8.20	-	0		
P4548-03	1	No	6.72	N/A	20.00	5	9.34	8.58	-	0	10.51	
P4548-03	2					20	9.32	7.37	-	0		
P4548-03	3					50	9.25	6.53	2.72	12.84		
P4548-03	4					150	9.14	4.47	4.67	8.18		
P4548-05	1	No	6.73	N/A	20.00	5	9.35	8.73	-	0	9.51	
P4548-05	2					20	9.33	8.03	-	0		
P4548-05	3					50	9.30	6.53	2.77	13.14		
P4548-05	4					150	9.27	5.75	3.52	5.88		
P4548-07	1	No	6.75	N/A	20.00	5	9.34	8.92	-	0	10.88	
P4548-07	2					20	9.32	7.62	-	0		
P4548-07	3					50	9.30	6.20	3.1	15.12		
P4548-07	4					150	8.94	5.04	3.9	6.64		

NOTE: 2ml POLYSEED added to GGA and all the Samples, but not in Blank.

NOTE (For, CBOD5): 0.16 g Nitrification Inhibitor added to GGA and all the Samples, but not in Blank.

WORKLIST(Hardcopy Internal Chain)

LB133122

WorkList Name : BOD5-1024-

WorkList ID : 184731

Department : Wet-Chemistry

Date : 10-24-2024 10:02:16

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4548-01	MW-1	Water	BOD5	Cool 4 deg C	LOCK01	K11	10/23/2024	SM5210 B
P4548-03	MW-2	Water	BOD5	Cool 4 deg C	LOCK01	K11	10/23/2024	SM5210 B
P4548-05	MW-3	Water	BOD5	Cool 4 deg C	LOCK01	K11	10/23/2024	SM5210 B
P4548-07	MW-4	Water	BOD5	Cool 4 deg C	LOCK01	K11	10/23/2024	SM5210 B

Date/Time 10/25/2024 07:30
Raw Sample Received by: RM CWC
Raw Sample Relinquished by: RP/LOC

Date/Time 10/25/2024 09:20
Raw Sample Received by: RP/LOC
Raw Sample Relinquished by: RM CWC

Analytical Summary Report

Analysis Method: 9040C

Analyst By : jignesh

Parameter: pH

Supervisor Review By : Iwona

Run Number: LB133123

Slope : 98.6

pH Meter ID : WC PH METER-1

Calibration Standards	Chemtech Log#
PH 4 BUFFER SOLUTION	W3107
BUFFER PH 7.00 GREEN 1PINT PK6	W3093
PH 10.01 BUFFER, COLOR CD 475ML	W3094
buffer solution pH 7 yellow	W3071
Buffer Solution, PH2 (500ml)	W3005
Buffer Solution, PH12 (500ml)	W3072

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

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

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

Seq	LabID	DF	Matrix	Weight (gm)	Volume (ml)	Temperature (°C)	Result (pH)	Anal Date	Anal Time
1	CAL1	1	Water	NA	NA	20.3	4.01	10/25/2024	09:42
2	CAL2	1	Water	NA	NA	20.2	7.00	10/25/2024	09:43
3	CAL3	1	Water	NA	NA	20.2	10.02	10/25/2024	09:45
4	ICV	1	Water	NA	NA	20.2	7.00	10/25/2024	09:50
5	CCV1	1	Water	NA	NA	20.3	2.01	10/25/2024	10:00
6	P4548-01	1	Water	NA	NA	20.3	5.81	10/25/2024	10:10
7	P4548-03	1	Water	NA	NA	20.1	6.72	10/25/2024	10:15
8	P4548-05	1	Water	NA	NA	20.1	6.73	10/25/2024	10:17
9	P4548-07	1	Water	NA	NA	20.3	6.75	10/25/2024	10:19
10	P4549-02	1	Water	NA	NA	20.7	6.97	10/25/2024	10:20
11	P4549-03	1	Water	NA	NA	20.6	7.32	10/25/2024	10:25
12	P4549-04	1	Water	NA	NA	20.2	7.28	10/25/2024	10:30
13	P4549-04DUP	1	Water	NA	NA	20.3	7.29	10/25/2024	10:31
14	CCV2	1	Water	NA	NA	20.3	12.02	10/25/2024	10:35

TOTAL SUSPENDED SOLIDS - SM2540D

TEMP1 IN: 103 °C 10/25/2024 14:00 **TEMP1 OUT:** 104 °C 10/25/2024 15:00
TEMP2 IN: 104 °C 10/25/2024 15:30 **TEMP2 OUT:** 104 °C 10/25/2024 16:30
TEMP3 IN: 104 °C 10/28/2024 09:00 **TEMP3 OUT:** 103 °C 10/28/2024 10:30
TEMP4 IN: 104 °C 10/28/2024 11:00 **TEMP4 OUT:** 103 °C 10/28/2024 12:30

SUPERVISOR: Iwona

ANALYST: Niha

Date: 10/25/2024

Run Number: LB133165

BalanceID: WC SC-6

OvenID: WC OVEN-1

FilterID: 17416528

ThermometerID: WET OVEN#1

Dish #	Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Sample Volume (ml)	1st Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	2nd Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Final Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Weight (g)	Result mg/L
1	LB133165BL	LB133165BL	1.4123	1.4123	100	1.4123	1.4123	1.4123	0.0000	0
2	LB133165BS	LB133165BS	1.4058	1.4058	100	1.4578	1.4578	1.4578	0.0520	520
3	P4548-01	MW-1	1.4020	1.4020	3600	1.4046	1.4046	1.4046	0.0026	0.7
4	P4548-03	MW-2	1.3877	1.3877	2920	1.4563	1.4563	1.4563	0.0686	23.5
5	P4548-05	MW-3	1.4018	1.4018	3170	1.4185	1.4185	1.4185	0.0167	5.3
6	P4548-07	MW-4	1.4218	1.4218	1500	1.4302	1.4302	1.4302	0.0084	5.6
7	P4548-07DUP	MW-4DUP	1.4198	1.4198	2000	1.4312	1.4312	1.4312	0.0114	5.7
8	P4554-01	001-WILLETTS-BLVD (SEP)	1.3919	1.3919	150	1.4098	1.4098	1.4098	0.0179	119.3
9	P4554-02	002-35TH-AVE (SEP)	1.4043	1.4043	150	1.4227	1.4227	1.4227	0.0184	122.7

A = Sample Volume (ml)
B = Final Empty Dish Weight (g)
C = Final Empty Dish + Sample weight after 1.5 hr drying @105°C(g)
D = Weight (g)

Weight (g) = C - B

Result mg/L = $\frac{D}{A} \times 1000 \times 1000$

WORKLIST(Hardcopy Internal Chain)

LB133165

WorkList Name : TSS-10252024

WorkList ID : 184792

Department : Wet-Chemistry

Date : 10-25-2024 15:30:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4548-01	MW-1	Water	TSS	Cool 4 deg C	LOCK01	K11	10/23/2024	SM2540 D
P4548-03	MW-2	Water	TSS	Cool 4 deg C	LOCK01	K11	10/23/2024	SM2540 D
P4548-05	MW-3	Water	TSS	Cool 4 deg C	LOCK01	K11	10/23/2024	SM2540 D
P4548-07	MW-4	Water	TSS	Cool 4 deg C	LOCK01	K11	10/23/2024	SM2540 D
P4554-01	001-WILLETS-BLVD(SEP)	Water	TSS	Cool 4 deg C	TULL01	K63	10/24/2024	SM2540 D
P4554-02	002-35TH-AVE(SEP)	Water	TSS	Cool 4 deg C	TULL01	K63	10/24/2024	SM2540 D

Date/Time 10-28-2024, 06:20
Raw Sample Received by: NF(WC)
Raw Sample Relinquished by: NF(WC)

Date/Time 10-28-2024, 10:00
Raw Sample Received by: NF(WC)
Raw Sample Relinquished by: NF(WC)

TOTAL Dissolved Solids - SM2540C

Run Number: LB133166

Date: 10/26/2024

SUPERVISOR: Iwona

ANALYST: Niha

BalanceID: WC SC-6

Filter ID: 17416528

EMPTY DISH				EMPTY DISH				OvenID:	WC OVEN-1	Thermo ID:	WET OVEN#1
TEMP IN:	103 °C	10/25/2024	11:00	TEMP OUT:	104 °C	10/25/2024	12:00				
TEMP1 IN:	103 °C	10/25/2024	12:30	TEMP1 OUT:	103 °C	10/25/2024	13:30	OvenID1:	WC OVEN-1	Thermo ID1:	WET OVEN#1
TEMP2 IN:	104 °C	10/25/2024	16:30	TEMP2 OUT:	103 °C	10/26/2024	08:30	OvenID2:	WC OVEN-2	Thermo ID2:	WET OVEN#2
TEMP3 IN:	180 °C	10/26/2024	08:35	TEMP3 OUT:	180 °C	10/26/2024	10:00	OvenID3:	WC OVEN-2	Thermo ID3:	WET OVEN#2

Dish #	Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Sample Volume (ml)	1st Empty Dish+Sample weight after 1.5hr drying @180(±2) °C (g)	2nd Empty Dish+Sample weight after 1.5hr drying @180(±2) °C (g)	Final Empty Dish+Sample weight after 1.5hr drying @180(±2) °C (g)	Weight (g)	Result mg/L
1	LB133166BL	LB133166BL	91.4320	91.4320	100	91.4320	91.4320	91.4320	0.0000	0
2	LB133166BS	LB133166BS	65.2158	65.2158	100	65.2252	65.2252	65.2252	0.0094	94
3	P4548-01	MW-1	63.8056	63.8056	100	63.8478	63.8478	63.8478	0.0422	422
4	P4548-03	MW-2	91.5725	91.5725	100	91.6870	91.6870	91.6870	0.1145	1145
5	P4548-05	MW-3	91.0226	91.0226	100	91.1000	91.1000	91.1000	0.0774	774
6	P4548-07	MW-4	90.2646	90.2646	100	90.3468	90.3468	90.3468	0.0822	822
7	P4548-07DUP	MW-4DUP	110.2736	110.2740	100	110.3580	110.3580	110.3580	0.0840	840

A = Sample Volume (ml)

B = Empty Dish Weight (g)

C = 2nd Empty Dish + Sample weight after 1.5 hr drying @180(±2) °C(g)

D = Weight (g)

$$\text{Weight (g)} = C - B$$

$$\text{Result mg/L} = \frac{D}{A} * 1000 * 1000$$

WORKLIST(Hardcopy Internal Chain)

LB133166

WorkList Name : TDS-10252024

WorkList ID : 184795

Department : Wet-Chemistry

Date : 10-25-2024 15:39:43

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4548-01	MW-1	Water	TDS	Cool 4 deg C	LOCK01	K11	10/23/2024	SM2540 C
P4548-03	MW-2	Water	TDS	Cool 4 deg C	LOCK01	K11	10/23/2024	SM2540 C
P4548-05	MW-3	Water	TDS	Cool 4 deg C	LOCK01	K11	10/23/2024	SM2540 C
P4548-07	MW-4	Water	TDS	Cool 4 deg C	LOCK01	K11	10/23/2024	SM2540 C

Date/Time 10-25-2024, 15:30
Raw Sample Received by: NF/wc
Raw Sample Relinquished by: NF/wc

Date/Time 10-25-2024, 17:00
Raw Sample Received by: NF/wc
Raw Sample Relinquished by: NF/wc

LB133173

Test results

Aquakem 7.2AQ1

Page:

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

Reviewed by : RM

Instrument ID : Konelab

10/28/2024 14:46

Test: Ammonia-N

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	1.063	0.0	0.143	
ICB1	0.004	0.0	0.028	
CCV1	0.991	0.0	0.135	
CCB1	0.002	0.0	0.028	
RL CHECK	0.102	0.0	0.039	
PB164383BL	0.009	0.0	0.029	
PB164383BS	1.018	0.0	0.138	
P4368-09	0.093	0.0	0.038	
P4490-01	14.669	0.0	1.622	Test limit high
P4490-05	6.626	0.0	0.748	Test limit high
P4548-01	0.031	0.0	0.031	
P4548-01DUP	0.017	0.0	0.029	
P4548-01MS	0.984	0.0	0.135	
P4548-01MSD	0.994	0.0	0.136	
CCV2	1.034	0.0	0.140	
CCB2	0.007	0.0	0.028	
P4548-03	10.126	0.0	1.128	Test limit high
P4548-05	5.388	0.0	0.613	Test limit high
P4548-07	5.257	0.0	0.599	Test limit high
PB164463BL	0.003	0.0	0.028	
PB164463BS	1.008	0.0	0.137	
P4368-03	0.090	0.0	0.037	
CCV3	1.096	0.0	0.147	
CCB3	0.015	0.0	0.029	
P4490-01DLX10	1.711	0.0	0.214	
P4490-05DLX5	1.476	0.0	0.188	
P4548-03DLX10	1.201	0.0	0.158	
P4548-05DLX5	1.174	0.0	0.155	
P4548-07DLX5	1.157	0.0	0.153	
CCV4	1.054	0.0	0.142	
CCB4	0.009	0.0	0.029	

102% (50-150)

10/28/2024
RM

10/28/2024
RM

N 31
Mean 1.884
SD 3.3017
CV% 175.23

Aquakem v. 7.2AQ1

Results from time period:

Mon Oct 28 12:51:26 2024

Mon Oct 28 14:41:59 2024

Sample Id	Sam/Ctr/c/	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPM	A	Ammonia-† P		-0.0053	mg/l	10/28/2024 12:51:26	
0.1PPM	A	Ammonia-† P		0.0952	mg/l	10/28/2024 12:51:27	
0.2PPM	A	Ammonia-† P		0.2032	mg/l	10/28/2024 12:51:28	
0.4PPM	A	Ammonia-† P		0.3949	mg/l	10/28/2024 12:51:29	
1.0PPM	A	Ammonia-† P		1.0235	mg/l	10/28/2024 12:51:30	
1.3PPM	A	Ammonia-† P		1.3314	mg/l	10/28/2024 12:51:31	
2.0PPM	A	Ammonia-† P		1.9905	mg/l	10/28/2024 12:51:32	
ICV1	S	Ammonia-† P		1.0626	mg/l	10/28/2024 13:31:52	
ICB1	S	Ammonia-† P		0.0041	mg/l	10/28/2024 13:31:53	
CCV1	S	Ammonia-† P		0.9915	mg/l	10/28/2024 13:31:55	
CCB1	S	Ammonia-† P		0.0018	mg/l	10/28/2024 13:31:57	
RL CHECK	S	Ammonia-† P		0.102	mg/l	10/28/2024 13:31:59	
PB164383BL	S	Ammonia-† P		0.0088	mg/l	10/28/2024 13:32:02	
PB164383BS	S	Ammonia-† P		1.0184	mg/l	10/28/2024 13:42:35	
P4368-09	S	Ammonia-† P		0.093	mg/l	10/28/2024 13:42:37	
P4490-01	S	Ammonia-† P		14.6687	mg/l	10/28/2024 13:42:40	
P4490-05	S	Ammonia-† P		6.6264	mg/l	10/28/2024 13:42:43	
P4548-01	S	Ammonia-† P		0.031	mg/l	10/28/2024 13:42:45	
P4548-01DUP	S	Ammonia-† P		0.0168	mg/l	10/28/2024 13:42:46	
P4548-01MS	S	Ammonia-† P		0.9841	mg/l	10/28/2024 13:53:17	
P4548-01MSD	S	Ammonia-† P		0.9939	mg/l	10/28/2024 13:53:18	
CCV2	S	Ammonia-† P		1.0335	mg/l	10/28/2024 13:53:19	
CCB2	S	Ammonia-† P		0.0069	mg/l	10/28/2024 13:53:21	
P4548-03	S	Ammonia-† P		10.1265	mg/l	10/28/2024 13:53:23	
P4548-05	S	Ammonia-† P		5.3879	mg/l	10/28/2024 13:53:24	
P4548-07	S	Ammonia-† P		5.2574	mg/l	10/28/2024 13:53:25	
PB164463BL	S	Ammonia-† P		0.0034	mg/l	10/28/2024 13:53:27	
PB164463BS	S	Ammonia-† P		1.0079	mg/l	10/28/2024 13:53:28	
P4368-03	S	Ammonia-† P		0.0904	mg/l	10/28/2024 14:01:08	
CCV3	S	Ammonia-† P		1.0964	mg/l	10/28/2024 14:01:09	
CCB3	S	Ammonia-† P		0.0153	mg/l	10/28/2024 14:01:11	
P4490-01DLX10	S	Ammonia-† P		1.7112	mg/l	10/28/2024 14:41:50	
P4490-05DLX5	S	Ammonia-† P		1.4761	mg/l	10/28/2024 14:41:51	
P4548-03DLX10	S	Ammonia-† P		1.2007	mg/l	10/28/2024 14:41:52	
P4548-05DLX5	S	Ammonia-† P		1.1744	mg/l	10/28/2024 14:41:53	
P4548-07DLX5	S	Ammonia-† P		1.157	mg/l	10/28/2024 14:41:55	
CCV4	S	Ammonia-† P		1.0544	mg/l	10/28/2024 14:41:56	
CCB4	S	Ammonia-† P		0.0088	mg/l	10/28/2024 14:41:58	

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Calibration results Aquakem 7.2AQ1 Page: 1

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

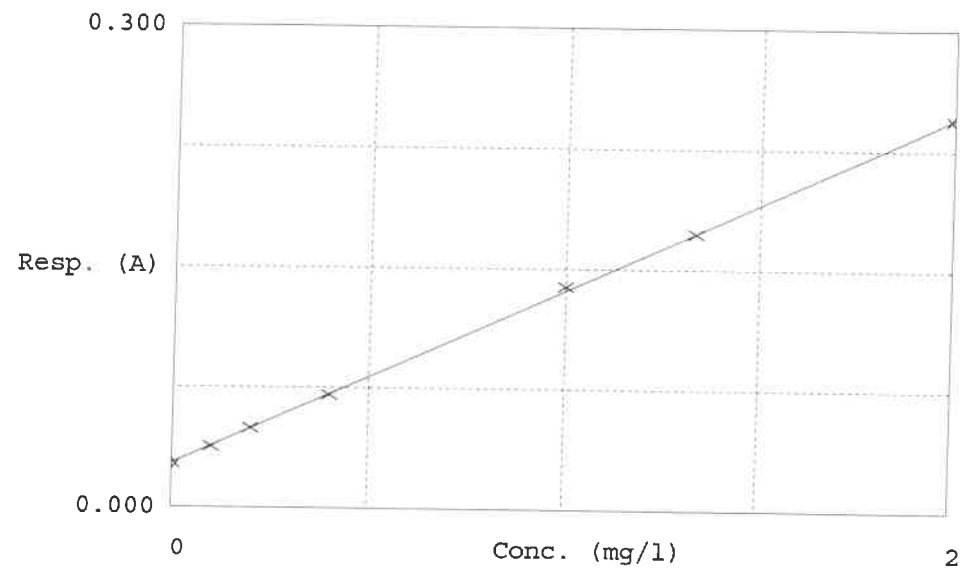
10/28/2024 12:57 Reviewed by : RM Instrument ID : Konelab

Test Ammonia-N

Accepted 10/28/2024 12:57
Factor 9.202
Bias 0.028

Coeff. of det. 0.999783

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.00PPM	0.027	-0.0053	0.0000	-
2	NH3-2PPM	0.038	0.0952	0.1000	-4.8
3	NH3-2PPM	0.050	0.2032	0.2000	1.6
4	NH3-2PPM	0.071	0.3949	0.4000	-1.3
5	NH3-2PPM	0.139	1.0235	1.0000	2.4
6	NH3-2PPM	0.172	1.3314	1.3333	2.4
7	NH3-2PPM	0.244	1.9905	2.0000	-0.5

10/28/2024
RM

(613317)

Test results

Aquakem 7.2AQ1

Page:

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

Reviewed by : RM

Instrument ID : Konelab

10/28/2024 16:58

Test: TKN-NH3

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	5.001	0.0	0.564	
ICB1	-0.072	0.0	0.030	
CCV1	5.011	0.0	0.565	
CCB1	-0.080	0.0	0.030	
RL CHECK	0.417	0.0	0.082	
PB164408BL	-0.083	0.0	0.029	
PB164408BS	4.896	0.0	0.553	
P4368-09	0.183	0.0	0.057	
P4548-01	0.134	0.0	0.052	
P4548-01DUP	0.144	0.0	0.053	
P4548-01MS	4.848	0.0	0.548	
P4548-01MSD	4.835	0.0	0.547	
P4548-03	11.147	0.0	1.211	
P4548-05	6.002	0.0	0.669	
CCV2	5.084	0.0	0.573	
CCB2	-0.070	0.0	0.031	
PP4548-07	5.697	0.0	0.637	
PB164474BL	-0.064	0.0	0.031	
PB164474BS	5.027	0.0	0.567	
P4368-03	0.199	0.0	0.059	
CCV3	5.276	0.0	0.593	
CCB3	-0.056	0.0	0.032	
P4548-03DLX2	5.752	0.0	0.643	
CCV4	5.371	0.0	0.603	
CCB4	-0.080	0.0	0.030	

83%CSO-ISO
10/28/2024
RM

Test limit high

N 25
Mean 2.981
SD 3.1145
CV% 104.49

Aquakem v. 7.2AQ1

Results from time period:

Mon Oct 28 15:12:09 2024

Mon Oct 28 16:58:02 2024

Sample Id	Sam/Ctr/c	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPM	A	TKN-NH3	P	-0.0553	mg/l	10/28/2024 15:12:09	
0.5PPM	A	TKN-NH3	P	0.4234	mg/l	10/28/2024 15:12:10	
1.0PPM	A	TKN-NH3	P	0.9652	mg/l	10/28/2024 15:12:11	
2.5PPM	A	TKN-NH3	P	2.584	mg/l	10/28/2024 15:12:12	
5.0PPM	A	TKN-NH3	P	5.1149	mg/l	10/28/2024 15:12:13	
6.7PPM	A	TKN-NH3	P	6.7834	mg/l	10/28/2024 15:12:14	
10.0PPM	A	TKN-NH3	P	9.851	mg/l	10/28/2024 15:12:15	
ICV1	S	TKN-NH3	P	5.0014	mg/l	10/28/2024 16:09:16	
ICB1	S	TKN-NH3	P	-0.0721	mg/l	10/28/2024 16:09:18	
CCV1	S	TKN-NH3	P	5.0114	mg/l	10/28/2024 16:09:19	
CCB1	S	TKN-NH3	P	-0.0799	mg/l	10/28/2024 16:09:21	
RL CHECK	S	TKN-NH3	P	0.4175	mg/l	10/28/2024 16:09:24	
PB164408BL	S	TKN-NH3	P	-0.0832	mg/l	10/28/2024 16:09:26	
PB164408BS	S	TKN-NH3	P	4.8959	mg/l	10/28/2024 16:20:00	
P4368-09	S	TKN-NH3	P	0.1828	mg/l	10/28/2024 16:20:01	
P4548-01	S	TKN-NH3	P	0.1335	mg/l	10/28/2024 16:20:03	
P4548-01DUP	S	TKN-NH3	P	0.1443	mg/l	10/28/2024 16:20:05	
P4548-01MS	S	TKN-NH3	P	4.8481	mg/l	10/28/2024 16:20:07	
P4548-01MSD	S	TKN-NH3	P	4.8347	mg/l	10/28/2024 16:20:08	
P4548-03	S	TKN-NH3	P	11.1469	mg/l	10/28/2024 16:30:40	
P4548-05	S	TKN-NH3	P	6.0024	mg/l	10/28/2024 16:30:41	
CCV2	S	TKN-NH3	P	5.084	mg/l	10/28/2024 16:30:43	
CCB2	S	TKN-NH3	P	-0.0699	mg/l	10/28/2024 16:30:45	
PP4548-07	S	TKN-NH3	P	5.6967	mg/l	10/28/2024 16:30:46	
PB164474BL	S	TKN-NH3	P	-0.0637	mg/l	10/28/2024 16:30:47	
PB164474BS	S	TKN-NH3	P	5.0271	mg/l	10/28/2024 16:30:50	
P4368-03	S	TKN-NH3	P	0.1988	mg/l	10/28/2024 16:37:54	
CCV3	S	TKN-NH3	P	5.2756	mg/l	10/28/2024 16:37:55	
CCB3	S	TKN-NH3	P	-0.0565	mg/l	10/28/2024 16:37:57	
P4548-03DLX2	S	TKN-NH3	P	5.7518	mg/l	10/28/2024 16:57:58	
CCV4	S	TKN-NH3	P	5.371	mg/l	10/28/2024 16:57:59	
CCB4	S	TKN-NH3	P	-0.0801	mg/l	10/28/2024 16:58:02	

Calibration results

Aquakem 7.2AQ1

Page:

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

Reviewed by : RM

Instrument ID : Konelab

10/28/2024 15:35

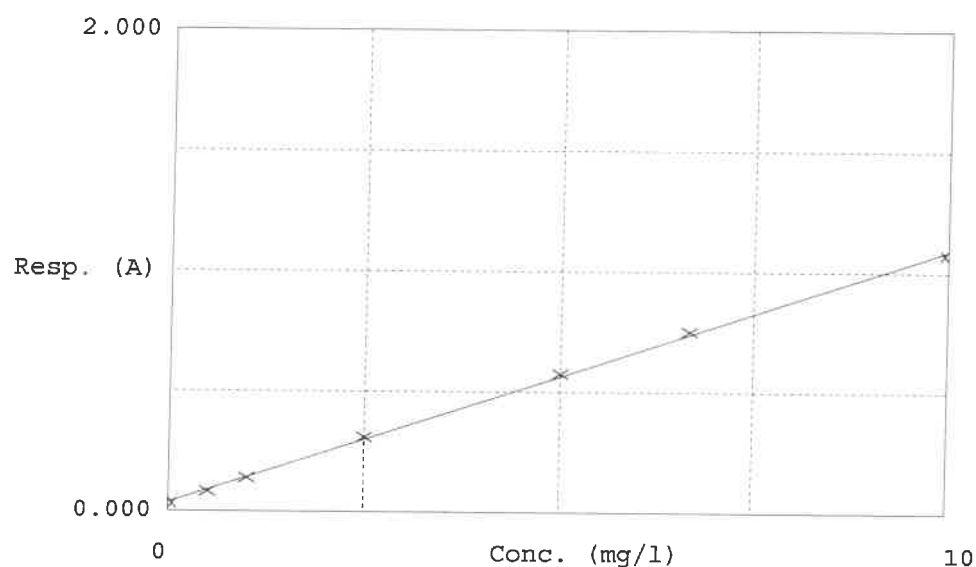
Test TKN-NH3

Accepted 10/28/2024 15:35

Factor 9.507
Bias 0.038

Coeff. of det. 0.999201

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.00PPM	0.032	-0.0553	0.0000	-15.3
2	TKN-10	0.083	0.4234	0.5000	-3.5
3	TKN-10	0.140	0.9652	1.0000	3.4
4	TKN-10	0.310	2.5840	2.5000	2.3
5	TKN-10	0.576	5.1149	5.0000	1.2
6	TKN-10	0.752	6.7834	6.6667	-1.5
7	TKN-10	1.074	9.8510	10.0000	

10/28/2024
RM

TitriSoft Report

Ident	Amount	DateTime	Alkalinity	Final pH (sample)	Initial pH (sample)	slope	offset
LB133279BLW	100	04/11/2024 10:15	0.00	3.87	3.91	102.3	6.88
LB133279BSW	100	04/11/2024 10:19	45.96	4.38	8.64	102.3	6.88
P4548-01	50	04/11/2024 10:25	49.52	4.29	7.61	102.3	6.88
P4548-01DUP	50	04/11/2024 10:29	48.74	4.32	7.60	102.3	6.88
P4548-03	50	04/11/2024 10:35	437.32	4.40	7.14	102.3	6.88
P4548-05	50	04/11/2024 10:41	368.28	4.38	7.16	102.3	6.88
P4548-07	50	04/11/2024 10:46	348.42	4.27	6.98	102.3	6.88

11/04/2024
NF

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

SDG No : N/A

Start Digest Date: 10/28/2024 Time : 08:40 Temp : 150 °C

Matrix : WATER

End Digest Date: 10/28/2024 Time : 09:40 Temp : 160 °C

Pipette ID : WC

10/28/2024 10:00 150°C
10/28/2024 11:00 160°C

Balance ID : N/A

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 : N/A

pH Meter ID : N/A

Supervisor Signature: *12*

Standard Name	MLS USED	STD REF. # FROM LOG
LCSW	1.0ML	WP110181
MS/MSD SPIKE SOL.	1.0ML	WP110180
PBW	50.0ML	W3112
RL CHECK	0.1ML	WP110180
MDL	0.8ML	WP110449

Chemical Used	ML/SAMPLE USED	Lot Number
BORATE BUFFER	2.5ML	WP108708
NAOH 6N	0.5-2.0ML	WP108660
H2SO4 0.04N	5.0ML	WP110335
pH strip-Ammonia	N/A	W3133
KI-starch paper	N/A	W2965
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
WP108814.P4490-01,05ARE CLOUDY AND BAD SMELL SAMPLES SO I TOOK 1ML INSTEAD OF 50ML.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/28/2024 11:10	<i>RM (WC)</i>	<i>RM (WC)</i>
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P4368-09	MDL-WATER-03-QT4-2024	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
P4490-01	EFFLUENT	1	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
P4490-05	INFLUENT	1	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
P4548-01	MW-1	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
P4548-01DUP	MW-1DUP	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
P4548-01MS	MW-1MS	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
P4548-01MSD	MW-1MSD	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
P4548-03	MW-2	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
P4548-05	MW-3	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
P4548-07	MW-4	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
PB164383BL	PBS383	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
PB164383BS	LCS383	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : AMMONIA-1025

WorkList ID : 184782

Department : Distillation

Date : 10-25-2024 12:35:57

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4368-09	MDL-WATER-03-QT4-2024	Water	Ammonia	Conc H2SO4 to pH < 2	CHEM02	QA Of	10/09/2024	SM4500-NH3
P4490-01	EFFLUENT	Water	Ammonia	Conc H2SO4 to pH < 2	HOLL01	K11	10/22/2024	SM4500-NH3
P4490-05	INFLUENT	Water	Ammonia	Conc H2SO4 to pH < 2	HOLL01	K11	10/22/2024	SM4500-NH3
P4548-01	MW-1	Water	Ammonia	Conc H2SO4 to pH < 2	LOCK01	K11	10/23/2024	SM4500-NH3
P4548-03	MW-2	Water	Ammonia	Conc H2SO4 to pH < 2	LOCK01	K11	10/23/2024	SM4500-NH3
P4548-05	MW-3	Water	Ammonia	Conc H2SO4 to pH < 2	LOCK01	K11	10/23/2024	SM4500-NH3
P4548-07	MW-4	Water	Ammonia	Conc H2SO4 to pH < 2	LOCK01	K11	10/23/2024	SM4500-NH3

Date/Time 10/28/2024 08:10
 Raw Sample Received by: RM cwc
 Raw Sample Relinquished by: [Signature]

Date/Time 10/28/2024 10:15
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: RM cwc

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

SDG No : N/A

Matrix : WATER

Pipette ID : WC

Balance ID : N/A

Hood ID : HOOD#2&3

Block ID : WC-DIST-BLOCK-1

Weigh By : N/A

Start Digest Date: 10/28/2024 Time : 09:30 Temp : 380 °C

End Digest Date: 10/28/2024 Time : 11:00 Temp : 375 °C

Start Distillation Date: 10/28/2024 Time : 11:30 Temp : 150 °C

End Distillation Date: 10/28/2024 Time : 12:30 Temp : 160 °C

Digestion tube ID : M5595

Block Thermometer ID : Therm#2(2179)

Filter paper ID : N/A

Prep Technician Signature: RM

pH Meter ID : N/A

Supervisor Signature: 12

Standard Name	MLS USED	STD REF. # FROM LOG
TKN CAL STD	50.0ML	WP110451
TKN CCV STD	50.0ML	WP110452
TKN ICV STD	50.0ML	WP110453
TKN LCS STD	50.0ML	WP110454
MS/MSD SPIKE SOL.	0.25ML	WP110149

Chemical Used	ML/SAMPLE USED	Lot Number
TKN DIGESTION FLUID	10.0ML	WP108657
TKN DISTILLATION BUFFER	10.0ML	WP109441
H2SO4 0.04N	5.0ML	WP110335
pH Paper 0-14	N/A	W3104
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:

RL CHECK 10ML FROM WP110452,MDL WP110455,REAGENT WP108814 ALL GLASSWEAR ARE STEAMED OUT AND THERE WERE NO TRACE OF AMMONIA USING NESLER

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/28/2024 14:05	RM CWG	RM CWG
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P4368-09	MDL-WATER-03-QT4-2024	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
P4548-01	MW-1	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
P4548-01DUP	MW-1DUP	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
P4548-01MS	MW-1MS	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
P4548-01MSD	MW-1MSD	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
P4548-03	MW-2	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
P4548-05	MW-3	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
P4548-07	MW-4	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
PB164408BL	PBW408	50	50	<2	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
PB164408BS	LCS408	50	50	<2	N/A	N/A	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A

Instrument ID: IC-2

Daily Analysis Runlog For Sequence/QC Batch ID # LB133119

Review By	Niha	Review On	10/29/2024 2:44:31 PM
Supervise By	Iwona	Supervise On	10/29/2024 3:44:37 PM
SubDirectory	LB133119	Test	Anions
STD. NAME	STD REF.#		
ICAL Standard	WP110250,WP110251,WP110252,WP110253,WP110254,WP110255,WP110256,WP110257		
ICV Standard	WP110258		
CCV Standard	WP110402		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP110403		
Chk Standard	WP110260,WP110261		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	STD1	STD1	CAL1	10/16/24 10:55	All standards, samples, and	NF/IZ	OK
2	STD2	STD2	CAL2	10/16/24 11:17	QC are filtered through	NF/IZ	OK
3	STD3	STD3	CAL3	10/16/24 11:38	0.45um, filter lot W2865	NF/IZ	OK
4	STD4	STD4	CAL4	10/16/24 11:59		NF/IZ	OK
5	STD5	STD5	CAL5	10/16/24 12:21		NF/IZ	OK
6	STD6	STD6	CAL6	10/16/24 12:42		NF/IZ	OK
7	STD7	STD7	CAL7	10/16/24 13:04		NF/IZ	OK
8	ICV1	ICV1	ICV	10/16/24 13:37		NF/IZ	OK
9	ICB1	ICB1	ICB	10/16/24 13:59		NF/IZ	OK
10	CCV1	CCV1	CCV	10/25/24 08:31		NF/IZ	OK
11	CCB1	CCB1	CCB	10/25/24 08:52		NF/IZ	OK
12	LB133119BLW	LB133119BLW	MB	10/25/24 09:14		NF/IZ	OK
13	P4548-01	MW-1	SAM	10/25/24 09:35	Cl high	NF/IZ	Dilution
14	P4548-01MS	MW-1MS	MS	10/25/24 09:57	9.5ml of sample, 0.5mL W3091	NF/IZ	OK
15	P4548-01MSD	MW-1MSD	MSD	10/25/24 10:18	9.5ml of sample, 0.5mL W3091	NF/IZ	OK
16	P4548-05	MW-3	SAM	10/25/24 10:40	Cl high	NF/IZ	Dilution
17	P4548-07	MW-4	SAM	10/25/24 11:02	Cl high	NF/IZ	Dilution
18	P4548-03	MW-2	SAM	10/25/24 11:23	Cl,So4 high	NF/IZ	Dilution

Instrument ID: IC-2

Daily Analysis Runlog For Sequence/QC Batch ID # LB133119

Review By	Niha	Review On	10/29/2024 2:44:31 PM
Supervise By	Iwona	Supervise On	10/29/2024 3:44:37 PM
SubDirectory	LB133119	Test	Anions
STD. NAME	STD REF.#		
ICAL Standard	WP110250,WP110251,WP110252,WP110253,WP110254,WP110255,WP110256,WP110257		
ICV Standard	WP110258		
CCV Standard	WP110402		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP110403		
Chk Standard	WP110260,WP110261		

19	LB133119BSW	LB133119BSW	LCS	10/25/24 11:45		NF/IZ	OK
20	P4548-01DL	MW-1DL	SAM	10/25/24 12:06	50X for Cl	NF/IZ	Confirms
21	P4548-03DL2	MW-2DL2	SAM	10/25/24 12:28	100X for Cl	NF/IZ	Confirms
22	CCV2	CCV2	CCV	10/25/24 12:49		NF/IZ	OK
23	CCB2	CCB2	CCB	10/25/24 13:11		NF/IZ	OK
24	P4548-05DL	MW-3DL	SAM	10/25/24 13:32	100X for Cl	NF/IZ	Confirms
25	P4548-07DL	MW-4DL	SAM	10/25/24 13:54	100X for Cl	NF/IZ	Confirms
26	P4548-03DL	MW-2DL	SAM	10/25/24 14:15	2X for Cl,So4,Still Cl high	NF/IZ	Dilution
27	CCV3	CCV3	CCV	10/25/24 14:37		NF/IZ	OK
28	CCB3	CCB3	CCB	10/25/24 14:58		NF/IZ	OK

Instrument ID: WC TURBIDIMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB133120

Review By	Niha	Review On	10/25/2024 12:29:13 PM
Supervise By	Iwona	Supervise On	10/25/2024 2:31:53 PM
SubDirectory	LB133120	Test	Turbidity
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	WP110410,WP110405,WP110414,WP110404,WP110415,WP110408,WP110407,WP110406,W3116		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	10/25/24 08:30		Niha	OK
2	CAL2	CAL2	CAL	10/25/24 08:34		Niha	OK
3	CAL3	CAL3	CAL	10/25/24 08:38		Niha	OK
4	CAL4	CAL4	CAL	10/25/24 08:42		Niha	OK
5	CAL5	CAL5	CAL	10/25/24 08:46		Niha	OK
6	CAL6	CAL6	CAL	10/25/24 08:50		Niha	OK
7	CAL7	CAL7	CAL	10/25/24 08:54		Niha	OK
8	CAL8	CAL8	CAL	10/25/24 08:58		Niha	OK
9	ICV	ICV	ICV	10/25/24 09:02		Niha	OK
10	ICB	ICB	ICB	10/25/24 09:06		Niha	OK
11	CCV1	CCV1	CCV	10/25/24 09:10		Niha	OK
12	CCB1	CCB1	CCB	10/25/24 09:14		Niha	OK
13	LB133120BL	LB133120BL	MB	10/25/24 09:18		Niha	OK
14	P4368-12	MDL-WATER-06-QT4	SAM	10/25/24 09:22		Niha	OK
15	P4548-01	MW-1	SAM	10/25/24 09:26		Niha	OK
16	P4548-01DUP	MW-1DUP	DUP	10/25/24 09:30		Niha	OK
17	P4548-03	MW-2	SAM	10/25/24 09:34		Niha	OK
18	P4548-05	MW-3	SAM	10/25/24 09:38		Niha	OK

Instrument ID: WC TURBIDIMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB133120

Review By	Niha	Review On	10/25/2024 12:29:13 PM
Supervise By	Iwona	Supervise On	10/25/2024 2:31:53 PM
SubDirectory	LB133120	Test	Turbidity
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	WP110410,WP110405,WP110414,WP110404,WP110415,WP110408,WP110407,WP110406,W3116		

19	P4548-07	MW-4	SAM	10/25/24 09:42		Niha	OK
20	CCV2	CCV2	CCV	10/25/24 09:46		Niha	OK
21	CCB2	CCB2	CCB	10/25/24 09:50		Niha	OK

Instrument ID: DO METER

Daily Analysis Runlog For Sequence/QC Batch ID # LB133122

Review By	rubina	Review On	10/30/2024 1:33:50 PM
Supervise By	Iwona	Supervise On	10/30/2024 1:34:03 PM
SubDirectory	LB133122	Test	BOD5
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	WP110411, W3149, WP110386, W3103, W3109, W3105, WP110413, WP110412, WP108662		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB133122BL	LB133122BL	MB	10/25/24 09:30		rubina	OK
2	LB133122BS	LB133122BS	LCS	10/25/24 09:30		rubina	OK
3	P4548-01	MW-1	SAM	10/25/24 09:30		rubina	OK
4	P4548-01DUP	MW-1DUP	DUP	10/25/24 09:30		rubina	OK
5	P4548-03	MW-2	SAM	10/25/24 09:30		rubina	OK
6	P4548-05	MW-3	SAM	10/25/24 09:30		rubina	OK
7	P4548-07	MW-4	SAM	10/25/24 09:30		rubina	OK

Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB133123

Review By	jignesh	Review On	10/25/2024 10:14:40 AM
Supervise By	Iwona	Supervise On	10/25/2024 10:35:20 AM
SubDirectory	LB133123	Test	pH
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	W3107,W3093,W3094,W3071,W3005,W3072		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	10/25/24 09:42		jignesh	OK
2	CAL2	CAL2	CAL	10/25/24 09:43		jignesh	OK
3	CAL3	CAL3	CAL	10/25/24 09:45		jignesh	OK
4	ICV	ICV	ICV	10/25/24 09:50		jignesh	OK
5	CCV1	CCV1	CCV	10/25/24 10:00		jignesh	OK
6	P4548-01	MW-1	SAM	10/25/24 10:10		jignesh	OK
7	P4548-03	MW-2	SAM	10/25/24 10:15		jignesh	OK
8	P4548-05	MW-3	SAM	10/25/24 10:17		jignesh	OK
9	P4548-07	MW-4	SAM	10/25/24 10:19		jignesh	OK
10	P4549-02	TT-067-IDWGW-2024	SAM	10/25/24 10:20		jignesh	OK
11	P4549-03	TT-068-IDWGW-2024	SAM	10/25/24 10:25		jignesh	OK
12	P4549-04	TT-069-IDWGW-2024	SAM	10/25/24 10:30		jignesh	OK
13	P4549-04DUP	TT-069-IDWGW-2024	DUP	10/25/24 10:31		jignesh	OK
14	CCV2	CCV2	CCV	10/25/24 10:35		jignesh	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB133165

Review By	Niha	Review On	10/28/2024 12:54:05 PM
Supervise By	Iwona	Supervise On	10/28/2024 12:55:40 PM
SubDirectory	LB133165	Test	TSS
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	LB133165BL	LB133165BL	MB	10/28/24 09:00		Niha	OK
2	LB133165BS	LB133165BS	LCS	10/28/24 09:00		Niha	OK
3	P4548-01	MW-1	SAM	10/28/24 09:00		Niha	OK
4	P4548-03	MW-2	SAM	10/28/24 09:00		Niha	OK
5	P4548-05	MW-3	SAM	10/28/24 09:00		Niha	OK
6	P4548-07	MW-4	SAM	10/28/24 09:00		Niha	OK
7	P4548-07DUP	MW-4DUP	DUP	10/28/24 09:00		Niha	OK
8	P4554-01	001-WILLETS-PT-BL	SAM	10/28/24 09:00		Niha	OK
9	P4554-02	002-35TH-AVE(SEP)	SAM	10/28/24 09:00		Niha	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB133166

Review By	Niha	Review On	10/28/2024 11:31:21 AM
Supervise By	Iwona	Supervise On	10/28/2024 11:37:43 AM
SubDirectory	LB133166	Test	TDS
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	LB133166BL	LB133166BL	MB	10/25/24 12:30		Niha	OK
2	LB133166BS	LB133166BS	LCS	10/25/24 12:30		Niha	OK
3	P4548-01	MW-1	SAM	10/25/24 12:30		Niha	OK
4	P4548-03	MW-2	SAM	10/25/24 12:30		Niha	OK
5	P4548-05	MW-3	SAM	10/25/24 12:30		Niha	OK
6	P4548-07	MW-4	SAM	10/25/24 12:30		Niha	OK
7	P4548-07DUP	MW-4DUP	DUP	10/25/24 12:30		Niha	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB133173

Review By	rubina	Review On	10/29/2024 4:07:28 PM
Supervise By	Iwona	Supervise On	10/29/2024 4:10:44 PM
SubDirectory	LB133173	Test	Ammonia
STD. NAME	STD REF.#		
ICAL Standard	WP110445		
ICV Standard	WP110447		
CCV Standard	WP110446		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP110181		
Chk Standard	WP110416,WP110019,WP108709,WP108840,WP110449		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	10/28/24 12:51		rubina	OK
2	0.1PPM	0.1PPM	CAL2	10/28/24 12:51		rubina	OK
3	0.2PPM	0.2PPM	CAL3	10/28/24 12:51		rubina	OK
4	0.4PPM	0.4PPM	CAL4	10/28/24 12:51		rubina	OK
5	1.0PPM	1.0PPM	CAL5	10/28/24 12:51		rubina	OK
6	1.3PPM	1.3PPM	CAL6	10/28/24 12:51		rubina	OK
7	2.0PPM	2.0PPM	CAL7	10/28/24 12:51		rubina	OK
8	ICV1	ICV1	ICV	10/28/24 13:31		rubina	OK
9	ICB1	ICB1	ICB	10/28/24 13:31		rubina	OK
10	CCV1	CCV1	CCV	10/28/24 13:31		rubina	OK
11	CCB1	CCB1	CCB	10/28/24 13:31		rubina	OK
12	RL	RL	SAM	10/28/24 13:31		rubina	OK
13	PB164383BL	PB164383BL	MB	10/28/24 13:32		rubina	OK
14	PB164383BS	PB164383BS	LCS	10/28/24 13:42		rubina	OK
15	P4368-09	MDL-WATER-03-QT4	SAM	10/28/24 13:42		rubina	OK
16	P4490-01	EFFLUENT	SAM	10/28/24 13:42	High	rubina	Dilution
17	P4490-05	INFLUENT	SAM	10/28/24 13:42	High	rubina	Dilution
18	P4548-01	MW-1	SAM	10/28/24 13:42		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB133173

Review By	rubina	Review On	10/29/2024 4:07:28 PM
Supervise By	Iwona	Supervise On	10/29/2024 4:10:44 PM
SubDirectory	LB133173	Test	Ammonia
STD. NAME	STD REF.#		
ICAL Standard	WP110445		
ICV Standard	WP110447		
CCV Standard	WP110446		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP110181		
Chk Standard	WP110416,WP110019,WP108709,WP108840,WP110449		

19	P4548-01DUP	MW-1DUP	DUP	10/28/24 13:42		rubina	OK
20	P4548-01MS	MW-1MS	MS	10/28/24 13:53		rubina	OK
21	P4548-01MSD	MW-1MSD	MSD	10/28/24 13:53		rubina	OK
22	CCV2	CCV2	CCV	10/28/24 13:53		rubina	OK
23	CCB2	CCB2	CCB	10/28/24 13:53		rubina	OK
24	P4548-03	MW-2	SAM	10/28/24 13:53	High	rubina	Dilution
25	P4548-05	MW-3	SAM	10/28/24 13:53	High	rubina	Dilution
26	P4548-07	MW-4	SAM	10/28/24 13:53	High	rubina	Dilution
27	PB164463BL	PB164463BL	MB	10/28/24 13:53		rubina	OK
28	PB164463BS	PB164463BS	LCS	10/28/24 13:53		rubina	OK
29	P4368-03	MDL-SOIL-03-QT4-20	SAM	10/28/24 14:01		rubina	OK
30	CCV3	CCV3	CCV	10/28/24 14:01		rubina	OK
31	CCB3	CCB3	CCB	10/28/24 14:01		rubina	OK
32	P4490-01DL	EFFLUENTDL	SAM	10/28/24 14:41	Report 10X	rubina	Confirms
33	P4490-05DL	INFLUENTDL	SAM	10/28/24 14:41	Report 5X	rubina	Confirms
34	P4548-03DL	MW-2DL	SAM	10/28/24 14:41	Report 10X	rubina	Confirms
35	P4548-05DL	MW-3DL	SAM	10/28/24 14:41	Report 5X	rubina	Confirms
36	P4548-07DL	MW-4DL	SAM	10/28/24 14:41	Report 5X	rubina	Confirms
37	CCV4	CCV4	CCV	10/28/24 14:41		rubina	OK
38	CCB4	CCB4	CCB	10/28/24 14:41		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB133176

Review By	rubina	Review On	10/29/2024 4:08:48 PM
Supervise By	Iwona	Supervise On	10/29/2024 4:10:50 PM
SubDirectory	LB133176	Test	TKN
STD. NAME	STD REF.#		
ICAL Standard	WP110451		
ICV Standard	WP110453		
CCV Standard	WP110452		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP110454		
Chk Standard	WP110416,WP110019,WP108709,WP108840,WP110455		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	10/28/24 15:12		rubina	OK
2	0.5PPM	0.5PPM	CAL2	10/28/24 15:12		rubina	OK
3	1.0PPM	1.0PPM	CAL3	10/28/24 15:12		rubina	OK
4	2.5PPM	2.5PPM	CAL4	10/28/24 15:12		rubina	OK
5	5.0PPM	5.0PPM	CAL5	10/28/24 15:12		rubina	OK
6	6.7PPM	6.7PPM	CAL6	10/28/24 15:12		rubina	OK
7	10.0PPM	10.0PPM	CAL7	10/28/24 15:12		rubina	OK
8	ICV1	ICV1	ICV	10/28/24 16:09		rubina	OK
9	ICB1	ICB1	ICB	10/28/24 16:09		rubina	OK
10	CCV1	CCV1	CCV	10/28/24 16:09		rubina	OK
11	CCB1	CCB1	CCB	10/28/24 16:09		rubina	OK
12	RL	RL	SAM	10/28/24 16:09		rubina	OK
13	PB164408BL	PB164408BL	MB	10/28/24 16:09		rubina	OK
14	PB164408BS	PB164408BS	LCS	10/28/24 16:20		rubina	OK
15	P4368-09	MDL-WATER-03-QT4	SAM	10/28/24 16:20		rubina	OK
16	P4548-01	MW-1	SAM	10/28/24 16:20		rubina	OK
17	P4548-01DUP	MW-1DUP	DUP	10/28/24 16:20		rubina	OK
18	P4548-01MS	MW-1MS	MS	10/28/24 16:20		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB133176

Review By	rubina	Review On	10/29/2024 4:08:48 PM
Supervise By	Iwona	Supervise On	10/29/2024 4:10:50 PM
SubDirectory	LB133176	Test	TKN
STD. NAME	STD REF.#		
ICAL Standard	WP110451		
ICV Standard	WP110453		
CCV Standard	WP110452		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP110454		
Chk Standard	WP110416,WP110019,WP108709,WP108840,WP110455		

19	P4548-01MSD	MW-1MSD	MSD	10/28/24 16:20		rubina	OK
20	P4548-03	MW-2	SAM	10/28/24 16:30	High	rubina	Dilution
21	P4548-05	MW-3	SAM	10/28/24 16:30		rubina	OK
22	CCV2	CCV2	CCV	10/28/24 16:30		rubina	OK
23	CCB2	CCB2	CCB	10/28/24 16:30		rubina	OK
24	P4548-07	MW-4	SAM	10/28/24 16:30		rubina	OK
25	PB164474BL	PB164474BL	MB	10/28/24 16:30		rubina	OK
26	PB164474BS	PB164474BS	LCS	10/28/24 16:30		rubina	OK
27	P4368-03	MDL-SOIL-03-QT4-20	SAM	10/28/24 16:37		rubina	OK
28	CCV3	CCV3	CCV	10/28/24 16:37		rubina	OK
29	CCB3	CCB3	CCB	10/28/24 16:37		rubina	OK
30	P4548-03DL	MW-2DL	SAM	10/28/24 16:57	Report 2X	rubina	Confirms
31	CCV4	CCV4	CCV	10/28/24 16:57		rubina	OK
32	CCB4	CCB4	CCB	10/28/24 16:58		rubina	OK

Instrument ID: TITRATOR

Daily Analysis Runlog For Sequence/QC Batch ID # LB133279

Review By	Niha	Review On	11/5/2024 9:46:37 AM
Supervise By	Iwona	Supervise On	11/5/2024 10:41:19 AM
SubDirectory	LB133279	Test	Alkalinity
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	WP110531		
Chk Standard	W3107,W3071,W3150		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB133279BLW	LB133279BLW	MB	11/04/24 10:15	pH=3.87	Iwona	OK
2	LB133279BSW	LB133279BSW	LCS	11/04/24 10:19	pH=4.38	Iwona	OK
3	P4548-01	MW-1	SAM	11/04/24 10:25	pH=4.29	Iwona	OK
4	P4548-01DUP	MW-1DUP	DUP	11/04/24 10:29	pH=4.32	Iwona	OK
5	P4548-03	MW-2	SAM	11/04/24 10:35	pH=4.40	Iwona	OK
6	P4548-05	MW-3	SAM	11/04/24 10:41	pH=4.38	Iwona	OK
7	P4548-07	MW-4	SAM	11/04/24 10:46	pH=4.27	Iwona	OK



SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. **Bottle # P4548**
QUOTE NO. **B2410024**
COC Number **2042090**

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: **LKB, INC.**
ADDRESS: **1 AERIAL WAY**
CITY: **SYOSSET** STATE: **NY** ZIP: **11791**
ATTENTION: **JOHN GERLACH**
PHONE: **516-210-8931** FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: **ANSONIA LANDFILL**
PROJECT NO.: **0774-08** LOCATION: **CT**
PROJECT MANAGER: **JOHN GERLACH**
e-mail: **jgerlach@LKBINC.COM**
PHONE: **SAME** FAX:

CLIENT BILLING INFORMATION

BILL TO: **LKB, INC.** PO#: **NA for Lab**
ADDRESS: **SAME**
CITY: STATE: ZIP:
ATTENTION: **SHARON F.** PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

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

DATA DELIVERABLE INFORMATION

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

VOCs SEE BOTTLE ORDER # B2410024

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	MW-1	GW	X		10/23/24	10:05A	10		X								SAMPLES FOR DISS. Fe + Mn FILTERED IN FIELD.
2.	MW-2		X			12:15P	10		X								
3.	MW-3		X			11:00A	10		X								
4.	MW-4		X			11:30A	10		X								
5.	TRIP BLANK	DI	X				2	X									
6.																	
7.																	
8.																	
9.																	
10.																	

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

RELINQUISHED BY SAMPLER:	DATE/TIME: 7:50A 10/24/24	RECEIVED BY: [Signature] 1024-2024	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP 3.02 °C
1. [Signature]		1. [Signature] 1340	Comments:
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
2.		2.	
RELINQUISHED BY SAMPLER:	DATE/TIME: 1905 10-24-2024	RECEIVED BY: [Signature]	
3. [Signature]		3. [Signature]	

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete
☐ YES ☐ NO



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

Laboratory Certification

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4548	LOCK01	Order Date : 10/24/2024 3:18:00 PM	Project Mgr :
Client Name : Lockwood, Kessler & Barth		Project Name : Ansonia Landfill 2024	Report Type : Level 2
Client Contact : John Gerlach		Receive Date/Time : 10/23/2024 12:00:00 AM	EDD Type : EXCEL NOCLEANUP
Invoice Name : Lockwood, Kessler & Barth		Purchase Order : 19:05	Hard Copy Date :
Invoice Contact : John Gerlach			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4548-01	MW-1	Water	10/23/2024	10:05	VOCMS Group1		8260-Low	10 Bus. Days	
P4548-03	MW-2	Water	10/23/2024	12:15	VOCMS Group1		8260-Low	10 Bus. Days	
P4548-05	MW-3	Water	10/23/2024	11:00	VOCMS Group1		8260-Low	10 Bus. Days	
P4548-07	MW-4	Water	10/23/2024	11:30	VOCMS Group1		8260-Low	10 Bus. Days	
P4548-09	TRIP BLANK	Water	10/23/2024	00:00	VOCMS Group1		8260-Low	10 Bus. Days	

Relinquished By :

Date / Time : 10/25/24 0900

Received By :

Date / Time : 10/25/24 0900 Ref # 4

Storage Area : VOA Refridgerator Room