

IFA-Proficiency Testing Scheme for Water Analysis

Round N168
Major Ions

Sample Dispatch: 4 September 2023

In accordance with the procedure: AVKPS.01

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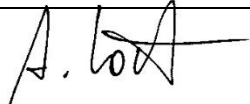
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Round: N168	Date / Signature:	9.10.2023	

Report: 1st edition, created on 6 October 2023 by Ing. Uta Kachelmeier
 185 pages

This report summarises the results of round N168 (major ions) within the IFA-Proficiency Testing Scheme for Water Analysis. The samples N168A and N168B were distributed to 55 participants on Monday, 4 September 2023. Each participant received two samples of 1000 mL, each filled into two 500 mL PET bottles.

Closing date for reporting results to the IFA-Tulln was Friday, 29 September 2023. All participants submitted results. To make the participants anonymous, each laboratory obtained a letter code by random.

Samples

The samples consisted of artificial ground water. For sample preparation, ultrapure water was spiked with solutions of salts and standards in order to simulate the ionic composition of natural Austrian ground water. The following substances were added to the samples: CaCO_3 , CaCl_2 , $\text{Ca}(\text{NO}_3)_2$, MgSO_4 , $\text{Mg}(\text{NO}_3)_2$, NaCl , NaHCO_3 , K_2SO_4 , KCl , KHCO_3 , diethyl ethylphosphonate ($\text{C}_6\text{H}_{15}\text{PO}_3$, for total-P), potassium hydrogen phthalate (for DOC) and certified standard solutions of NaNO_2 , Na_2SiO_3 , NH_4Cl , KH_2PO_4 , H_3BO_3 , NaF and $\text{Zn}(\text{CN})_2/\text{KCN}$. Both samples, N168A and N168B, contained free CO_2 , which was used for dissolution of CaCO_3 and neutralisation of Na_2SiO_3 . No other substances (e.g. preservatives) were added. The samples were stabilised by sterile filtration and low temperature.

Homogeneity, accuracy and stability tests at the IFA-Tulln

The samples were checked for homogeneity and accuracy at the IFA-Tulln before dispatch. The results of the measurements are listed in the result tables and the parameter oriented part of the report ("IFA result").

To verify stability, the parameters DOC, NH_4^+ , NO_2^- , o-PO_4^{3-} and CN^- of samples N168A and N168B were determined in several samples four weeks after shipment. The results are listed in the result tables ("Stability test") and the parameter oriented part of the report ("IFA result"). Stability tests for all other parameters will be carried out together with the accuracy tests of the following round (N169).

According to our experience, the samples remain stable up to 18 months for the parameters conductivity, total hardness, alkalinity, Ca^{2+} , Mg^{2+} , Na^+ , K^+ , NO_3^- , Cl^- , SO_4^{2-} , boron, HCO_3^- , F^- and Si when stored at 4°C in the dark. For the parameters CN^- , NH_4^+ , NO_2^- , o-PO_4^{3-} , total-P, and DOC the samples remain stable several weeks, whereas the first changes normally are observed for NH_4^+ and cyanide.

Results

Data evaluation was based on target concentrations that were calculated from the weights of the substances and standards used to produce the samples. Their uncertainty intervals correspond to the expanded uncertainty (coverage factor $k=2$) as described in the EURACHEM/CITAC Guide "Quantifying Uncertainty in Analytical Measurement, 3rd Edition (2012)".

The target value of the electrical conductivity was set to the laboratory mean (conventional value). When calculated from more than 20 results with a standard deviation between the laboratories of about 1 %, the conventional value has a confidence interval that is smaller than the uncertainty of our estimate calculated from the target concentrations by Debye-Hückel's theory: 2.4 % ($p = 95\%$). However, the calculated electrical conductivity was $607\ \mu\text{S}/\text{cm}$ in sample N168A and $404\ \mu\text{S}/\text{cm}$ in sample N168B.

For the pH no target values can be assigned. The results can be compared on the tables. In this kind of samples containing CO_2 , the pH tends to increase slowly over time.

Total phosphorus after digestion had to be determined according to DIN EN ISO 6878. Diethyl ethylphosphonate ($C_6H_{15}PO_3$), which can be determined as phosphate only after oxidative digestion and potassium dihydrogen phosphate (KH_2PO_4) were used for preparation. The target values of total-P were calculated from the weights of the two substances. The results were given in mg/L PO_4^{3-} .

Cyanide (easily liberatable) had to be determined according to ISO 14403 - 2:2012 (ISO 6703 - 2:1984; DIN 38405 - D13). A certified potassium cyanide - zinc cyanide standard solution was used for preparation of the interlaboratory comparison samples. The major advantage of the zinc complex over free cyanide is its excellent stability behaviour at neutral pH. The results were given in mg/L CN^- .

No Phosphorus substances were added to sample N168A and ammonium was not added to sample N168B in order to check the analytical blank values. The target concentrations were set to <0.009 mg/L $o-PO_4^{3-}$, <0.009 mg/L total-P (as PO_4^{3-}) in N168A and <0.01 mg/L NH_4^+ in sample N168B which meets the minimum quantifiable values defined by the Austrian ground and river water monitoring program and the quantification limits of the analytical methods applied in the IFA.

Recoveries for individual laboratory results and overall mean values are related to the target concentrations. The results were tested for outliers by application of the Hampel outlier test (level of significance 99 %).

The recoveries of the target concentrations, calculated from outlier-corrected data mean values ranged between 88.5 % (cyanide in sample N168A) and 105.0 % (DOC in sample N168A).

The between laboratory CVs covered the range between 0.9 % (conductivity in sample N168B) and 28.2 % (ammonium in sample N168A).

All confidence intervals of the outlier-corrected laboratory mean values except alkalinity in sample N168A ($97.7\% \pm 0.6\%$) and DOC in sample N168A ($105.0\% \pm 2.8\%$) encompass the corresponding target values with their uncertainties. For all other parameters, statistically, no difference could be detected between theoretical target concentrations and outlier corrected laboratory means.

z-scores

The most common approach is to form the z-score given by

$$z = \frac{x_i - X}{\sigma_{PT}}$$

z	z-score
x_i	result of laboratory
X	target value or mean value („consensus value“)
σ_{PT}	standard deviation for proficiency assessment

Thus, the z-score is the ratio of the estimated bias (difference between result and target value) and a standard deviation. The standard deviations for proficiency assessment were determined from the results of all interlaboratory comparisons that have been organised by the IFA-Tulln from 2012 to 2022. They represent average performance data of all former participating laboratories.

This approach was chosen, because standard deviations of the outlier-corrected measurements substantially vary between individual proficiency test rounds. Averaging standard deviations from proficiency testing rounds of several years can provide standard deviations for proficiency assessment on a broad data basis. It is therefore more suitable than a standard deviation taken directly from the interlaboratory comparison (EN ISO/IEC 17043:2010, B.3.1.3). Another advantage of previously determined standard deviations is that the participants can foresee which z-scores can be expected by their routine analysis methods before participation.

Calculation example:

A laboratory found 7.00 mg/L for the parameter DOC (recovery of 116 %). The target value for the DOC was 6.02 mg/L (100 %). The relative standard deviation for proficiency assessment is given in the table below (as well as in the annual program www.ifatest.eu) by 5.4 %, which is 0.33 mg/L DOC, when based on the target value.

$$z = \frac{x_i - X}{\sigma_{pt}} = \frac{7.00 \text{ mg/L} - 6.02 \text{ mg/L}}{0.33 \text{ mg/L}} \approx 3.0 \quad \text{or} \quad \frac{116 \% - 100 \%}{5.4 \%} \approx 3.0$$

z	z-score
x_i	7.00 mg/L equivalent to 116 % (value of the laboratory)
X	6.02 mg/L equivalent to 100 % (target value)
σ_{pt}	0.33 mg/L equivalent to 3.0 % (standard deviation for proficiency assessment, see table below)

In the case of recalculation, deviations in the last digits may occur due to the fact that rounded values are given in the report for clarity.

The following table lists the z-score criteria as relative standard deviation and their limits of applicability. Z-scores were only calculated, if the target values were higher than these limits.

Parameter	standard deviation for proficiency assessment	Lower limit
Alkalinity $K_{S4.3}$	1.9 %	0.2 mmol/L
Ammonium	11 %	0.01 mg/L
Boron	7.3 %	0.012 mg/L
Calcium	3.2 %	9 mg/L
Chloride	2.9 %	2 mg/L
el. Conductivity	1.2 %	50 μ S/cm
Cyanide	16 %	0.01 mg/L
DOC	5.4 %	1 mg/L
Fluoride	7.0 %	0.2 mg/L
Hydrogen carbonate	2.4 %	20 mg/L
Magnesium	3.5 %	1 mg/L
Nitrate	3.1 %	2 mg/L
Nitrite	5.4 %	0.01 mg/L
Orthophosphate	9.5 %	0.015 mg/L
Potassium	4.3 %	0.5 mg/L
Silicon	4.6 %	0.9 mg/L
Sodium	3.2 %	1 mg/L
Sulphate	3.1 %	3 mg/L
Total hardness	2.8 %	0.1 mmol/L
Total-P (as PO_4^{3-})	9.4 %	0.015 mg/L

Normally, a classification based on z-scores is made this way:

z-Score	Classification
≤ 2	satisfactory
$2 < z < 3$	questionable
≥ 3	unsatisfactory

The z-scores are listed in the parameter-oriented evaluation in the tables next to the recoveries. Additionally, each laboratory receives a sheet on which the obtained z-scores are summarized and graphically presented. The standard deviations for proficiency assessment are given in concentration units there.

An overview table of all z-scores can be found after the result tables in the parameter-oriented part.

Illustration of results

An explanation to the illustration of the results is given on the following page.

The **laboratory oriented part** contains the measurement results and reported uncertainties of each individual laboratory for all parameters together with the achieved recoveries in graphical and tabular form. This part of the report also lists tables with the results originally reported by the laboratories.

In the **parameter oriented part** the reported results and corresponding uncertainties are illustrated together with recoveries of the target values and the z-scores for each parameter and all laboratories. This information is presented in graphical and tabular form.

Results, which were identified as outliers by the Hampel test are marked with an asterisk (*). These values were not considered for the calculation of statistical parameters (mean values, standard deviations and confidence intervals). Moreover, the parameter oriented part contains the uncertainties of the target values. The uncertainty intervals correspond to the expanded uncertainty (coverage factor $k = 2$) as described in the EURACHEM / CITAC Guide "Quantifying Uncertainty in Analytical Measurement", 3rd Edition (2012)". The uncertainty interval of the reference concentration is illustrated in the graphs as a grey band around the 100 % recovery line.

Results, for which no recoveries could be calculated, are illustrated by one of the following symbols: **FN** (false negative), **FP** (false positive) or • - symbol.

- "FN": A result is considered false negative when the "< result" reported is lower than the corresponding target value or the measured value was given as "0" when the substance was added.
- "FP": False positive results can only be obtained for compounds that were evaluated on the basis of a "< target value". A result is termed FP if it does not include (strike) the "< target" with its measurement uncertainty.
- "•": All other results for which no recoveries can be calculated are illustrated by this symbol

Tulln, 6 October 2023

Sample M106A
Parameter Copper

Target value ± U (k=2) 4,79 µg/l ± 0,13 µg/l
 IFA result ± U (k=2) 4,79 µg/l ± 0,38 µg/l
 Stability test ± U (k=2) 4,69 µg/l ± 0,38 µg/l

*Obtained from sample preparation, U=uncertainty
 Determined at IFA prior to shipment of samples*
Determined at IFA 3 weeks after sample dispatch

Lab Code	Result	±	Unit	Recovery	z-Score
A	5,16	0,4128	µg/l	108%	0,90
B	4,22	0,42	µg/l	88%	-1,38
C	4,45	0,13	µg/l	93%	-0,83
D			µg/l		
E			µg/l		
F	4,10	0,08	µg/l	86%	-1,68
G			µg/l		
H			µg/l		
I	4,75	0,74	µg/l	99%	-0,10
J	<5		µg/l	.	.
K	4,76		µg/l	99%	-0,07
L	<10		µg/l	.	.
M	4,8	0,5	µg/l	100%	0,02
N	3,7	0,4	µg/l	77%	-2,65
O	4,47	0,447	µg/l	93%	-0,78
P	6,0		µg/l	125%	2,94
Q	4,17	0,2	µg/l	87%	-1,51
R	4,6	0,8	µg/l	96%	-0,46
S	4,44	0,67	µg/l	93%	-0,85
T			µg/l		
U	4,675	0,935	µg/l	98%	-0,28
V	5,0	0,50	µg/l	104%	0,51
W	3,54	0,3	µg/l	74%	-3,03
X	7,108 *	0,749	µg/l	148%	5,63
Y	<10		µg/l	.	.
Z			µg/l		
AA	<3,0		µg/l	FN	
AB	3,775	0,107	µg/l	79%	-2,46
AC	<10,0		µg/l	.	.

Recovery of target value in percent

z-Score of the laboratory

An asterik indicates a result detected as outlier by Hampel test

Interval expected to encompass target value as stated by participant

	All results	Outliers excl.	Unit
Mean ± CI(99%)	4,65 ± 0,57	4,51 ± 0,42	µg/l
Recov. ± CI(99%)	97,1 ± 12,0	94,1 ± 8,8	%
SD between labs	0,84	0,59	µg/l
RSD between labs	18,1	13,2	%
n for calculation	18	17	

Between laboratory standard deviation

Laboratory mean and recovery of target value with corresponding confidence intervals (p=99%)

Number of results used for calculation of statistic parameters

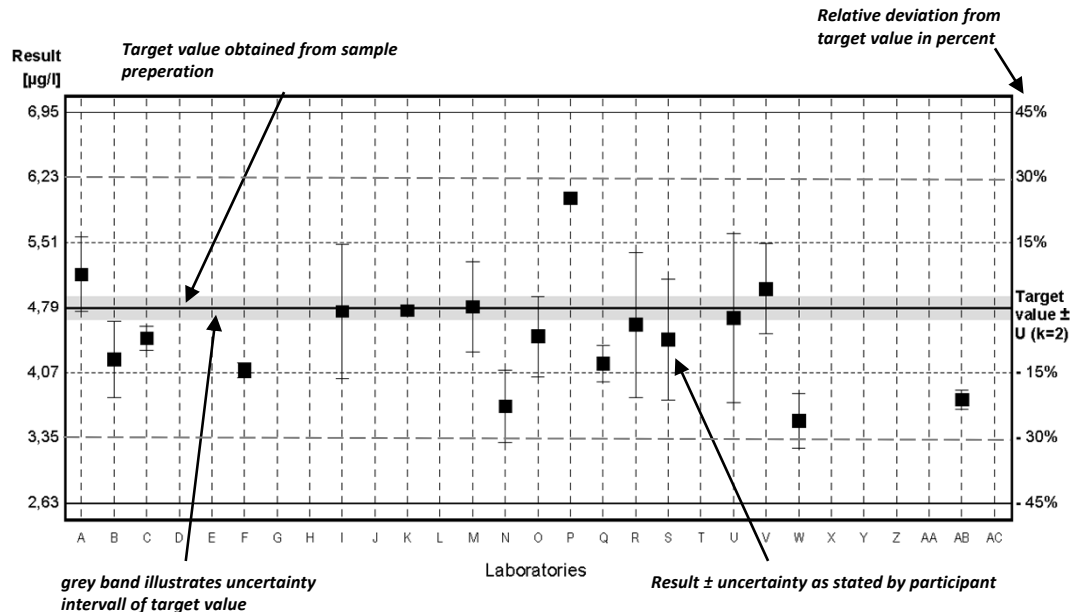


Diagram 1: Measurement results and their uncertainties

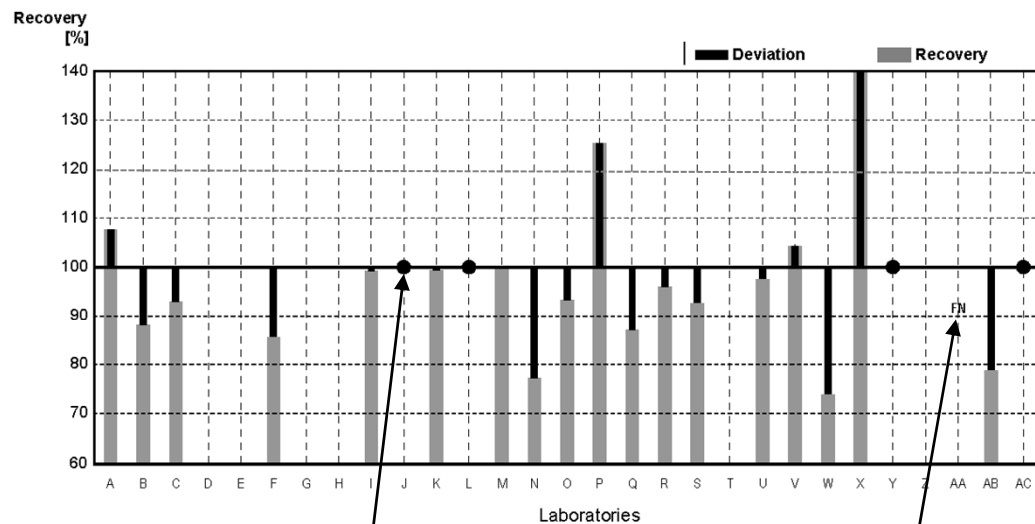


Diagram 2: Recoveries and deviations from target values

EXPLANATION

Illustration of Results Tables and Parameter Oriented Part

Round N168
Major Ions

Sample Dispatch: 4 September 2023

Results Sample N168A

	pH	Cond.	total-Hardn.	K _{S 4.3}	HCO ₃ ⁻	Ca ²⁺	Mg ²⁺	Na ⁺	K ⁺	NO ₃ ⁻	NO ₂ ⁻
Unit		μS/cm	mmol/L	mmol/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		614	2.60	3.33	200	73.9	18.4	18.14	8.07	43.8	0.0448
IFA result	6.24	617	2.68	3.21	193	77	18.7	18.1	7.7	44.1	0.0441
Stability test											0.0448
A	6.33	612	2.54	3.42		71.4	18.6	17.5	7.61	43.7	0.0404
B	6.2	618	149.94	3.32	203	76.79	18.42	17.94	8.15	48.42	0.0460
C	6.21							18.12	6.89	36.07	
D	6.11	607.5	2.63	3.071	187	74.45	18.6	17.4	8.46	48.25	0.0430
E										43.1	0.068
F	6.1	619	2.66	3.21	196	75	19.6	18.9	8.8	45.9	0.0470
G	6.22	409		3.22						43.8	0.0370
H	6.3	612	2.57	3.24	197.9	73.0	18.1	17.8	8.1	44.3	0.0408
I		611								40.0	<0.1
J	6.54	616	2.63	3.27	199.5	74.1	19.0	18.2	8.25	41.55	0.0447
K	6.187	628	2.68	3.225	194	75.6	19.2	16.5	7.4	43.9	0.0464
L	6.42	613	2.59	3.27	199	73.0	18.7	18.4	8.40	43.8	0.113
M										>30	
N	7.09	616	2.62	3.29	197.67	75.24	17.99	18.32	8.10	42.64	0.0460
O	6.33	621	2.59	3.28	197	73.1	18.5	18.0	7.96	42.9	0.0443
P	6.32	607.3	2.64	3.19	192	75.4	18.5	18.3	8.17	44.6	0.0458
Q											
R	6.32	610	2.589	3.266		72.301	19.087	18.369	8.003	42.484	0.0476
S	6.43	625	2.62	3.28	197	74.9	18.3	18.2	8.03	42.1	0.0479
T	6.28	618	2.61	3.25	195	73.5	18.7	18.0	8.66	42.7	0.0459
U	6.12	620	14.3	3.20	195	75	16.9	18.3	8.3	42.6	0.0453
V	6.1	629	2.60	3.348	201	72.591	19.271	18.813	8.372	42.996	0.0460
W	6.68	599	2.64	3.22	197	75.3	18.6	18.3	8.44	44.0	0.0426
X	6.07	605	2.64			74.8	18.8	18.1	8.1	44.7	0.0450
Y	6.0	614	2.59	3.29	200.7	74.0	18.0	18.2	7.9	43.3	0.0446
Z	6.3	610	2.60	3.31	199	74	18.3	18.1	7.9	46.0	0.0464

Measurement Uncertainties Sample N168A

	pH ±	Cond. ±	total- Hardn.	K _S 4.3 ±	HCO ₃ ⁻ ±	Ca ²⁺ ±	Mg ²⁺ ±	Na ⁺ ±	K ⁺ ±	NO ₃ ⁻ ±	NO ₂ ⁻ ±
Unit		µS/cm	mmol/L	mmol/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		2	0.03	0.04	3	1.2	0.3	0.13	0.05	1.1	0.0004
IFA result	0.20	9	0.10	0.13	8	3	1.0	1.1	0.4	2.4	0.0022
Stability test											0.0022
A	0.39	15	0.25	0.17		1.7	1.7	1.23	1.03	6.3	0.0019
B	0.18	12.2	22.49	0.498	30.5	3.32	0.80	0.80	0.36	7.98	0.0027
C	0.02							1.812	0.689	7.214	
D	0.04	14.0	0.025	0.025	10	2	0.4	1	0.2	1	0.01
E										1.6	0.001
F		12	0.18	0.17	16	6	1.6	2.3	1.0	3.7	0.005
G	0.03	8		0.10						4.4	0.0023
H	0.2	24	0.134	0.19	11.7	3.5	1.2	0.9	0.3	4.3	0.0048
I		11								4.2	
J	0.1	10	0.27	0.33	20	15	3.8	2.7	1.7	4.2	0.0082
K	0.204	18.2		0.161		11.34	2.88	2.475	1.11	6.585	0.0093
L	0.20	18	0.36	0.33	20	7.3	1.9	1.8	0.84	2.2	0.034
M											
N	0.1	4.51		0.33		7.5	1.8	1.8	0.8	4.2	0.005
O	0.2	62	0.26	0.33	20	7.3	1.9	1.8	0.80	4.3	0.0044
P											
Q											
R	0.22	18.3				3.83	1.53	1.27	0.46	1.99	0.0046
S	0.0643	2.25	0.0367	0.115	3.94	0.790	0.753	0.262	0.287	0.442	0.00121
T	0.30	18	0.21	0.13	8	3.7	1.1	0.8	0.69	2.6	0.004
U	0.13	18	2.6	0.15	8	9.7	2.0	2.2	1.1	1.6	0.0018
V	0.18	35.8	0.3	0.167	20.1	7.26	1.93	1.88	0.84	2.15	0.005
W	0.014	6.03	0.085	0.006	1.2	2.4	0.66	0.51	0.16	0.40	0.0003
X	0.20	60.5	0.21			6.0	1.5	1.4	0.89	5.4	0.005
Y	0.2	61.4	0.39			11.1	2.7	2.7	1.2	6.5	0.007
Z	0.10	18.3	0.260	0.331	19.9	7.4	1.83	1.81	1.19	4.60	0.00928

Results Sample N168A

	pH	Cond.	total-Hardn.	K _{S 4.3}	HCO ₃ ⁻	Ca ²⁺	Mg ²⁺	Na ⁺	K ⁺	NO ₃ ⁻	NO ₂ ⁻
Unit		µS/cm	mmol/L	mmol/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		614	2.60	3.33	200	73.9	18.4	18.14	8.07	43.8	0.0448
IFA result	6.24	617	2.68	3.21	193	77	18.7	18.1	7.7	44.1	0.0441
Stability test											0.0448
AA	6.38	616	2.60	3.25	195	73.8	18.5	17.9	8.12	43.7	0.0460
AB		608		3.22	196						
AC	6.3	623	2.47	3.19	194.6	70.5	17.3	17.3	7.46	42.7	0.0477
AD	6.0	610	2.85		100	79	19.8	41.1	16.7	99	0.055
AE	6.23	624	2.44	3.26	199	69.5	17.0	18.8	7.90	43.8	0.0427
AF			2.543	3.258	198.81						
AG		617.9	2.60	3.28	200.14						
AH	6.16	601	2.48	3.23	194	70.7	17.5	16.8	7.7	41.5	0.051
AI	6.18	609.0	2.611	3.16	189.65	74.35	18.37	18.01	8.15	43.00	0.0451
AJ	6.31	617	2.65	3.10	189	76.26	19.15	17.57	8.03	42.7	0.0477
AK	6.20	610	2.65	3.24		75.45	18.74	19.66	8.35	43.46	0.0437
AL	6.46	611	2.56	3.28	197	73.4	17.7	17.6	8.13	43.1	0.0456
AM	6.163	610.6	2.6195	3.307		74.40	18.55	17.93	7.745	43.54	0.0470
AN	5.84	619		3.46						43.1	0.0481
AO	6.2	619	2.65	3.19	194.6	75.31	18.85	18.33	8.25	43.099	0.0460
AP	6.3	613	2.662	3.23	197.3	75.75	18.67	18.42	8.03	44.26	0.0427
AQ	6.30	614	2.59	3.30	201	72.93	18.60	17.32	8.20	43.8	0.00451
AR	6.19	610.25	2.83			151.95	22.35			43.58	
AS	6.15	619		3.25	196					42.3	0.0467
AT	6.44	606	2.58	3.24	194.3	73.95	17.85	17.7	7.87	42.9	0.0410
AU	6.1	615	2.65	3.22		74.9	19.1	18.2	8.25	41.6	0.0447
AV	6.14	617	2.611	3.247	195.1	76.53	17.07			43.29	
AW						73.796	17.753	17.515			
AX	6.2	622	2.664	3.335	200.4	75.7	18.9	18.9	8.2	44.6	0.055
AY	6.69	614	2.70	3.33	203	76.7	19.10	18.02	8.02	42.87	<0.03
AZ	7.45	520	2.46	3.19		69.0	17.8	17.2	8.17	41.6	0.0465
BA	6.08	613	2.50	3.41	208	70.6	18.0	17.1	7.27	9.72	0.0130
BB										43.280	
BC		613									

Measurement Uncertainties Sample N168A

	pH ±	Cond. ±	total- Hardn.	K _S 4.3 ±	HCO ₃ ⁻ ±	Ca ²⁺ ±	Mg ²⁺ ±	Na ⁺ ±	K ⁺ ±	NO ₃ ⁻ ±	NO ₂ ⁻ ±
Unit		µS/cm	mmol/L	mmol/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		2	0.03	0.04	3	1.2	0.3	0.13	0.05	1.1	0.0004
IFA result	0.20	9	0.10	0.13	8	3	1.0	1.1	0.4	2.4	0.0022
Stability test											0.0022
AA	0.3	25	0.1	0.2	8	6	2.3	2.7	1.1	4	0.004
AB		13		0.7	43						
AC	0.1	19	0.25	0.19	11.6	4.2	2.2	1.4	0.45	5.1	0.005
AD	0.5	2	0.01		2	0.5	0.5	0.5	0.5	0.2	0.01
AE	0.19	19	0.37	0.26	16	10	2.0	2.4	1.2	4.4	0.0047
AF			0.305	0.130	7.952						
AG		2	0.03	0.02	0.02						
AH	0.1	11	0.13	0.17	10	3.6	0.9	0.9	0.4	2.1	0.006
AI	0.25	13.4	0.10	0.07	3.98	2.90	0.86	0.86	0.52	2.88	0.003
AJ	0.12	25	0.26	0.31		6	1.15	1.4	0.88	3.84	0.004
AK	0.02	30	0.05	0.02		0.6	0.6	0.3	0.06	0.5	0.015
AL	0.258	24.4	0.461	0.131	7.88	13.2	3.19	3.17	1.46	3.88	0.004
AM	0.1479	17.0	0.10478	0.0168		3.79	0.556	0.520	0.209	2.786	0.00987
AN											
AO	0.2	61.9		0.427	29.20	7.531	1.885	1.833	0.825	2.1550	0.0069
AP	0.2	61.3				11.36	2.80	2.76	1.20	6.64	0.0085
AQ	0.0454	59.3	0.11	0.373	22.75	3.28	0.74	2.10	0.32	2.15978	0.00530
AR	0.1	2	0.53			5	2.5			0.8	
AS	0.0083	4.4		0.092	2.83					2.90	0.0047
AT		12	0.129	0.29	17.5	3.70	0.89	0.9	0.4	1.3	0.004
AU	0.1	10	0.5	0.5		15	3.8	2.7	1.7	4.2	0.015
AV	0.06	7.65	0.134	0.032	1.95	3.94	1.94			2.02	
AW						18.449	4.438	4.380			
AX		32.3	0.354			10.1	2.5	3.34	1.35	3.76	0.006
AY											
AZ	0.15	21	0.49	0.57		13.8	3.6	3.4	1.63	4.6	0.005
BA	1.2	123	0.5	0.68	41	10	3.6	2.6	1.7	0.97	0.0013
BB										0.065	
BC		3									

Results Sample N168A

	NH ₄ ⁺	Cl ⁻	SO ₄ ²⁻	o-PO ₄ ³⁻	Boron	DOC	total-P (as PO ₄ ³⁻)	CN ⁻	Silicon	F ⁻
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value	0.0303	41.0	46.6	<0.009	0.1403	5.06	<0.009	0.0397	4.49	0.701
IFA result	0.0309	41.2	47.9	<0.009	0.145	5.17	<0.009	0.0410	4.44	0.704
Stability test	0.0321			<0.009		5.18		0.0429		
A		41.4	47.7		0.135	4.74		0.0343	4.61	0.68
B				<0.030	0.1368	4.94		0.0340	4.53	0.768
C		39.25	47.49							
D	0.0100	43.75	45.975				0.00150			
E										
F	0.0260	43.7	49.4	<0.009	0.136	5.1	<0.009			
G	<0.022			<0.005		6.8	0.0180			
H	0.0380	41.3	48.1	<0.010	0.143	5.6	<0.010			0.69
I	0.0300	41.1	44.4			5.8		0.0400		0.65
J	0.0294	38.44	44.19	<0.015	0.134	5.304	<0.015	n.b.	n.b.	0.68
K		41.2	48.7	<0.03	0.124		<0.03	0.0365	4.23	0.737
L	<0.05	41.8	48.0		0.132					
M	0.0313			<0.019			<0.02			
N	0.0290	40.59	45.35	<0.0015	0.144	5.64	<0.0036			
O	0.0360	41.9	45.5	<0.008	0.133	4.92	<0.015	0.0363	4.59	0.684
P	0.0348	42.8	48.5	<0.01	0.138	5.282	<0.03		4.75	0.67
Q						5.23	<0.01		4.358	
R	0.0318	41.628	45.847	<0.015	0.1345	5.064	<0.015	0.0274		0.709
S	0.0271	40.3	45.8	<0.0150	0.137	5.20	<0.0150	0.0381		0.691
T	0.0321	41.9	48.1	<0.006	0.136	5.08	<0.006	0.0352	4.54	0.793
U		42.6	45.4	<0.02		5.7	<0.02	0.0363		0.68
V	0.0340	40.888	46.766	<0.01	0.132	5.264	<0.01	0.0340	4.47	0.655
W	0.0270	41.2	47.5	<0.015	0.152	5.39	<0.015	0.0282	4.56	0.742
X	0.0370	42.6	47.5	<0.031	0.140	5.06	<0.015	0.0330	3.98	0.68
Y	<0.04	41.8	45.5	<0.03	0.132	5.0	<0.03	0.0320	4.38	0.74
Z	0.0252	44.3	49.6			5.8				0.71

Measurement Uncertainties Sample N168A

	NH₄⁺ ±	Cl⁻ ±	SO₄²⁻ ±	o-PO₄³⁻ ±	Boron ±	DOC ±	total-P (as PO₄³⁻) ±	CN⁻ ±	Silicon ±	F⁻ ±
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value	0.0047	1.5	0.9		0.0013	0.05		0.0016	0.03	0.018
IFA result	0.0020	1.5	1.2		0.011	0.09		0.0035	0.28	0.012
Stability test	0.0021					0.09		0.0036		
A		3.5	5.4		0.010	0.29		0.0067	0.24	0.03
B				0.0045	0.0065	0.741		0.0086	0.679	0.060
C		5.888	9.498							
D	0.01	1	1.5				0.05			
E										
F	0.00416	3.5	3.0		0.023	1.3				
G						0.4	0.002			
H	0.0077	3.3	3.3		0.0173	1.1				0.11
I	0.0030	4.1	4.4			0.5		0.0080		0.07
J	0.0048	3.9	4.5		0.034	0.530				0.07
K		6.18	7.305		0.031			0.009	1.06	0.074
L		2.0	2.4		0.013					
M	0.00150									
N	0.003	4.1	4.5		0.014	0.6				
O	0.0036	4.2	4.5		0.013	0.49		0.0036	0.46	0.068
P										
Q						0.8			0.3	
R	0.0022	1.54	2.15		0.029	0.56		0.01		0.11
S	0.00093	0.462	0.632		0.00094	0.0191		0.00048		0.0111
T	0.003	2.1	2.9		0.014	0.46		0.009	0.50	0.118
U		2.0	2.09	0.005		0.33	0.005	0.006		0.03
V	0.003	2.44	2.338		0.013	0.952		0.003	0.67	0.033
W	0.0003	0.36	0.45		0.003	0.092		0.001	0.012	0.009
X	0.011	3.8	4.8		0.025	0.61				0.12
Y		2.1	2.7		0.033	1.5				0.15
Z	0.00504	4.43	4.96			1.16				0.107

Results Sample N168A

	NH ₄ ⁺	Cl ⁻	SO ₄ ²⁻	o-PO ₄ ³⁻	Boron	DOC	total-P (as PO ₄ ³⁻)	CN ⁻	Silicon	F ⁻
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value	0.0303	41.0	46.6	<0.009	0.1403	5.06	<0.009	0.0397	4.49	0.701
IFA result	0.0309	41.2	47.9	<0.009	0.145	5.17	<0.009	0.0410	4.44	0.704
Stability test	0.0321			<0.009		5.18		0.0429		
AA	0.0290	42.1	48.0	<0.01		5.04	<0.013		4.60	
AB				0.0148				42.7		
AC	0.0369	41.2	46.9	<0.020	0.137	5.96	<0.030	0.0280	4.47	0.703
AD	0.081	96.4	112	<0.015	0.00250	4.82	<0.015	0.060	4.55	1.53
AE	0.0253	41.7	47.2	<0.015	0.139	5.59	<0.015	0.0400	4.28	0.871
AF										
AG										
AH	0.053	39.9	45.7	0.0180	0.131	5.9	0.0185	0.0270	4.31	0.64
AI	0.0265	41.91	46.11			5.278				
AJ	0.0531	39.8	47.0	<0.12	0.115	4.89	<0.06	0.0344		0.69
AK	0.0284	41.95	49.34			5.42				
AL	0.0392	40.5	46.2	0.0102	0.134	5.20	<0.05	0.0347	4.49	0.645
AM	0.03725	40.42	46.98	0.0071					4.435	0.6817
AN	0.0362	41.6	47.4	<0.02		5.71	<0.02		4.68	0.695
AO	0.0190	41.63	48.68	0.0090	0.191	5.30	0.03985	43.30	9.10	0.69
AP	<0.04	41.98	49.17	<0.15	0.128	5.06	<0.15			0.717
AQ	0.0773	41.1	47.4	<0.0307	0.146	5.20	<0.0153	0.0390	4.39	0.672
AR		42.65	49.68							
AS	0.0380	41.8		<0.006			<0.006			
AT	<0.040	40.7	46.5	<0.040	0.162	5.41	<0.06	0.0350	5.229	0.68
AU	0.0319	38.4	44.3		0.133					0.67
AV		40.09	46.60							
AW							0.0317		4.324	
AX	0.0140	42.5	46.2	0.0120		5.3		0.055		0.67
AY	0.0279	39.02	46.03	<0.10	0.138	5.73	<0.01	0.0470	3.11	0.648
AZ	<0.13	42.3	46.6	<0.15	0.146	15.2	<0.61	0.0425	4.43	0.665
BA	<0.03	40.6	47.9	<0.01	0.132	5.40	<0.02		4.49	0.764
BB		41.093	47.085			5.341				0.716
BC										0.767

Measurement Uncertainties Sample N168A

	NH ₄ ⁺ ±	Cl ⁻ ±	SO ₄ ²⁻ ±	o-PO ₄ ³⁻ ±	Boron ±	DOC ±	total-P (as PO ₄ ³⁻) ±	CN ⁻ ±	Silicon ±	F ⁻ ±
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value	0.0047	1.5	0.9		0.0013	0.05		0.0016	0.03	0.018
IFA result	0.0020	1.5	1.2		0.011	0.09		0.0035	0.28	0.012
Stability test	0.0021					0.09		0.0036		
AA	0.003	3	3			0.8			0.5	
AB				0.002				6		
AC	0.004	4.1	5.2		0.014	0.89		0.006	0.45	0.105
AD	0.01	0.3	0.2	0.001	0.01	0.1	0.001	0.01	0.1	0.1
AE	0.0020	4.2	7.6		0.018	1.1		0.0060	0.43	0.087
AF										
AG										
AH	0.006	2.0	2.3	0.0018	0.007	0.5	0.0019	0.0027	0.22	0.04
AI	0.004	1.97	2.31			0.92				
AJ	0.004	3.18	4.23		0.011	0.49		0.003		0.062
AK	0.080	0.25	3.0			0.03				
AL	0.004	3.65	4.16	0.001	0.024	0.468		0.003	0.180	0.058
AM	0.00409	1.738	1.456	0.00071					0.279	0.0477
AN										
AO	0.00190	2.082	2.434	0.00140	0.0229	0.420	0.0061	4.330	1.37	0.069
AP		6.30	7.45							0.143
AQ	0.00619	2.45016	3.33348	0.00635	0.010	0.78728		0.00304	0.13	0.06626
AR		1	5							
AS	0.0057	0.42		0			0			
AT		1.2	1.4		0.0162	1.08			0.5229	0.05
AU	0.015	3.9	4.5		0.033					0.25
AV		4.37	1.82							
AW							0.00951		1.081	
AX	0.003	3.54	2.98	0.003		0.99		0.020		0.144
AY										
AZ		3.4	4.7		0.022	5.3		0.006	0.89	0.07
BA	0.003	6.1	7.2	0.002	0.03	2.2	0.008		0.67	0.15
BB		0.100	0.096			0.117				0.001
BC										0.07

Results Sample N168B

	pH	Cond.	total-Hardn.	K _{S 4.3}	HCO ₃ ⁻	Ca ²⁺	Mg ²⁺	Na ⁺	K ⁺	NO ₃ ⁻	NO ₂ ⁻
Unit		μS/cm	mmol/L	mmol/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		409	1.285	2.04	121.4	35.8	9.54	29.2	5.76	11.0	0.0254
IFA result	6.31	412	1.31	1.98	118	36.3	9.8	29.2	5.5	11.0	0.0247
Stability test											0.0255
A	6.31	408	1.269	2.11		34.6	9.84	28.1	5.39	10.8	0.0235
B	6.2	410	71.68	2.04	124	35.18	9.74	28.63	5.77	11.31	0.0230
C	6.23							30.60	4.31	9.64	
D	6.24	407.1	1.316	1.891	115	36.2	9.83	28.55	6.21	11.375	0.0240
E										10.7	0.052
F	6.1	413	1.36	1.96	119	37.2	10.5	29.8	6.4	11.9	0.0270
G	6.26	617		1.98						11.1	0.0220
H	6.2	409	1.28	2.01	122.4	35.7	9.5	28.6	5.8	11.2	0.0226
I		410								10.9	<0.1
J	6.56	412	1.32	2.02	123.3	36.4	10.1	29.3	5.94	10.52	0.0259
K	6.121	418	1.34	2.005	120	37.2	10.1	26.9	5.4	10.7	0.0269
L	6.40	409	1.28	2.01	123	35.4	9.78	29.6	6.15	11.3	0.074
M										12.41	
N	6.84	4.11	1.29	2.11	125.68	36.74	9.51	30.75	5.77	10.79	0.0260
O	6.24	414	1.33	2.00	119	37.0	9.76	29.3	5.67	11.1	0.0253
P	6.3	407	1.29	1.96	117	36.0	9.59	28.6	5.76	12.2	0.0269
Q											
R	6.25	407	1.287	1.995		35.264	9.889	29.435	5.657	10.421	0.0286
S	6.43	416	1.28	2.00	119	35.7	9.50	29.2	5.73	10.6	0.0304
T	6.35	410	1.29	2.00	119	35.6	9.78	29.2	6.15	10.5	0.0266
U	6.12	405	7.3	1.95	119	36.9	9.3	29.1	5.9	10.8	0.0256
V	6.28	418	1.30	2.072	123	35.478	10.189	30.386	6.049	10.803	0.0270
W	6.79	405	1.28	1.98	121	35.8	9.39	28.8	5.70	11.1	0.0213
X	6.17	387	1.32			36.6	9.8	29.2	5.8	10.5	0.0270
Y	6.1	409	1.27	2.00	121.8	35.6	9.3	29.2	5.5	10.9	0.0262
Z	6.2	403	1.28	2.04	121	35.8	9.50	28.7	5.61	10.7	0.0271

Measurement Uncertainties Sample N168B

	pH ±	Cond. ±	total- Hardn.	K _S 4.3 ±	HCO ₃ ⁻ ±	Ca ²⁺ ±	Mg ²⁺ ±	Na ⁺ ±	K ⁺ ±	NO ₃ ⁻ ±	NO ₂ ⁻ ±
Unit		µS/cm	mmol/L	mmol/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		1	0.015	0.03	1.5	0.5	0.18	0.3	0.03	0.3	0.0003
IFA result	0.20	6	0.05	0.08	5	1.7	0.5	1.4	0.3	0.6	0.0012
Stability test											0.0013
A	0.39	34	0.12	0.11		0.84	0.92	1.96	0.73	1.5	0.0011
B	0.18	8.12	10.75	0.306	18.6	1.52	0.42	1.28	0.25	1.87	0.0013
C	0.02							3.060	0.431	1.928	
D	0.04	14.0	0.025	0.025	10	2	0.4	1	0.2	1	0.01
E										0.4	0.001
F		8	0.09	0.10	10	3.0	0.8	1.8	0.7	06	0.0030
G	0.03	12		0.061						1.11	0.0014
H	0.2	16	0.070	0.13	7.9	1.7	0.6	1.5	0.3	1.1	0.0034
I		8								1.5	
J	0.1	10	0.14	0.2	13	7.3	2.0	4.4	1.2	1.6	0.0048
K	0.202	12.1		0.100		5.58	1.515	4.035	0.81	1.605	0.0054
L	0.20	12	0.18	0.20	12	3.5	0.98	3.0	0.62	2.1	0.022
M										1.86	
N	0.1	4.51		0.21		3.7	0.9	3.1	0.6	1.0	0.003
O	0.2	41	0.13	0.20	12	3.7	0.98	2.9	0.57	1.1	0.0025
P											
Q											
R	0.22	12.21				1.87	0.79	2.03	0.33	0.49	0.0028
S	0.0643	0.127	0.0182	0.0891	2.38	0.727	0.0383	0.274	0.297	0.615	0.00124
T	0.30	12	0.11	0.08	5	1.8	0.60	1.2	0.50	0.7	0.003
U	0.13	12	1.3	0.09	5	4.8	1.1	3.5	0.8	0.4	0.0018
V	0.18	23.8	0.13	0.104	12.3	3.55	1.02	3.04	0.6	0.54	0.003
W	0.03	1.16	0.023	0.003	1.1	0.32	0.24	0.2	0.006	0.115	0.0004
X	0.20	38.7	0.11			2.9	0.8	2.3	0.64	1.3	0.003
Y	0.2	40.9	0.19			5.3	1.4	4.4	0.8	1.6	0.004
Z	0.10	12.1	0.128	0.204	12.1	3.58	0.950	2.87	0.842	1.07	0.00542

Results Sample N168B

	pH	Cond.	total-Hardn.	K _{S 4.3}	HCO ₃ ⁻	Ca ²⁺	Mg ²⁺	Na ⁺	K ⁺	NO ₃ ⁻	NO ₂ ⁻
Unit		µS/cm	mmol/L	mmol/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		409	1.285	2.04	121.4	35.8	9.54	29.2	5.76	11.0	0.0254
IFA result	6.31	412	1.31	1.98	118	36.3	9.8	29.2	5.5	11.0	0.0247
Stability test											0.0255
AA	6.47	407	1.29	2.01	119	35.5	9.72	29.0	5.62	11.1	0.0260
AB		405		2.00	122						
AC	6.4	376	1.22	1.99	121.4	33.8	9.03	27.6	5.29	10.6	0.0290
AD	6.0	409	1.36		62	37.0	9.79	25.0	3.97	9.3	0.0370
AE	6.33	412	1.20	2.02	123	33.2	9.07	28.9	5.65	10.3	0.0247
AF			1.268	1.998	121.93						
AG		408.1	1.33	2.02	123.25						
AH	6.22	401	1.25	1.98	118	34.7	9.30	27.5	5.50	10.7	0.0315
AI	6.17	407.0	1.285	1.95	115.86	35.75	9.56	29.00	5.75	10.79	0.0258
AJ	6.40	410	1.27	2.10	128	36.54	9.90	29.34	5.72	10.6	<0.03
AK	6.14	403	1.32	1.98		36.64	9.80	31.80	5.90	11.64	0.0250
AL	6.42	407	1.26	2.03	121	35.0	9.39	28.2	5.72	10.4	0.0271
AM	6.156	409.3	1.2998	2.040		36.13	9.683	28.46	5.488	10.35	0.0270
AN	5.95	411		2.31						10.8	0.0284
AO	6.2	412	1.32	1.95	119.0	36.54	9.86	29.76	5.99	10.89	0.0260
AP	6.4	408	1.341	1.99	126.3	37.51	9.81	29.62	5.72	11.07	0.0263
AQ	6.40	409	1.29	2.00	122	35.70	9.76	27.98	5.83	10.8	0.0269
AR	6.07	402.00	1.35			36.78	10.39			10.95	
AS	6.15	411		2.00	119					11.0	0.0270
AT	6.58	405	1.28	2.01	119.8	35.76	9.33	28.5	5.63	10.9	0.0240
AU	6.1	411	1.31	1.98		36.0	10.0	29.5	5.91	10.6	0.0258
AV	6.26	412	1.293	2.010	119.6	36.42	9.35			11.05	
AW						35.659	9.632	28.899			
AX		416	1.275			35.3	9.6	30.0	5.5	11.0	0.0250
AY	6.68	411	1.32	2.07	126	36.4	10.01	28.27	5.69	10.94	<0.03
AZ	7.26	354	1.21	1.96		34.8	9.40	27.9	5.82	10.2	0.0285
BA	6.17	409	1.26	2.06	125.6	34.5	9.66	27.7	5.52	2.45	0.00700
BB										10.790	
BC		409									

Measurement Uncertainties Sample N168B

	pH ±	Cond. ±	total- Hardn.	K _S 4.3 ±	HCO ₃ ⁻ ±	Ca ²⁺ ±	Mg ²⁺ ±	Na ⁺ ±	K ⁺ ±	NO ₃ ⁻ ±	NO ₂ ⁻ ±
Unit		µS/cm	mmol/L	mmol/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		1	0.015	0.03	1.5	0.5	0.18	0.3	0.03	0.3	0.0003
IFA result	0.20	6	0.05	0.08	5	1.7	0.5	1.4	0.3	0.6	0.0012
Stability test											0.0013
AA	0.3	17	0.1	0.1	5	3	1.2	5	0.8	0.8	0.002
AB		9		0.44	27						
AC	0.1	11	0.12	0.11	7.2	2.0	1.17	2.2	0.32	1.3	0.003
AD	0.5	2	0.01		2	0.5	0.5	0.5	0.5	0.2	0.01
AE	0.19	12	0.18	0.16	10	5.0	1.1	3.8	0.85	1.0	0.0027
AF			0.152	0.080	4.877						
AG		2	0.01	0.02	0.02						
AH	0.1	7	0.07	0.10	6	1.8	0.47	1.4	0.28	0.6	0.0032
AI	0.25	9.0	0.05	0.04	2.43	1.39	0.45	1.39	0.37	0.72	0.002
AJ	0.12	17	0.13	0.21		3	0.59	2.35	0.63	0.95	
AK	0.02	30	0.05	0.02		0.6	0.6	0.3	0.06	0.5	0.015
AL	0.257	16.3	0.227	0.081	4.84	6.3	1.69	5.08	1.03	0.936	0.002
AM	0.1478	11.4	0.05199	0.0104		1.84	0.290	0.826	0.148	0.662	0.00567
AN											
AO	0.2	41.2		0.293	17.85	3.654	0.986	2.976	0.599	0.5445	0.00390
AP	0.2	40.8				5.63	1.47	4.44	0.86	1.66	0.0053
AQ	0.0461	39.5	0.05	0.0226	13.79	1.61	0.39	3.39	0.23	0.5317 0	0.00316
AR	0.1	2	0.53			5	2.5			0.8	
AS	0.0083	2.9		0.056	1.71					0.75	0.0027
AT		8	0.064	0.18	10.8	1.79	0.47	1.4	0.3	0.3	0.002
AU	0.1	10	0.27	0.5		7.2	2.0	4.4	1.2	1.5	0.015
AV	0.06	5.11	0.066	0.020	1.20	1.88	1.06			0.515	
AW						8.915	2.408	7.225			
AX		23.6	0.17			4.71	1.27	5.31	0.91	0.93	0.003
AY											
AZ	0.15	14	0.24	0.35		7.0	1.88	5.6	1.16	1.1	0.003
BA	1.2	82	0.25	0.41	25.1	5.1	1.93	4.2	1.3	0.24	0.0007
BB										0.010	
BC		2									

Results Sample N168B

	NH ₄ ⁺	Cl ⁻	SO ₄ ²⁻	o-PO ₄ ³⁻	Boron	DOC	total-P (as PO ₄ ³⁻)	CN ⁻	Silicon	F ⁻
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value	<0.01	35.1	34.9	0.0829	0.1010	8.14	0.1216	0.0704	5.99	0.270
IFA result	<0.01	35.3	35.8	0.0849	0.103	8.26	0.132	0.071	5.9	0.273
Stability test	<0.01			0.0849		8.45		0.074		
A		35.4	35.4		0.100	7.86		0.060	6.23	0.247
B				0.0870	0.1001	8.24		0.0580	6.1	0.314
C		34.38	32.71							
D	0.0100	34.7	32.85				0.129			
E										
F	<0.02	37.0	36.8	0.083	0.100	8.1	0.116			
G	<0.022			0.091		9.6	0.111			
H	<0.010	35.0	36.4	0.071	0.102	7.8	0.115			0.238
I	<0.03	35.1	32.8			10.1		0.070		0.261
J	<0.010	32.65	33.14	0.0878	0.0968	8.213	0.1263	n.b.	n.b.	0.260
K	0.0064	35.0	36.5	0.072	0.0916		0.113	0.072	5.40	0.290
L	<0.05	36.5	36.6		0.100					
M	<0.01			0.076			0.123			
N	<0.009	34.86	35.11	0.0790	0.102	8.47	0.119			
O	<0.010	36.4	35.5	0.072	0.095	7.92	0.109	0.0645	5.81	0.280
P	<0.01	34.1	36.6	0.079	0.106	8.364	0.098		6.29	<0.5
Q						8.57	0.0410		5.902	
R	<0.013	35.49	35.791	0.0822	0.0956	8.066	0.1162	0.0547		0.279
S	<0.0100	34.5	34.6	0.0825	0.0988	8.21	0.119	0.0677		0.264
T	<0.008	35.5	35.4	0.084	0.098	8.30	0.121	0.063	6.06	0.312
U		35.7	34.0	0.090		8.5	0.098	0.073		0.265
V	<0.01	34.3	34.858	0.082	0.097	8.262	0.122	0.054	6.11	0.228
W	<0.011	34.3	35.0	0.0877	0.112	8.79	0.112	0.0455	6.02	0.272
X	<0.020	35.3	35.1	0.0858	0.102	8.14	0.123	0.0630	5.31	0.250
Y	<0.04	35.6	34.5	0.092	0.097	8.3	0.120	0.059	5.88	0.277
Z	<0.0200	38.3	36.9			9.0				0.270

Measurement Uncertainties Sample N168B

	NH₄⁺ ±	Cl⁻ ±	SO₄²⁻ ±	o-PO₄³⁻ ±	Boron ±	DOC ±	total-P (as PO₄³⁻) ±	CN⁻ ±	Silicon ±	F⁻ ±
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		0.5	0.7	0.0009	0.0007	0.06	0.0010	0.0017	0.03	0.007
IFA result		1.3	0.9	0.0015	0.008	0.09	0.019	0.006	0.4	0.006
Stability test				0.0015		0.10		0.006		
A		3.0	4.0		0.0075	0.47		0.012	0.32	0.009
B				0.0131	0.0047	1.24		0.015	0.913	0.024
C		5.157	6.542							
D	0.01	1	1.5				0.05			
E										
F		3.0	2.2	0.015	0.017	1.0	0.015			
G				0.011		0.5	0.012			
H		2.8	3.0	0.010	0.010	1.4	0.012			0.048
I		3.5	3.5			1.0		0.014		0.057
J		3.3	3.4	0.0183	0.024	0.821	0.0263			0.03
K	0.0006	5.25	5.475	0.009	0.0229		0.014	0.018	1.35	0.029
L		1.8	1.8		0.010					
M				0.0063			0.0105			
N		3.5	3.5	0.008	0.010	0.9	0.012			
O		3.6	3.6	0.007	0.010	0.79	0.022	0.0065	0.58	0.028
P										
Q						1.3	0.0045		0.35	
R		1.31	1.68	0.0032	0.021	0.9	0.0175	0.02		0.043
S		1.13	0.664	0.00122	0.00092	0.0226	0.00143	0.00054		0.0121
T		1.8	2.1	0.005	0.010	0.75	0.009	0.015	0.65	0.047
U		1.7	1.56	0.005		0.49	0.008	0.012		0.01
V		1.715	1.743	0.008	0.01	1.495	0.012	0.005	0.91	0.011
W		0.53	0.462	0.001	0.003	0.035	0.001	0.0002	0.015	0.005
X		3.2	3.5	0.0180	0.018	0.98	0.034			0.043
Y		1.8	2.1		0.024	2.5				0.055
Z		3.83	3.69			1.80				0.0405

Results Sample N168B

	NH ₄ ⁺	Cl ⁻	SO ₄ ²⁻	o-PO ₄ ³⁻	Boron	DOC	total-P (as PO ₄ ³⁻)	CN ⁻	Silicon	F ⁻
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value	<0.01	35.1	34.9	0.0829	0.1010	8.14	0.1216	0.0704	5.99	0.270
IFA result	<0.01	35.3	35.8	0.0849	0.103	8.26	0.132	0.071	5.9	0.273
Stability test	<0.01			0.0849		8.45		0.074		
AA	<0.013	35.8	35.9	0.083		7.93	0.121		6.14	
AB				0.0958				66.3		
AC	<0.030	35.0	35.0	0.0799	0.103	9.12	0.141	0.050	5.95	0.267
AD	0.057	32.3	112	<0.015	<0.001	7.82	<0.015	0.090	6.1	n.a.
AE	<0.01	35.6	35.0	0.0836	0.101	8.60	0.118	0.0700	5.62	0.320
AF										
AG										
AH	0.0355	34.3	34.5	0.106	0.096	8.8	0.113	0.0340	5.74	0.243
AI	<0.005	35.26	34.94			8.419				
AJ	<0.05	33.6	34.5	<0.12	0.077	8.08	0.1309	0.0640		0.256
AK	<0.03	35.75	35.61			7.72				
AL	0.0123	34.4	34.4	0.0865	0.098	8.22	0.134	0.0620	5.88	0.280
AM	0.00466	34.49	35.36	0.090					5.918	0.2547
AN	<0.03	35.4	35.6	0.0838		8.62	0.132		6.22	0.268
AO	<0.005	35.38	36.59	0.080	0.149	8.40	0.150	74.86	12.2	<0.50
AP	<0.04	35.60	38.02	<0.15	0.089	8.16	<0.15			0.269
AQ	<0.0644	34.8	35.3	0.0751	0.106	8.26	0.124	0.0700	5.87	0.254
AR		36.53	38.40							
AS	<0.005	35.4		0.083			0.119			
AT	<0.040	34.7	34.9	0.077	0.120	8.61	0.140	0.059	6.897	0.261
AU	<0.010	32.6	33.1		0.0978					0.260
AV		33.89	34.99							
AW							0.154		5.838	
AX	0.0080	35.9	34.9	0.092		8.5		0.093		0.240
AY	0.0101	33.72	34.94	0.1206	0.101	8.38	0.0398	0.0813	4.08	0.260
AZ	<0.13	34.9	34.8	<0.15	0.0998	17.4	<0.61	0.0766	5.77	<0.50
BA	<0.03	34.4	36.1	0.0260	0.0973	8.57	0.0483		6.28	0.292
BB		34.987	35.376			8.25				0.313
BC										0.283

Measurement Uncertainties Sample N168B

	NH ₄ ⁺ ±	Cl ⁻ ±	SO ₄ ²⁻ ±	o-PO ₄ ³⁻ ±	Boron ±	DOC ±	total-P (as PO ₄ ³⁻) ±	CN ⁻ ±	Silicon ±	F ⁻ ±
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		0.5	0.7	0.0009	0.0007	0.06	0.0010	0.0017	0.03	0.007
IFA result		1.3	0.9	0.0015	0.008	0.09	0.019	0.006	0.4	0.006
Stability test				0.0015		0.10		0.006		
AA		3	3	0.01		1.2	0.01		0.6	
AB				0.01				9		
AC		3.5	3.9	0.008	0.010	1.37	0.018	0.01	0.60	0.04
AD	0.01	0.3	0.2	0.001	0.01	0.1	0.001	0.01	0.1	0.1
AE		3.6	5.6	0.0067	0.013	1.7	0.0094	0.011	0.56	0.032
AF										
AG										
AH	0.0036	1.8	1.8	0.011	0.005	0.8	0.012	0.0034	0.29	0.013
AI		1.66	1.75			1.46				
AJ		2.69	3.10		0.007	0.81	0.014	0.006		0.023
AK	0.08	0.25	3.0			0.03				
AL	0.001	3.10	3.10	0.008	0.018	0.740	0.005	0.006	0.235	0.025
AM	0.00051	1.483	1.096	0.009					0.372	0.0178
AN										
AO		1.769	1.830	0.0120	0.0179	0.670	0.0227	7.486	1.83	
AP		5.34	5.70							0.054
AQ	0.00514	2.07396	2.48025	0.01537	0.007	1.25056		0.00546	0.18	0.02504
AR		1	5							
AS	0	0.36		0.010			0.016			
AT		0.7	1.1	0.008	0.0120	1.72	0.021		0.6897	0.021
AU		3.3	3.4		0.024					0.1
AV		3.69	1.37							
AW							0.0462		1.460	
AX	0.002	2.99	2.25	0.025		1.59		0.034		0.05
AY										
AZ		2.8	3.5		0.015	6.1		0.010	1.15	
BA	0.003	5.2	5.4	0.0052	0.022	3.5	0.021		0.94	0.044
BB		0.074	0.07			0.18				0.001
BC										0.03

z-Scores Sample N168A

	Cond.	total-Hardn.	K _{S 4.3}	HCO ₃ ⁻	Ca ²⁺	Mg ²⁺	Na ⁺	K ⁺	NO ₃ ⁻	NO ₂ ⁻
A	-0.27	-0.82	1.42		-1.06	0.31	-1.10	-1.33	-0.07	-1.82
B	0.54	2023.90	-0.16	0.63	1.22	0.03	-0.34	0.23	3.40	0.50
C							-0.03	-3.40	-5.69	
D	-0.88	0.41	-4.09	-2.71	0.23	0.31	-1.27	1.12	3.28	-0.74
E									-0.52	9.59
F	0.68	0.82	-1.90	-0.83	0.47	1.86	1.31	2.10	1.55	0.91
G	-27.82		-1.74						0.00	-3.22
H	-0.27	-0.41	-1.42	-0.44	-0.38	-0.47	-0.59	0.09	0.37	-1.65
I	-0.41								-2.80	
J	0.27	0.41	-0.95	-0.10	0.08	0.93	0.10	0.52	-1.66	-0.04
K	1.90	1.10	-1.66	-1.25	0.72	1.24	-2.83	-1.93	0.07	0.66
L	-0.14	-0.14	-0.95	-0.21	-0.38	0.47	0.45	0.95	0.00	28.19
M										
N	0.27	0.27	-0.63	-0.49	0.57	-0.64	0.31	0.09	-0.85	0.50
O	0.95	-0.14	-0.79	-0.63	-0.34	0.16	-0.24	-0.32	-0.66	-0.21
P	-0.91	0.55	-2.21	-1.67	0.63	0.16	0.28	0.29	0.59	0.41
Q										
R	-0.54	-0.15	-1.01		-0.68	1.07	0.39	-0.19	-0.97	1.16
S	1.49	0.27	-0.79	-0.63	0.42	-0.16	0.10	-0.12	-1.25	1.28
T	0.54	0.14	-1.26	-1.04	-0.17	0.47	-0.24	1.70	-0.81	0.45
U	0.81	160.71	-2.05	-1.04	0.47	-2.33	0.28	0.66	-0.88	0.21
V	2.04	0.00	0.28	0.21	-0.55	1.35	1.16	0.87	-0.59	0.50
W	-2.04	0.55	-1.74	-0.63	0.59	0.31	0.28	1.07	0.15	-0.91
X	-1.22	0.55			0.38	0.62	-0.07	0.09	0.66	0.08
Y	0.00	-0.14	-0.63	0.15	0.04	-0.62	0.10	-0.49	-0.37	-0.08
Z	-0.54	0.00	-0.32	-0.21	0.04	-0.16	-0.07	-0.49	1.62	0.66

z-Scores Sample N168A

	NH ₄ ⁺	Cl ⁻	SO ₄ ²⁻	o-PO ₄ ³⁻	Boron	DOC	total-P (as PO ₄ ³⁻)	CN ⁻	Silicon	F ⁻
A		0.34	0.76		-0.52	-1.17		-0.85	0.58	-0.43
B					-0.34	-0.44		-0.90	0.19	1.37
C		-1.47	0.62							
D	-6.09	2.31	-0.43							
E										
F	-1.29	2.27	1.94		-0.42	0.15				
G						6.37				
H	2.31	0.25	1.04		0.26	1.98				-0.22
I	-0.09	0.08	-1.52			2.71		0.05		-1.04
J	-0.27	-2.15	-1.67		-0.62	0.89				-0.43
K		0.17	1.45		-1.59			-0.50	-1.26	0.73
L		0.67	0.97		-0.81					
M	0.30									
N	-0.39	-0.34	-0.87		0.36	2.12				
O	1.71	0.76	-0.76		-0.71	-0.51		-0.54	0.48	-0.35
P	1.35	1.51	1.32		-0.22	0.81			1.26	-0.63
Q						0.62			-0.64	
R	0.45	0.53	-0.52		-0.57	0.01		-1.94		0.16
S	-0.96	-0.59	-0.55		-0.32	0.51		-0.25		-0.20
T	0.54	0.76	1.04		-0.42	0.07		-0.71	0.24	1.87
U		1.35	-0.83			2.34		-0.54		-0.43
V	1.11	-0.09	0.11		-0.81	0.75		-0.90	-0.10	-0.94
W	-0.99	0.17	0.62		1.14	1.21		-1.81	0.34	0.84
X	2.01	1.35	0.62		-0.03	0.00		-1.05	-2.47	-0.43
Y		0.67	-0.76		-0.81	-0.22		-1.21	-0.53	0.79
Z	-1.53	2.78	2.08			2.71				0.18

z-Scores Sample N168A

	Cond.	total-Hardn.	K _{S 4.3}	HCO ₃ ⁻	Ca ²⁺	Mg ²⁺	Na ⁺	K ⁺	NO ₃ ⁻	NO ₂ ⁻
AA	0.27	0.00	-1.26	-1.04	-0.04	0.16	-0.41	0.14	-0.07	0.50
AB	-0.81		-1.74	-0.83						
AC	1.22	-1.79	-2.21	-1.13	-1.44	-1.71	-1.45	-1.76	-0.81	1.20
AD	-0.54	3.43		-20.83	2.16	2.17	39.55	24.87	40.65	4.22
AE	1.36	-2.20	-1.11	-0.21	-1.86	-2.17	1.14	-0.49	0.00	-0.87
AF		-0.78	-1.14	-0.25						
AG	0.53	0.00	-0.79	0.03						
AH	-1.76	-1.65	-1.58	-1.25	-1.35	-1.40	-2.31	-1.07	-1.69	2.56
AI	-0.68	0.15	-2.69	-2.16	0.19	-0.05	-0.22	0.23	-0.59	0.12
AJ	0.41	0.69	-3.64	-2.29	1.00	1.16	-0.98	-0.12	-0.81	1.20
AK	-0.54	0.69	-1.42		0.66	0.53	2.62	0.81	-0.25	-0.45
AL	-0.41	-0.55	-0.79	-0.63	-0.21	-1.09	-0.93	0.17	-0.52	0.33
AM	-0.46	0.27	-0.36		0.21	0.23	-0.36	-0.94	-0.19	0.91
AN	0.68		2.05						-0.52	1.36
AO	0.68	0.69	-2.21	-1.13	0.60	0.70	0.33	0.52	-0.52	0.50
AP	-0.14	0.85	-1.58	-0.56	0.78	0.42	0.48	-0.12	0.34	-0.87
AQ	0.00	-0.14	-0.47	0.21	-0.41	0.31	-1.41	0.37	0.00	-16.65
AR	-0.51	3.16			33.00	6.13			-0.16	
AS	0.68		-1.26	-0.83					-1.10	0.79
AT	-1.09	-0.27	-1.42	-1.19	0.02	-0.85	-0.76	-0.58	-0.66	-1.57
AU	0.14	0.69	-1.74		0.42	1.09	0.10	0.52	-1.62	-0.04
AV	0.41	0.15	-1.31	-1.02	1.11	-2.07			-0.38	
AW					-0.04	-1.00	-1.08			
AX	1.09	0.88	0.08	0.08	0.76	0.78	1.31	0.37	0.59	4.22
AY	0.00	1.37	0.00	0.63	1.18	1.09	-0.21	-0.14	-0.68	
AZ	-12.76	-1.92	-2.21		-2.07	-0.93	-1.62	0.29	-1.62	0.70
BA	-0.14	-1.37	1.26	1.67	-1.40	-0.62	-1.79	-2.31	-25.10	-13.14
BB									-0.38	
BC	-0.14									

z-Scores Sample N168A

	NH ₄ ⁺	Cl ⁻	SO ₄ ²⁻	o-PO ₄ ³⁻	Boron	DOC	total-P (as PO ₄ ³⁻)	CN ⁻	Silicon	F ⁻
AA	-0.39	0.93	0.97			-0.07			0.53	
AB								6716.04		
AC	1.98	0.17	0.21		-0.32	3.29		-1.84	-0.10	0.04
AD	15.21	46.59	45.27		-13.45	-0.88		3.20	0.29	16.89
AE	-1.50	0.59	0.42		-0.13	1.94		0.05	-1.02	3.46
AF										
AG										
AH	6.81	-0.93	-0.62		-0.91	3.07		-2.00	-0.87	-1.24
AI	-1.14	0.77	-0.34			0.80				
AJ	6.84	-1.01	0.28		-2.47	-0.62		-0.83		-0.22
AK	-0.57	0.80	1.90			1.32				
AL	2.67	-0.42	-0.28		-0.62	0.51		-0.79	0.00	-1.14
AM	2.09	-0.49	0.26						-0.27	-0.39
AN	1.77	0.50	0.55			2.38			0.92	-0.12
AO	-3.39	0.53	1.44		4.95	0.88		6810.50	22.32	-0.22
AP		0.82	1.78		-1.20	0.00				0.33
AQ	14.10	0.08	0.55		0.56	0.51		-0.11	-0.48	-0.59
AR		1.39	2.13							
AS	2.31	0.67								
AT		-0.25	-0.07		2.12	1.28		-0.74	3.58	-0.43
AU	0.48	-2.19	-1.59		-0.71					-0.63
AV		-0.77	0.00							
AW									-0.80	
AX	-4.89	1.26	-0.28			0.88		2.41		-0.63
AY	-0.72	-1.67	-0.39		-0.22	2.45		1.15	-6.68	-1.08
AZ		1.09	0.00		0.56	37.11		0.44	-0.29	-0.73
BA		-0.34	0.90		-0.81	1.24			0.00	1.28
BB		0.08	0.34			1.03				0.31
BC										1.35

z-Scores Sample N168B

	Cond.	total-Hardn.	K _S 4.3	HCO ₃ ⁻	Ca ²⁺	Mg ²⁺	Na ⁺	K ⁺	NO ₃ ⁻	NO ₂ ⁻
A	-0.20	-0.44	1.81		-1.05	0.90	-1.18	-1.49	-0.59	-1.39
B	0.20	1956.50	0.00	0.89	-0.54	0.60	-0.61	0.04	0.91	-1.75
C							1.50	-5.85	-3.99	
D	-0.39	0.86	-3.84	-2.20	0.35	0.87	-0.70	1.82	1.10	-1.02
E									-0.88	19.39
F	0.81	2.08	-2.06	-0.82	1.22	2.88	0.64	2.58	2.64	1.17
G	42.38		-1.55						0.29	-2.48
H	0.00	-0.14	-0.77	0.34	-0.09	-0.12	-0.64	0.16	0.59	-2.04
I	0.20								-0.29	
J	0.61	0.97	-0.52	0.65	0.52	1.68	0.11	0.73	-1.41	0.36
K	1.83	1.53	-0.90	-0.48	1.22	1.68	-2.46	-1.45	-0.88	1.09
L	0.00	-0.14	-0.77	0.55	-0.35	0.72	0.43	1.57	0.88	35.43
M									4.13	
N	-82.50	0.14	1.81	1.47	0.82	-0.09	1.66	0.04	-0.62	0.44
O	1.02	1.25	-1.03	-0.82	1.05	0.66	0.11	-0.36	0.29	-0.07
P	-0.41	0.14	-2.06	-1.51	0.17	0.15	-0.64	0.00	3.52	1.09
Q										
R	-0.41	0.06	-1.16		-0.47	1.05	0.25	-0.42	-1.70	2.33
S	1.43	-0.14	-1.03	-0.82	-0.09	-0.12	0.00	-0.12	-1.17	3.65
T	0.20	0.14	-1.03	-0.82	-0.17	0.72	0.00	1.57	-1.47	0.87
U	-0.81	167.18	-2.32	-0.82	0.96	-0.72	-0.11	0.57	-0.59	0.15
V	1.83	0.42	0.83	0.55	-0.28	1.94	1.27	1.17	-0.58	1.17
W	-0.81	-0.14	-1.55	-0.14	0.00	-0.45	-0.43	-0.24	0.29	-2.99
X	-4.48	0.97			0.70	0.78	0.00	0.16	-1.47	1.17
Y	0.00	-0.42	-1.03	0.14	-0.17	-0.72	0.00	-1.05	-0.29	0.58
Z	-1.22	-0.14	0.00	-0.14	0.00	-0.12	-0.54	-0.61	-0.88	1.24

z-Scores Sample N168B

	NH ₄ ⁺	Cl ⁻	SO ₄ ²⁻	o-PO ₄ ³⁻	Boron	DOC	total-P (as PO ₄ ³⁻)	CN ⁻	Silicon	F ⁻
A		0.29	0.46		-0.14	-0.64		-0.92	0.87	-1.22
B				0.52	-0.12	0.23		-1.10	0.40	2.33
C		-0.71	-2.02							
D		-0.39	-1.89				0.65			
E										
F		1.87	1.76	0.01	-0.14	-0.09	-0.49			
G				1.03		3.32	-0.93			
H		-0.10	1.39	-1.51	0.14	-0.77	-0.58			-1.69
I		0.00	-1.94			4.46		-0.04		-0.48
J		-2.41	-1.63	0.62	-0.57	0.17	0.41			-0.53
K		-0.10	1.48	-1.38	-1.27		-0.75	0.14	-2.14	1.06
L		1.38	1.57		-0.14					
M				-0.88			0.12			
N		-0.24	0.19	-0.50	0.14	0.75	-0.23			
O		1.28	0.55	-1.38	-0.81	-0.50	-1.10	-0.52	-0.65	0.53
P		-0.98	1.57	-0.50	0.68	0.51	-2.06		1.09	
Q						0.98	-7.05		-0.32	
R		0.38	0.82	-0.09	-0.73	-0.17	-0.47	-1.39		0.48
S		-0.59	-0.28	-0.05	-0.30	0.16	-0.23	-0.24		-0.32
T		0.39	0.46	0.14	-0.41	0.36	-0.05	-0.66	0.25	2.22
U		0.59	-0.83	0.90		0.82	-2.06	0.23		-0.26
V		-0.79	-0.04	-0.11	-0.54	0.28	0.03	-1.46	0.44	-2.22
W		-0.79	0.09	0.61	1.49	1.48	-0.84	-2.21	0.11	0.11
X		0.20	0.18	0.37	0.14	0.00	0.12	-0.66	-2.47	-1.06
Y		0.49	-0.37	1.16	-0.54	0.36	-0.14	-1.01	-0.40	0.37
Z		3.14	1.85			1.96				0.00

z-Scores Sample N168B

	Cond.	total-Hardn.	K _{S 4.3}	HCO ₃ ⁻	Ca ²⁺	Mg ²⁺	Na ⁺	K ⁺	NO ₃ ⁻	NO ₂ ⁻
AA	-0.41	0.14	-0.77	-0.82	-0.26	0.54	-0.21	-0.57	0.29	0.44
AB	-0.81		-1.03	0.21						
AC	-6.72	-1.81	-1.29	0.00	-1.75	-1.53	-1.71	-1.90	-1.17	2.62
AD	0.00	2.08		-20.39	1.05	0.75	-4.49	-7.23	-4.99	8.46
AE	0.61	-2.36	-0.52	0.55	-2.27	-1.41	-0.32	-0.44	-2.05	-0.51
AF		-0.47	-1.08	0.18						
AG	-0.18	1.25	-0.52	0.63						
AH	-1.63	-0.97	-1.55	-1.17	-0.96	-0.72	-1.82	-1.05	-0.88	4.45
AI	-0.41	0.00	-2.32	-1.90	-0.04	0.06	-0.21	-0.04	-0.62	0.29
AJ	0.20	-0.42	1.55	2.27	0.65	1.08	0.15	-0.16	-1.17	
AK	-1.22	0.97	-1.55		0.73	0.78	2.78	0.57	1.88	-0.29
AL	-0.41	-0.69	-0.26	-0.14	-0.70	-0.45	-1.07	-0.16	-1.76	1.24
AM	0.06	0.41	0.00		0.29	0.43	-0.79	-1.10	-1.91	1.17
AN	0.41		6.97						-0.59	2.19
AO	0.61	0.97	-2.32	-0.82	0.65	0.96	0.60	0.93	-0.32	0.44
AP	-0.20	1.56	-1.29	1.68	1.49	0.81	0.45	-0.16	0.21	0.66
AQ	0.00	0.14	-1.03	0.21	-0.09	0.66	-1.31	0.28	-0.59	1.09
AR	-1.43	1.81			0.86	2.55			-0.15	
AS	0.41		-1.03	-0.82					0.00	1.17
AT	-0.81	-0.14	-0.77	-0.55	-0.03	-0.63	-0.75	-0.52	-0.29	-1.02
AU	0.41	0.69	-1.55		0.17	1.38	0.32	0.61	-1.17	0.29
AV	0.61	0.22	-0.77	-0.62	0.54	-0.57			0.15	
AW					-0.12	0.28	-0.32			
AX	1.43	-0.28			-0.44	0.18	0.86	-1.05	0.00	-0.29
AY	0.41	0.97	0.77	1.58	0.52	1.41	-1.00	-0.28	-0.18	
AZ	-11.21	-2.08	-2.06		-0.87	-0.42	-1.39	0.24	-2.35	2.26
BA	0.00	-0.69	0.52	1.44	-1.13	0.36	-1.61	-0.97	-25.07	-13.41
BB									-0.62	
BC	0.00									

z-Scores Sample N168B

	NH ₄ ⁺	Cl ⁻	SO ₄ ²⁻	o-PO ₄ ³⁻	Boron	DOC	total-P (as PO ₄ ³⁻)	CN ⁻	Silicon	F ⁻
AA		0.69	0.92	0.01		-0.48	-0.05		0.54	
AB				1.64				5879.76		
AC		-0.10	0.09	-0.38	0.27	2.23	1.70	-1.81	-0.15	-0.16
AD		-2.75	71.26			-0.73		1.74	0.40	
AE		0.49	0.09	0.09	0.00	1.05	-0.31	-0.04	-1.34	2.65
AF										
AG										
AH		-0.79	-0.37	2.93	-0.68	1.50	-0.75	-3.23	-0.91	-1.43
AI		0.16	0.04			0.63				
AJ		-1.47	-0.37		-3.26	-0.14	0.81	-0.57		-0.74
AK		0.64	0.66			-0.96				
AL		-0.69	-0.46	0.46	-0.41	0.18	1.08	-0.75	-0.40	0.53
AM		-0.60	0.43	0.90					-0.26	-0.81
AN		0.29	0.65	0.11		1.09	0.91		0.83	-0.11
AO		0.28	1.56	-0.37	6.51	0.59	2.48	6639.70	22.54	
AP		0.49	2.88		-1.63	0.05				-0.05
AQ		-0.29	0.37	-0.99	0.68	0.27	0.21	-0.04	-0.44	-0.85
AR		1.40	3.24							
AS		0.29		0.01			-0.23			
AT		-0.39	0.00	-0.75	2.58	1.07	1.61	-1.01	3.29	-0.48
AU		-2.46	-1.66		-0.43					-0.53
AV		-1.19	0.08							
AW							2.83		-0.55	
AX		0.79	0.00	1.16		0.82		2.01		-1.59
AY		-1.36	0.04	4.79	0.00	0.55	-7.16	0.97	-6.93	-0.53
AZ		-0.20	-0.09		-0.16	21.07		0.55	-0.80	
BA		-0.69	1.11	-7.22	-0.50	0.98	-6.41		1.05	1.16
BB		-0.11	0.44			0.25				2.28
BC										0.69

Sample N168A

Parameter Conductivity

Target value $\pm U$ (k=2) 614 $\mu\text{S/cm}$ \pm 2 $\mu\text{S/cm}$

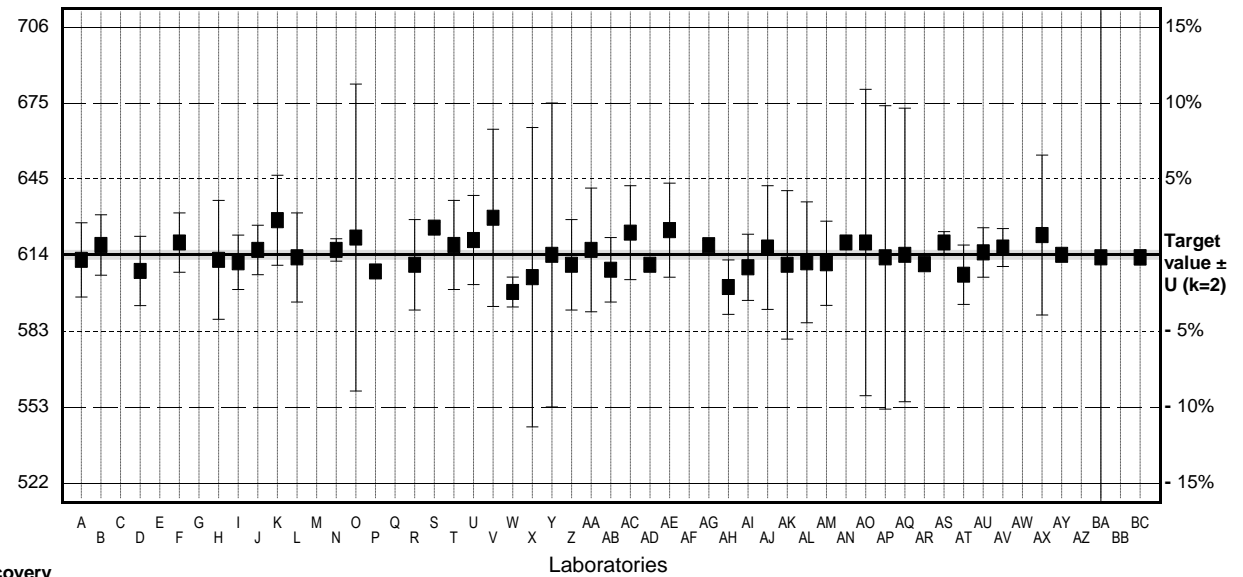
IFA result $\pm U$ (k=2) 617 $\mu\text{S/cm}$ \pm 9 $\mu\text{S/cm}$

Stability test $\mu\text{S/cm}$

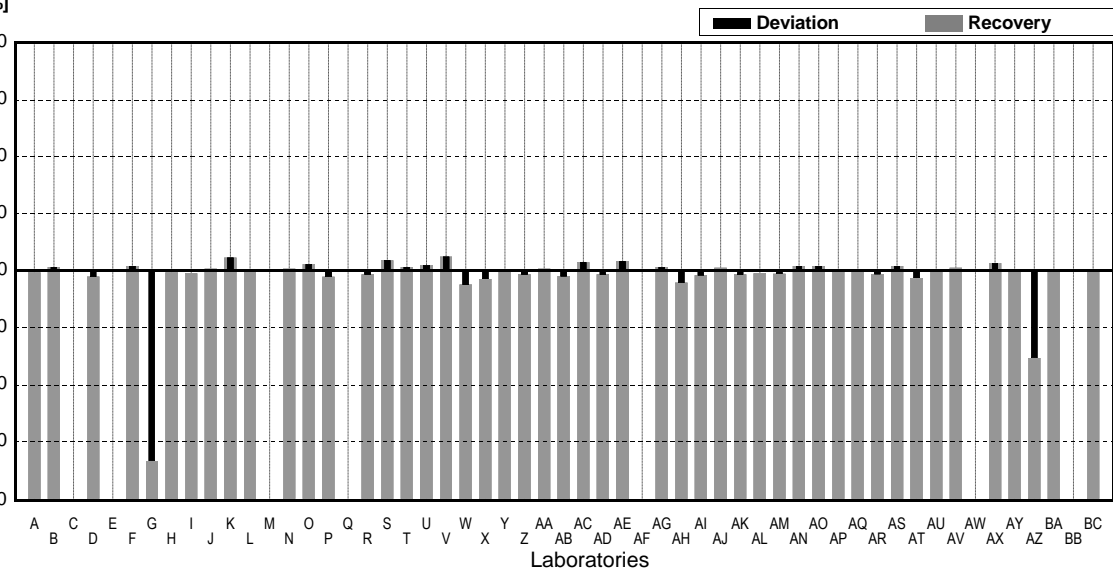
Lab Code	Result	\pm	Unit	Recovery	z-Score
A	612	15	$\mu\text{S/cm}$	100%	-0.27
B	618	12,2	$\mu\text{S/cm}$	101%	0,54
C			$\mu\text{S/cm}$		
D	607,5	14,0	$\mu\text{S/cm}$	99%	-0,88
E			$\mu\text{S/cm}$		
F	619	12	$\mu\text{S/cm}$	101%	0,68
G	409 *	8	$\mu\text{S/cm}$	67%	-27,82
H	612	24	$\mu\text{S/cm}$	100%	-0,27
I	611	11	$\mu\text{S/cm}$	100%	-0,41
J	616	10	$\mu\text{S/cm}$	100%	0,27
K	628	18,2	$\mu\text{S/cm}$	102%	1,90
L	613	18	$\mu\text{S/cm}$	100%	-0,14
M			$\mu\text{S/cm}$		
N	616	4,51	$\mu\text{S/cm}$	100%	0,27
O	621	62	$\mu\text{S/cm}$	101%	0,95
P	607,3		$\mu\text{S/cm}$	99%	-0,91
Q			$\mu\text{S/cm}$		
R	610	18,3	$\mu\text{S/cm}$	99%	-0,54
S	625	2,25	$\mu\text{S/cm}$	102%	1,49
T	618	18	$\mu\text{S/cm}$	101%	0,54
U	620	18	$\mu\text{S/cm}$	101%	0,81
V	629	35,8	$\mu\text{S/cm}$	102%	2,04
W	599	6,03	$\mu\text{S/cm}$	98%	-2,04
X	605	60,5	$\mu\text{S/cm}$	99%	-1,22
Y	614	61,4	$\mu\text{S/cm}$	100%	0,00
Z	610	18,3	$\mu\text{S/cm}$	99%	-0,54
AA	616	25	$\mu\text{S/cm}$	100%	0,27
AB	608	13	$\mu\text{S/cm}$	99%	-0,81
AC	623	19	$\mu\text{S/cm}$	101%	1,22
AD	610	2	$\mu\text{S/cm}$	99%	-0,54
AE	624	19	$\mu\text{S/cm}$	102%	1,36
AF			$\mu\text{S/cm}$		
AG	617,9	2	$\mu\text{S/cm}$	101%	0,53
AH	601	11	$\mu\text{S/cm}$	98%	-1,76
AI	609,0	13,4	$\mu\text{S/cm}$	99%	-0,68
AJ	617	25	$\mu\text{S/cm}$	100%	0,41
AK	610	30	$\mu\text{S/cm}$	99%	-0,54
AL	611	24,4	$\mu\text{S/cm}$	100%	-0,41
AM	610,6	17,0	$\mu\text{S/cm}$	99%	-0,46
AN	619		$\mu\text{S/cm}$	101%	0,68
AQ	619	61,9	$\mu\text{S/cm}$	101%	0,68
AP	613	61,3	$\mu\text{S/cm}$	100%	-0,14
AQ	614	59,3	$\mu\text{S/cm}$	100%	0,00
AR	610,25	2	$\mu\text{S/cm}$	99%	-0,51
AS	619	4,4	$\mu\text{S/cm}$	101%	0,68
AT	606	12	$\mu\text{S/cm}$	99%	-1,09
AU	615	10	$\mu\text{S/cm}$	100%	0,14
AV	617	7,65	$\mu\text{S/cm}$	100%	0,41
AW			$\mu\text{S/cm}$		
AX	622	32,3	$\mu\text{S/cm}$	101%	1,09
AY	614		$\mu\text{S/cm}$	100%	0,00
AZ	520 *	21	$\mu\text{S/cm}$	85%	-12,76
BA	613	123	$\mu\text{S/cm}$	100%	-0,14
BB			$\mu\text{S/cm}$		
BC	613	3	$\mu\text{S/cm}$	100%	-0,14

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	608 \pm 13	614 \pm 3	$\mu\text{S/cm}$
Recov. \pm CI(99%)	99,0 \pm 2,1	100,1 \pm 0,4	%
SD between labs	33	6	$\mu\text{S/cm}$
RSD between labs	5,4	1,0	%
n for calculation	48	46	

Result
[$\mu\text{S/cm}$]



Recovery
[%]



Sample N168B

Parameter Conductivity

Target value ± U (k=2) 409 µS/cm ± 1 µS/cm

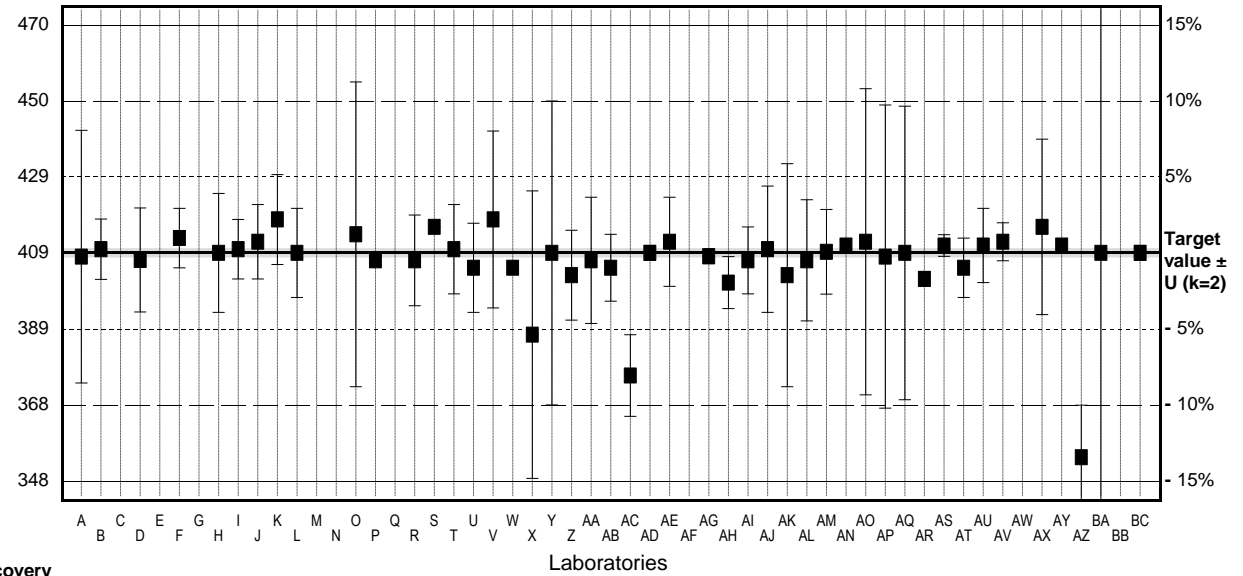
IFA result ± U (k=2) 412 µS/cm ± 6 µS/cm

Stability test µS/cm

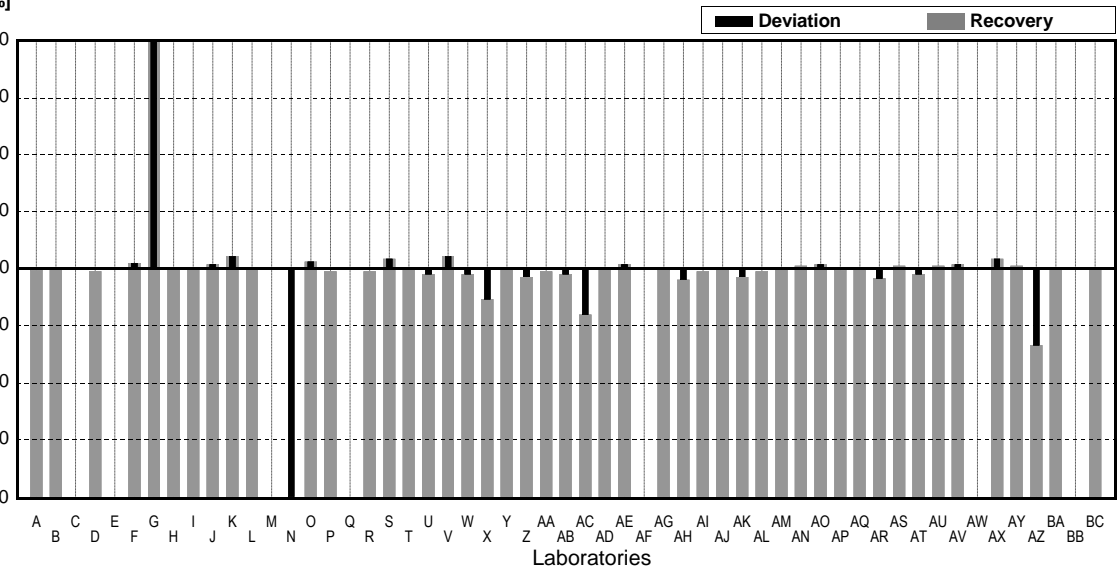
Lab Code	Result	±	Unit	Recovery	z-Score
A	408	34	µS/cm	100%	-0.20
B	410	8,12	µS/cm	100%	0.20
C			µS/cm		
D	407,1	14,0	µS/cm	100%	-0.39
E			µS/cm		
F	413	8	µS/cm	101%	0.81
G	617 *	12	µS/cm	151%	42.38
H	409	16	µS/cm	100%	0.00
I	410	8	µS/cm	100%	0.20
J	412	10	µS/cm	101%	0.61
K	418	12,1	µS/cm	102%	1.83
L	409	12	µS/cm	100%	0.00
M			µS/cm		
N	4,11 *	4,51	µS/cm	1%	-82.50
O	414	41	µS/cm	101%	1.02
P	407		µS/cm	100%	-0.41
Q			µS/cm		
R	407	12,21	µS/cm	100%	-0.41
S	416	0,127	µS/cm	102%	1.43
T	410	12	µS/cm	100%	0.20
U	405	12	µS/cm	99%	-0.81
V	418	23,8	µS/cm	102%	1.83
W	405	1,16	µS/cm	99%	-0.81
X	387 *	38,7	µS/cm	95%	-4.48
Y	409	40,9	µS/cm	100%	0.00
Z	403	12,1	µS/cm	99%	-1.22
AA	407	17	µS/cm	100%	-0.41
AB	405	9	µS/cm	99%	-0.81
AC	376 *	11	µS/cm	92%	-6.72
AD	409	2	µS/cm	100%	0.00
AE	412	12	µS/cm	101%	0.61
AF			µS/cm		
AG	408,1	2	µS/cm	100%	-0.18
AH	401	7	µS/cm	98%	-1.63
AI	407,0	9,0	µS/cm	100%	-0.41
AJ	410	17	µS/cm	100%	0.20
AK	403	30	µS/cm	99%	-1.22
AL	407	16,3	µS/cm	100%	-0.41
AM	409,3	11,4	µS/cm	100%	0.06
AN	411		µS/cm	100%	0.41
AQ	412	41,2	µS/cm	101%	0.61
AP	408	40,8	µS/cm	100%	-0.20
AQ	409	39,5	µS/cm	100%	0.00
AR	402,00	2	µS/cm	98%	-1.43
AS	411	2,9	µS/cm	100%	0.41
AT	405	8	µS/cm	99%	-0.81
AU	411	10	µS/cm	100%	0.41
AV	412	5,11	µS/cm	101%	0.61
AW			µS/cm		
AX	416	23,6	µS/cm	102%	1.43
AY	411		µS/cm	100%	0.41
AZ	354 *	14	µS/cm	87%	-11,21
BA	409	82	µS/cm	100%	0.00
BB			µS/cm		
BC	409	2	µS/cm	100%	0.00

	All results	Outliers excl.	Unit
Mean ± CI(99%)	403 ± 26	409 ± 2	µS/cm
Recov. ± CI(99%)	98,5 ± 6,3	100,0 ± 0,4	%
SD between labs	67	4	µS/cm
RSD between labs	16,6	0,9	%
n for calculation	48	43	

Result
[µS/cm]



Recovery
[%]



Sample N168A

Parameter Total hardness

Target value ± U (k=2) 2,60 mmol/l ± 0,03 mmol/l

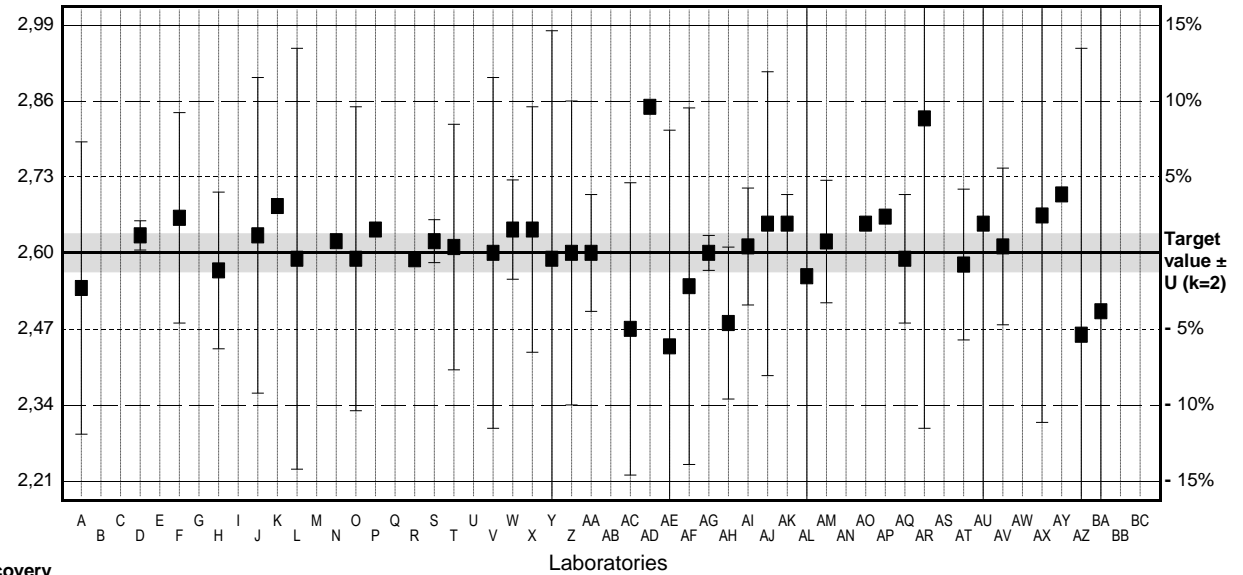
IFA result ± U (k=2) 2,68 mmol/l ± 0,10 mmol/l

Stability test mmol/l

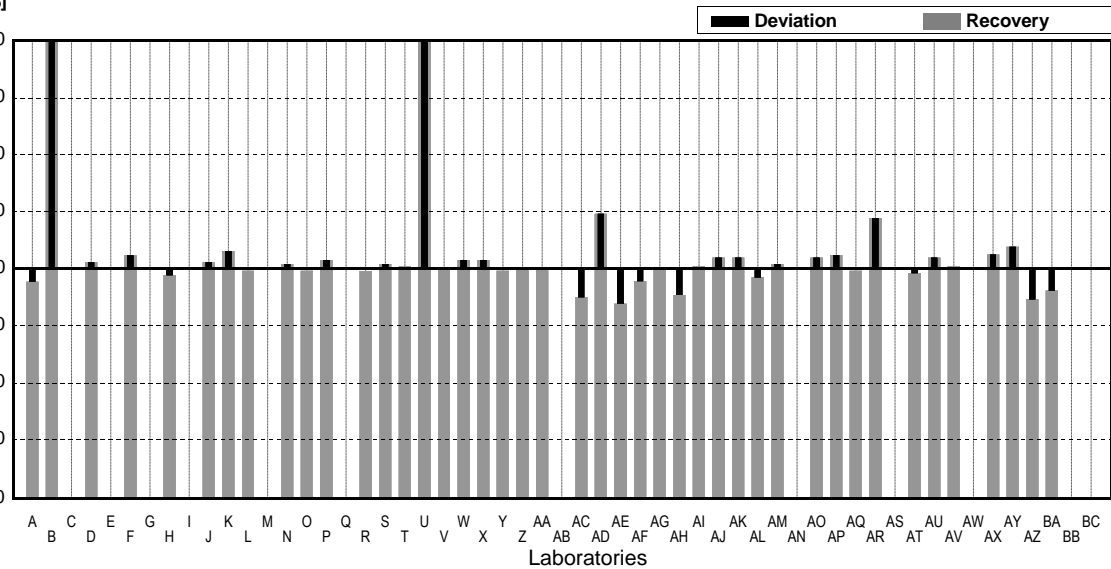
Lab Code	Result	±	Unit	Recovery	z-Score
A	2,54	0,25	mmol/l	98%	-0,82
B	149,94 *	22,49	mmol/l	5767%	2023,90
C			mmol/l		
D	2,63	0,025	mmol/l	101%	0,41
E			mmol/l		
F	2,66	0,18	mmol/l	102%	0,82
G			mmol/l		
H	2,57	0,134	mmol/l	99%	-0,41
I			mmol/l		
J	2,63	0,27	mmol/l	101%	0,41
K	2,68		mmol/l	103%	1,10
L	2,59	0,36	mmol/l	100%	-0,14
M			mmol/l		
N	2,62		mmol/l	101%	0,27
O	2,59	0,26	mmol/l	100%	-0,14
P	2,64		mmol/l	102%	0,55
Q			mmol/l		
R	2,589		mmol/l	100%	-0,15
S	2,62	0,0367	mmol/l	101%	0,27
T	2,61	0,21	mmol/l	100%	0,14
U	14,3 *	2,6	mmol/l	550%	160,71
V	2,60	0,3	mmol/l	100%	0,00
W	2,64	0,085	mmol/l	102%	0,55
X	2,64	0,21	mmol/l	102%	0,55
Y	2,59	0,39	mmol/l	100%	-0,14
Z	2,60	0,260	mmol/l	100%	0,00
AA	2,60	0,1	mmol/l	100%	0,00
AB			mmol/l		
AC	2,47	0,25	mmol/l	95%	-1,79
AD	2,85 *	0,01	mmol/l	110%	3,43
AE	2,44	0,37	mmol/l	94%	-2,20
AF	2,543	0,305	mmol/l	98%	-0,78
AG	2,60	0,03	mmol/l	100%	0,00
AH	2,48	0,13	mmol/l	95%	-1,65
AI	2,611	0,10	mmol/l	100%	0,15
AJ	2,65	0,26	mmol/l	102%	0,69
AK	2,65	0,05	mmol/l	102%	0,69
AL	2,56	0,461	mmol/l	98%	-0,55
AM	2,6195	0,10478	mmol/l	101%	0,27
AN			mmol/l		
AQ	2,65		mmol/l	102%	0,69
AP	2,662		mmol/l	102%	0,85
AQ	2,59	0,11	mmol/l	100%	-0,14
AR	2,83 *	0,53	mmol/l	109%	3,16
AS			mmol/l		
AT	2,58	0,129	mmol/l	99%	-0,27
AU	2,65	0,5	mmol/l	102%	0,69
AV	2,611	0,134	mmol/l	100%	0,15
AW			mmol/l		
AX	2,664	0,354	mmol/l	102%	0,88
AY	2,70		mmol/l	104%	1,37
AZ	2,46	0,49	mmol/l	95%	-1,92
BA	2,50	0,5	mmol/l	96%	-1,37
BB			mmol/l		
BC			mmol/l		

	All results	Outliers excl.	Unit
Mean ± CI(99%)	6,31 ± 9,26	2,60 ± 0,03	mmol/l
Recov. ± CI(99%)	242,6 ± 356,3	99,9 ± 1,0	%
SD between labs	22,50	0,06	mmol/l
RSD between labs	356,6	2,4	%
n for calculation	43	39	

Result [mmol/l]



Recovery [%]



Sample N168B

Parameter Total hardness

Target value ± U (k=2) 1,285 mmol/l ± 0,015 mmol/l

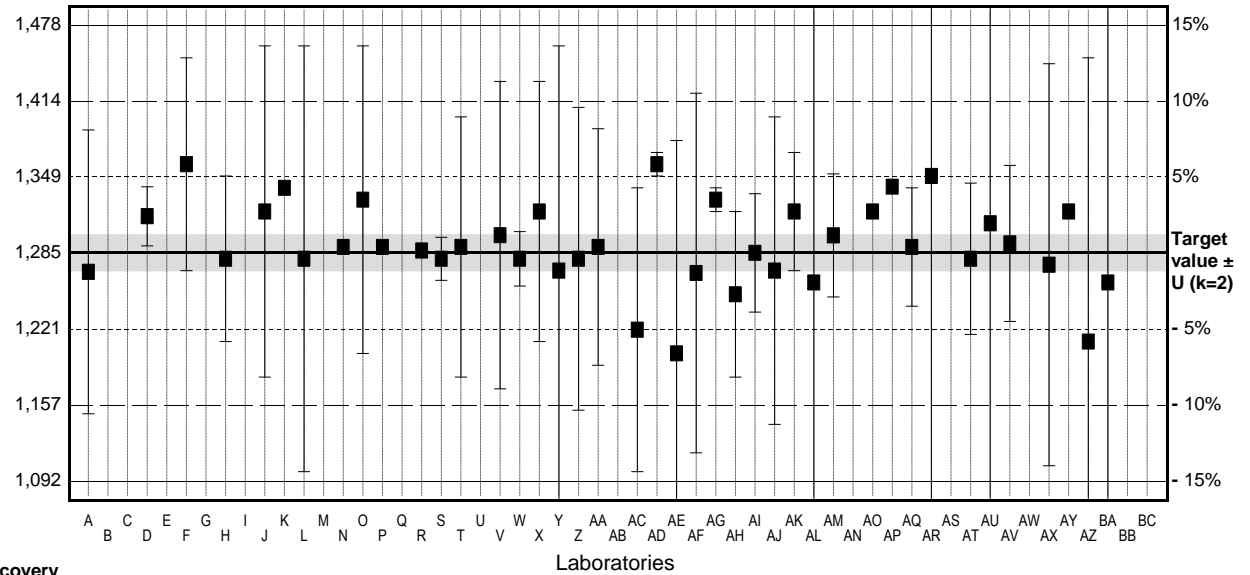
IFA result ± U (k=2) 1,31 mmol/l ± 0,05 mmol/l

Stability test mmol/l

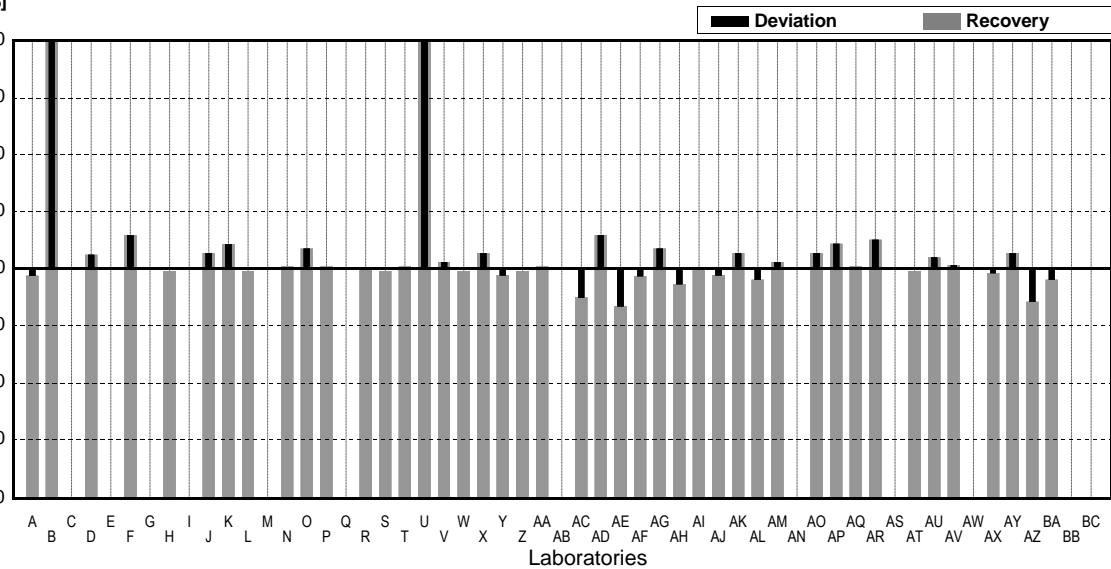
Lab Code	Result	±	Unit	Recovery	z-Score
A	1,269	0,12	mmol/l	99%	-0,44
B	71,68 *	10,75	mmol/l	5578%	1956,50
C			mmol/l		
D	1,316	0,025	mmol/l	102%	0,86
E			mmol/l		
F	1,36	0,09	mmol/l	106%	2,08
G			mmol/l		
H	1,28	0,070	mmol/l	100%	-0,14
I			mmol/l		
J	1,32	0,14	mmol/l	103%	0,97
K	1,34		mmol/l	104%	1,53
L	1,28	0,18	mmol/l	100%	-0,14
M			mmol/l		
N	1,29		mmol/l	100%	0,14
O	1,33	0,13	mmol/l	104%	1,25
P	1,29		mmol/l	100%	0,14
Q			mmol/l		
R	1,287		mmol/l	100%	0,06
S	1,28	0,0182	mmol/l	100%	-0,14
T	1,29	0,11	mmol/l	100%	0,14
U	7,3 *	1,3	mmol/l	568%	167,18
V	1,30	0,13	mmol/l	101%	0,42
W	1,28	0,023	mmol/l	100%	-0,14
X	1,32	0,11	mmol/l	103%	0,97
Y	1,27	0,19	mmol/l	99%	-0,42
Z	1,28	0,128	mmol/l	100%	-0,14
AA	1,29	0,1	mmol/l	100%	0,14
AB			mmol/l		
AC	1,22	0,12	mmol/l	95%	-1,81
AD	1,36	0,01	mmol/l	106%	2,08
AE	1,20	0,18	mmol/l	93%	-2,36
AF	1,268	0,152	mmol/l	99%	-0,47
AG	1,33	0,01	mmol/l	104%	1,25
AH	1,25	0,07	mmol/l	97%	-0,97
AI	1,285	0,05	mmol/l	100%	0,00
AJ	1,27	0,13	mmol/l	99%	-0,42
AK	1,32	0,05	mmol/l	103%	0,97
AL	1,26	0,227	mmol/l	98%	-0,69
AM	1,2998	0,05199	mmol/l	101%	0,41
AN			mmol/l		
AQ	1,32		mmol/l	103%	0,97
AP	1,341		mmol/l	104%	1,56
AQ	1,29	0,05	mmol/l	100%	0,14
AR	1,35	0,53	mmol/l	105%	1,81
AS			mmol/l		
AT	1,28	0,064	mmol/l	100%	-0,14
AU	1,31	0,27	mmol/l	102%	0,69
AV	1,293	0,066	mmol/l	101%	0,22
AW			mmol/l		
AX	1,275	0,17	mmol/l	99%	-0,28
AY	1,32		mmol/l	103%	0,97
AZ	1,21	0,24	mmol/l	94%	-2,08
BA	1,26	0,25	mmol/l	98%	-0,69
BB			mmol/l		
BC			mmol/l		

	All results	Outliers excl.	Unit
Mean ± CI(99%)	3,069 ± 4,427	1,292 ± 0,015	mmol/l
Recov. ± CI(99%)	238,8 ± 344,5	100,6 ± 1,2	%
SD between labs	10,751	0,036	mmol/l
RSD between labs	350,3	2,8	%
n for calculation	43	41	

Result [mmol/l]



Recovery [%]



Sample N168A

Parameter Alkalinity

Target value ± U (k=2) 3,33 mmol/l ± 0,04 mmol/l

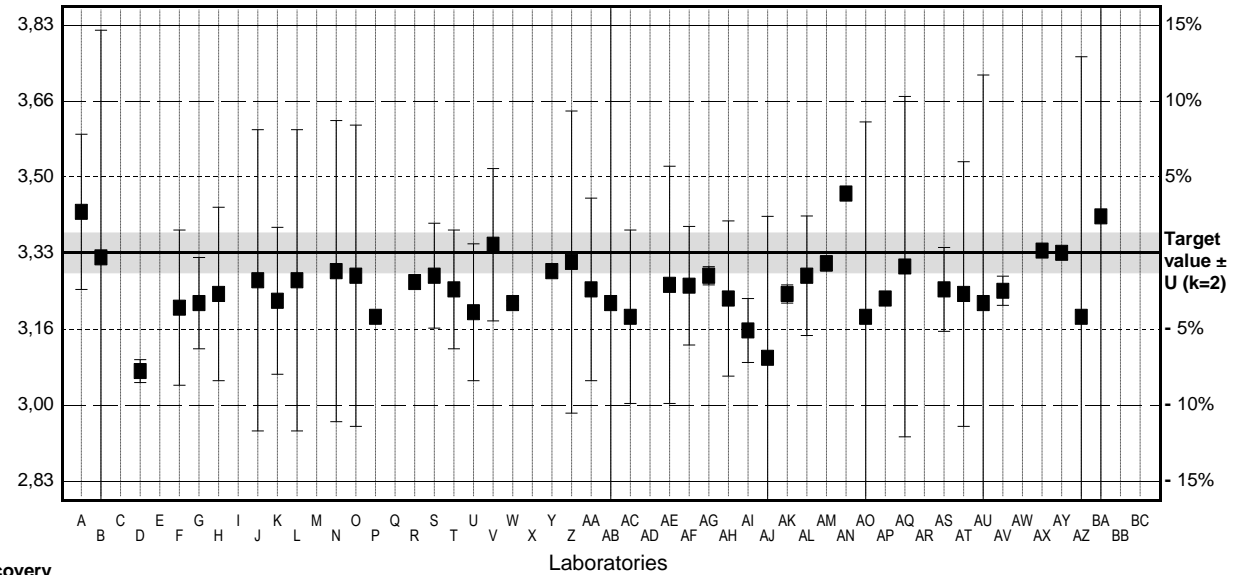
IFA result ± U (k=2) 3,21 mmol/l ± 0,13 mmol/l

Stability test mmol/l

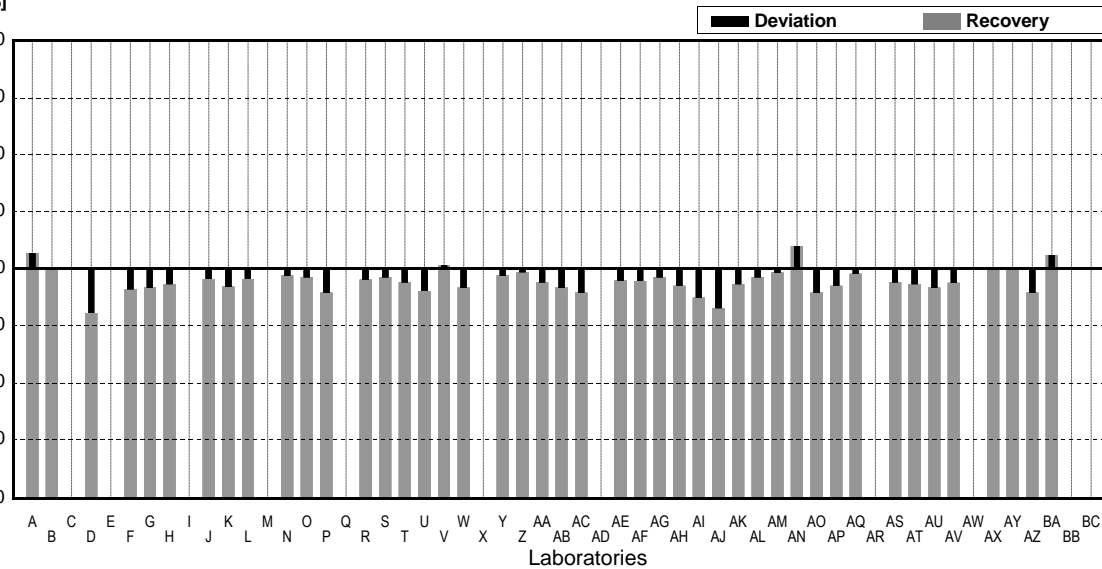
Lab Code	Result	±	Unit	Recovery	z-Score
A	3.42 *	0.17	mmol/l	103%	1.42
B	3.32	0.498	mmol/l	100%	-0.16
C			mmol/l		
D	3.071 *	0.025	mmol/l	92%	-4.09
E			mmol/l		
F	3.21	0.17	mmol/l	96%	-1.90
G	3.22	0.10	mmol/l	97%	-1.74
H	3.24	0.19	mmol/l	97%	-1.42
I			mmol/l		
J	3.27	0.33	mmol/l	98%	-0.95
K	3.225	0.161	mmol/l	97%	-1.66
L	3.27	0.33	mmol/l	98%	-0.95
M			mmol/l		
N	3.29	0.33	mmol/l	99%	-0.63
O	3.28	0.33	mmol/l	98%	-0.79
P	3.19		mmol/l	96%	-2.21
Q			mmol/l		
R	3.266		mmol/l	98%	-1.01
S	3.28	0.115	mmol/l	98%	-0.79
T	3.25	0.13	mmol/l	98%	-1.26
U	3.20	0.15	mmol/l	96%	-2.05
V	3.348	0.167	mmol/l	101%	0.28
W	3.22	0.006	mmol/l	97%	-1.74
X			mmol/l		
Y	3.29		mmol/l	99%	-0.63
Z	3.31	0.331	mmol/l	99%	-0.32
AA	3.25	0.2	mmol/l	98%	-1.26
AB	3.22	0.7	mmol/l	97%	-1.74
AC	3.19	0.19	mmol/l	96%	-2.21
AD			mmol/l		
AE	3.26	0.26	mmol/l	98%	-1.11
AF	3.258	0.130	mmol/l	98%	-1.14
AG	3.28	0.02	mmol/l	98%	-0.79
AH	3.23	0.17	mmol/l	97%	-1.58
AI	3.16	0.07	mmol/l	95%	-2.69
AJ	3.10 *	0.31	mmol/l	93%	-3.64
AK	3.24	0.02	mmol/l	97%	-1.42
AL	3.28	0.131	mmol/l	98%	-0.79
AM	3.307	0.0168	mmol/l	99%	-0.36
AN	3.46 *		mmol/l	104%	2.05
AQ	3.19	0.427	mmol/l	96%	-2.21
AP	3.23		mmol/l	97%	-1.58
AQ	3.30	0.373	mmol/l	99%	-0.47
AR			mmol/l		
AS	3.25	0.092	mmol/l	98%	-1.26
AT	3.24	0.29	mmol/l	97%	-1.42
AU	3.22	0.5	mmol/l	97%	-1.74
AV	3.247	0.032	mmol/l	98%	-1.31
AW			mmol/l		
AX	3.335		mmol/l	100%	0.08
AY	3.33		mmol/l	100%	0.00
AZ	3.19	0.57	mmol/l	96%	-2.21
BA	3.41 *	0.68	mmol/l	102%	1.26
BB			mmol/l		
BC			mmol/l		

	All results	Outliers excl.	Unit
Mean ± CI(99%)	3,26 ± 0,03	3,25 ± 0,02	mmol/l
Recov. ± CI(99%)	97,8 ± 0,9	97,7 ± 0,6	%
SD between labs	0,07	0,05	mmol/l
RSD between labs	2,2	1,4	%
n for calculation	44	39	

Result [mmol/l]



Recovery [%]



Sample N168B

Parameter Alkalinity

Target value ± U (k=2) 2,04 mmol/l ± 0,03 mmol/l

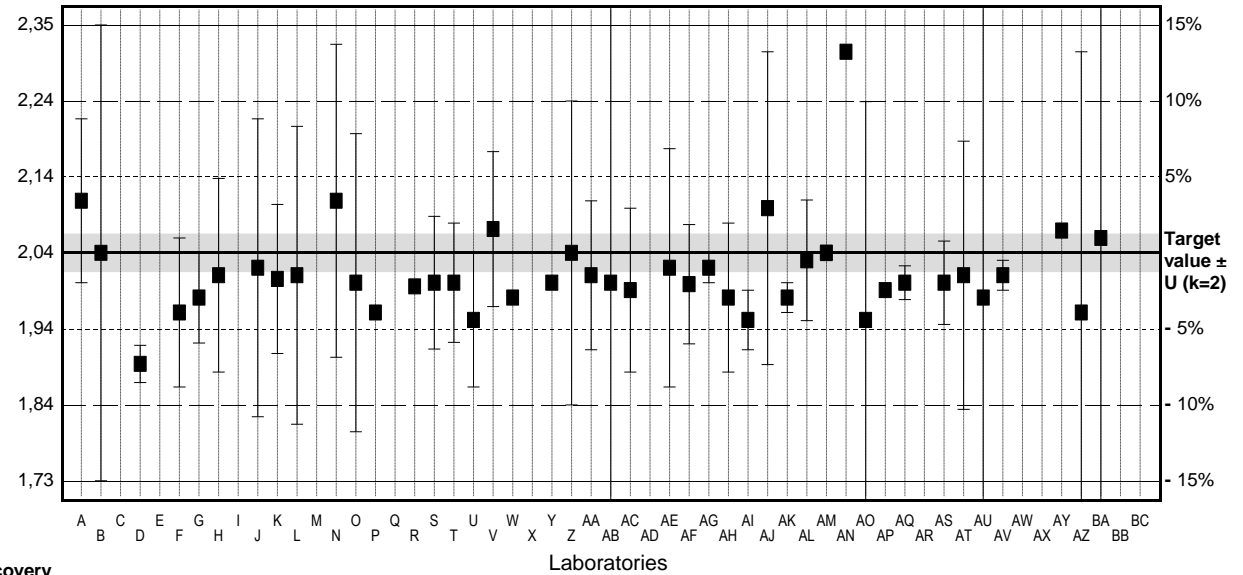
IFA result ± U (k=2) 1,98 mmol/l ± 0,08 mmol/l

Stability test mmol/l

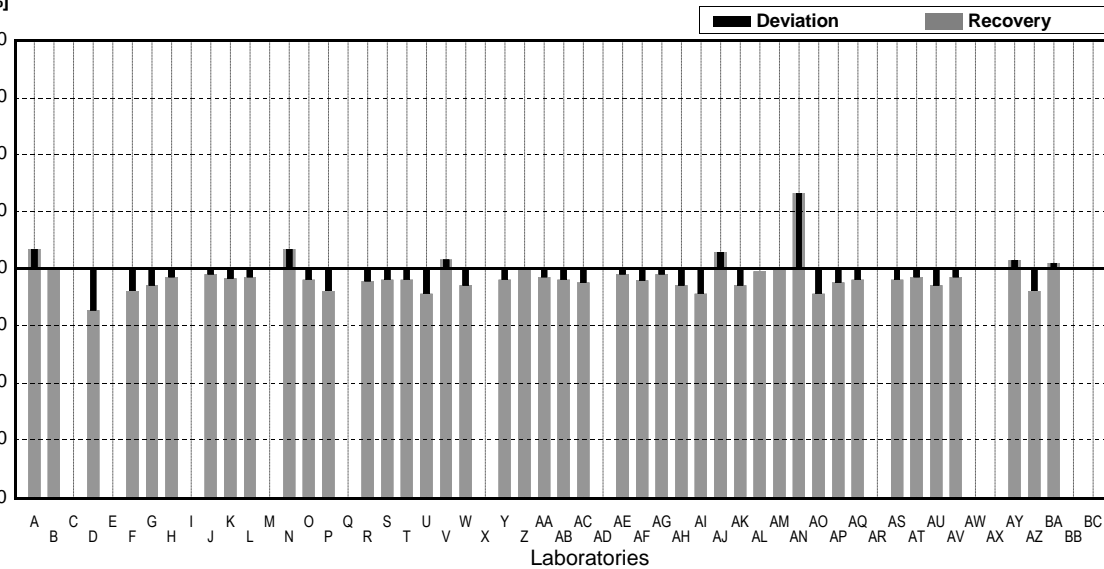
Lab Code	Result	±	Unit	Recovery	z-Score	
A	2.11	*	0.11	mmol/l	103%	1.81
B	2.04		0.306	mmol/l	100%	0.00
C				mmol/l		
D	1.891	*	0.025	mmol/l	93%	-3.84
E				mmol/l		
F	1.96		0.10	mmol/l	96%	-2.06
G	1.98		0.061	mmol/l	97%	-1.55
H	2.01		0.13	mmol/l	99%	-0.77
I				mmol/l		
J	2.02		0.2	mmol/l	99%	-0.52
K	2.005		0.100	mmol/l	98%	-0.90
L	2.01		0.20	mmol/l	99%	-0.77
M				mmol/l		
N	2.11	*	0.21	mmol/l	103%	1.81
O	2.00		0.20	mmol/l	98%	-1.03
P	1.96			mmol/l	96%	-2.06
Q				mmol/l		
R	1.995			mmol/l	98%	-1.16
S	2.00		0.0891	mmol/l	98%	-1.03
T	2.00		0.08	mmol/l	98%	-1.03
U	1.95		0.09	mmol/l	96%	-2.32
V	2.072		0.104	mmol/l	102%	0.83
W	1.98		0.003	mmol/l	97%	-1.55
X				mmol/l		
Y	2.00			mmol/l	98%	-1.03
Z	2.04		0.204	mmol/l	100%	0.00
AA	2.01		0.1	mmol/l	99%	-0.77
AB	2.00		0.44	mmol/l	98%	-1.03
AC	1.99		0.11	mmol/l	98%	-1.29
AD				mmol/l		
AE	2.02		0.16	mmol/l	99%	-0.52
AF	1.998		0.080	mmol/l	98%	-1.08
AG	2.02		0.02	mmol/l	99%	-0.52
AH	1.98		0.10	mmol/l	97%	-1.55
AI	1.95		0.04	mmol/l	96%	-2.32
AJ	2.10	*	0.21	mmol/l	103%	1.55
AK	1.98		0.02	mmol/l	97%	-1.55
AL	2.03		0.081	mmol/l	100%	-0.26
AM	2.040		0.0104	mmol/l	100%	0.00
AN	2.31	*		mmol/l	113%	6.97
AQ	1.95		0.293	mmol/l	96%	-2.32
AP	1.99			mmol/l	98%	-1.29
AQ	2.00		0.0226	mmol/l	98%	-1.03
AR				mmol/l		
AS	2.00		0.056	mmol/l	98%	-1.03
AT	2.01		0.18	mmol/l	99%	-0.77
AU	1.98		0.5	mmol/l	97%	-1.55
AV	2.010		0.020	mmol/l	99%	-0.77
AW				mmol/l		
AX				mmol/l		
AY	2.07			mmol/l	101%	0.77
AZ	1.96		0.35	mmol/l	96%	-2.06
BA	2.06		0.41	mmol/l	101%	0.52
BB				mmol/l		
BC				mmol/l		

	All results	Outliers excl.	Unit
Mean ± CI(99%)	2,01 ± 0,03	2,00 ± 0,01	mmol/l
Recov. ± CI(99%)	98,7 ± 1,3	98,1 ± 0,7	%
SD between labs	0,06	0,03	mmol/l
RSD between labs	3,2	1,5	%
n for calculation	43	38	

Result [mmol/l]



Recovery [%]



Sample N168A

Parameter Hydrogen carbonate

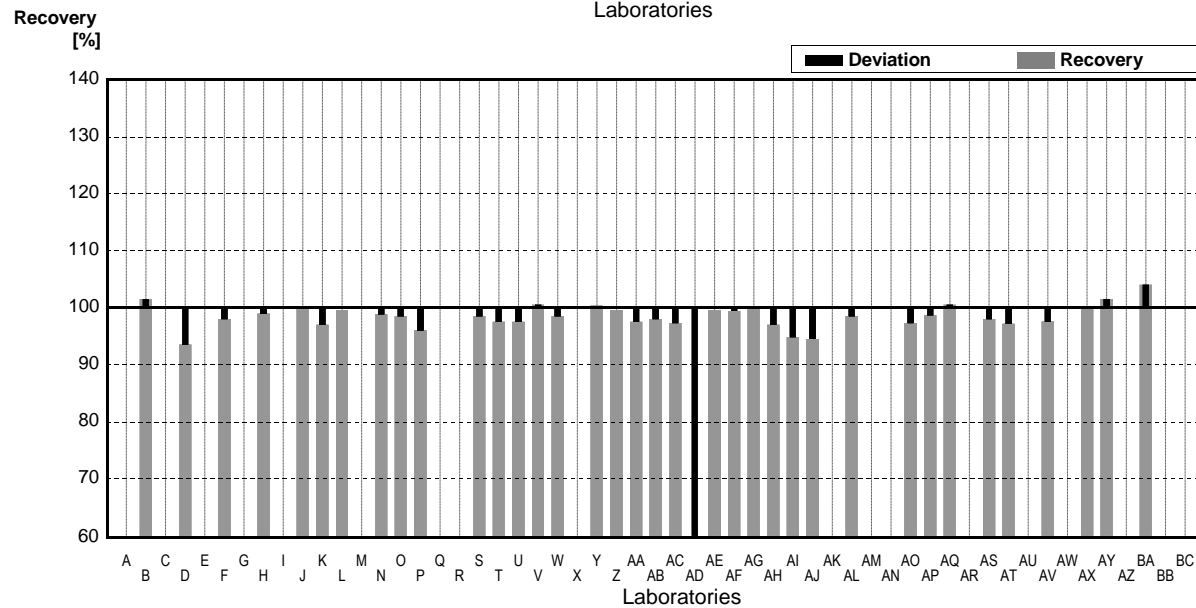
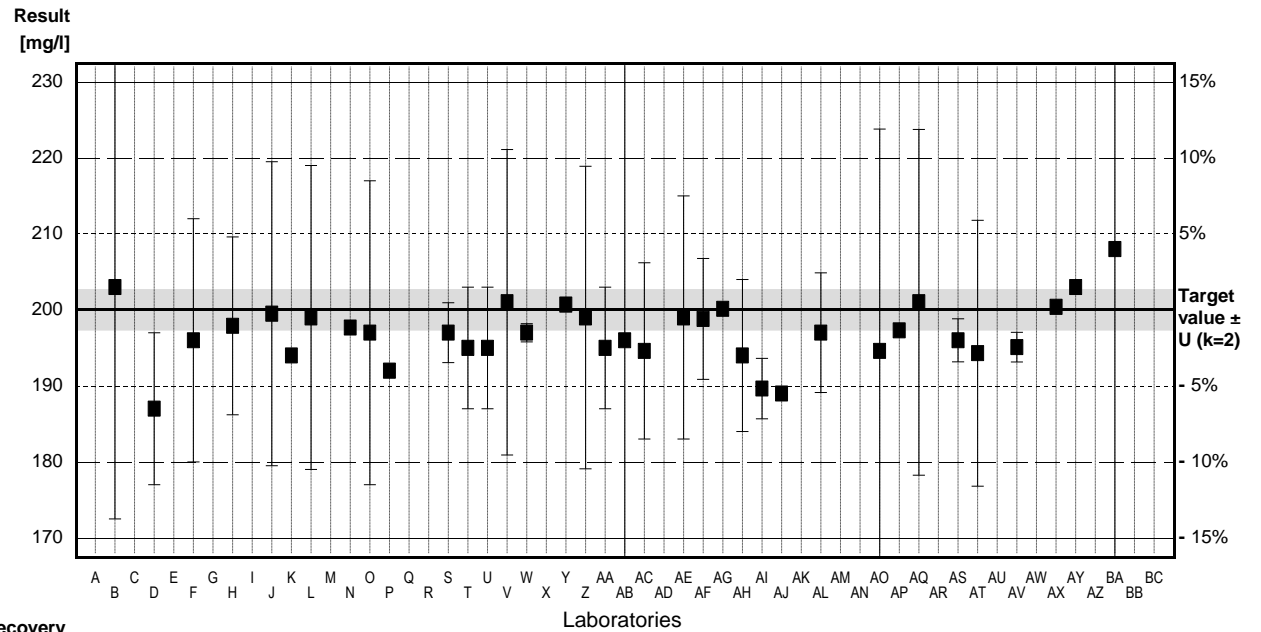
Target value ± U (k=2) 200 mg/l ± 3 mg/l

IFA result ± U (k=2) 193 mg/l ± 8 mg/l

Stability test mg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			mg/l		
B	203	30,5	mg/l	102%	0,63
C			mg/l		
D	187	10	mg/l	94%	-2,71
E			mg/l		
F	196	16	mg/l	98%	-0,83
G			mg/l		
H	197,9	11,7	mg/l	99%	-0,44
I			mg/l		
J	199,5	20	mg/l	100%	-0,10
K	194		mg/l	97%	-1,25
L	199	20	mg/l	100%	-0,21
M			mg/l		
N	197,67		mg/l	99%	-0,49
O	197	20	mg/l	99%	-0,63
P	192		mg/l	96%	-1,67
Q			mg/l		
R			mg/l		
S	197	3,94	mg/l	99%	-0,63
T	195	8	mg/l	98%	-1,04
U	195	8	mg/l	98%	-1,04
V	201	20,1	mg/l	101%	0,21
W	197	1,2	mg/l	99%	-0,63
X			mg/l		
Y	200,7		mg/l	100%	0,15
Z	199	19,9	mg/l	100%	-0,21
AA	195	8	mg/l	98%	-1,04
AB	196	43	mg/l	98%	-0,83
AC	194,6	11,6	mg/l	97%	-1,13
AD	100 *	2	mg/l	50%	-20,83
AE	199	16	mg/l	100%	-0,21
AF	198,81	7,952	mg/l	99%	-0,25
AG	200,14	0,02	mg/l	100%	0,03
AH	194	10	mg/l	97%	-1,25
AI	189,65	3,98	mg/l	95%	-2,16
AJ	189		mg/l	95%	-2,29
AK			mg/l		
AL	197	7,88	mg/l	99%	-0,63
AM			mg/l		
AN			mg/l		
AQ	194,6	29,20	mg/l	97%	-1,13
AP	197,3		mg/l	99%	-0,56
AQ	201	22,75	mg/l	101%	0,21
AR			mg/l		
AS	196	2,83	mg/l	98%	-0,83
AT	194,3	17,5	mg/l	97%	-1,19
AU			mg/l		
AV	195,1	1,95	mg/l	98%	-1,02
AW			mg/l		
AX	200,4		mg/l	100%	0,08
AY	203		mg/l	102%	0,63
AZ			mg/l		
BA	208 *	41	mg/l	104%	1,67
BB			mg/l		
BC			mg/l		

	All results	Outliers excl.	Unit
Mean ± CI(99%)	194 ± 7	197 ± 2	mg/l
Recov. ± CI(99%)	97,2 ± 3,7	98,3 ± 0,8	%
SD between labs	16	4	mg/l
RSD between labs	8,5	1,9	%
n for calculation	37	35	



Sample N168B

Parameter Hydrogen carbonate

Target value ± U (k=2) 121,4 mg/l ± 1,5 mg/l

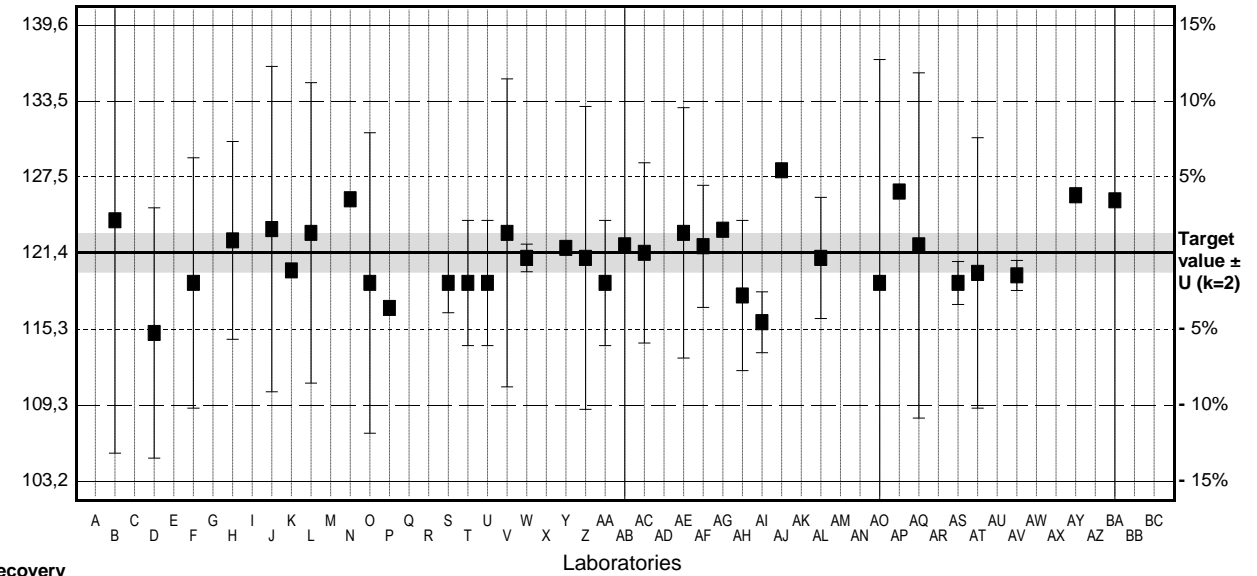
IFA result ± U (k=2) 118 mg/l ± 5 mg/l

Stability test mg/l

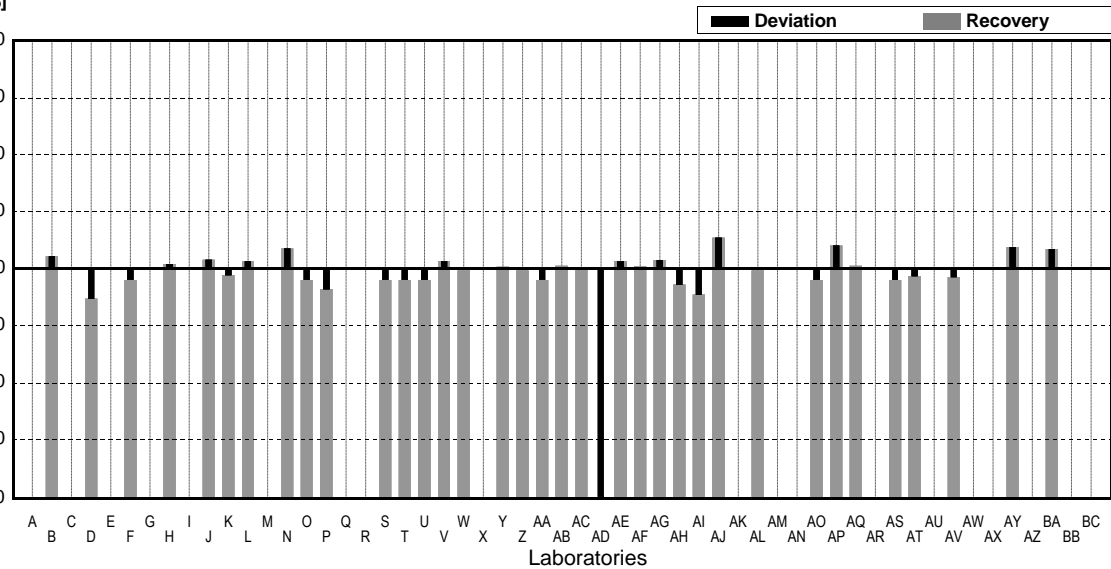
Lab Code	Result	±	Unit	Recovery	z-Score
A			mg/l		
B	124	18,6	mg/l	102%	0,89
C			mg/l		
D	115	10	mg/l	95%	-2,20
E			mg/l		
F	119	10	mg/l	98%	-0,82
G			mg/l		
H	122,4	7,9	mg/l	101%	0,34
I			mg/l		
J	123,3	13	mg/l	102%	0,65
K	120		mg/l	99%	-0,48
L	123	12	mg/l	101%	0,55
M			mg/l		
N	125,68		mg/l	104%	1,47
O	119	12	mg/l	98%	-0,82
P	117		mg/l	96%	-1,51
Q			mg/l		
R			mg/l		
S	119	2,38	mg/l	98%	-0,82
T	119	5	mg/l	98%	-0,82
U	119	5	mg/l	98%	-0,82
V	123	12,3	mg/l	101%	0,55
W	121	1,1	mg/l	100%	-0,14
X			mg/l		
Y	121,8		mg/l	100%	0,14
Z	121	12,1	mg/l	100%	-0,14
AA	119	5	mg/l	98%	-0,82
AB	122	27	mg/l	100%	0,21
AC	121,4	7,2	mg/l	100%	0,00
AD	62	2	mg/l	51%	-20,39
AE	123	10	mg/l	101%	0,55
AF	121,93	4,877	mg/l	100%	0,18
AG	123,25	0,02	mg/l	102%	0,63
AH	118	6	mg/l	97%	-1,17
AI	115,86	2,43	mg/l	95%	-1,90
AJ	128		mg/l	105%	2,27
AK			mg/l		
AL	121	4,84	mg/l	100%	-0,14
AM			mg/l		
AN			mg/l		
AQ	119,0	17,85	mg/l	98%	-0,82
AP	126,3		mg/l	104%	1,68
AQ	122	13,79	mg/l	100%	0,21
AR			mg/l		
AS	119	1,71	mg/l	98%	-0,82
AT	119,8	10,8	mg/l	99%	-0,55
AU			mg/l		
AV	119,6	1,20	mg/l	99%	-0,62
AW			mg/l		
AX			mg/l		
AY	126		mg/l	104%	1,58
AZ			mg/l		
BA	125,6	25,1	mg/l	103%	1,44
BB			mg/l		
BC			mg/l		

	All results	Outliers excl.	Unit
Mean ± CI(99%)	119,6 ± 4,7	121,2 ± 1,4	mg/l
Recov. ± CI(99%)	98,5 ± 3,9	99,9 ± 1,1	%
SD between labs	10,3	3,0	mg/l
RSD between labs	8,6	2,5	%
n for calculation	36	35	

Result [mg/l]



Recovery [%]



Sample N168A

Parameter Calcium

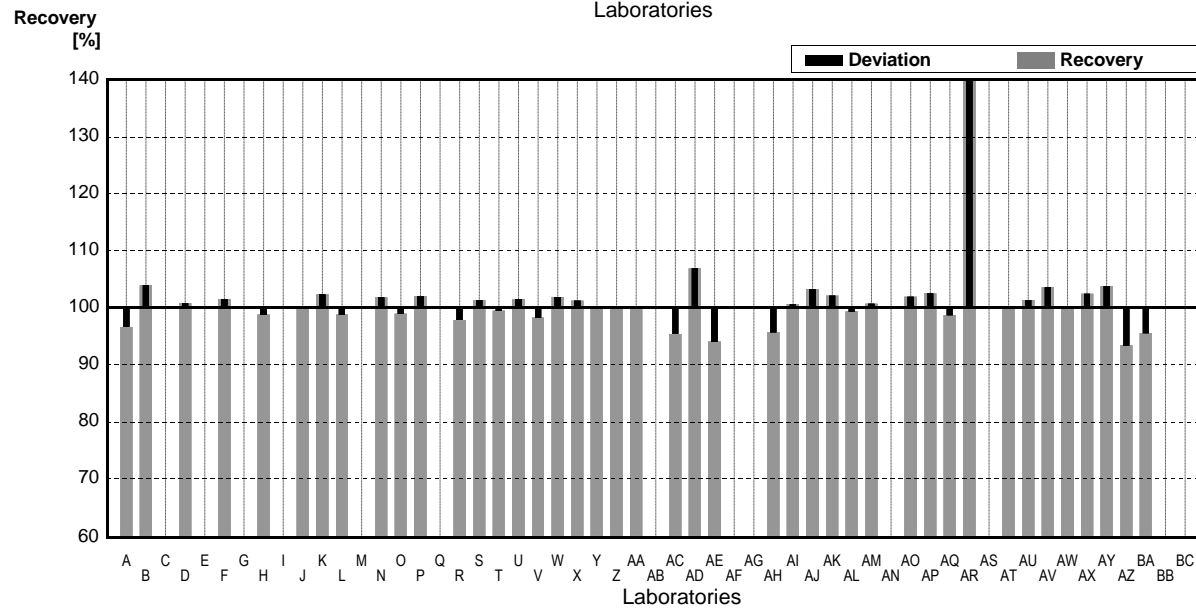
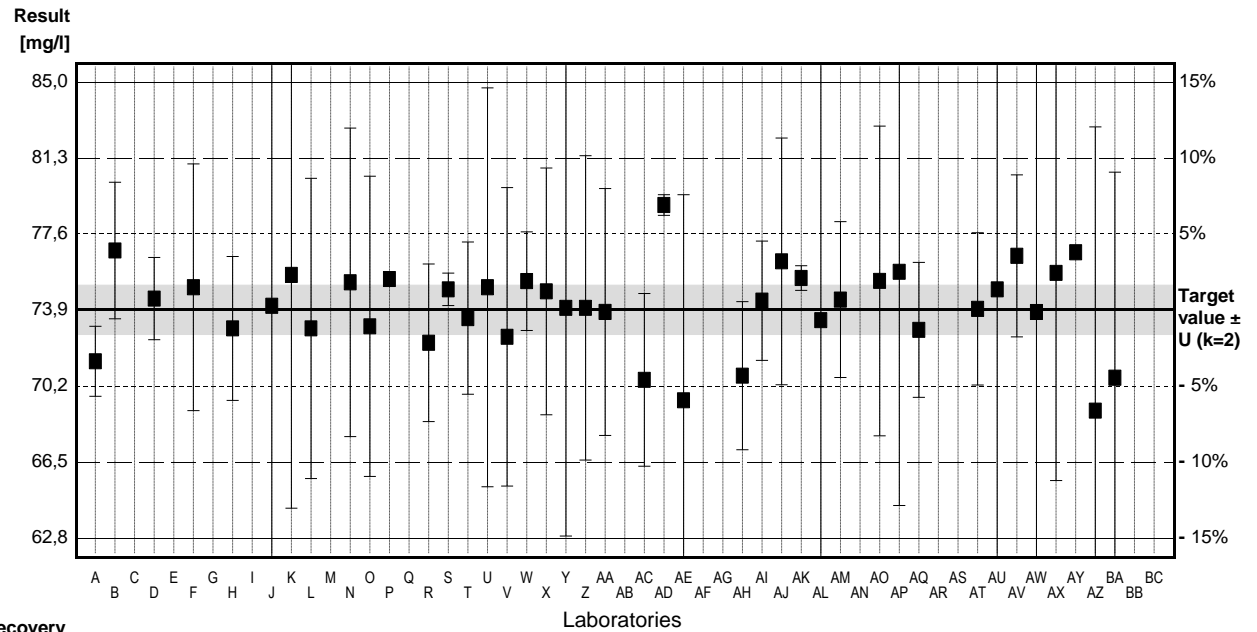
Target value ± U (k=2) 73,9 mg/l ± 1,2 mg/l

IFA result ± U (k=2) 77 mg/l ± 3 mg/l

Stability test mg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A	71.4	1,7	mg/l	97%	-1.06
B	76.79	3,32	mg/l	104%	1,22
C			mg/l		
D	74.45	2	mg/l	101%	0.23
E			mg/l		
F	75	6	mg/l	101%	0.47
G			mg/l		
H	73.0	3.5	mg/l	99%	-0.38
I			mg/l		
J	74.1	15	mg/l	100%	0.08
K	75.6	11,34	mg/l	102%	0.72
L	73.0	7,3	mg/l	99%	-0.38
M			mg/l		
N	75.24	7.5	mg/l	102%	0.57
O	73.1	7.3	mg/l	99%	-0.34
P	75.4		mg/l	102%	0.63
Q			mg/l		
R	72.301	3,83	mg/l	98%	-0.68
S	74.9	0,790	mg/l	101%	0.42
T	73.5	3,7	mg/l	99%	-0.17
U	75	9,7	mg/l	101%	0.47
V	72.591	7,26	mg/l	98%	-0.55
W	75.3	2,4	mg/l	102%	0.59
X	74.8	6,0	mg/l	101%	0.38
Y	74.0	11,1	mg/l	100%	0.04
Z	74	7,4	mg/l	100%	0.04
AA	73.8	6	mg/l	100%	-0.04
AB			mg/l		
AC	70.5	4,2	mg/l	95%	-1.44
AD	79	0,5	mg/l	107%	2,16
AE	69.5	10	mg/l	94%	-1.86
AF			mg/l		
AG			mg/l		
AH	70.7	3,6	mg/l	96%	-1.35
AI	74.35	2,90	mg/l	101%	0,19
AJ	76.26	6	mg/l	103%	1,00
AK	75.45	0,6	mg/l	102%	0,66
AL	73.4	13,2	mg/l	99%	-0,21
AM	74.40	3,79	mg/l	101%	0,21
AN			mg/l		
AQ	75.31	7,531	mg/l	102%	0,60
AP	75.75	11,36	mg/l	103%	0,78
AQ	72.93	3,28	mg/l	99%	-0,41
AR	151.95 *	5	mg/l	206%	33,00
AS			mg/l		
AT	73.95	3,70	mg/l	100%	0,02
AU	74.9	15	mg/l	101%	0,42
AV	76.53	3,94	mg/l	104%	1,11
AW	73.796	18,449	mg/l	100%	-0,04
AX	75.7	10,1	mg/l	102%	0,76
AY	76.7		mg/l	104%	1,18
AZ	69.0 *	13,8	mg/l	93%	-2,07
BA	70.6	10	mg/l	96%	-1,40
BB			mg/l		
BC			mg/l		

	All results	Outliers excl.	Unit
Mean ± CI(99%)	75,9 ± 5,1	74,2 ± 0,8	mg/l
Recov. ± CI(99%)	102,7 ± 6,9	100,4 ± 1,1	%
SD between labs	12,2	1,9	mg/l
RSD between labs	16,1	2,6	%
n for calculation	42	40	



Sample N168B

Parameter Calcium

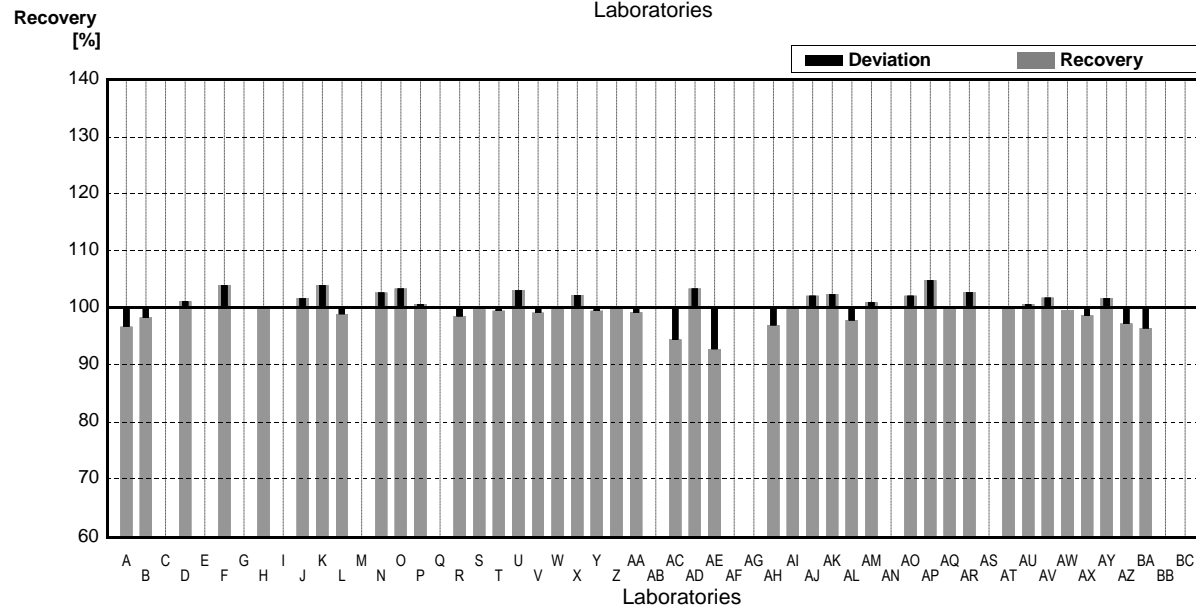
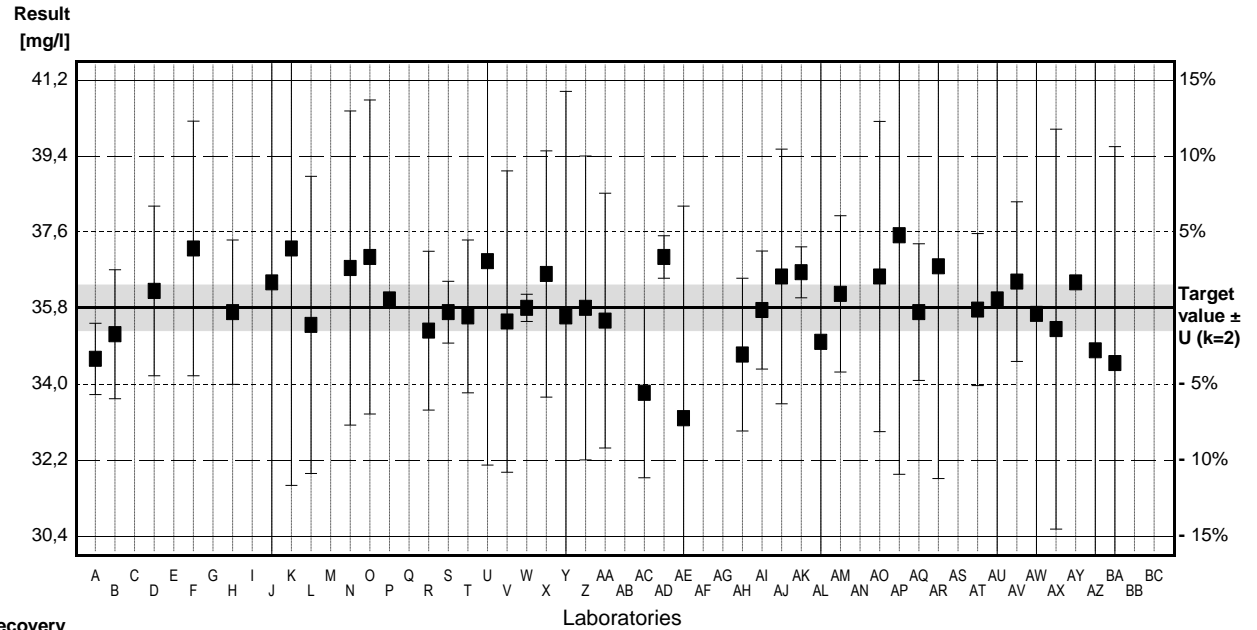
Target value ± U (k=2) 35,8 mg/l ± 0,5 mg/l

IFA result ± U (k=2) 36,3 mg/l ± 1,7 mg/l

Stability test mg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A	34.6	0,84	mg/l	97%	-1.05
B	35,18	1,52	mg/l	98%	-0,54
C			mg/l		
D	36,2	2	mg/l	101%	0,35
E			mg/l		
F	37,2	3,0	mg/l	104%	1,22
G			mg/l		
H	35,7	1,7	mg/l	100%	-0,09
I			mg/l		
J	36,4	7,3	mg/l	102%	0,52
K	37,2	5,58	mg/l	104%	1,22
L	35,4	3,5	mg/l	99%	-0,35
M			mg/l		
N	36,74	3,7	mg/l	103%	0,82
O	37,0	3,7	mg/l	103%	1,05
P	36,0		mg/l	101%	0,17
Q			mg/l		
R	35,264	1,87	mg/l	99%	-0,47
S	35,7	0,727	mg/l	100%	-0,09
T	35,6	1,8	mg/l	99%	-0,17
U	36,9	4,8	mg/l	103%	0,96
V	35,478	3,55	mg/l	99%	-0,28
W	35,8	0,32	mg/l	100%	0,00
X	36,6	2,9	mg/l	102%	0,70
Y	35,6	5,3	mg/l	99%	-0,17
Z	35,8	3,58	mg/l	100%	0,00
AA	35,5	3	mg/l	99%	-0,26
AB			mg/l		
AC	33,8	2,0	mg/l	94%	-1,75
AD	37,0	0,5	mg/l	103%	1,05
AE	33,2	5,0	mg/l	93%	-2,27
AF			mg/l		
AG			mg/l		
AH	34,7	1,8	mg/l	97%	-0,96
AI	35,75	1,39	mg/l	100%	-0,04
AJ	36,54	3	mg/l	102%	0,65
AK	36,64	0,6	mg/l	102%	0,73
AL	35,0	6,3	mg/l	98%	-0,70
AM	36,13	1,84	mg/l	101%	0,29
AN			mg/l		
AQ	36,54	3,654	mg/l	102%	0,65
AP	37,51	5,63	mg/l	105%	1,49
AQ	35,70	1,61	mg/l	100%	-0,09
AR	36,78	5	mg/l	103%	0,86
AS			mg/l		
AT	35,76	1,79	mg/l	100%	-0,03
AU	36,0	7,2	mg/l	101%	0,17
AV	36,42	1,88	mg/l	102%	0,54
AW	35,659	8,915	mg/l	100%	-0,12
AX	35,3	4,71	mg/l	99%	-0,44
AY	36,4		mg/l	102%	0,52
AZ	34,8	7,0	mg/l	97%	-0,87
BA	34,5	5,1	mg/l	96%	-1,13
BB			mg/l		
BC			mg/l		

	All results	Outliers excl.	Unit
Mean ± CI(99%)	35,9 ± 0,4	35,9 ± 0,4	mg/l
Recov. ± CI(99%)	100,2 ± 1,1	100,2 ± 1,1	%
SD between labs	0,9	0,9	mg/l
RSD between labs	2,6	2,6	%
n for calculation	42	42	



Sample N168A

Parameter Magnesium

Target value ± U (k=2) 18,4 mg/l ± 0,3 mg/l

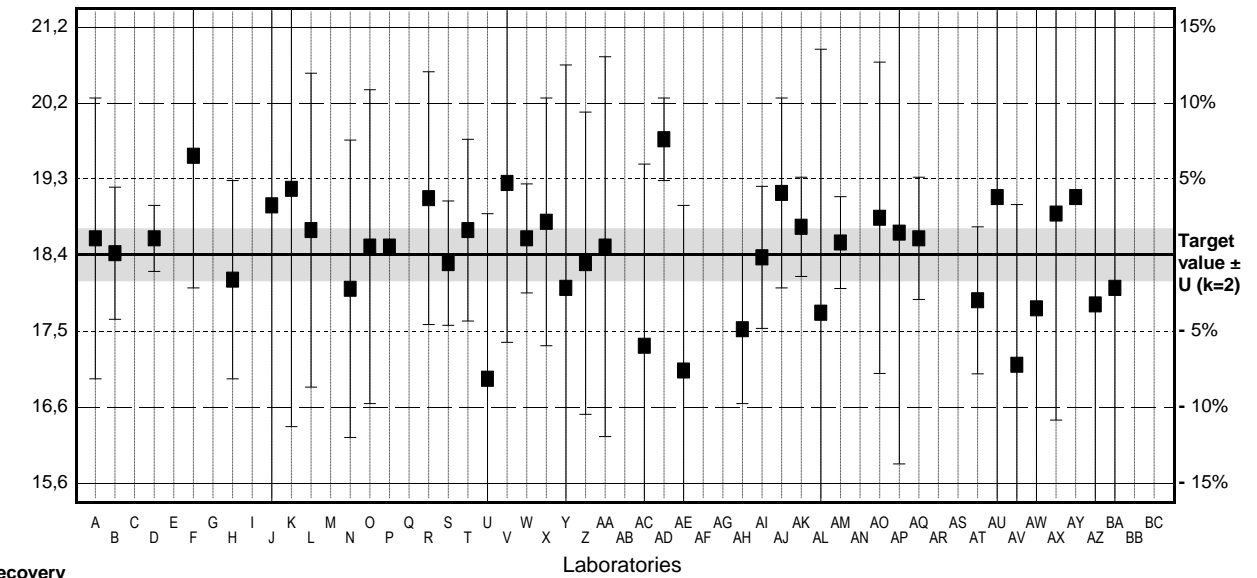
IFA result ± U (k=2) 18,7 mg/l ± 1,0 mg/l

Stability test mg/l

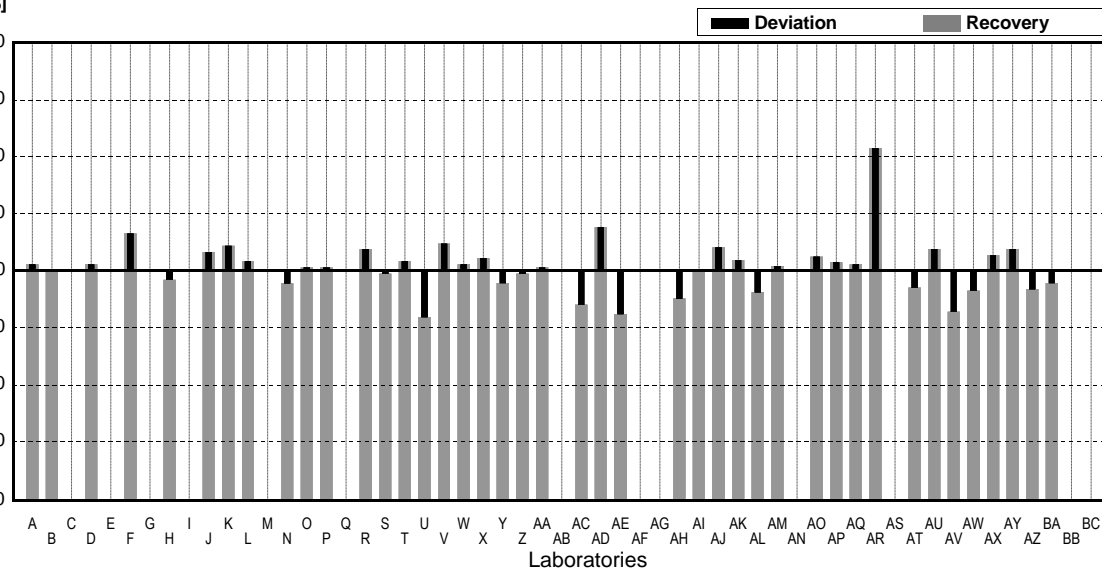
Lab Code	Result	±	Unit	Recovery	z-Score
A	18,6	1,7	mg/l	101%	0,31
B	18,42	0,80	mg/l	100%	0,03
C			mg/l		
D	18,6	0,4	mg/l	101%	0,31
E			mg/l		
F	19,6	1,6	mg/l	107%	1,86
G			mg/l		
H	18,1	1,2	mg/l	98%	-0,47
I			mg/l		
J	19,0	3,8	mg/l	103%	0,93
K	19,2	2,88	mg/l	104%	1,24
L	18,7	1,9	mg/l	102%	0,47
M			mg/l		
N	17,99	1,8	mg/l	98%	-0,64
O	18,5	1,9	mg/l	101%	0,16
P	18,5		mg/l	101%	0,16
Q			mg/l		
R	19,087	1,53	mg/l	104%	1,07
S	18,3	0,753	mg/l	99%	-0,16
T	18,7	1,1	mg/l	102%	0,47
U	16,9	2,0	mg/l	92%	-2,33
V	19,271	1,93	mg/l	105%	1,35
W	18,6	0,66	mg/l	101%	0,31
X	18,8	1,5	mg/l	102%	0,62
Y	18,0	2,7	mg/l	98%	-0,62
Z	18,3	1,83	mg/l	99%	-0,16
AA	18,5	2,3	mg/l	101%	0,16
AB			mg/l		
AC	17,3	2,2	mg/l	94%	-1,71
AD	19,8	0,5	mg/l	108%	2,17
AE	17,0	2,0	mg/l	92%	-2,17
AF			mg/l		
AG			mg/l		
AH	17,5	0,9	mg/l	95%	-1,40
AI	18,37	0,86	mg/l	100%	-0,05
AJ	19,15	1,15	mg/l	104%	1,16
AK	18,74	0,6	mg/l	102%	0,53
AL	17,7	3,19	mg/l	96%	-1,09
AM	18,55	0,556	mg/l	101%	0,23
AN			mg/l		
AQ	18,85	1,885	mg/l	102%	0,70
AP	18,67	2,80	mg/l	101%	0,42
AQ	18,60	0,74	mg/l	101%	0,31
AR	22,35 *	2,5	mg/l	121%	6,13
AS			mg/l		
AT	17,85	0,89	mg/l	97%	-0,85
AU	19,1	3,8	mg/l	104%	1,09
AV	17,07	1,94	mg/l	93%	-2,07
AW	17,753	4,438	mg/l	96%	-1,00
AX	18,9	2,5	mg/l	103%	0,78
AY	19,10		mg/l	104%	1,09
AZ	17,8	3,6	mg/l	97%	-0,93
BA	18,0	3,6	mg/l	98%	-0,62
BB			mg/l		
BC			mg/l		

	All results	Outliers excl.	Unit
Mean ± CI(99%)	18,5 ± 0,4	18,4 ± 0,3	mg/l
Recov. ± CI(99%)	100,6 ± 2,0	100,1 ± 1,6	%
SD between labs	0,9	0,7	mg/l
RSD between labs	4,9	3,7	%
n for calculation	42	41	

Result [mg/l]



Recovery [%]



Sample N168B

Parameter Magnesium

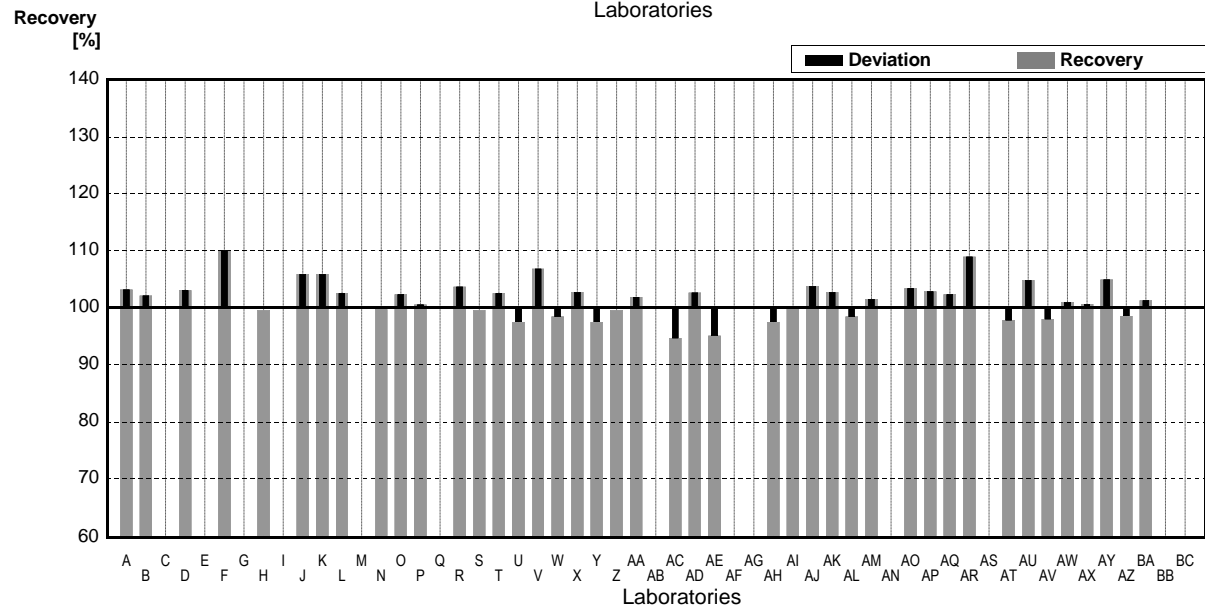
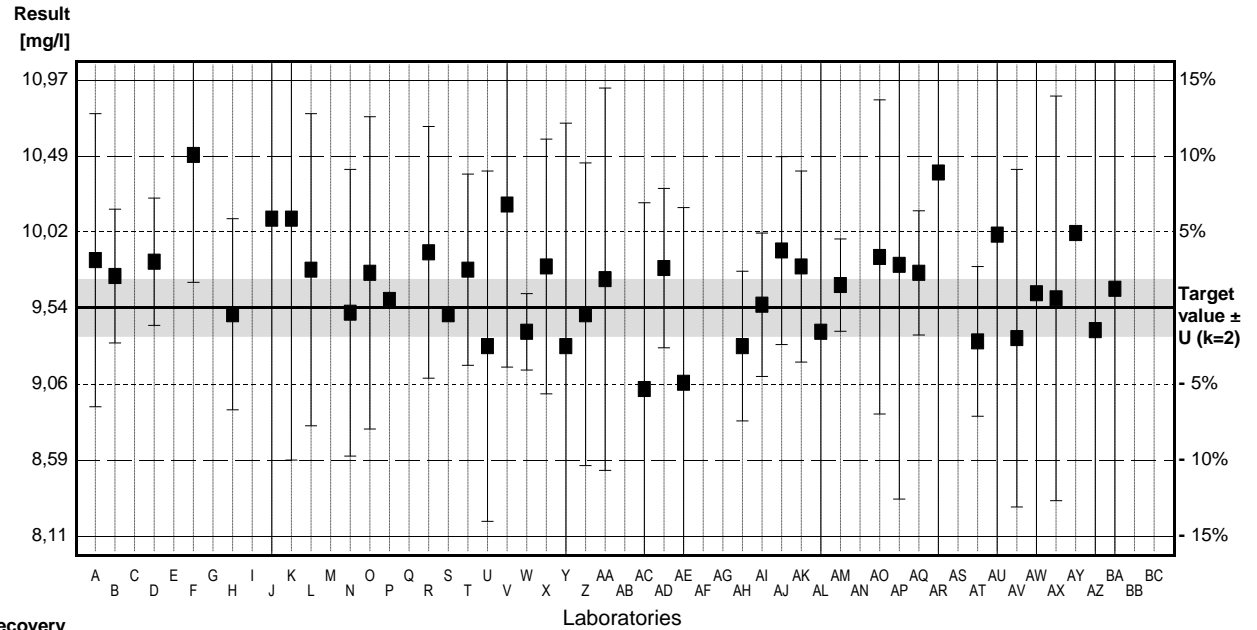
Target value ± U (k=2) 9,54 mg/l ± 0,18 mg/l

IFA result ± U (k=2) 9,8 mg/l ± 0,5 mg/l

Stability test mg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A	9,84	0,92	mg/l	103%	0,90
B	9,74	0,42	mg/l	102%	0,60
C			mg/l		
D	9,83	0,4	mg/l	103%	0,87
E			mg/l		
F	10,5	0,8	mg/l	110%	2,88
G			mg/l		
H	9,5	0,6	mg/l	100%	-0,12
I			mg/l		
J	10,1	2,0	mg/l	106%	1,68
K	10,1	1,515	mg/l	106%	1,68
L	9,78	0,98	mg/l	103%	0,72
M			mg/l		
N	9,51	0,9	mg/l	100%	-0,09
O	9,76	0,98	mg/l	102%	0,66
P	9,59		mg/l	101%	0,15
Q			mg/l		
R	9,889	0,79	mg/l	104%	1,05
S	9,50	0,0383	mg/l	100%	-0,12
T	9,78	0,60	mg/l	103%	0,72
U	9,3	1,1	mg/l	97%	-0,72
V	10,189	1,02	mg/l	107%	1,94
W	9,39	0,24	mg/l	98%	-0,45
X	9,8	0,8	mg/l	103%	0,78
Y	9,3	1,4	mg/l	97%	-0,72
Z	9,50	0,950	mg/l	100%	-0,12
AA	9,72	1,2	mg/l	102%	0,54
AB			mg/l		
AC	9,03	1,17	mg/l	95%	-1,53
AD	9,79	0,5	mg/l	103%	0,75
AE	9,07	1,1	mg/l	95%	-1,41
AF			mg/l		
AG			mg/l		
AH	9,30	0,47	mg/l	97%	-0,72
AI	9,56	0,45	mg/l	100%	0,06
AJ	9,90	0,59	mg/l	104%	1,08
AK	9,80	0,6	mg/l	103%	0,78
AL	9,39	1,69	mg/l	98%	-0,45
AM	9,683	0,290	mg/l	101%	0,43
AN			mg/l		
AQ	9,86	0,986	mg/l	103%	0,96
AP	9,81	1,47	mg/l	103%	0,81
AQ	9,76	0,39	mg/l	102%	0,66
AR	10,39	2,5	mg/l	109%	2,55
AS			mg/l		
AT	9,33	0,47	mg/l	98%	-0,63
AU	10,0	2,0	mg/l	105%	1,38
AV	9,35	1,06	mg/l	98%	-0,57
AW	9,632	2,408	mg/l	101%	0,28
AX	9,6	1,27	mg/l	101%	0,18
AY	10,01		mg/l	105%	1,41
AZ	9,40	1,88	mg/l	99%	-0,42
BA	9,66	1,93	mg/l	101%	0,36
BB			mg/l		
BC			mg/l		

	All results	Outliers excl.	Unit
Mean ± CI(99%)	9,69 ± 0,13	9,69 ± 0,13	mg/l
Recov. ± CI(99%)	101,6 ± 1,4	101,6 ± 1,4	%
SD between labs	0,32	0,32	mg/l
RSD between labs	3,3	3,3	%
n for calculation	42	42	



Sample N168A

Parameter Sodium

Target value ± U (k=2) 18,14 mg/l ± 0,13 mg/l

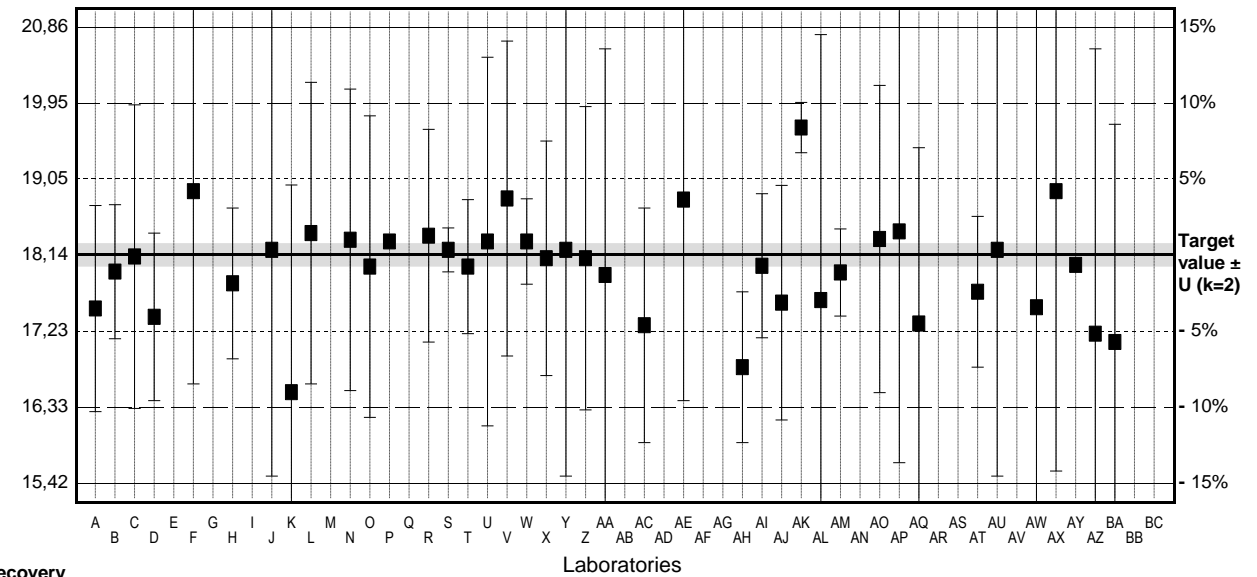
IFA result ± U (k=2) 18,1 mg/l ± 1,1 mg/l

Stability test mg/l

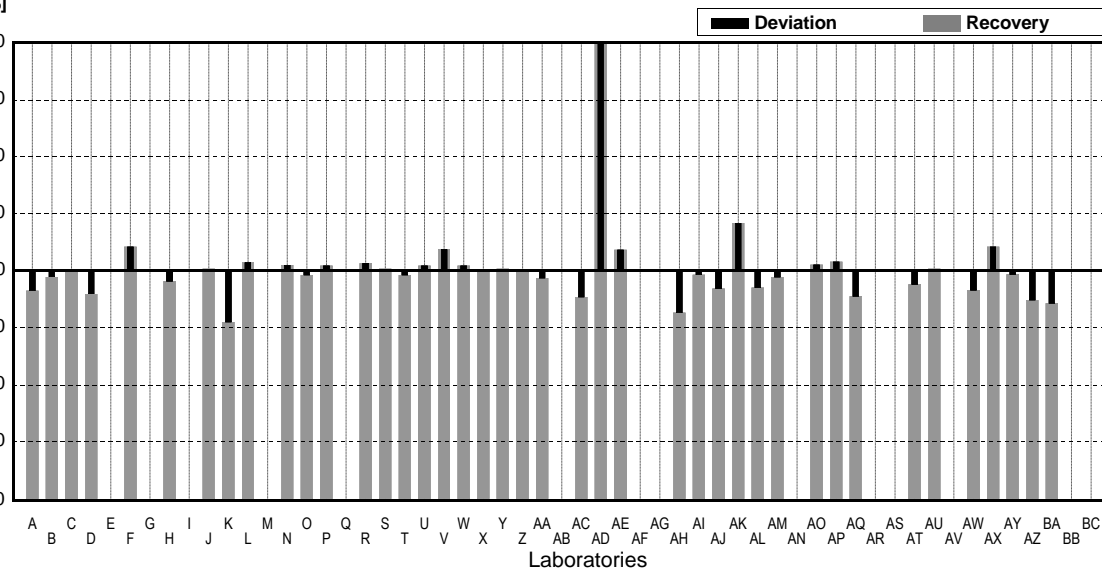
Lab Code	Result	±	Unit	Recovery	z-Score
A	17,5	1,23	mg/l	96%	-1,10
B	17,94	0,80	mg/l	99%	-0,34
C	18,12	1,812	mg/l	100%	-0,03
D	17,4	1	mg/l	96%	-1,27
E			mg/l		
F	18,9	2,3	mg/l	104%	1,31
G			mg/l		
H	17,8	0,9	mg/l	98%	-0,59
I			mg/l		
J	18,2	2,7	mg/l	100%	0,10
K	16,5 *	2,475	mg/l	91%	-2,83
L	18,4	1,8	mg/l	101%	0,45
M			mg/l		
N	18,32	1,8	mg/l	101%	0,31
O	18,0	1,8	mg/l	99%	-0,24
P	18,3		mg/l	101%	0,28
Q			mg/l		
R	18,369	1,27	mg/l	101%	0,39
S	18,2	0,262	mg/l	100%	0,10
T	18,0	0,8	mg/l	99%	-0,24
U	18,3	2,2	mg/l	101%	0,28
V	18,813	1,88	mg/l	104%	1,16
W	18,3	0,51	mg/l	101%	0,28
X	18,1	1,4	mg/l	100%	-0,07
Y	18,2	2,7	mg/l	100%	0,10
Z	18,1	1,81	mg/l	100%	-0,07
AA	17,9	2,7	mg/l	99%	-0,41
AB			mg/l		
AC	17,3	1,4	mg/l	95%	-1,45
AD	41,1 *	0,5	mg/l	227%	39,55
AE	18,8	2,4	mg/l	104%	1,14
AF			mg/l		
AG			mg/l		
AH	16,8	0,9	mg/l	93%	-2,31
AI	18,01	0,86	mg/l	99%	-0,22
AJ	17,57	1,4	mg/l	97%	-0,98
AK	19,66 *	0,3	mg/l	108%	2,62
AL	17,6	3,17	mg/l	97%	-0,93
AM	17,93	0,520	mg/l	99%	-0,36
AN			mg/l		
AQ	18,33	1,833	mg/l	101%	0,33
AP	18,42	2,76	mg/l	102%	0,48
AQ	17,32	2,10	mg/l	95%	-1,41
AR			mg/l		
AS			mg/l		
AT	17,7	0,9	mg/l	98%	-0,76
AU	18,2	2,7	mg/l	100%	0,10
AV			mg/l		
AW	17,515	4,380	mg/l	97%	-1,08
AX	18,9	3,34	mg/l	104%	1,31
AY	18,02		mg/l	99%	-0,21
AZ	17,2	3,4	mg/l	95%	-1,62
BA	17,1	2,6	mg/l	94%	-1,79
BB			mg/l		
BC			mg/l		

	All results	Outliers excl.	Unit
Mean ± CI(99%)	18,56 ± 1,54	18,00 ± 0,22	mg/l
Recov. ± CI(99%)	102,3 ± 8,5	99,2 ± 1,2	%
SD between labs	3,66	0,50	mg/l
RSD between labs	19,7	2,8	%
n for calculation	41	38	

Result [mg/l]



Recovery [%]



Sample N168B

Parameter Sodium

Target value ± U (k=2) 29,2 mg/l ± 0,3 mg/l

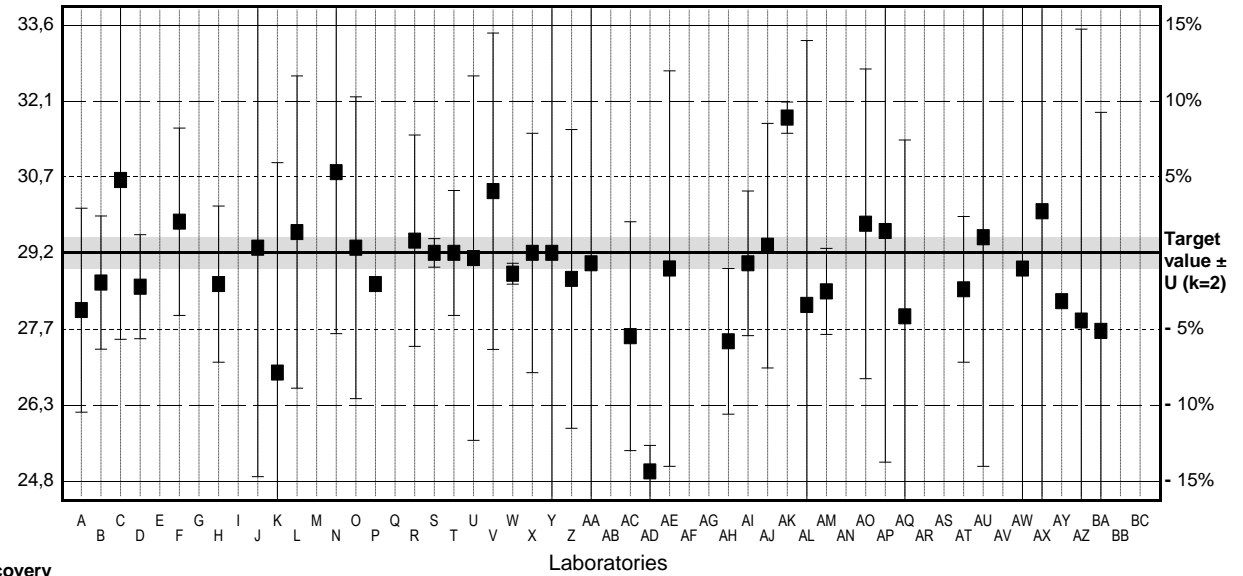
IFA result ± U (k=2) 29,2 mg/l ± 1,4 mg/l

Stability test mg/l

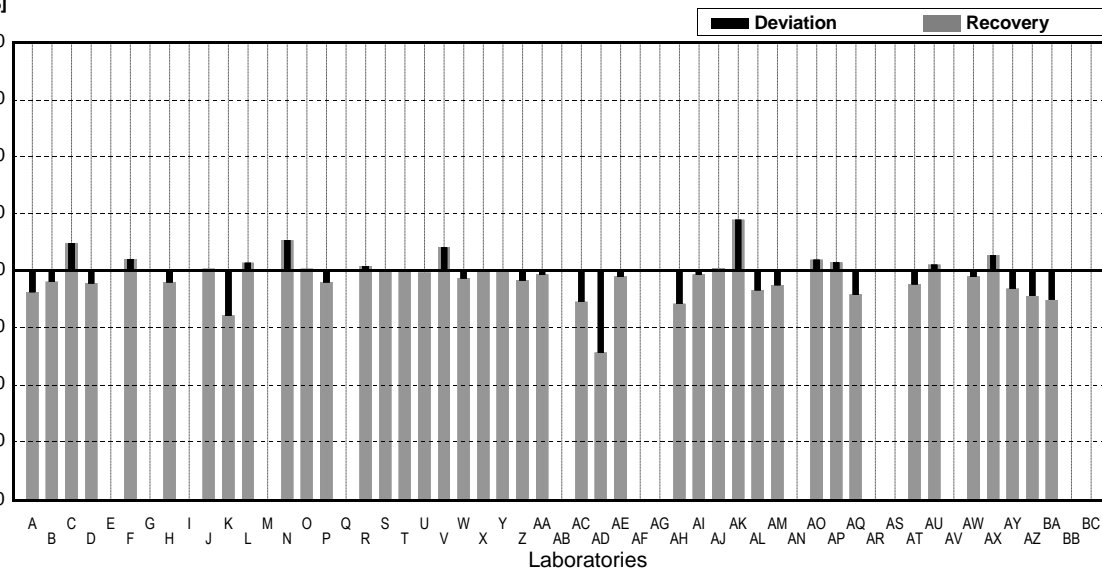
Lab Code	Result	±	Unit	Recovery	z-Score
A	28.1	1,96	mg/l	96%	-1.18
B	28.63	1,28	mg/l	98%	-0.61
C	30.60	3,060	mg/l	105%	1.50
D	28.55	1	mg/l	98%	-0.70
E			mg/l		
F	29.8	1.8	mg/l	102%	0.64
G			mg/l		
H	28.6	1.5	mg/l	98%	-0.64
I			mg/l		
J	29.3	4.4	mg/l	100%	0.11
K	26.9	4,035	mg/l	92%	-2.46
L	29.6	3.0	mg/l	101%	0.43
M			mg/l		
N	30.75	3.1	mg/l	105%	1.66
O	29.3	2.9	mg/l	100%	0.11
P	28.6		mg/l	98%	-0.64
Q			mg/l		
R	29.435	2,03	mg/l	101%	0.25
S	29.2	0,274	mg/l	100%	0.00
T	29.2	1.2	mg/l	100%	0.00
U	29.1	3.5	mg/l	100%	-0.11
V	30.386	3,04	mg/l	104%	1.27
W	28.8	0.2	mg/l	99%	-0.43
X	29.2	2.3	mg/l	100%	0.00
Y	29.2	4.4	mg/l	100%	0.00
Z	28.7	2,87	mg/l	98%	-0.54
AA	29.0	5	mg/l	99%	-0.21
AB			mg/l		
AC	27.6	2.2	mg/l	95%	-1.71
AD	25.0 *	0.5	mg/l	86%	-4.49
AE	28.9	3.8	mg/l	99%	-0.32
AF			mg/l		
AG			mg/l		
AH	27.5	1.4	mg/l	94%	-1.82
AI	29.00	1,39	mg/l	99%	-0.21
AJ	29.34	2,35	mg/l	100%	0.15
AK	31.80 *	0.3	mg/l	109%	2.78
AL	28.2	5.08	mg/l	97%	-1.07
AM	28.46	0,826	mg/l	97%	-0.79
AN			mg/l		
AQ	29.76	2,976	mg/l	102%	0.60
AP	29.62	4.44	mg/l	101%	0.45
AQ	27.98	3.39	mg/l	96%	-1.31
AR			mg/l		
AS			mg/l		
AT	28.5	1.4	mg/l	98%	-0.75
AU	29.5	4.4	mg/l	101%	0.32
AV			mg/l		
AW	28.899	7,225	mg/l	99%	-0.32
AX	30.0	5.31	mg/l	103%	0.86
AY	28.27		mg/l	97%	-1.00
AZ	27.9	5.6	mg/l	96%	-1.39
BA	27.7	4.2	mg/l	95%	-1.61
BB			mg/l		
BC			mg/l		

	All results	Outliers excl.	Unit
Mean ± CI(99%)	28,9 ± 0,5	28,9 ± 0,4	mg/l
Recov. ± CI(99%)	99,0 ± 1,6	99,1 ± 1,3	%
SD between labs	1,1	0,8	mg/l
RSD between labs	3,9	2,9	%
n for calculation	41	39	

Result [mg/l]



Recovery [%]



Sample N168A

Parameter Potassium

Target value ± U (k=2) 8,07 mg/l ± 0,05 mg/l

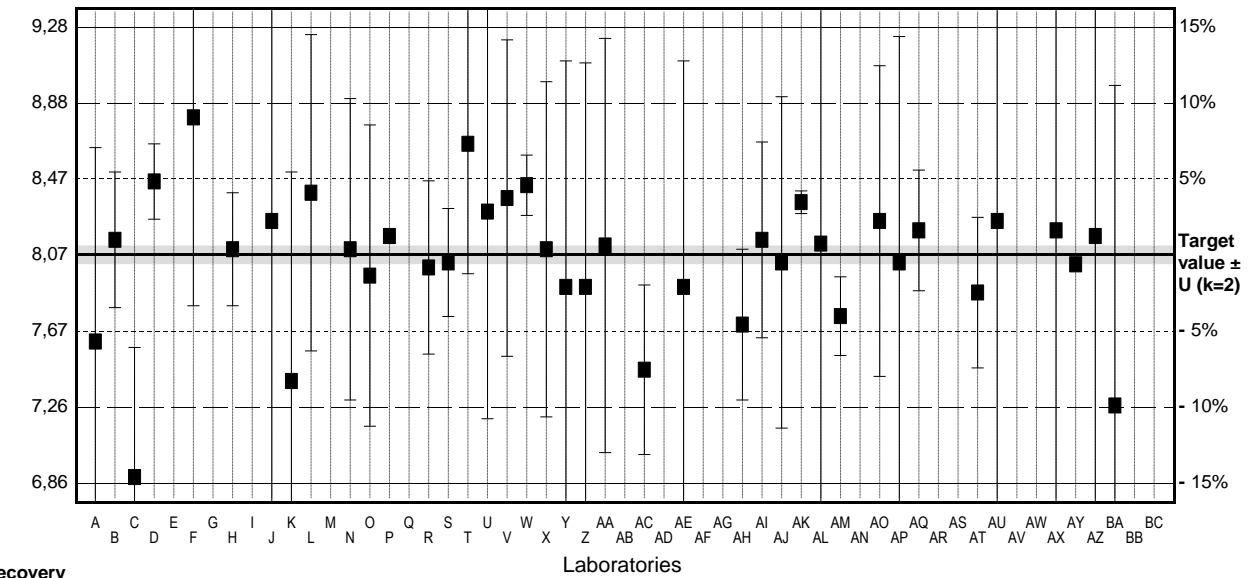
IFA result ± U (k=2) 7,7 mg/l ± 0,4 mg/l

Stability test mg/l

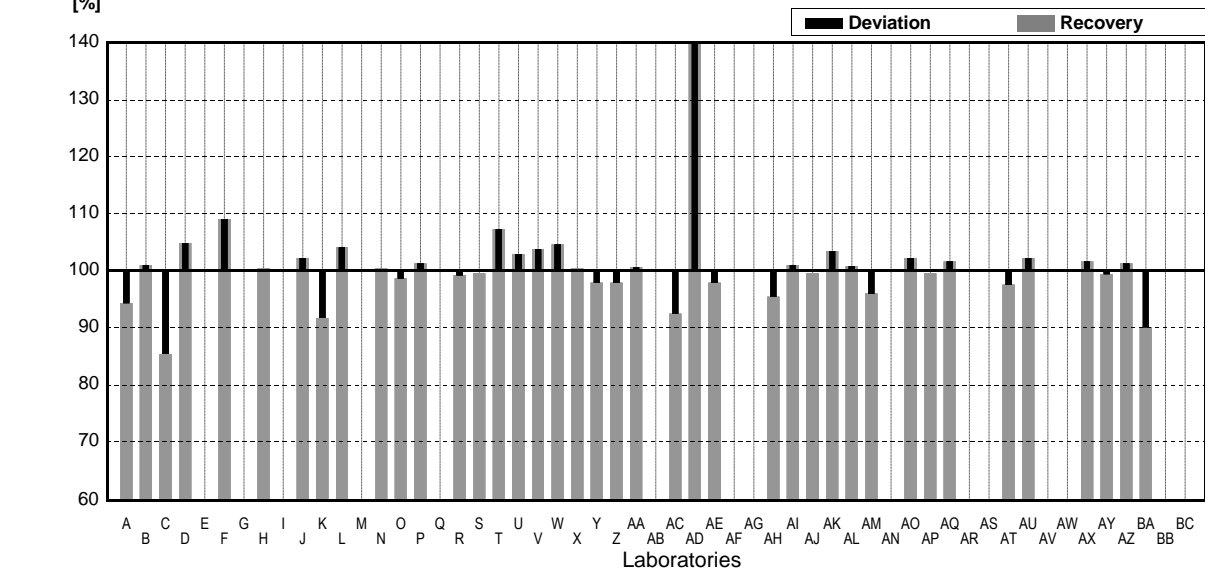
Lab Code	Result	±	Unit	Recovery	z-Score
A	7.61	1.03	mg/l	94%	-1.33
B	8.15	0.36	mg/l	101%	0.23
C	6.89 *	0.689	mg/l	85%	-3.40
D	8.46	0.2	mg/l	105%	1.12
E			mg/l		
F	8.8	1.0	mg/l	109%	2.10
G			mg/l		
H	8.1	0.3	mg/l	100%	0.09
I			mg/l		
J	8.25	1.7	mg/l	102%	0.52
K	7.4	1.11	mg/l	92%	-1.93
L	8.40	0.84	mg/l	104%	0.95
M			mg/l		
N	8.10	0.8	mg/l	100%	0.09
O	7.96	0.80	mg/l	99%	-0.32
P	8.17		mg/l	101%	0.29
Q			mg/l		
R	8.003	0.46	mg/l	99%	-0.19
S	8.03	0.287	mg/l	100%	-0.12
T	8.66	0.69	mg/l	107%	1.70
U	8.3	1.1	mg/l	103%	0.66
V	8.372	0.84	mg/l	104%	0.87
W	8.44	0.16	mg/l	105%	1.07
X	8.1	0.89	mg/l	100%	0.09
Y	7.9	1.2	mg/l	98%	-0.49
Z	7.9	1.19	mg/l	98%	-0.49
AA	8.12	1.1	mg/l	101%	0.14
AB			mg/l		
AC	7.46	0.45	mg/l	92%	-1.76
AD	16.7 *	0.5	mg/l	207%	24.87
AE	7.90	1.2	mg/l	98%	-0.49
AF			mg/l		
AG			mg/l		
AH	7.7	0.4	mg/l	95%	-1.07
AI	8.15	0.52	mg/l	101%	0.23
AJ	8.03	0.88	mg/l	100%	-0.12
AK	8.35	0.06	mg/l	103%	0.81
AL	8.13	1.46	mg/l	101%	0.17
AM	7.745	0.209	mg/l	96%	-0.94
AN			mg/l		
AQ	8.25	0.825	mg/l	102%	0.52
AP	8.03	1.20	mg/l	100%	-0.12
AQ	8.20	0.32	mg/l	102%	0.37
AR			mg/l		
AS			mg/l		
AT	7.87	0.4	mg/l	98%	-0.58
AU	8.25	1.7	mg/l	102%	0.52
AV			mg/l		
AW			mg/l		
AX	8.2	1.35	mg/l	102%	0.37
AY	8.02		mg/l	99%	-0.14
AZ	8.17	1.63	mg/l	101%	0.29
BA	7.27 *	1.7	mg/l	90%	-2.31
BB			mg/l		
BC			mg/l		

	All results	Outliers excl.	Unit
Mean ± CI(99%)	8,26 ± 0,61	8,10 ± 0,13	mg/l
Recov. ± CI(99%)	102,4 ± 7,5	100,4 ± 1,6	%
SD between labs	1,42	0,29	mg/l
RSD between labs	17,1	3,6	%
n for calculation	40	37	

Result [mg/l]



Recovery [%]



Sample N168B

Parameter Potassium

Target value ± U (k=2) 5,76 mg/l ± 0,03 mg/l

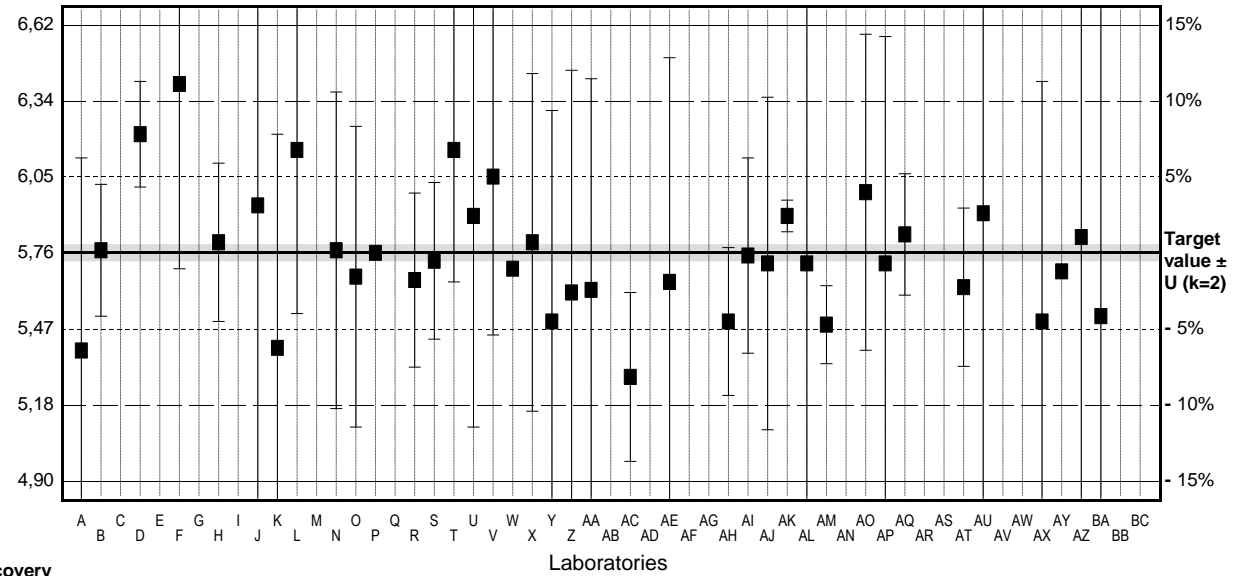
IFA result ± U (k=2) 5,5 mg/l ± 0,3 mg/l

Stability test mg/l

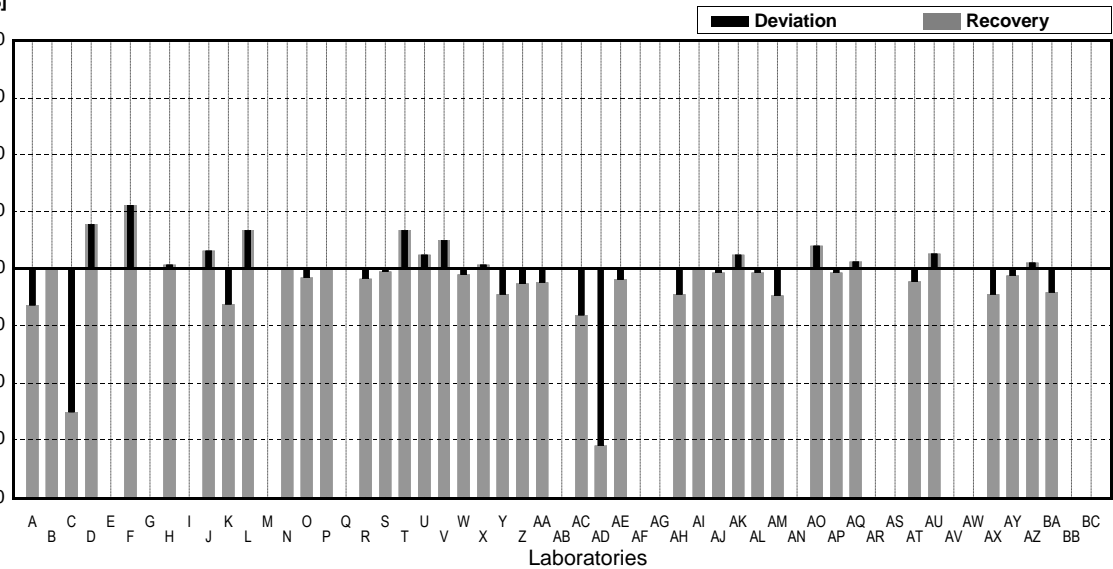
Lab Code	Result	±	Unit	Recovery	z-Score
A	5,39	0,73	mg/l	94%	-1,49
B	5,77	0,25	mg/l	100%	0,04
C	4,31 *	0,431	mg/l	75%	-5,85
D	6,21	0,2	mg/l	108%	1,82
E			mg/l		
F	6,4 *	0,7	mg/l	111%	2,58
G			mg/l		
H	5,8	0,3	mg/l	101%	0,16
I			mg/l		
J	5,94	1,2	mg/l	103%	0,73
K	5,4	0,81	mg/l	94%	-1,45
L	6,15	0,62	mg/l	107%	1,57
M			mg/l		
N	5,77	0,6	mg/l	100%	0,04
O	5,67	0,57	mg/l	98%	-0,36
P	5,76		mg/l	100%	0,00
Q			mg/l		
R	5,657	0,33	mg/l	98%	-0,42
S	5,73	0,297	mg/l	99%	-0,12
T	6,15	0,50	mg/l	107%	1,57
U	5,9	0,8	mg/l	102%	0,57
V	6,049	0,6	mg/l	105%	1,17
W	5,70	0,006	mg/l	99%	-0,24
X	5,8	0,64	mg/l	101%	0,16
Y	5,5	0,8	mg/l	95%	-1,05
Z	5,61	0,842	mg/l	97%	-0,61
AA	5,62	0,8	mg/l	98%	-0,57
AB			mg/l		
AC	5,29	0,32	mg/l	92%	-1,90
AD	3,97 *	0,5	mg/l	69%	-7,23
AE	5,65	0,85	mg/l	98%	-0,44
AF			mg/l		
AG			mg/l		
AH	5,50	0,28	mg/l	95%	-1,05
AI	5,75	0,37	mg/l	100%	-0,04
AJ	5,72	0,63	mg/l	99%	-0,16
AK	5,90	0,06	mg/l	102%	0,57
AL	5,72	1,03	mg/l	99%	-0,16
AM	5,488	0,148	mg/l	95%	-1,10
AN			mg/l		
AQ	5,99	0,599	mg/l	104%	0,93
AP	5,72	0,86	mg/l	99%	-0,16
AQ	5,83	0,23	mg/l	101%	0,28
AR			mg/l		
AS			mg/l		
AT	5,63	0,3	mg/l	98%	-0,52
AU	5,91	1,2	mg/l	103%	0,61
AV			mg/l		
AW			mg/l		
AX	5,5	0,91	mg/l	95%	-1,05
AY	5,69		mg/l	99%	-0,28
AZ	5,82	1,16	mg/l	101%	0,24
BA	5,52	1,3	mg/l	96%	-0,97
BB			mg/l		
BC			mg/l		

	All results	Outliers excl.	Unit
Mean ± CI(99%)	5,67 ± 0,18	5,74 ± 0,10	mg/l
Recov. ± CI(99%)	98,5 ± 3,2	99,6 ± 1,7	%
SD between labs	0,43	0,21	mg/l
RSD between labs	7,5	3,7	%
n for calculation	40	37	

Result [mg/l]



Recovery [%]



Sample N168A

Parameter Nitrate

Target value ± U (k=2) 43,8 mg/l ± 1,1 mg/l

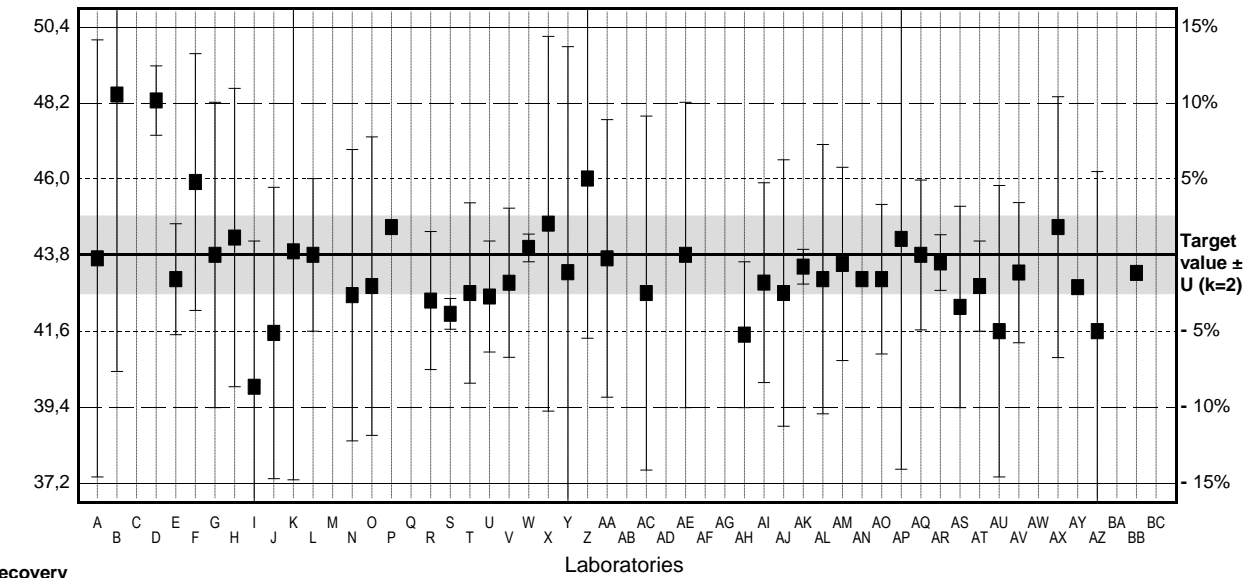
IFA result ± U (k=2) 44,1 mg/l ± 2,4 mg/l

Stability test mg/l

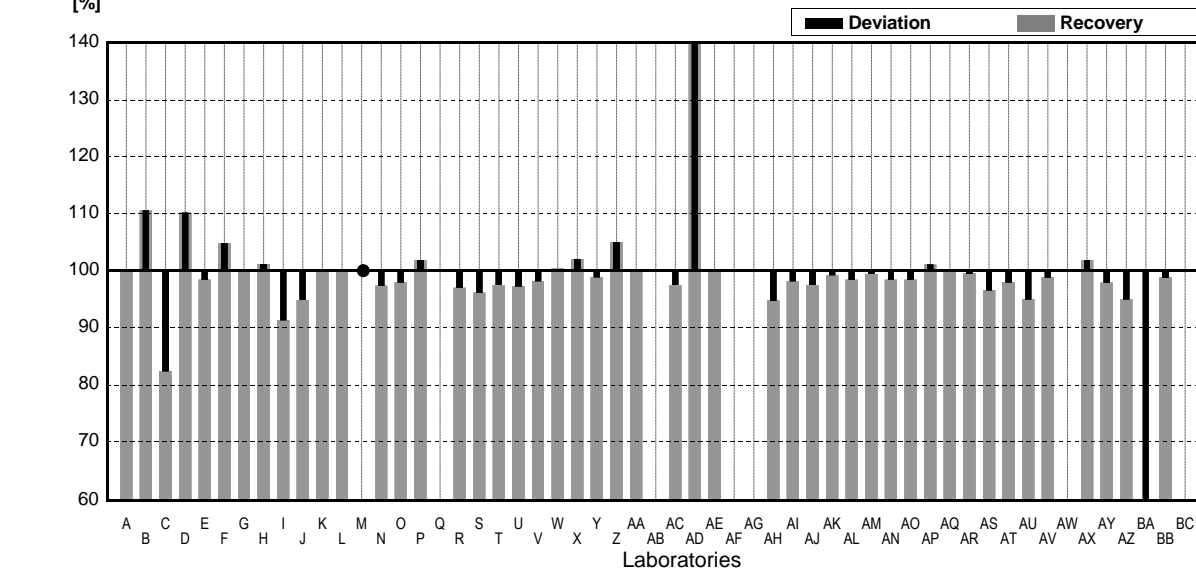
Lab Code	Result	±	Unit	Recovery	z-Score
A	43.7	6.3	mg/l	100%	-0.07
B	48.42 *	7.98	mg/l	111%	3.40
C	36.07 *	7.214	mg/l	82%	-5.69
D	48.25 *	1	mg/l	110%	3.28
E	43.1	1.6	mg/l	98%	-0.52
F	45.9	3.7	mg/l	105%	1.55
G	43.8	4.4	mg/l	100%	0.00
H	44.3	4.3	mg/l	101%	0.37
I	40.0 *	4.2	mg/l	91%	-2.80
J	41.55	4.2	mg/l	95%	-1.66
K	43.9	6.585	mg/l	100%	0.07
L	43.8	2.2	mg/l	100%	0.00
M	>30		mg/l	*	
N	42.64	4.2	mg/l	97%	-0.85
O	42.9	4.3	mg/l	98%	-0.66
P	44.6		mg/l	102%	0.59
Q			mg/l		
R	42.484	1.99	mg/l	97%	-0.97
S	42.1	0.442	mg/l	96%	-1.25
T	42.7	2.6	mg/l	97%	-0.81
U	42.6	1.6	mg/l	97%	-0.88
V	42.996	2.15	mg/l	98%	-0.59
W	44.0	0.40	mg/l	100%	0.15
X	44.7	5.4	mg/l	102%	0.66
Y	43.3	6.5	mg/l	99%	-0.37
Z	46.0 *	4.60	mg/l	105%	1.62
AA	43.7	4	mg/l	100%	-0.07
AB			mg/l		
AC	42.7	5.1	mg/l	97%	-0.81
AD	99 *	0.2	mg/l	226%	40.65
AE	43.8	4.4	mg/l	100%	0.00
AF			mg/l		
AG			mg/l		
AH	41.5	2.1	mg/l	95%	-1.69
AI	43.00	2.88	mg/l	98%	-0.59
AJ	42.7	3.84	mg/l	97%	-0.81
AK	43.46	0.5	mg/l	99%	-0.25
AL	43.1	3.88	mg/l	98%	-0.52
AM	43.54	2.786	mg/l	99%	-0.19
AN	43.1		mg/l	98%	-0.52
AQ	43.099	2.1550	mg/l	98%	-0.52
AP	44.26	6.64	mg/l	101%	0.34
AQ	43.8	2.15978	mg/l	100%	0.00
AR	43.58	0.8	mg/l	99%	-0.16
AS	42.3	2.90	mg/l	97%	-1.10
AT	42.9	1.3	mg/l	98%	-0.66
AU	41.6	4.2	mg/l	95%	-1.62
AV	43.29	2.02	mg/l	99%	-0.38
AW			mg/l		
AX	44.6	3.76	mg/l	102%	0.59
AY	42.87		mg/l	98%	-0.68
AZ	41.6	4.6	mg/l	95%	-1.62
BA	9.72 *	0.97	mg/l	22%	-25.10
BB	43.280	0.065	mg/l	99%	-0.38
BC			mg/l		

	All results	Outliers excl.	Unit
Mean ± CI(99%)	43,8 ± 3,7	43,2 ± 0,4	mg/l
Recov. ± CI(99%)	99,9 ± 8,5	98,7 ± 0,9	%
SD between labs	9,6	0,9	mg/l
RSD between labs	22,1	2,1	%
n for calculation	48	41	

Result [mg/l]



Recovery [%]



Sample N168B

Parameter Nitrate

Target value ± U (k=2) 11,0 mg/l ± 0,3 mg/l

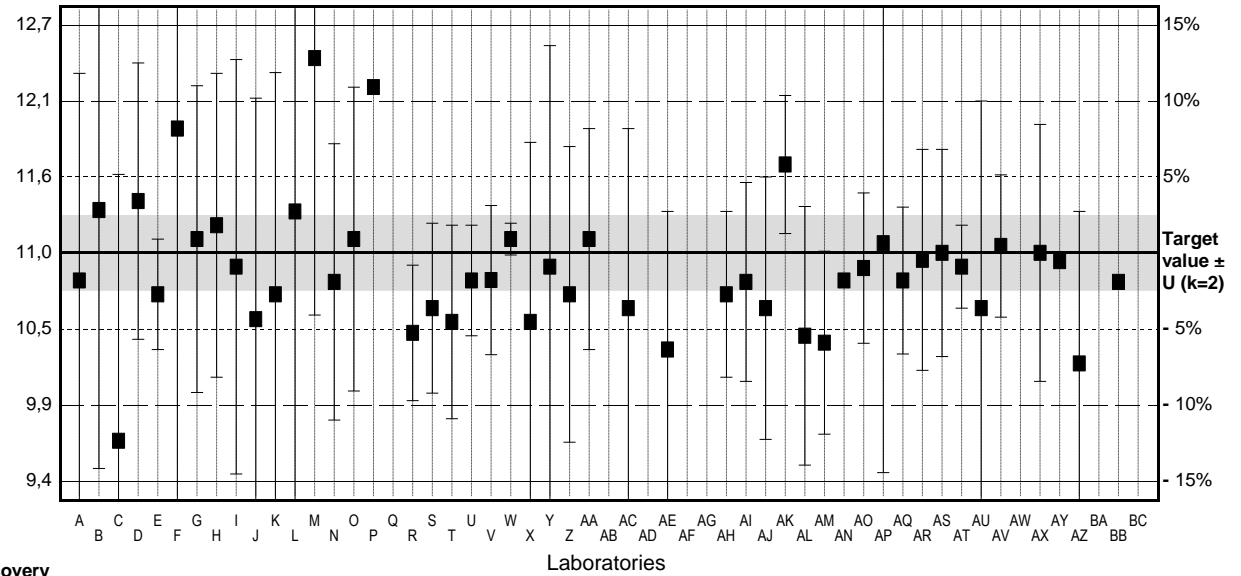
IFA result ± U (k=2) 11,0 mg/l ± 0,6 mg/l

Stability test mg/l

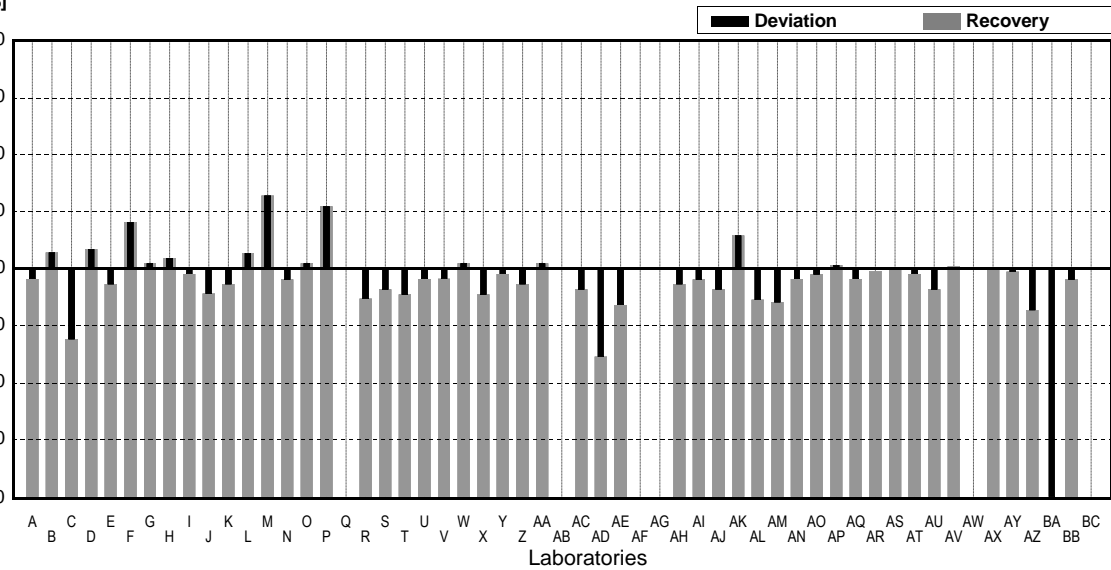
Lab Code	Result	±	Unit	Recovery	z-Score
A	10,8	1,5	mg/l	98%	-0,59
B	11,31	1,87	mg/l	103%	0,91
C	9,64 *	1,928	mg/l	88%	-3,99
D	11,375	1	mg/l	103%	1,10
E	10,7	0,4	mg/l	97%	-0,88
F	11,9	0,6	mg/l	108%	2,64
G	11,1	1,11	mg/l	101%	0,29
H	11,2	1,1	mg/l	102%	0,59
I	10,9	1,5	mg/l	99%	-0,29
J	10,52	1,6	mg/l	96%	-1,41
K	10,7	1,605	mg/l	97%	-0,88
L	11,3	2,1	mg/l	103%	0,88
M	12,41 *	1,86	mg/l	113%	4,13
N	10,79	1,0	mg/l	98%	-0,62
O	11,1	1,1	mg/l	101%	0,29
P	12,2 *		mg/l	111%	3,52
Q			mg/l		
R	10,421	0,49	mg/l	95%	-1,70
S	10,6	0,615	mg/l	96%	-1,17
T	10,5	0,7	mg/l	95%	-1,47
U	10,8	0,4	mg/l	98%	-0,59
V	10,803	0,54	mg/l	98%	-0,58
W	11,1	0,115	mg/l	101%	0,29
X	10,5	1,3	mg/l	95%	-1,47
Y	10,9	1,6	mg/l	99%	-0,29
Z	10,7	1,07	mg/l	97%	-0,88
AA	11,1	0,8	mg/l	101%	0,29
AB			mg/l		
AC	10,6	1,3	mg/l	96%	-1,17
AD	9,3 *	0,2	mg/l	85%	-4,99
AE	10,3	1,0	mg/l	94%	-2,05
AF			mg/l		
AG			mg/l		
AH	10,7	0,6	mg/l	97%	-0,88
AI	10,79	0,72	mg/l	98%	-0,62
AJ	10,6	0,95	mg/l	96%	-1,17
AK	11,64	0,5	mg/l	106%	1,88
AL	10,4	0,936	mg/l	95%	-1,76
AM	10,35	0,662	mg/l	94%	-1,91
AN	10,8		mg/l	98%	-0,59
AQ	10,89	0,5445	mg/l	99%	-0,32
AP	11,07	1,66	mg/l	101%	0,21
AQ	10,8	0,53170	mg/l	98%	-0,59
AR	10,95	0,8	mg/l	100%	-0,15
AS	11,0	0,75	mg/l	100%	0,00
AT	10,9	0,3	mg/l	99%	-0,29
AU	10,6	1,5	mg/l	96%	-1,17
AV	11,05	0,515	mg/l	100%	0,15
AW			mg/l		
AX	11,0	0,93	mg/l	100%	0,00
AY	10,94		mg/l	99%	-0,18
AZ	10,2	1,1	mg/l	93%	-2,35
BA	2,45 *	0,24	mg/l	22%	-25,07
BB	10,790	0,010	mg/l	98%	-0,62
BC			mg/l		

	All results	Outliers excl.	Unit
Mean ± CI(99%)	10,7 ± 0,5	10,9 ± 0,1	mg/l
Recov. ± CI(99%)	97,1 ± 4,6	98,7 ± 1,3	%
SD between labs	1,3	0,3	mg/l
RSD between labs	12,3	3,2	%
n for calculation	49	44	

Result [mg/l]



Recovery [%]



Sample N168A

Parameter Nitrite

Target value ± U (k=2) 0,0448 mg/l ± 0,0004 mg/l

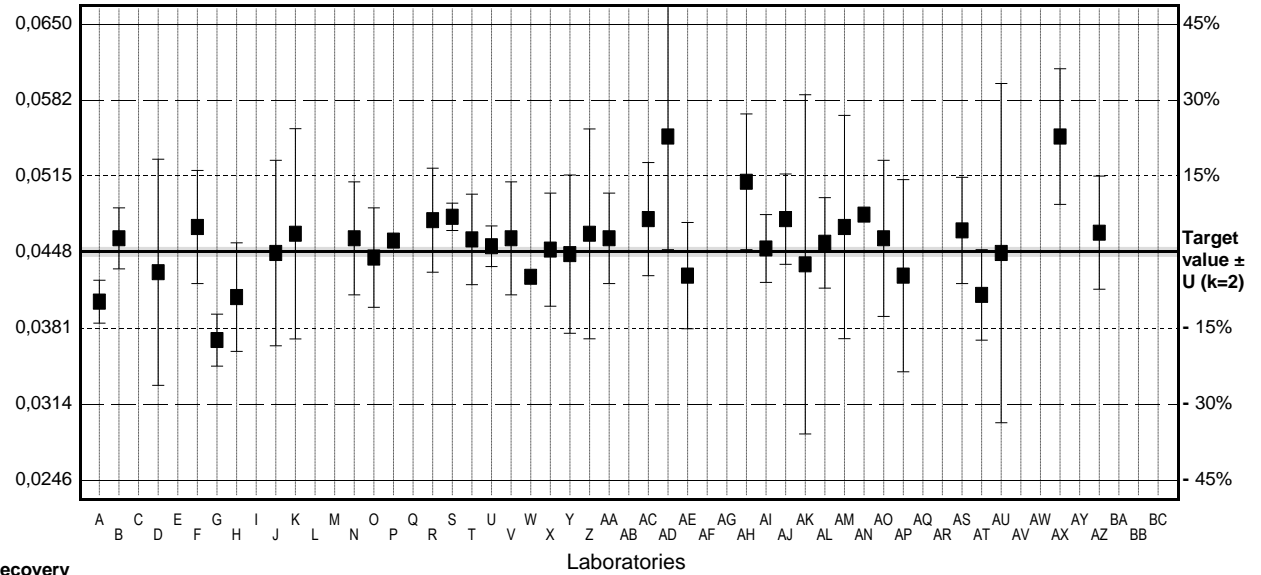
IFA result ± U (k=2) 0,0441 mg/l ± 0,0022 mg/l

Stability test ± U (k=2) 0,0448 mg/l ± 0,0022 mg/l

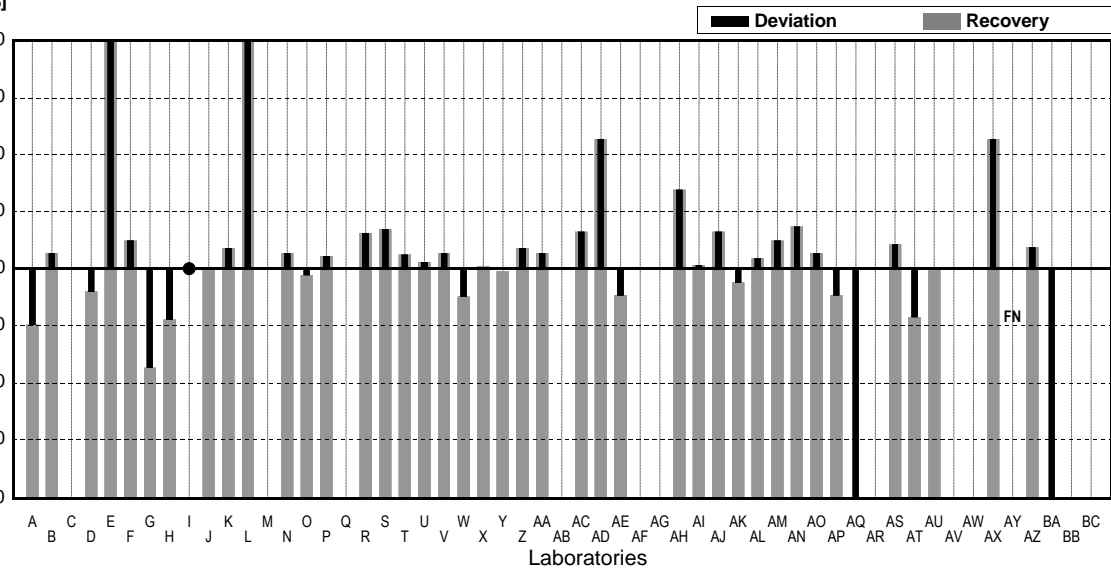
Lab Code	Result	±	Unit	Recovery	z-Score
A	0,0404	0,0019	mg/l	90%	-1.82
B	0,0460	0,0027	mg/l	103%	0,50
C			mg/l		
D	0,0430	0,01	mg/l	96%	-0.74
E	0,068 *	0,001	mg/l	152%	9.59
F	0,0470	0,005	mg/l	105%	0,91
G	0,0370 *	0,0023	mg/l	83%	-3.22
H	0,0408	0,0048	mg/l	91%	-1.65
I	<0.1		mg/l	*	
J	0,0447	0,0082	mg/l	100%	-0.04
K	0,0464	0,0093	mg/l	104%	0,66
L	0,113 *	0,034	mg/l	252%	28.19
M			mg/l		
N	0,0460	0,005	mg/l	103%	0,50
O	0,0443	0,0044	mg/l	99%	-0.21
P	0,0458		mg/l	102%	0,41
Q			mg/l		
R	0,0476	0,0046	mg/l	106%	1,16
S	0,0479	0,00121	mg/l	107%	1,28
T	0,0459	0,004	mg/l	102%	0,45
U	0,0453	0,0018	mg/l	101%	0,21
V	0,0460	0,005	mg/l	103%	0,50
W	0,0426	0,0003	mg/l	95%	-0.91
X	0,0450	0,005	mg/l	100%	0,08
Y	0,0446	0,007	mg/l	100%	-0.08
Z	0,0464	0,00928	mg/l	104%	0,66
AA	0,0460	0,004	mg/l	103%	0,50
AB			mg/l		
AC	0,0477	0,005	mg/l	106%	1,20
AD	0,055 *	0,01	mg/l	123%	4.22
AE	0,0427	0,0047	mg/l	95%	-0.87
AF			mg/l		
AG			mg/l		
AH	0,051	0,006	mg/l	114%	2,56
AI	0,0451	0,003	mg/l	101%	0,12
AJ	0,0477	0,004	mg/l	106%	1,20
AK	0,0437	0,015	mg/l	98%	-0.45
AL	0,0456	0,004	mg/l	102%	0,33
AM	0,0470	0,00987	mg/l	105%	0,91
AN	0,0481		mg/l	107%	1,36
AQ	0,0460	0,0069	mg/l	103%	0,50
AP	0,0427	0,0085	mg/l	95%	-0.87
AQ	0,00451 *	0,00530	mg/l	10%	-16.65
AR			mg/l		
AS	0,0467	0,0047	mg/l	104%	0,79
AT	0,0410	0,004	mg/l	92%	-1.57
AU	0,0447	0,015	mg/l	100%	-0.04
AV			mg/l		
AW			mg/l		
AX	0,055 *	0,006	mg/l	123%	4.22
AY	<0.03		mg/l	FN	
AZ	0,0465	0,005	mg/l	104%	0,70
BA	0,0130 *	0,0013	mg/l	29%	-13.14
BB			mg/l		
BC			mg/l		

	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,0460 ± 0,0059	0,0454 ± 0,0010	mg/l
Recov. ± CI(99%)	102,8 ± 13,2	101,3 ± 2,3	%
SD between labs	0,0142	0,0023	mg/l
RSD between labs	30,7	5,0	%
n for calculation	42	35	

Result [mg/l]



Recovery [%]



Sample N168B

Parameter Nitrite

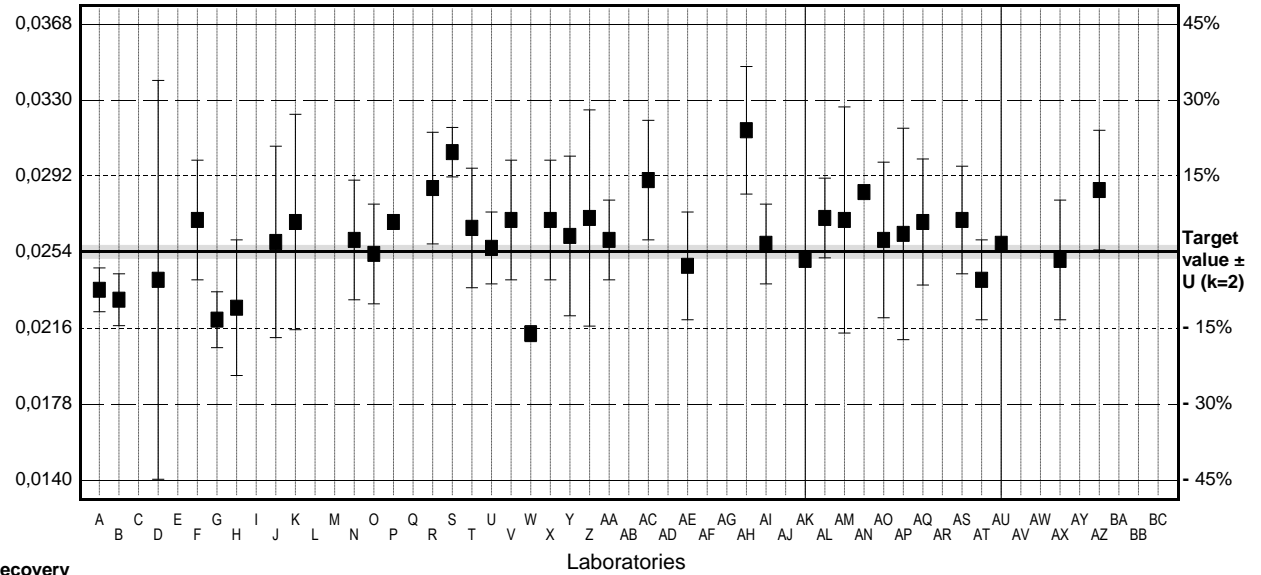
Target value ± U (k=2) 0,0254 mg/l ± 0,0003 mg/l

IFA result ± U (k=2) 0,0247 mg/l ± 0,0012 mg/l

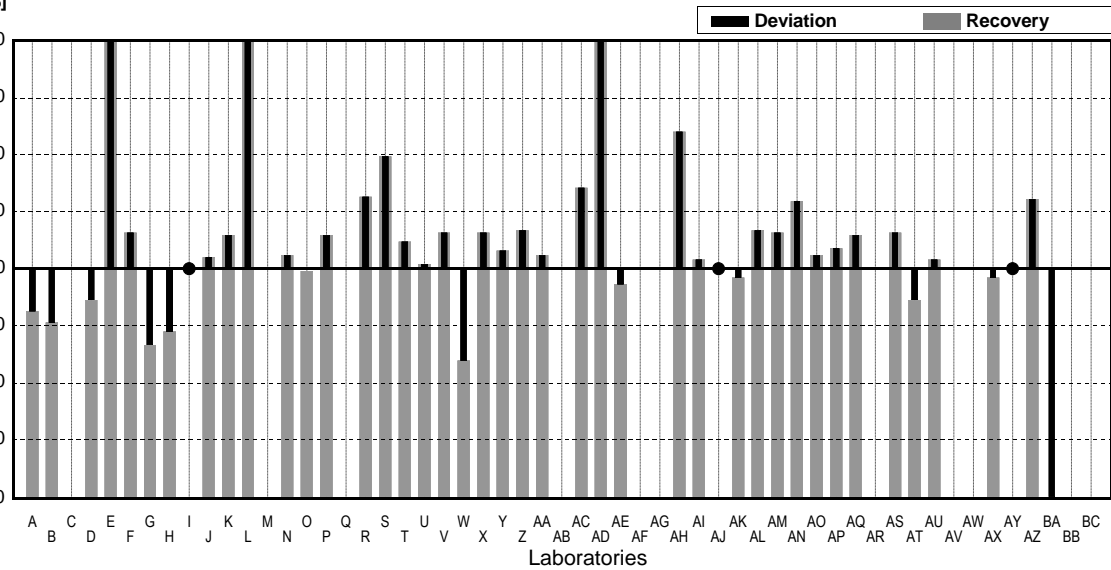
Stability test ± U (k=2) 0,0255 mg/l ± 0,0013 mg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A	0,0235	0,0011	mg/l	93%	-1.39
B	0,0230	0,0013	mg/l	91%	-1.75
C			mg/l		
D	0,0240	0,01	mg/l	94%	-1.02
E	0,052 *	0,001	mg/l	205%	19.39
F	0,0270	0,0030	mg/l	106%	1.17
G	0,0220	0,0014	mg/l	87%	-2.48
H	0,0226	0,0034	mg/l	89%	-2.04
I	<0.1		mg/l	*	
J	0,0259	0,0048	mg/l	102%	0.36
K	0,0269	0,0054	mg/l	106%	1.09
L	0,074 *	0,022	mg/l	291%	35.43
M			mg/l		
N	0,0260	0,003	mg/l	102%	0.44
O	0,0253	0,0025	mg/l	100%	-0.07
P	0,0269		mg/l	106%	1.09
Q			mg/l		
R	0,0286	0,0028	mg/l	113%	2.33
S	0,0304	0,00124	mg/l	120%	3.65
T	0,0266	0,003	mg/l	105%	0.87
U	0,0256	0,0018	mg/l	101%	0.15
V	0,0270	0,003	mg/l	106%	1.17
W	0,0213 *	0,0004	mg/l	84%	-2.99
X	0,0270	0,003	mg/l	106%	1.17
Y	0,0262	0,004	mg/l	103%	0.58
Z	0,0271	0,00542	mg/l	107%	1.24
AA	0,0260	0,002	mg/l	102%	0.44
AB			mg/l		
AC	0,0290	0,003	mg/l	114%	2.62
AD	0,0370 *	0,01	mg/l	146%	8.46
AE	0,0247	0,0027	mg/l	97%	-0.51
AF			mg/l		
AG			mg/l		
AH	0,0315 *	0,0032	mg/l	124%	4.45
AI	0,0258	0,002	mg/l	102%	0.29
AJ	<0.03		mg/l	*	
AK	0,0250	0,015	mg/l	98%	-0.29
AL	0,0271	0,002	mg/l	107%	1.24
AM	0,0270	0,00567	mg/l	106%	1.17
AN	0,0284		mg/l	112%	2.19
AQ	0,0260	0,00390	mg/l	102%	0.44
AP	0,0263	0,0053	mg/l	104%	0.66
AQ	0,0269	0,00316	mg/l	106%	1.09
AR			mg/l		
AS	0,0270	0,0027	mg/l	106%	1.17
AT	0,0240	0,002	mg/l	94%	-1.02
AU	0,0258	0,015	mg/l	102%	0.29
AV			mg/l		
AW			mg/l		
AX	0,0250	0,003	mg/l	98%	-0.29
AY	<0.03		mg/l	*	
AZ	0,0285	0,003	mg/l	112%	2.26
BA	0,00700 *	0,0007	mg/l	28%	-13.41
BB			mg/l		
BC			mg/l		

Result [mg/l]



Recovery [%]



	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,0277 ± 0,0039	0,0261 ± 0,0008	mg/l
Recov. ± CI(99%)	109,2 ± 15,5	102,8 ± 3,3	%
SD between labs	0,0094	0,0018	mg/l
RSD between labs	33,8	7,0	%
n for calculation	41	35	

Sample N168A

Parameter Ammonium

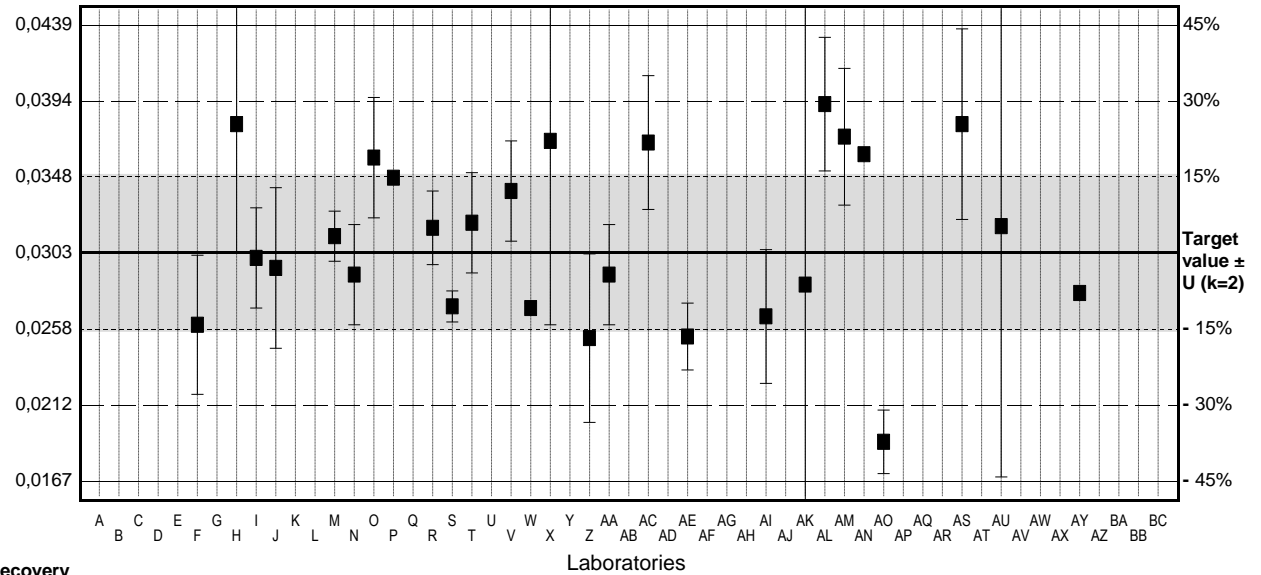
Target value ± U (k=2) 0,0303 mg/l ± 0,0047 mg/l

IFA result ± U (k=2) 0,0309 mg/l ± 0,0020 mg/l

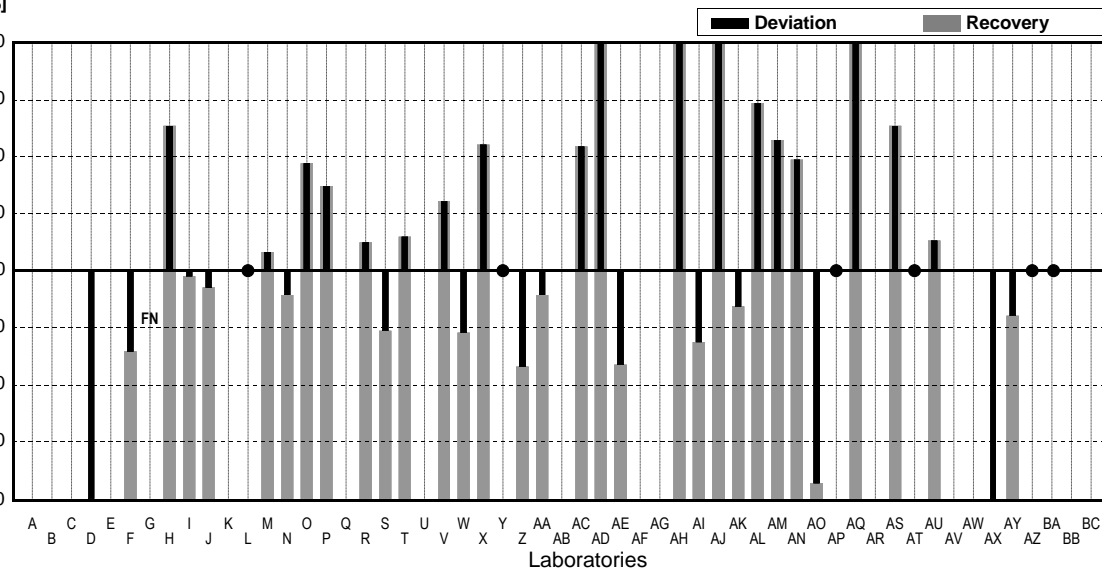
Stability test ± U (k=2) 0,0321 mg/l ± 0,0021 mg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			mg/l		
B			mg/l		
C			mg/l		
D	0.0100	0.01	mg/l	33%	-6.09
E			mg/l		
F	0.0260	0.00416	mg/l	86%	-1.29
G	<0.022		mg/l	FN	
H	0.0380	0.0077	mg/l	125%	2.31
I	0.0300	0.0030	mg/l	99%	-0.09
J	0.0294	0.0048	mg/l	97%	-0.27
K			mg/l		
L	<0.05		mg/l	.	
M	0.0313	0.00150	mg/l	103%	0.30
N	0.0290	0.003	mg/l	96%	-0.39
O	0.0360	0.0036	mg/l	119%	1.71
P	0.0348		mg/l	115%	1.35
Q			mg/l		
R	0.0318	0.0022	mg/l	105%	0.45
S	0.0271	0.00093	mg/l	89%	-0.96
T	0.0321	0.003	mg/l	106%	0.54
U			mg/l		
V	0.0340	0.003	mg/l	112%	1.11
W	0.0270	0.0003	mg/l	89%	-0.99
X	0.0370	0.011	mg/l	122%	2.01
Y	<0.04		mg/l	.	
Z	0.0252	0.00504	mg/l	83%	-1.53
AA	0.0290	0.003	mg/l	96%	-0.39
AB			mg/l		
AC	0.0369	0.004	mg/l	122%	1.98
AD	0.081	0.01	mg/l	267%	15.21
AE	0.0253	0.0020	mg/l	83%	-1.50
AF			mg/l		
AG			mg/l		
AH	0.053	0.006	mg/l	175%	6.81
AI	0.0265	0.004	mg/l	87%	-1.14
AJ	0.0531	0.004	mg/l	175%	6.84
AK	0.0284	0.080	mg/l	94%	-0.57
AL	0.0392	0.004	mg/l	129%	2.67
AM	0.03725	0.00409	mg/l	123%	2.09
AN	0.0362		mg/l	119%	1.77
AQ	0.0190	0.00190	mg/l	63%	-3.39
AP	<0.04		mg/l	.	
AQ	0.0773	0.00619	mg/l	255%	14.10
AR			mg/l		
AS	0.0380	0.0057	mg/l	125%	2.31
AT	<0.040		mg/l	.	
AU	0.0319	0.015	mg/l	105%	0.48
AV			mg/l		
AW			mg/l		
AX	0.0140	0.003	mg/l	46%	-4.89
AY	0.0279		mg/l	92%	-0.72
AZ	<0.13		mg/l	.	
BA	<0.03	0.003	mg/l	.	
BB			mg/l		
BC			mg/l		

Result [mg/l]



Recovery [%]



	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,0343 ± 0,0069	0,0314 ± 0,0044	mg/l
Recov. ± CI(99%)	113,3 ± 22,7	103,7 ± 14,5	%
SD between labs	0,0144	0,0089	mg/l
RSD between labs	42,0	28,2	%
n for calculation	33	31	

Sample N168B

Parameter Ammonium

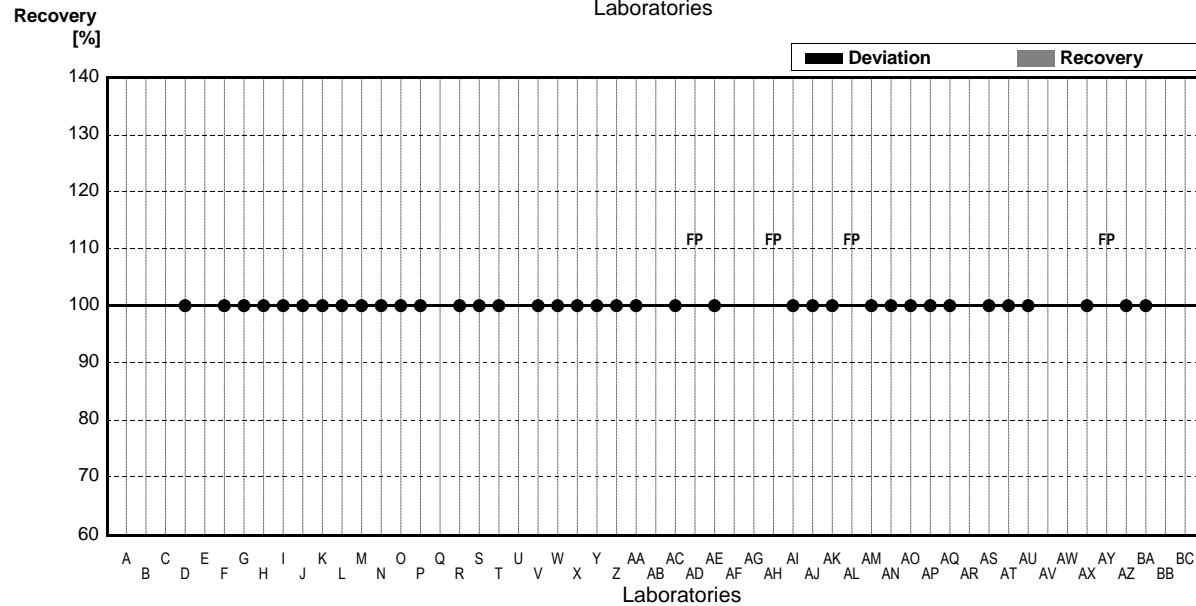
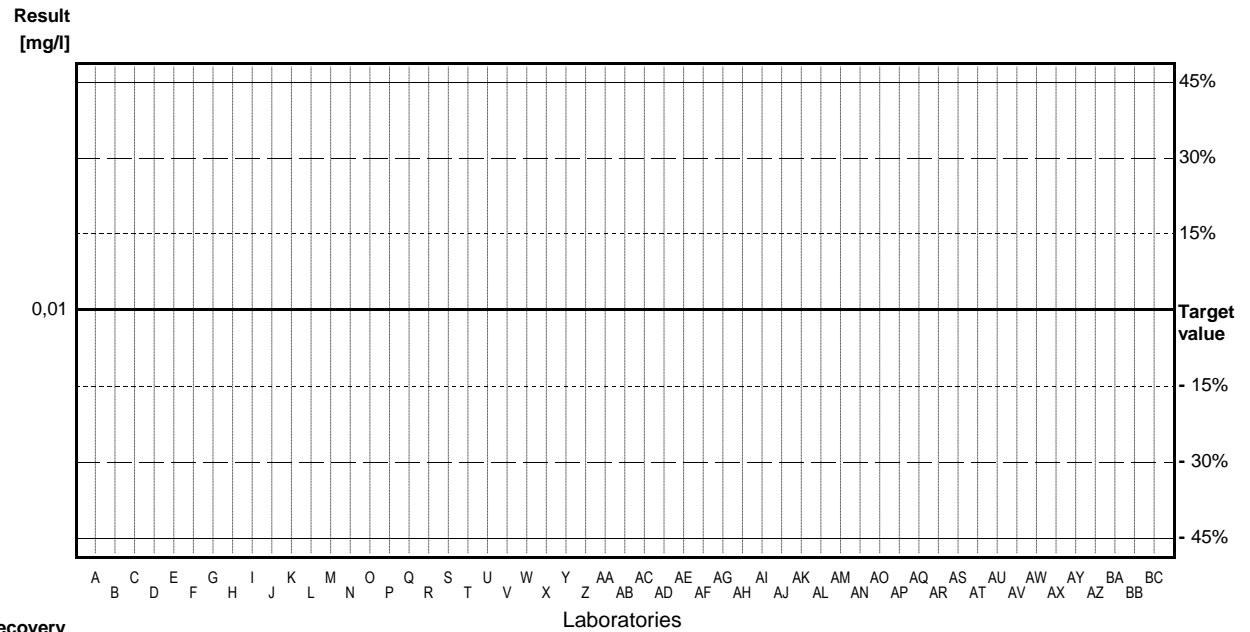
Target value <0,01 mg/l

IFA result <0,01 mg/l

Stability test <0,01 mg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			mg/l		
B			mg/l		
C			mg/l		
D	0,0100	0,01	mg/l	*	
E			mg/l		
F	<0,02		mg/l	*	
G	<0,022		mg/l	*	
H	<0,010		mg/l	*	
I	<0,03		mg/l	*	
J	<0,010		mg/l	*	
K	0,0064	0,0006	mg/l	*	
L	<0,05		mg/l	*	
M	<0,01		mg/l	*	
N	<0,009		mg/l	*	
O	<0,010		mg/l	*	
P	<0,01		mg/l	*	
Q			mg/l		
R	<0,013		mg/l	*	
S	<0,0100		mg/l	*	
T	<0,008		mg/l	*	
U			mg/l		
V	<0,01		mg/l	*	
W	<0,011		mg/l	*	
X	<0,020		mg/l	*	
Y	<0,04		mg/l	*	
Z	<0,0200		mg/l	*	
AA	<0,013		mg/l	*	
AB			mg/l		
AC	<0,030		mg/l	*	
AD	0,057	0,01	mg/l	FP	
AE	<0,01		mg/l	*	
AF			mg/l		
AG			mg/l		
AH	0,0355	0,0036	mg/l	FP	
AI	<0,005		mg/l	*	
AJ	<0,05		mg/l	*	
AK	<0,03	0,08	mg/l	*	
AL	0,0123	0,001	mg/l	FP	
AM	0,00466	0,00051	mg/l	*	
AN	<0,03		mg/l	*	
AQ	<0,005		mg/l	*	
AP	<0,04		mg/l	*	
AQ	<0,0644	0,00514	mg/l	*	
AR			mg/l		
AS	<0,005	0	mg/l	*	
AT	<0,040		mg/l	*	
AU	<0,010		mg/l	*	
AV			mg/l		
AW			mg/l		
AX	0,0080	0,002	mg/l	*	
AY	0,0101		mg/l	FP	
AZ	<0,13		mg/l	*	
BA	<0,03	0,003	mg/l	*	
BB			mg/l		
BC			mg/l		

	All results	Outliers excl.	Unit
Mean ± CI(99%)			mg/l
Recov. ± CI(99%)			%
SD between labs			mg/l
RSD between labs			%
n for calculation			



Sample N168A

Parameter Chloride

Target value ± U (k=2) 41,0 mg/l ± 1,5 mg/l

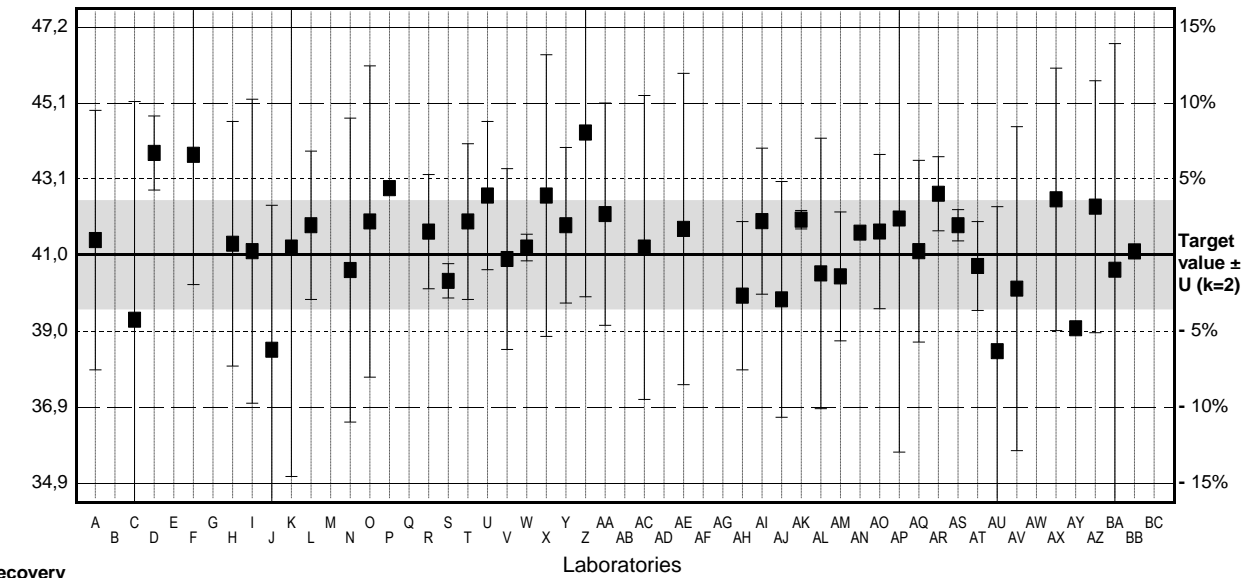
IFA result ± U (k=2) 41,2 mg/l ± 1,5 mg/l

Stability test mg/l

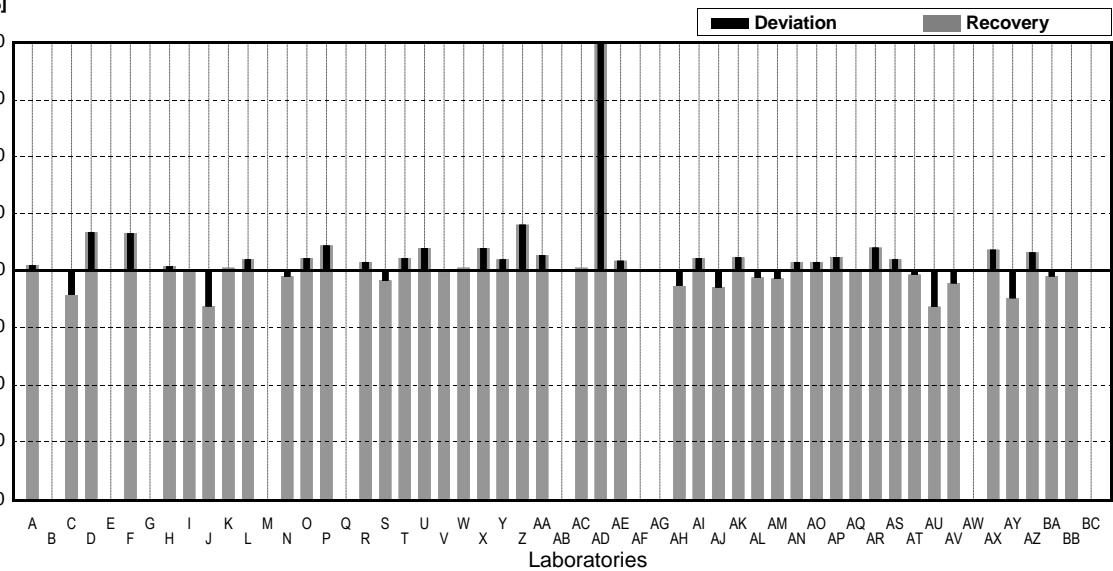
Lab Code	Result	±	Unit	Recovery	z-Score
A	41.4	3.5	mg/l	101%	0.34
B			mg/l		
C	39.25	5.888	ma/l	96%	-1.47
D	43.75	1	mg/l	107%	2.31
E			mg/l		
F	43.7	3.5	mg/l	107%	2.27
G			ma/l		
H	41.3	3.3	ma/l	101%	0.25
I	41.1	4.1	ma/l	100%	0.08
J	38.44	3.9	ma/l	94%	-2.15
K	41.2	6.18	ma/l	100%	0.17
L	41.8	2.0	ma/l	102%	0.67
M			ma/l		
N	40.59	4.1	ma/l	99%	-0.34
O	41.9	4.2	ma/l	102%	0.76
P	42.8		ma/l	104%	1.51
Q			ma/l		
R	41.628	1.54	ma/l	102%	0.53
S	40.3	0.462	ma/l	98%	-0.59
T	41.9	2.1	ma/l	102%	0.76
U	42.6	2.0	ma/l	104%	1.35
V	40.888	2.44	ma/l	100%	-0.09
W	41.2	0.36	ma/l	100%	0.17
X	42.6	3.8	ma/l	104%	1.35
Y	41.8	2.1	ma/l	102%	0.67
Z	44.3	4.43	ma/l	108%	2.78
AA	42.1	3	ma/l	103%	0.93
AB			ma/l		
AC	41.2	4.1	ma/l	100%	0.17
AD	96.4	0.3	ma/l	235%	46.59
AE	41.7	4.2	ma/l	102%	0.59
AF			ma/l		
AG			ma/l		
AH	39.9	2.0	ma/l	97%	-0.93
AI	41.91	1.97	ma/l	102%	0.77
AJ	39.8	3.18	ma/l	97%	-1.01
AK	41.95	0.25	ma/l	102%	0.80
AL	40.5	3.65	ma/l	99%	-0.42
AM	40.42	1.738	ma/l	99%	-0.49
AN	41.6		ma/l	101%	0.50
AQ	41.63	2.082	ma/l	102%	0.53
AP	41.98	6.30	ma/l	102%	0.82
AQ	41.1	2.45016	ma/l	100%	0.08
AR	42.65	1	ma/l	104%	1.39
AS	41.8	0.42	ma/l	102%	0.67
AT	40.7	1.2	ma/l	99%	-0.25
AU	38.4	3.9	ma/l	94%	-2.19
AV	40.09	4.37	ma/l	98%	-0.77
AW			ma/l		
AX	42.5	3.54	ma/l	104%	1.26
AY	39.02		ma/l	95%	-1.67
AZ	42.3	3.4	ma/l	103%	1.09
BA	40.6	6.1	ma/l	99%	-0.34
BB	41.093	0.100	ma/l	100%	0.08
BC			ma/l		

	All results	Outliers excl.	Unit
Mean ± CI(99%)	42,6 ± 3,3	41,3 ± 0,5	mg/l
Recov. ± CI(99%)	103,8 ± 8,1	100,9 ± 1,3	%
SD between labs	8,3	1,3	mg/l
RSD between labs	19,5	3,1	%
n for calculation	45	44	

Result [mg/l]



Recovery [%]



Sample N168B

Parameter Chloride

Target value ± U (k=2) 35,1 mg/l ± 0,5 mg/l

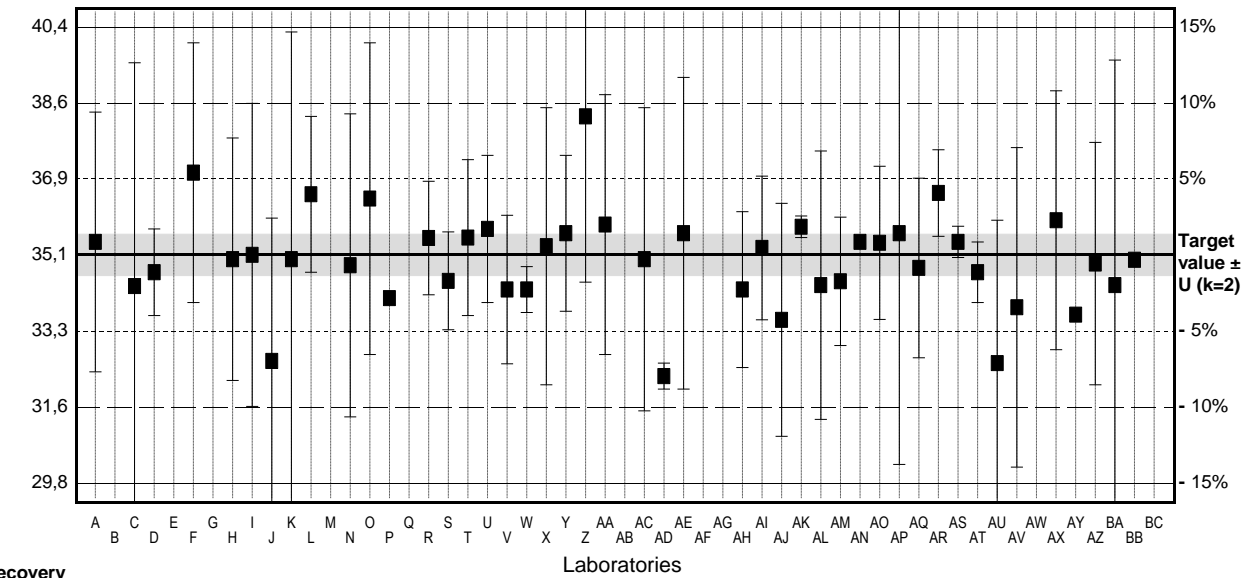
IFA result ± U (k=2) 35,3 mg/l ± 1,3 mg/l

Stability test mg/l

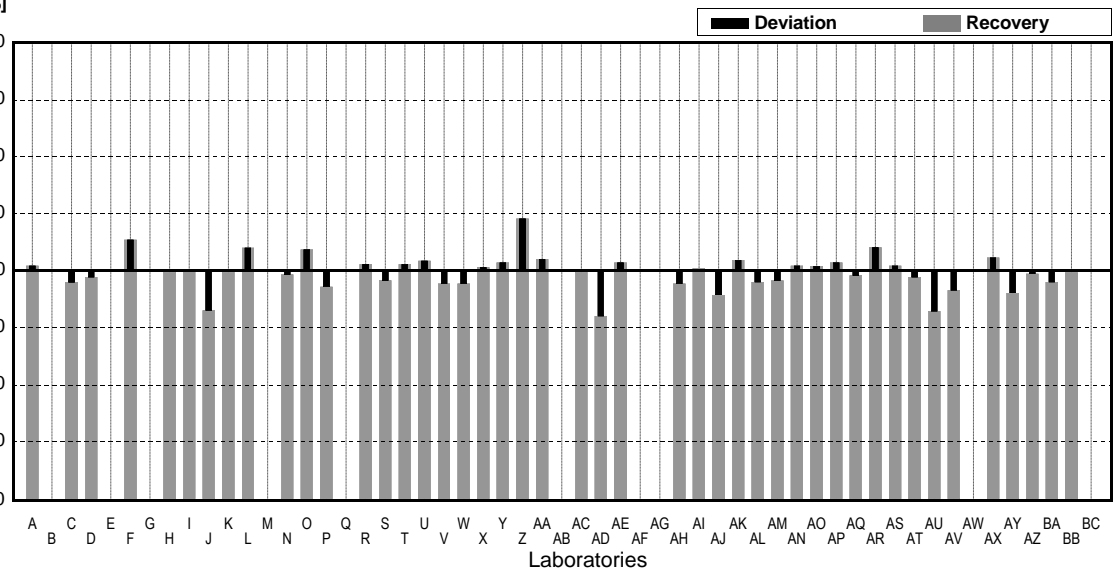
Lab Code	Result	±	Unit	Recovery	z-Score
A	35.4	3.0	mg/l	101%	0.29
B			mg/l		
C	34.38	5.157	ma/l	98%	-0.71
D	34.7	1	mg/l	99%	-0.39
E			mg/l		
F	37.0	3.0	mg/l	105%	1.87
G			ma/l		
H	35.0	2.8	ma/l	100%	-0.10
I	35.1	3.5	ma/l	100%	0.00
J	32.65	3.3	mg/l	93%	-2.41
K	35.0	5.25	mg/l	100%	-0.10
L	36.5	1.8	mg/l	104%	1.38
M			ma/l		
N	34.86	3.5	ma/l	99%	-0.24
O	36.4	3.6	mg/l	104%	1.28
P	34.1		mg/l	97%	-0.98
Q			ma/l		
R	35.49	1.31	ma/l	101%	0.38
S	34.5	1.13	ma/l	98%	-0.59
T	35.5	1.8	mg/l	101%	0.39
U	35.7	1.7	mg/l	102%	0.59
V	34.3	1.715	mg/l	98%	-0.79
W	34.3	0.53	mg/l	98%	-0.79
X	35.3	3.2	ma/l	101%	0.20
Y	35.6	1.8	mg/l	101%	0.49
Z	38.3 *	3.83	mg/l	109%	3.14
AA	35.8	3	mg/l	102%	0.69
AB			ma/l		
AC	35.0	3.5	mg/l	100%	-0.10
AD	32.3	0.3	mg/l	92%	-2.75
AE	35.6	3.6	mg/l	101%	0.49
AF			mg/l		
AG			mg/l		
AH	34.3	1.8	mg/l	98%	-0.79
AI	35.26	1.66	mg/l	100%	0.16
AJ	33.6	2.69	mg/l	96%	-1.47
AK	35.75	0.25	mg/l	102%	0.64
AL	34.4	3.10	mg/l	98%	-0.69
AM	34.49	1.483	ma/l	98%	-0.60
AN	35.4		mg/l	101%	0.29
AQ	35.38	1.769	mg/l	101%	0.28
AP	35.60	5.34	mg/l	101%	0.49
AQ	34.8	2.07396	mg/l	99%	-0.29
AR	36.53	1	ma/l	104%	1.40
AS	35.4	0.36	mg/l	101%	0.29
AT	34.7	0.7	mg/l	99%	-0.39
AU	32.6	3.3	mg/l	93%	-2.46
AV	33.89	3.69	mg/l	97%	-1.19
AW			ma/l		
AX	35.9	2.99	mg/l	102%	0.79
AY	33.72		mg/l	96%	-1.36
AZ	34.9	2.8	mg/l	99%	-0.20
BA	34.4	5.2	mg/l	98%	-0.69
BB	34.987	0.074	mg/l	100%	-0.11
BC			mg/l		

	All results	Outliers excl.	Unit
Mean ± CI(99%)	35,0 ± 0,4	34,9 ± 0,4	mg/l
Recov. ± CI(99%)	99,7 ± 1,3	99,5 ± 1,2	%
SD between labs	1,1	1,0	mg/l
RSD between labs	3,2	2,9	%
n for calculation	45	44	

Result [mg/l]



Recovery [%]



Sample N168A

Parameter Sulphate

Target value ± U (k=2) 46,6 mg/l ± 0,9 mg/l

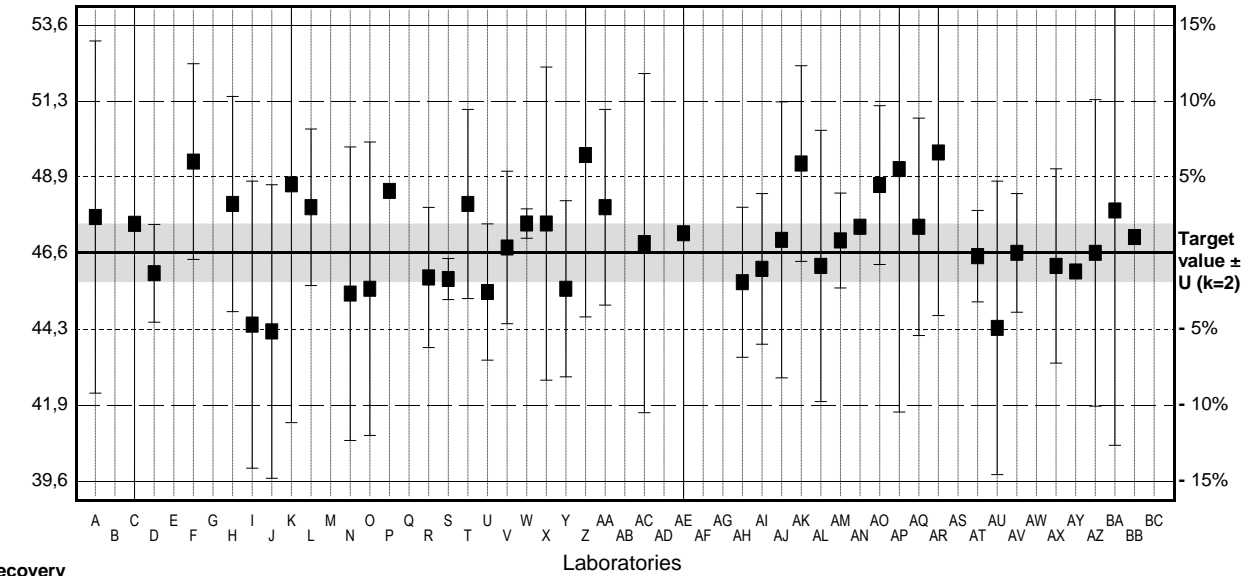
IFA result ± U (k=2) 47,9 mg/l ± 1,2 mg/l

Stability test mg/l

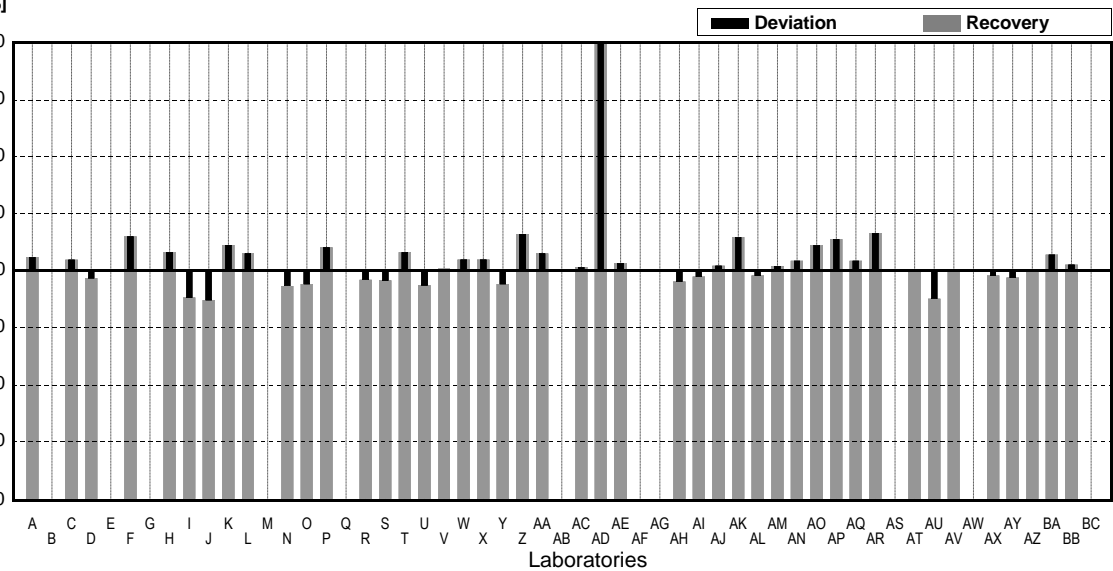
Lab Code	Result	±	Unit	Recovery	z-Score
A	47.7	5.4	mg/l	102%	0.76
B			mg/l		
C	47.49	9.498	ma/l	102%	0.62
D	45.975	1.5	mg/l	99%	-0.43
E			mg/l		
F	49.4	3.0	mg/l	106%	1.94
G			ma/l		
H	48.1	3.3	mg/l	103%	1.04
I	44.4	4.4	mg/l	95%	-1.52
J	44.19	4.5	mg/l	95%	-1.67
K	48.7	7.305	mg/l	105%	1.45
L	48.0	2.4	mg/l	103%	0.97
M			mg/l		
N	45.35	4.5	mg/l	97%	-0.87
O	45.5	4.5	mg/l	98%	-0.76
P	48.5		mg/l	104%	1.32
Q			mg/l		
R	45.847	2.15	ma/l	98%	-0.52
S	45.8	0.632	ma/l	98%	-0.55
T	48.1	2.9	mg/l	103%	1.04
U	45.4	2.09	mg/l	97%	-0.83
V	46.766	2.338	mg/l	100%	0.11
W	47.5	0.45	mg/l	102%	0.62
X	47.5	4.8	mg/l	102%	0.62
Y	45.5	2.7	mg/l	98%	-0.76
Z	49.6	4.96	mg/l	106%	2.08
AA	48.0	3	mg/l	103%	0.97
AB			mg/l		
AC	46.9	5.2	mg/l	101%	0.21
AD	112	0.2	mg/l	240%	45.27
AE	47.2	7.6	mg/l	101%	0.42
AF			mg/l		
AG			mg/l		
AH	45.7	2.3	mg/l	98%	-0.62
AI	46.11	2.31	mg/l	99%	-0.34
AJ	47.0	4.23	mg/l	101%	0.28
AK	49.34	3.0	mg/l	106%	1.90
AL	46.2	4.16	mg/l	99%	-0.28
AM	46.98	1.456	mg/l	101%	0.26
AN	47.4		mg/l	102%	0.55
AO	48.68	2.434	mg/l	104%	1.44
AP	49.17	7.45	mg/l	106%	1.78
AQ	47.4	3.33348	mg/l	102%	0.55
AR	49.68	5	mg/l	107%	2.13
AS			mg/l		
AT	46.5	1.4	mg/l	100%	-0.07
AU	44.3	4.5	mg/l	95%	-1.59
AV	46.60	1.82	mg/l	100%	0.00
AW			mg/l		
AX	46.2	2.98	mg/l	99%	-0.28
AY	46.03		mg/l	99%	-0.39
AZ	46.6	4.7	mg/l	100%	0.00
BA	47.9	7.2	mg/l	103%	0.90
BB	47.085	0.096	mg/l	101%	0.34
BC			mg/l		

	All results	Outliers excl.	Unit
Mean ± CI(99%)	48,5 ± 4,0	47,0 ± 0,6	mg/l
Recov. ± CI(99%)	104,1 ± 8,6	100,9 ± 1,3	%
SD between labs	9,9	1,4	mg/l
RSD between labs	20,4	3,0	%
n for calculation	44	43	

Result [mg/l]



Recovery [%]



Sample N168B

Parameter Sulphate

Target value ± U (k=2) 34,9 mg/l ± 0,7 mg/l

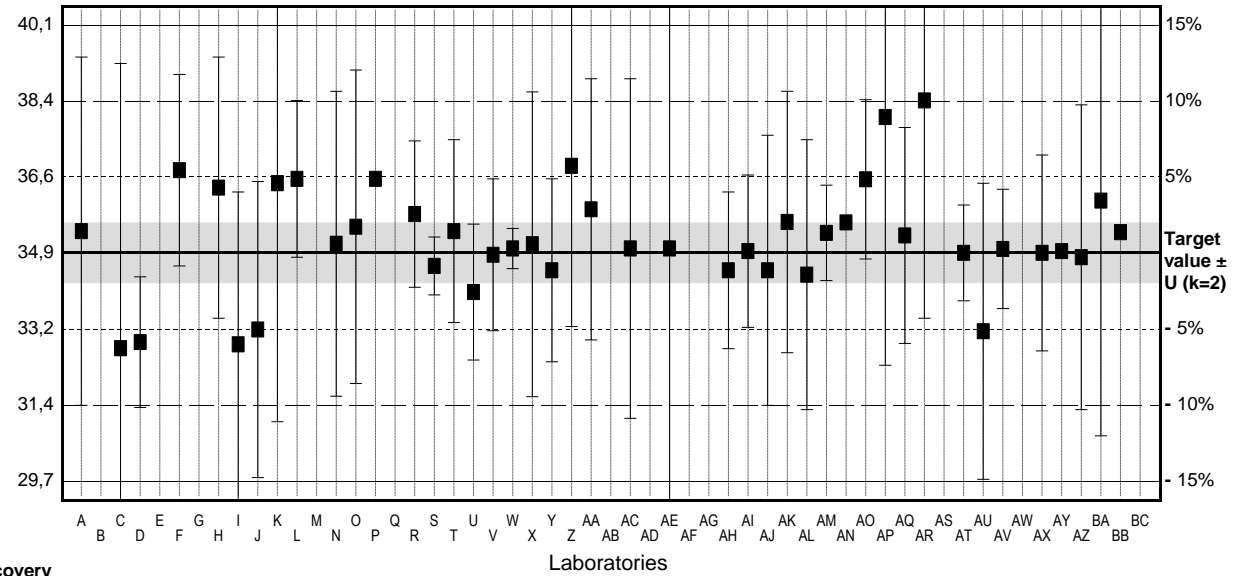
IFA result ± U (k=2) 35,8 mg/l ± 0,9 mg/l

Stability test mg/l

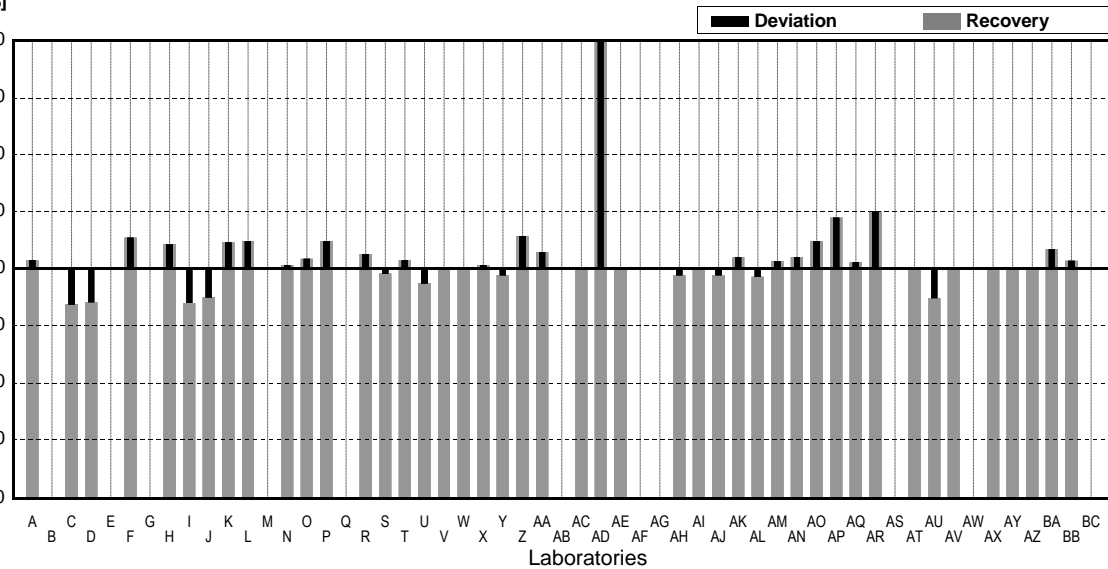
Lab Code	Result	±	Unit	Recovery	z-Score
A	35.4	4.0	mg/l	101%	0.46
B			mg/l		
C	32.71	6.542	mg/l	94%	-2.02
D	32.85	1.5	mg/l	94%	-1.89
E			mg/l		
F	36.8	2.2	mg/l	105%	1.76
G			mg/l		
H	36.4	3.0	mg/l	104%	1.39
I	32.8	3.5	mg/l	94%	-1.94
J	33.14	3.4	mg/l	95%	-1.63
K	36.5	5.475	mg/l	105%	1.48
L	36.6	1.8	mg/l	105%	1.57
M			mg/l		
N	35.11	3.5	mg/l	101%	0.19
O	35.5	3.6	mg/l	102%	0.55
P	36.6		mg/l	105%	1.57
Q			mg/l		
R	35.791	1.68	mg/l	103%	0.82
S	34.6	0.664	mg/l	99%	-0.28
T	35.4	2.1	mg/l	101%	0.46
U	34.0	1.56	mg/l	97%	-0.83
V	34.858	1.743	mg/l	100%	-0.04
W	35.0	0.462	mg/l	100%	0.09
X	35.1	3.5	mg/l	101%	0.18
Y	34.5	2.1	mg/l	99%	-0.37
Z	36.9	3.69	mg/l	106%	1.85
AA	35.9	3	mg/l	103%	0.92
AB			mg/l		
AC	35.0	3.9	mg/l	100%	0.09
AD	112	*	mg/l	321%	71.26
AE	35.0	5.6	mg/l	100%	0.09
AF			mg/l		
AG			mg/l		
AH	34.5	1.8	mg/l	99%	-0.37
AI	34.94	1.75	mg/l	100%	0.04
AJ	34.5	3.10	mg/l	99%	-0.37
AK	35.61	3.0	mg/l	102%	0.66
AL	34.4	3.10	mg/l	99%	-0.46
AM	35.36	1.096	mg/l	101%	0.43
AN	35.6		mg/l	102%	0.65
AQ	36.59	1.830	mg/l	105%	1.56
AP	38.02	*	mg/l	109%	2.88
AQ	35.3	2.48025	mg/l	101%	0.37
AR	38.40	*	mg/l	110%	3.24
AS			mg/l		
AT	34.9	1.1	mg/l	100%	0.00
AU	33.1	3.4	mg/l	95%	-1.66
AV	34.99	1.37	mg/l	100%	0.08
AW			mg/l		
AX	34.9	2.25	mg/l	100%	0.00
AY	34.94		mg/l	100%	0.04
AZ	34.8	3.5	mg/l	100%	-0.09
BA	36.1	5.4	mg/l	103%	1.11
BB	35.376	0.07	mg/l	101%	0.44
BC			mg/l		

	All results	Outliers excl.	Unit
Mean ± CI(99%)	37,0 ± 4,7	35,1 ± 0,5	mg/l
Recov. ± CI(99%)	105,9 ± 13,5	100,5 ± 1,3	%
SD between labs	11,6	1,1	mg/l
RSD between labs	31,5	3,1	%
n for calculation	44	41	

Result [mg/l]



Recovery [%]



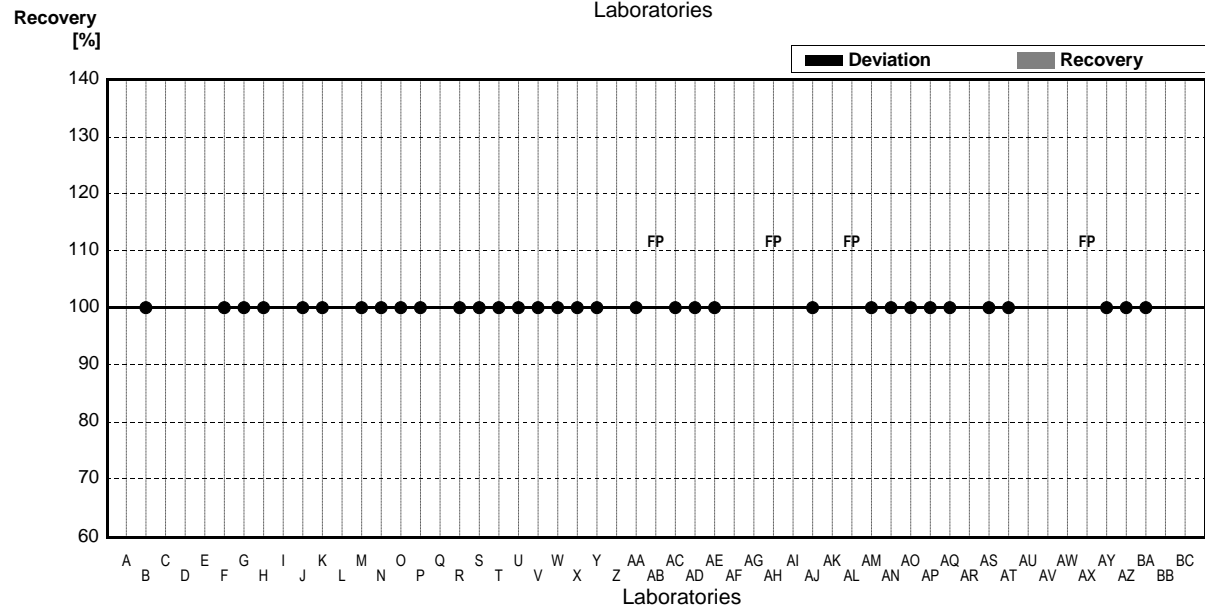
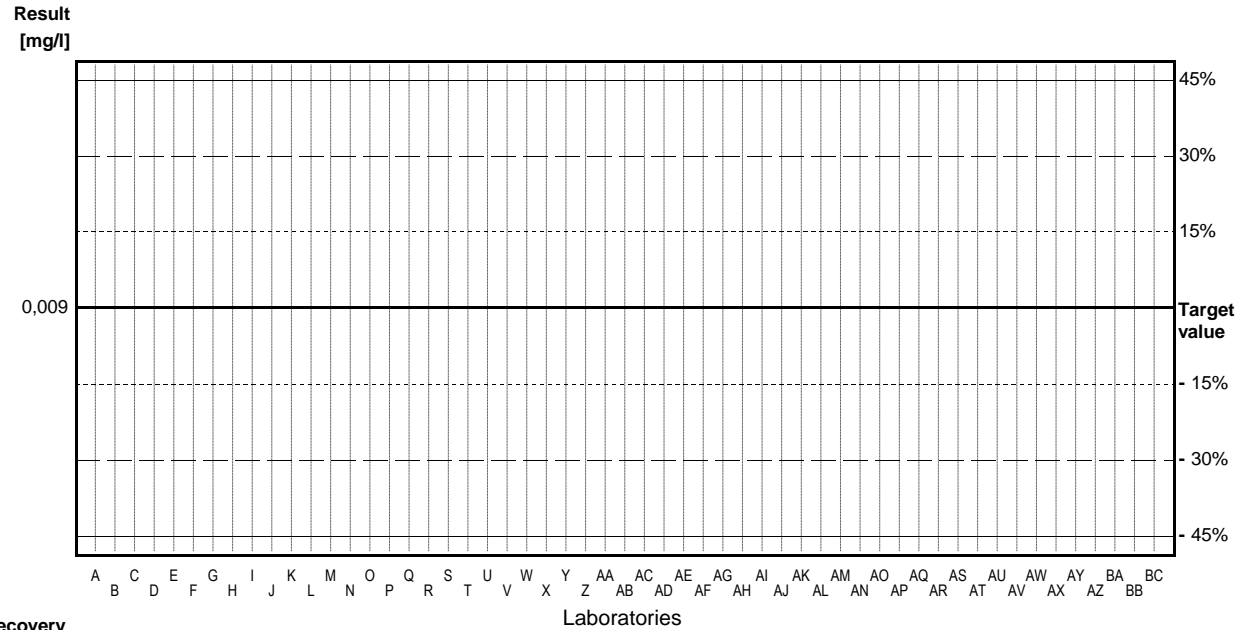
Sample N168A

Parameter Orthophosphate

Target value <0,009 mg/l
 IFA result <0,009 mg/l
 Stability test <0,009 mg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			mg/l		
B	<0,030	0,0045	mg/l	*	
C			mg/l		
D			mg/l		
E			mg/l		
F	<0,009		mg/l	*	
G	<0,005		mg/l	*	
H	<0,010		mg/l	*	
I			mg/l		
J	<0,015		mg/l	*	
K	<0,03		mg/l	*	
L			mg/l		
M	<0,019		mg/l	*	
N	<0,0015		mg/l	*	
O	<0,008		mg/l	*	
P	<0,01		mg/l	*	
Q			mg/l		
R	<0,015		mg/l	*	
S	<0,0150		mg/l	*	
T	<0,006		mg/l	*	
U	<0,02	0,005	mg/l	*	
V	<0,01		mg/l	*	
W	<0,015		mg/l	*	
X	<0,031		mg/l	*	
Y	<0,03		mg/l	*	
Z			mg/l		
AA	<0,01		mg/l	*	
AB	0,0148	0,002	mg/l	FP	
AC	<0,020		mg/l	*	
AD	<0,015	0,001	mg/l	*	
AE	<0,015		mg/l	*	
AF			mg/l		
AG			mg/l		
AH	0,0180	0,0018	mg/l	FP	
AI			mg/l		
AJ	<0,12		mg/l	*	
AK			mg/l		
AL	0,0102	0,001	mg/l	FP	
AM	0,0071	0,00071	mg/l	*	
AN	<0,02		mg/l	*	
AQ	0,0090	0,00140	mg/l	*	
AP	<0,15		mg/l	*	
AQ	<0,0307	0,00635	mg/l	*	
AR			mg/l		
AS	<0,006	0	mg/l	*	
AT	<0,040		mg/l	*	
AU			mg/l		
AV			mg/l		
AW			mg/l		
AX	0,0120	0,003	mg/l	FP	
AY	<0,10		mg/l	*	
AZ	<0,15		mg/l	*	
BA	<0,01	0,002	mg/l	*	
BB			mg/l		
BC			mg/l		

	All results	Outliers excl.	Unit
Mean ± CI(99%)			mg/l
Recov. ± CI(99%)			%
SD between labs			mg/l
RSD between labs			%
n for calculation			



Sample N168B

Parameter Orthophosphate

Target value ± U (k=2) 0,0829 mg/l ± 0,0009 mg/l

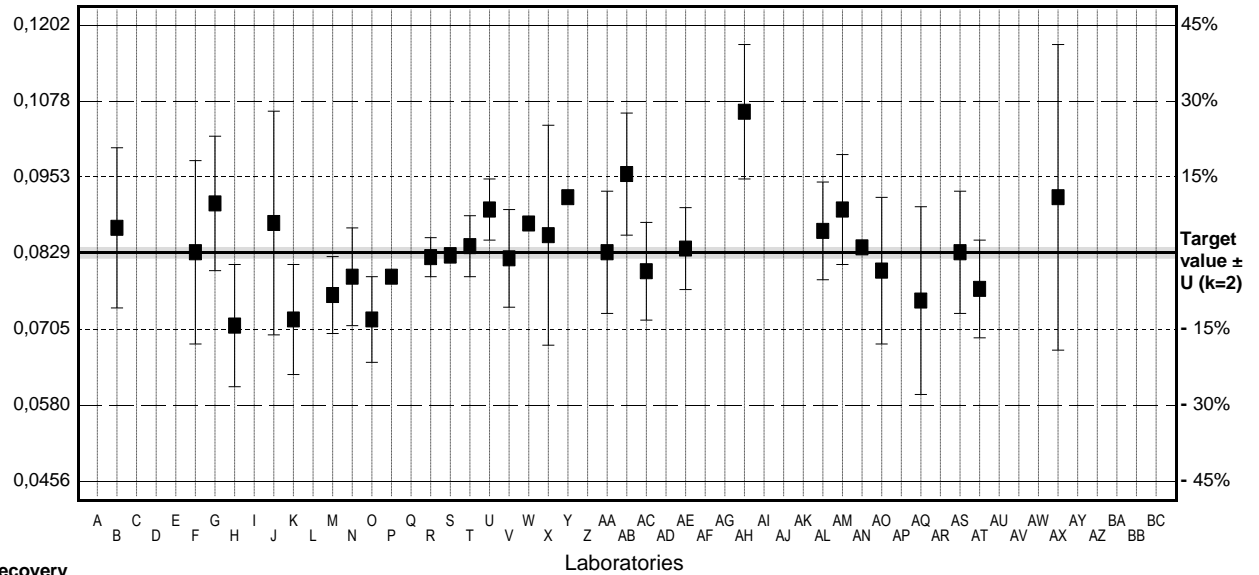
IFA result ± U (k=2) 0,0849 mg/l ± 0,0015 mg/l

Stability test ± U (k=2) 0,0849 mg/l ± 0,0015 mg/l

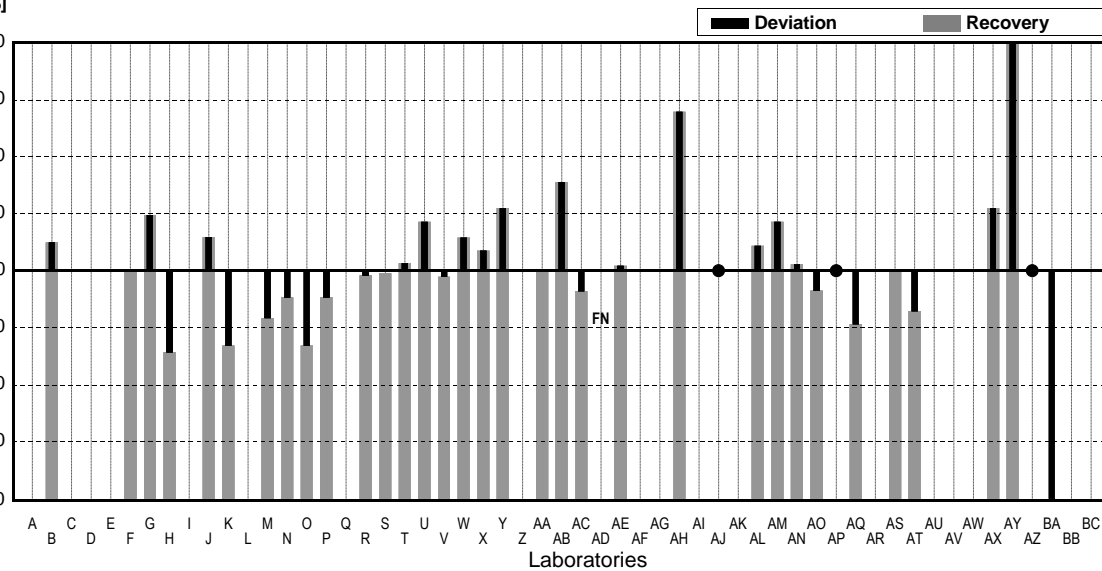
Lab Code	Result	±	Unit	Recovery	z-Score
A			mg/l		
B	0,0870	0,0131	mg/l	105%	0,52
C			mg/l		
D			mg/l		
E			mg/l		
F	0,083	0,015	mg/l	100%	0,01
G	0,091	0,011	mg/l	110%	1,03
H	0,071	0,010	mg/l	86%	-1,51
I			mg/l		
J	0,0878	0,0183	mg/l	106%	0,62
K	0,072	0,009	mg/l	87%	-1,38
L			mg/l		
M	0,076	0,0063	mg/l	92%	-0,88
N	0,0790	0,008	mg/l	95%	-0,50
O	0,072	0,007	mg/l	87%	-1,38
P	0,079		mg/l	95%	-0,50
Q			mg/l		
R	0,0822	0,0032	mg/l	99%	-0,09
S	0,0825	0,00122	mg/l	100%	-0,05
T	0,084	0,005	mg/l	101%	0,14
U	0,090	0,005	mg/l	109%	0,90
V	0,082	0,008	mg/l	99%	-0,11
W	0,0877	0,001	mg/l	106%	0,61
X	0,0858	0,0180	mg/l	103%	0,37
Y	0,092		mg/l	111%	1,16
Z			mg/l		
AA	0,083	0,01	mg/l	100%	0,01
AB	0,0958	0,01	mg/l	116%	1,64
AC	0,0799	0,008	mg/l	96%	-0,38
AD	<0,015	0,001	mg/l	FN	
AE	0,0836	0,0067	mg/l	101%	0,09
AF			mg/l		
AG			mg/l		
AH	0,106	*	0,011	128%	2,93
AI			mg/l		
AJ	<0,12		mg/l	*	
AK			mg/l		
AL	0,0865	0,008	mg/l	104%	0,46
AM	0,090	0,009	mg/l	109%	0,90
AN	0,0838		mg/l	101%	0,11
AO	0,080	0,0120	mg/l	97%	-0,37
AP	<0,15		mg/l	*	
AQ	0,0751	0,01537	mg/l	91%	-0,99
AR			mg/l		
AS	0,083	0,010	mg/l	100%	0,01
AT	0,077	0,008	mg/l	93%	-0,75
AU			mg/l		
AV			mg/l		
AW			mg/l		
AX	0,092	0,025	mg/l	111%	1,16
AY	0,1206	*	mg/l	145%	4,79
AZ	<0,15		mg/l	*	
BA	0,0260	*	0,0052	31%	-7,22
BB			mg/l		
BC			mg/l		

	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,0832 ± 0,0067	0,0831 ± 0,0032	mg/l
Recov. ± CI(99%)	100,4 ± 8,1	100,3 ± 3,8	%
SD between labs	0,0141	0,0063	mg/l
RSD between labs	16,9	7,6	%
n for calculation	33	30	

Result [mg/l]



Recovery [%]



Sample N168A

Parameter Boron

Target value ± U (k=2) 0,1403 mg/l ± 0,0013 mg/l

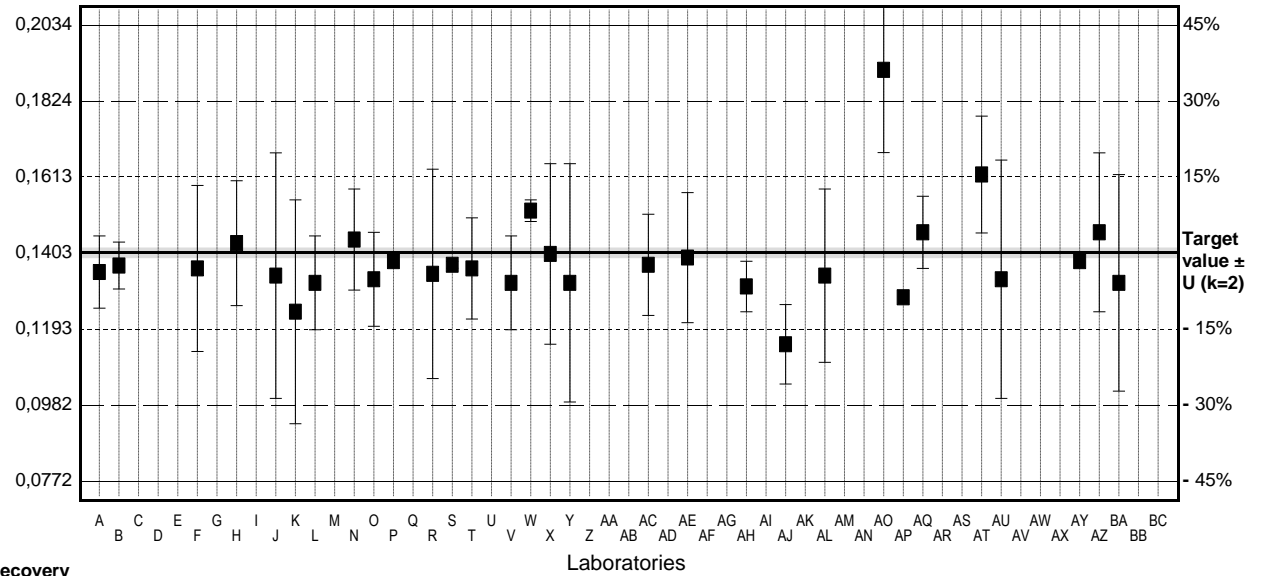
IFA result ± U (k=2) 0,145 mg/l ± 0,011 mg/l

Stability test mg/l

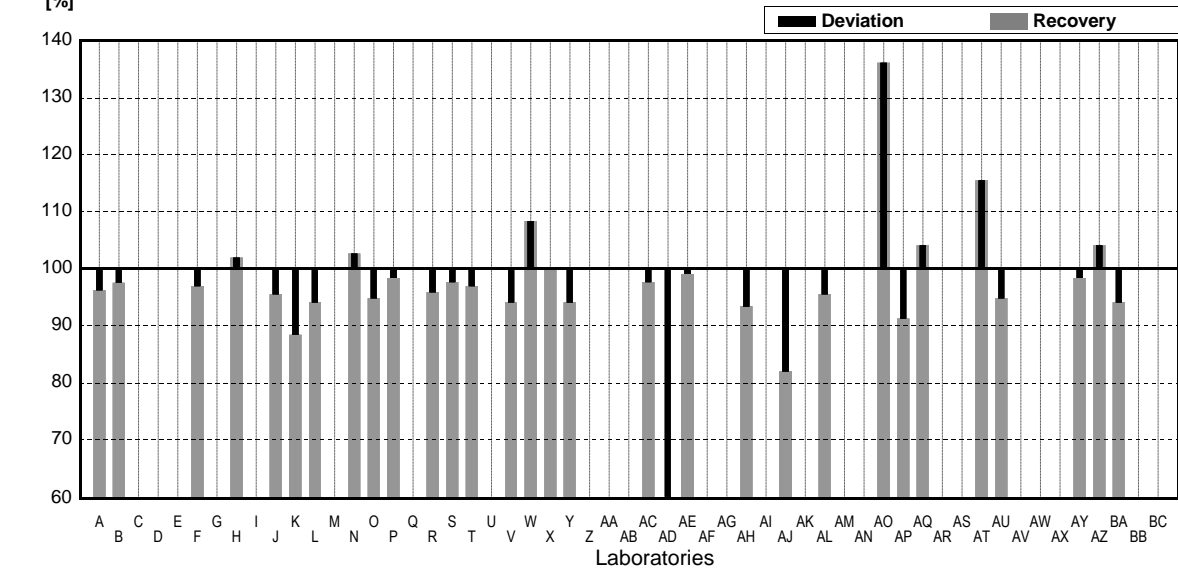
Lab Code	Result	±	Unit	Recovery	z-Score
A	0,135	0,010	mg/l	96%	-0,52
B	0,1368	0,0065	mg/l	98%	-0,34
C			mg/l		
D			mg/l		
E			mg/l		
F	0,136	0,023	mg/l	97%	-0,42
G			mg/l		
H	0,143	0,0173	mg/l	102%	0,26
I			mg/l		
J	0,134	0,034	mg/l	96%	-0,62
K	0,124	0,031	mg/l	88%	-1,59
L	0,132	0,013	mg/l	94%	-0,81
M			mg/l		
N	0,144	0,014	mg/l	103%	0,36
O	0,133	0,013	mg/l	95%	-0,71
P	0,138		mg/l	98%	-0,22
Q			mg/l		
R	0,1345	0,029	mg/l	96%	-0,57
S	0,137	0,00094	mg/l	98%	-0,32
T	0,136	0,014	mg/l	97%	-0,42
U			mg/l		
V	0,132	0,013	mg/l	94%	-0,81
W	0,152	0,003	mg/l	108%	1,14
X	0,140	0,025	mg/l	100%	-0,03
Y	0,132	0,033	mg/l	94%	-0,81
Z			mg/l		
AA			mg/l		
AB			mg/l		
AC	0,137	0,014	mg/l	98%	-0,32
AD	0,00250 *	0,01	mg/l	2%	-13,45
AE	0,139	0,018	mg/l	99%	-0,13
AF			mg/l		
AG			mg/l		
AH	0,131	0,007	mg/l	93%	-0,91
AI			mg/l		
AJ	0,115 *	0,011	mg/l	82%	-2,47
AK			mg/l		
AL	0,134	0,024	mg/l	96%	-0,62
AM			mg/l		
AN			mg/l		
AQ	0,191 *	0,0229	mg/l	136%	4,95
AP	0,128		mg/l	91%	-1,20
AQ	0,146	0,010	mg/l	104%	0,56
AR			mg/l		
AS			mg/l		
AT	0,162 *	0,0162	mg/l	115%	2,12
AU	0,133	0,033	mg/l	95%	-0,71
AV			mg/l		
AW			mg/l		
AX			mg/l		
AY	0,138		mg/l	98%	-0,22
AZ	0,146	0,022	mg/l	104%	0,56
BA	0,132	0,03	mg/l	94%	-0,81
BB			mg/l		
BC			mg/l		

	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,1340 ± 0,0136	0,1364 ± 0,0032	mg/l
Recov. ± CI(99%)	95,5 ± 9,7	97,2 ± 2,3	%
SD between labs	0,0276	0,0060	mg/l
RSD between labs	20,6	4,4	%
n for calculation	31	27	

Result [mg/l]



Recovery [%]



Sample N168B

Parameter Boron

Target value ± U (k=2) 0,1010 mg/l ± 0,0007 mg/l

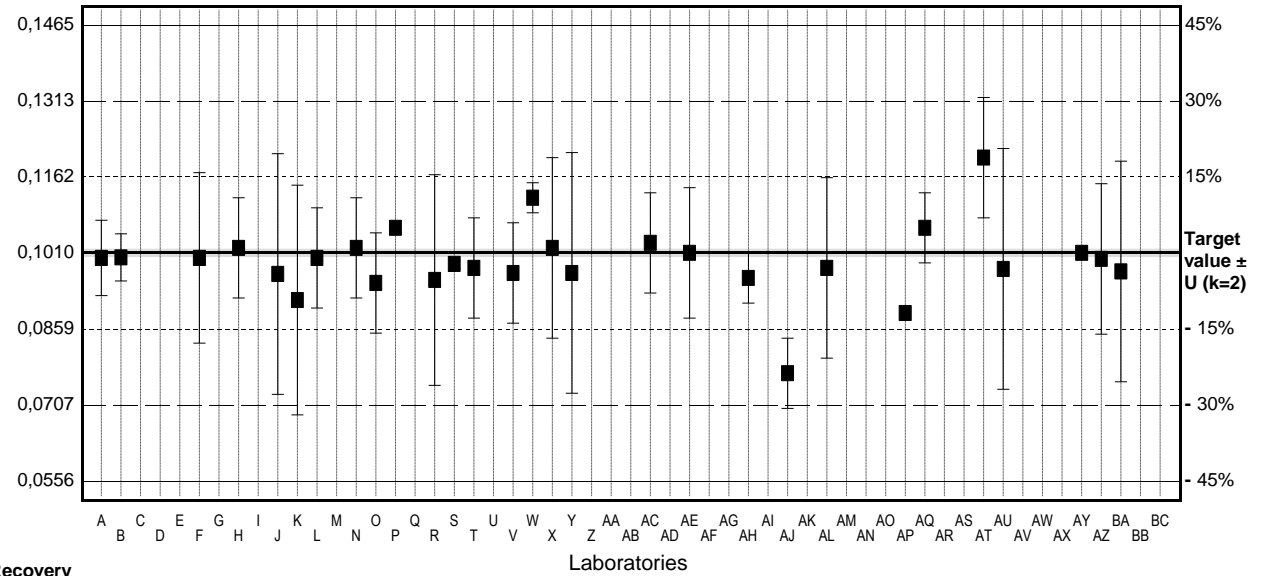
IFA result ± U (k=2) 0,103 mg/l ± 0,008 mg/l

Stability test mg/l

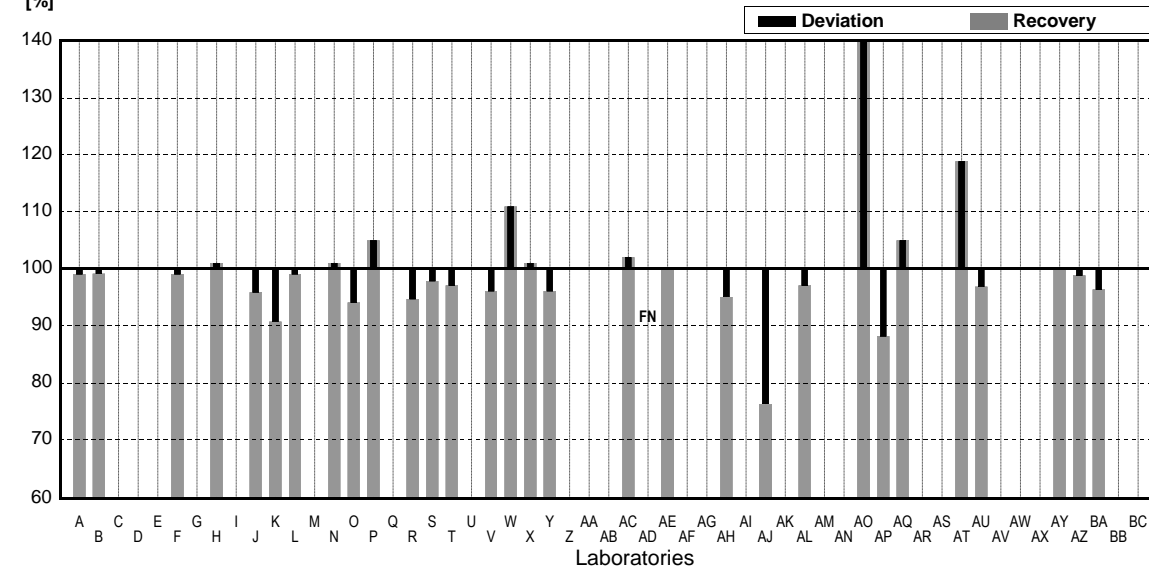
Lab Code	Result	±	Unit	Recovery	z-Score
A	0.100	0,0075	mg/l	99%	-0.14
B	0.1001	0,0047	mg/l	99%	-0.12
C			mg/l		
D			mg/l		
E			mg/l		
F	0.100	0.017	mg/l	99%	-0.14
G			mg/l		
H	0.102	0.010	mg/l	101%	0.14
I			mg/l		
J	0.0968	0.024	mg/l	96%	-0.57
K	0.0916	0.0229	mg/l	91%	-1.27
L	0.100	0.010	mg/l	99%	-0.14
M			mg/l		
N	0.102	0.010	mg/l	101%	0.14
O	0.095	0.010	mg/l	94%	-0.81
P	0.106		mg/l	105%	0.68
Q			mg/l		
R	0.0956	0.021	mg/l	95%	-0.73
S	0.0988	0,00092	mg/l	98%	-0.30
T	0.098	0.010	mg/l	97%	-0.41
U			mg/l		
V	0.097	0.01	mg/l	96%	-0.54
W	0.112	0.003	mg/l	111%	1.49
X	0.102	0.018	mg/l	101%	0.14
Y	0.097	0.024	mg/l	96%	-0.54
Z			mg/l		
AA			mg/l		
AB			mg/l		
AC	0.103	0.010	mg/l	102%	0.27
AD	<0.001	0.01	mg/l	FN	
AE	0.101	0.013	mg/l	100%	0.00
AF			mg/l		
AG			mg/l		
AH	0.096	0.005	mg/l	95%	-0.68
AI			mg/l		
AJ	0.077 *	0.007	mg/l	76%	-3.26
AK			mg/l		
AL	0.098	0.018	mg/l	97%	-0.41
AM			mg/l		
AN			mg/l		
AQ	0.149 *	0.0179	mg/l	148%	6.51
AP	0.089		mg/l	88%	-1.63
AQ	0.106	0.007	mg/l	105%	0.68
AR			mg/l		
AS			mg/l		
AT	0.120 *	0.0120	mg/l	119%	2.58
AU	0.0978	0.024	mg/l	97%	-0.43
AV			mg/l		
AW			mg/l		
AX			mg/l		
AY	0.101		mg/l	100%	0.00
AZ	0.0998	0.015	mg/l	99%	-0.16
BA	0.0973	0.022	mg/l	96%	-0.50
BB			mg/l		
BC			mg/l		

	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,1010 ± 0,0058	0,0994 ± 0,0024	mg/l
Recov. ± CI(99%)	100,0 ± 5,7	98,4 ± 2,4	%
SD between labs	0,0115	0,0045	mg/l
RSD between labs	11,4	4,5	%
n for calculation	30	27	

Result [mg/l]



Recovery [%]



Sample N168A

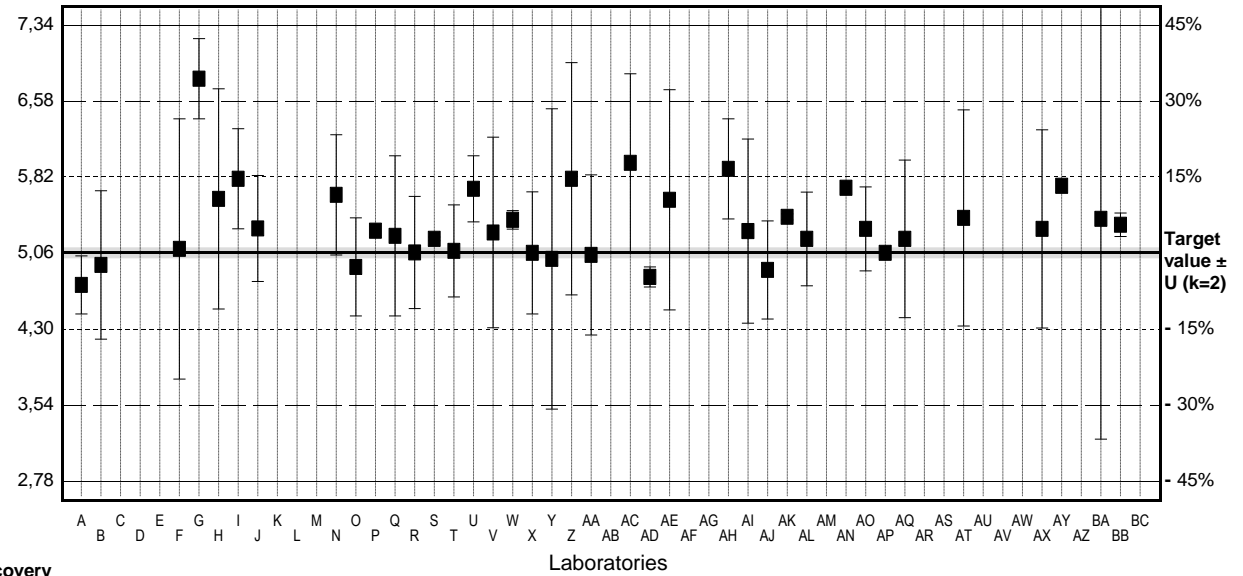
Parameter DOC

Target value ± U (k=2) 5,06 mg/l ± 0,05 mg/l
 IFA result ± U (k=2) 5,17 mg/l ± 0,09 mg/l
 Stability test ± U (k=2) 5,18 mg/l ± 0,09 mg/l

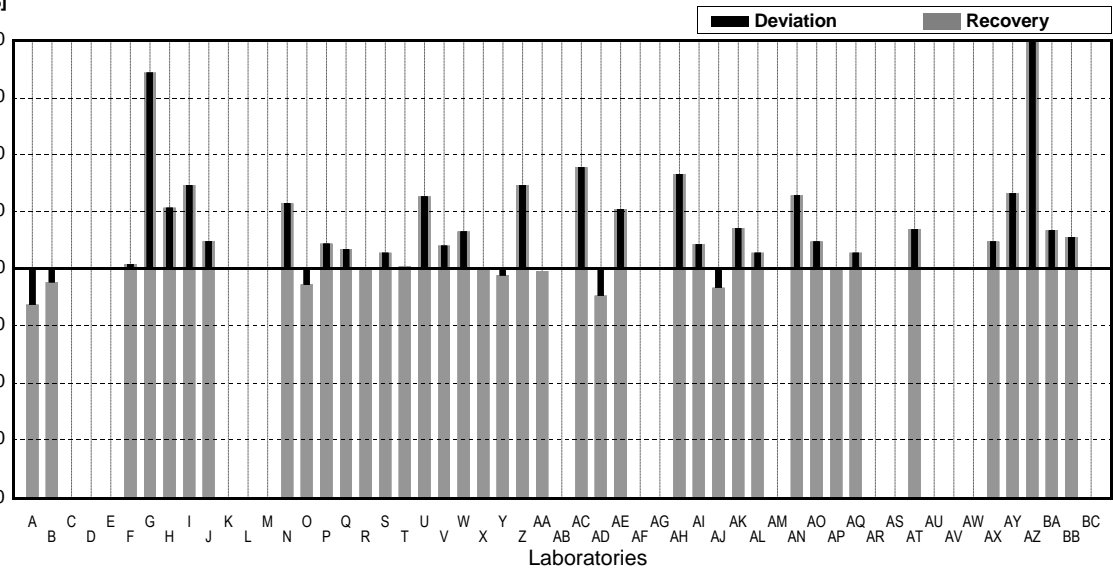
Lab Code	Result	±	Unit	Recovery	z-Score
A	4,74	0,29	mg/l	94%	-1,17
B	4,94	0,741	mg/l	98%	-0,44
C			mg/l		
D			mg/l		
E			mg/l		
F	5,1	1,3	mg/l	101%	0,15
G	6,8	0,4	mg/l	134%	6,37
H	5,6	1,1	mg/l	111%	1,98
I	5,8	0,5	mg/l	115%	2,71
J	5,304	0,530	mg/l	105%	0,89
K			mg/l		
L			mg/l		
M			mg/l		
N	5,64	0,6	mg/l	111%	2,12
O	4,92	0,49	mg/l	97%	-0,51
P	5,282		mg/l	104%	0,81
Q	5,23	0,8	mg/l	103%	0,62
R	5,064	0,56	mg/l	100%	0,01
S	5,20	0,0191	mg/l	103%	0,51
T	5,08	0,46	mg/l	100%	0,07
U	5,7	0,33	mg/l	113%	2,34
V	5,264	0,952	mg/l	104%	0,75
W	5,39	0,092	mg/l	107%	1,21
X	5,06	0,61	mg/l	100%	0,00
Y	5,0	1,5	mg/l	99%	-0,22
Z	5,8	1,16	mg/l	115%	2,71
AA	5,04	0,8	mg/l	100%	-0,07
AB			mg/l		
AC	5,96	0,89	mg/l	118%	3,29
AD	4,82	0,1	mg/l	95%	-0,88
AE	5,59	1,1	mg/l	110%	1,94
AF			mg/l		
AG			mg/l		
AH	5,9	0,5	mg/l	117%	3,07
AI	5,278	0,92	mg/l	104%	0,80
AJ	4,89	0,49	mg/l	97%	-0,62
AK	5,42	0,03	mg/l	107%	1,32
AL	5,20	0,468	mg/l	103%	0,51
AM			mg/l		
AN	5,71		mg/l	113%	2,38
AQ	5,30	0,420	mg/l	105%	0,88
AP	5,06		mg/l	100%	0,00
AQ	5,20	0,78728	mg/l	103%	0,51
AR			mg/l		
AS			mg/l		
AT	5,41	1,08	mg/l	107%	1,28
AU			mg/l		
AV			mg/l		
AW			mg/l		
AX	5,3	0,99	mg/l	105%	0,88
AY	5,73		mg/l	113%	2,45
AZ	15,2	5,3	mg/l	300%	37,11
BA	5,40	2,2	mg/l	107%	1,24
BB	5,341	0,117	mg/l	106%	1,03
BC			mg/l		

	All results	Outliers excl.	Unit
Mean ± CI(99%)	5,61 ± 0,70	5,32 ± 0,14	mg/l
Recov. ± CI(99%)	110,8 ± 13,9	105,0 ± 2,8	%
SD between labs	1,62	0,32	mg/l
RSD between labs	29,0	5,9	%
n for calculation	39	37	

Result [mg/l]



Recovery [%]



Sample N168B

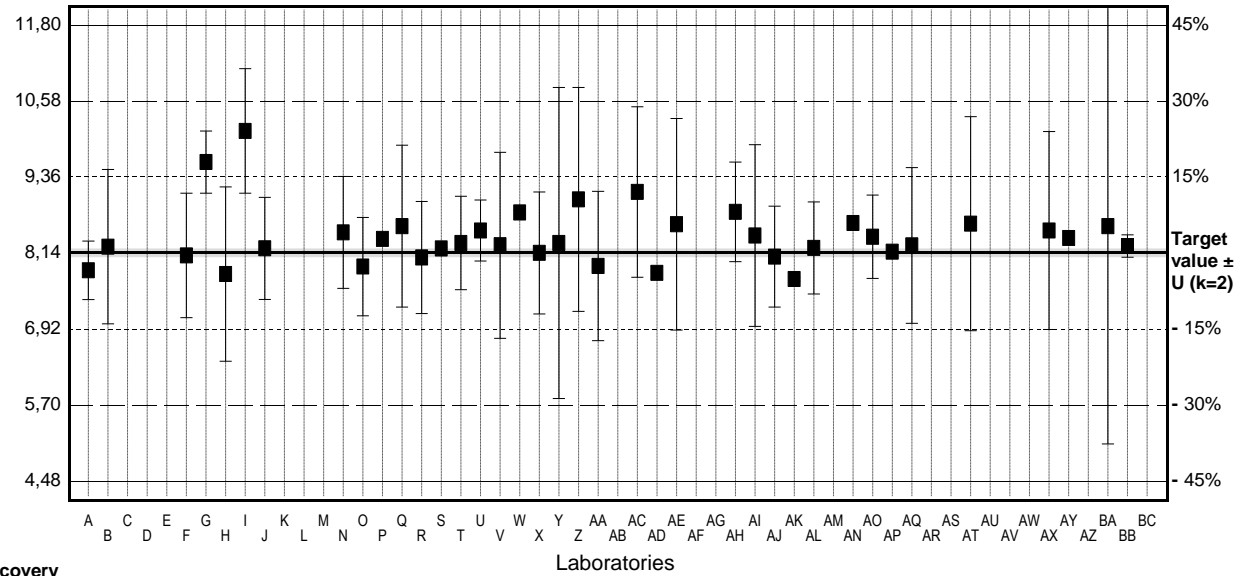
Parameter DOC

Target value ± U (k=2) 8,14 mg/l ± 0,06 mg/l
 IFA result ± U (k=2) 8,26 mg/l ± 0,09 mg/l
 Stability test ± U (k=2) 8,45 mg/l ± 0,10 mg/l

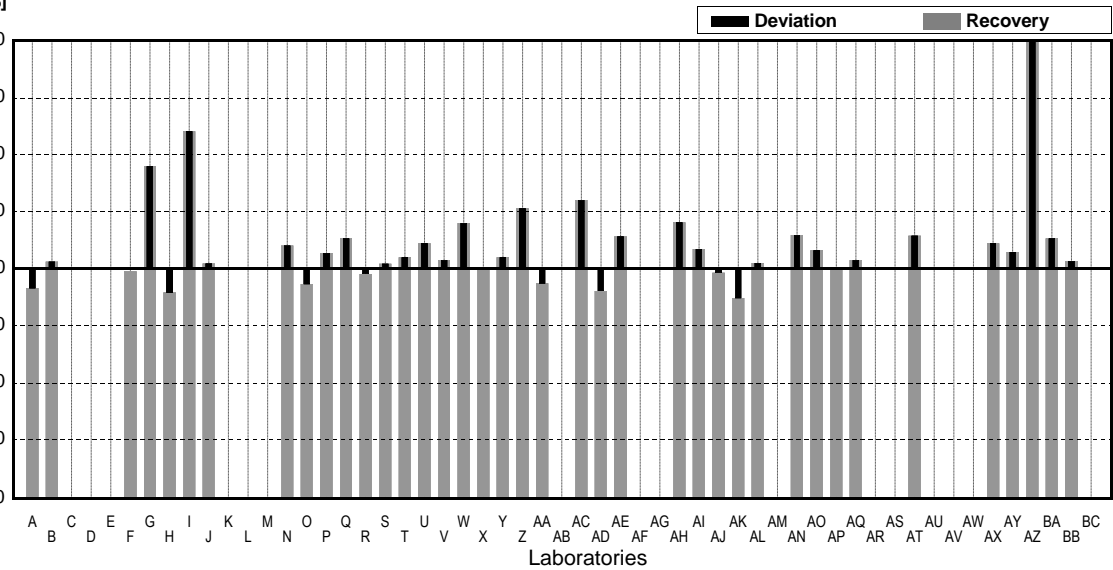
Lab Code	Result	±	Unit	Recovery	z-Score
A	7.86	0.47	mg/l	97%	-0.64
B	8.24	1.24	mg/l	101%	0.23
C			mg/l		
D			mg/l		
E			mg/l		
F	8.1	1.0	mg/l	100%	-0.09
G	9.6 *	0.5	mg/l	118%	3.32
H	7.8	1.4	mg/l	96%	-0.77
I	10.1 *	1.0	mg/l	124%	4.46
J	8.213	0.821	mg/l	101%	0.17
K			mg/l		
L			mg/l		
M			mg/l		
N	8.47	0.9	mg/l	104%	0.75
O	7.92	0.79	mg/l	97%	-0.50
P	8.364		mg/l	103%	0.51
Q	8.57	1.3	mg/l	105%	0.98
R	8.066	0.9	mg/l	99%	-0.17
S	8.21	0.0226	mg/l	101%	0.16
T	8.30	0.75	mg/l	102%	0.36
U	8.5	0.49	mg/l	104%	0.82
V	8.262	1.495	mg/l	101%	0.28
W	8.79	0.035	mg/l	108%	1.48
X	8.14	0.98	mg/l	100%	0.00
Y	8.3	2.5	mg/l	102%	0.36
Z	9.0	1.80	mg/l	111%	1.96
AA	7.93	1.2	mg/l	97%	-0.48
AB			mg/l		
AC	9.12	1.37	mg/l	112%	2.23
AD	7.82	0.1	mg/l	96%	-0.73
AE	8.60	1.7	mg/l	106%	1.05
AF			mg/l		
AG			mg/l		
AH	8.8	0.8	mg/l	108%	1.50
AI	8.419	1.46	mg/l	103%	0.63
AJ	8.08	0.81	mg/l	99%	-0.14
AK	7.72	0.03	mg/l	95%	-0.96
AL	8.22	0.740	mg/l	101%	0.18
AM			mg/l		
AN	8.62		mg/l	106%	1.09
AQ	8.40	0.670	mg/l	103%	0.59
AP	8.16		mg/l	100%	0.05
AQ	8.26	1,25056	mg/l	101%	0.27
AR			mg/l		
AS			mg/l		
AT	8.61	1.72	mg/l	106%	1.07
AU			mg/l		
AV			mg/l		
AW			mg/l		
AX	8.5	1.59	mg/l	104%	0.82
AY	8.38		mg/l	103%	0.55
AZ	17.4 *	6.1	mg/l	214%	21.07
BA	8.57	3.5	mg/l	105%	0.98
BB	8.25	0.18	mg/l	101%	0.25
BC			mg/l		

	All results	Outliers excl.	Unit
Mean ± CI(99%)	8,63 ± 0,66	8,32 ± 0,15	mg/l
Recov. ± CI(99%)	106,0 ± 8,1	102,2 ± 1,8	%
SD between labs	1,51	0,33	mg/l
RSD between labs	17,5	3,9	%
n for calculation	39	36	

Result [mg/l]



Recovery [%]



Sample N168A

Parameter Total P (as PO4)

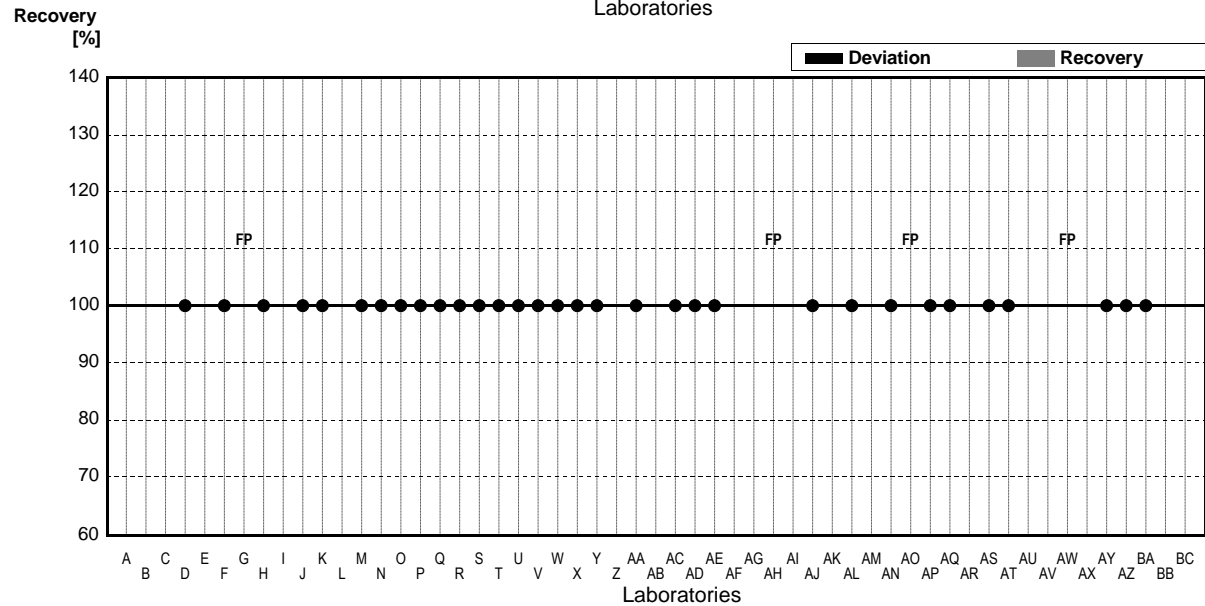
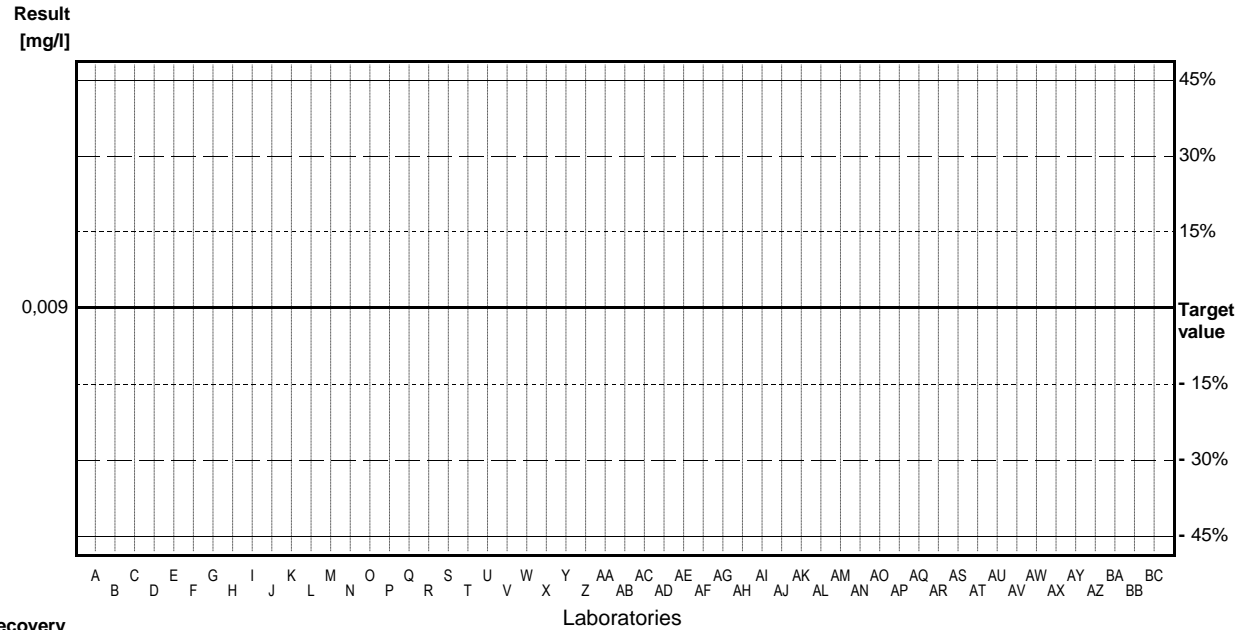
Target value <0,009 mg/l

IFA result <0,009 mg/l

Stability test mg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			mg/l		
B			mg/l		
C			mg/l		
D	0,00150	0,05	mg/l	*	
E			mg/l		
F	<0,009		mg/l	*	
G	0,0180	0,002	mg/l	FP	
H	<0,010		mg/l	*	
I			mg/l		
J	<0,015		mg/l	*	
K	<0,03		mg/l	*	
L			mg/l		
M	<0,02		mg/l	*	
N	<0,0036		mg/l	*	
O	<0,015		mg/l	*	
P	<0,03		mg/l	*	
Q	<0,01		mg/l	*	
R	<0,015		mg/l	*	
S	<0,0150		mg/l	*	
T	<0,006		mg/l	*	
U	<0,02	0,005	mg/l	*	
V	<0,01		mg/l	*	
W	<0,015		mg/l	*	
X	<0,015		mg/l	*	
Y	<0,03		mg/l	*	
Z			mg/l		
AA	<0,013		mg/l	*	
AB			mg/l		
AC	<0,030		mg/l	*	
AD	<0,015	0,001	mg/l	*	
AE	<0,015		mg/l	*	
AF			mg/l		
AG			mg/l		
AH	0,0185	0,0019	mg/l	FP	
AI			mg/l		
AJ	<0,06		mg/l	*	
AK			mg/l		
AL	<0,05		mg/l	*	
AM			mg/l		
AN	<0,02		mg/l	*	
AQ	0,03985	0,0061	mg/l	FP	
AP	<0,15		mg/l	*	
AQ	<0,0153		mg/l	*	
AR			mg/l		
AS	<0,006	0	mg/l	*	
AT	<0,06		mg/l	*	
AU			mg/l		
AV			mg/l		
AW	0,0317	0,00951	mg/l	FP	
AX			mg/l		
AY	<0,01		mg/l	*	
AZ	<0,61		mg/l	*	
BA	<0,02	0,008	mg/l	*	
BB			mg/l		
BC			mg/l		

	All results	Outliers excl.	Unit
Mean ± CI(99%)			mg/l
Recov. ± CI(99%)			%
SD between labs			mg/l
RSD between labs			%
n for calculation			



Sample N168B

Parameter Total P (as PO4)

Target value ± U (k=2) 0,1216 mg/l ± 0,0010 mg/l

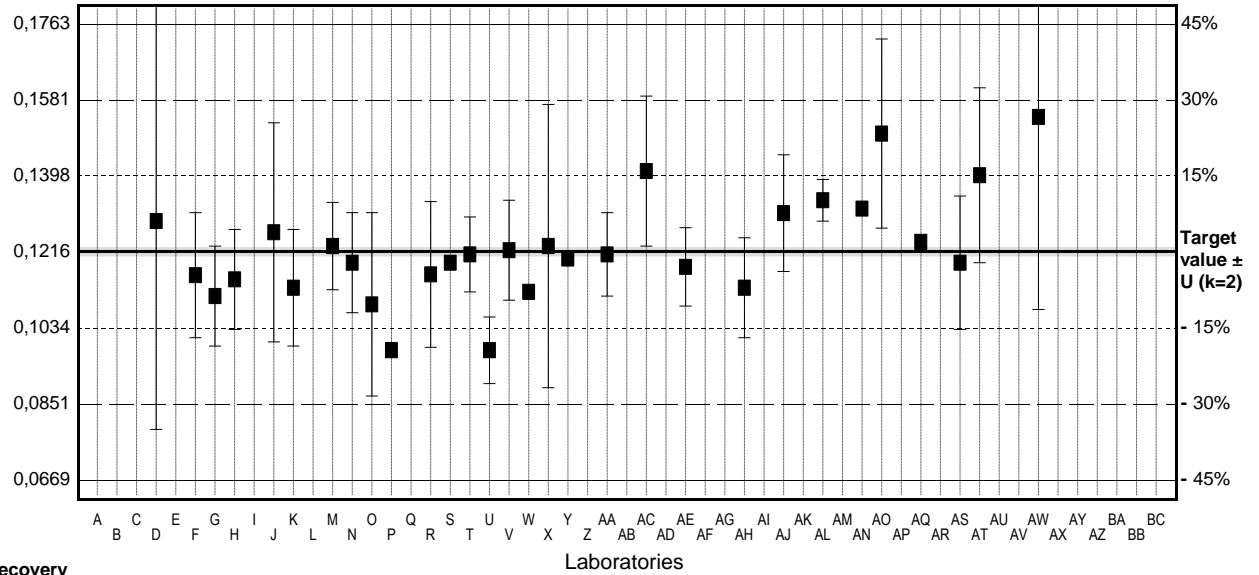
IFA result ± U (k=2) 0,132 mg/l ± 0,019 mg/l

Stability test mg/l

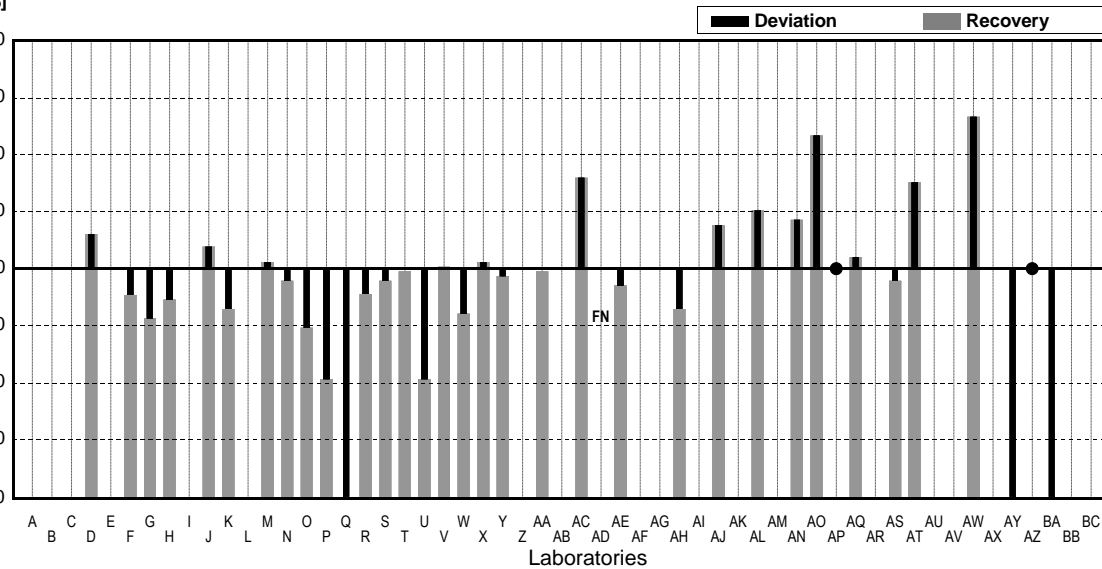
Lab Code	Result	±	Unit	Recovery	z-Score
A			mg/l		
B			mg/l		
C			mg/l		
D	0,129	0,05	mg/l	106%	0,65
E			mg/l		
F	0,116	0,015	mg/l	95%	-0,49
G	0,111	0,012	mg/l	91%	-0,93
H	0,115	0,012	mg/l	95%	-0,58
I			mg/l		
J	0,1263	0,0263	mg/l	104%	0,41
K	0,113	0,014	mg/l	93%	-0,75
L			mg/l		
M	0,123	0,0105	mg/l	101%	0,12
N	0,119	0,012	mg/l	98%	-0,23
O	0,109	0,022	mg/l	90%	-1,10
P	0,098		mg/l	81%	-2,06
Q	0,0410 *	0,0045	mg/l	34%	-7,05
R	0,1162	0,0175	mg/l	96%	-0,47
S	0,119	0,00143	mg/l	98%	-0,23
T	0,121	0,009	mg/l	100%	-0,05
U	0,098	0,008	mg/l	81%	-2,06
V	0,122	0,012	mg/l	100%	0,03
W	0,112	0,001	mg/l	92%	-0,84
X	0,123	0,034	mg/l	101%	0,12
Y	0,120		mg/l	99%	-0,14
Z			mg/l		
AA	0,121	0,01	mg/l	100%	-0,05
AB			mg/l		
AC	0,141	0,018	mg/l	116%	1,70
AD	<0,015	0,001	mg/l	FN	
AE	0,118	0,0094	mg/l	97%	-0,31
AF			mg/l		
AG			mg/l		
AH	0,113	0,012	mg/l	93%	-0,75
AI			mg/l		
AJ	0,1309	0,014	mg/l	108%	0,81
AK			mg/l		
AL	0,134	0,005	mg/l	110%	1,08
AM			mg/l		
AN	0,132		mg/l	109%	0,91
AQ	0,150	0,0227	mg/l	123%	2,48
AP	<0,15		mg/l	*	
AR	0,124		mg/l	102%	0,21
AS	0,119	0,016	mg/l	98%	-0,23
AT	0,140	0,021	mg/l	115%	1,61
AU			mg/l		
AV			mg/l		
AW	0,154 *	0,0462	mg/l	127%	2,83
AX			mg/l		
AY	0,0398 *		mg/l	33%	-7,16
AZ	<0,61		mg/l	*	
BA	0,0483 *	0,021	mg/l	40%	-6,41
BB			mg/l		
BC			mg/l		

	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,1150 ± 0,0125	0,1212 ± 0,0059	mg/l
Recov. ± CI(99%)	94,6 ± 10,3	99,6 ± 4,9	%
SD between labs	0,0262	0,0115	mg/l
RSD between labs	22,7	9,5	%
n for calculation	33	29	

Result [mg/l]



Recovery [%]

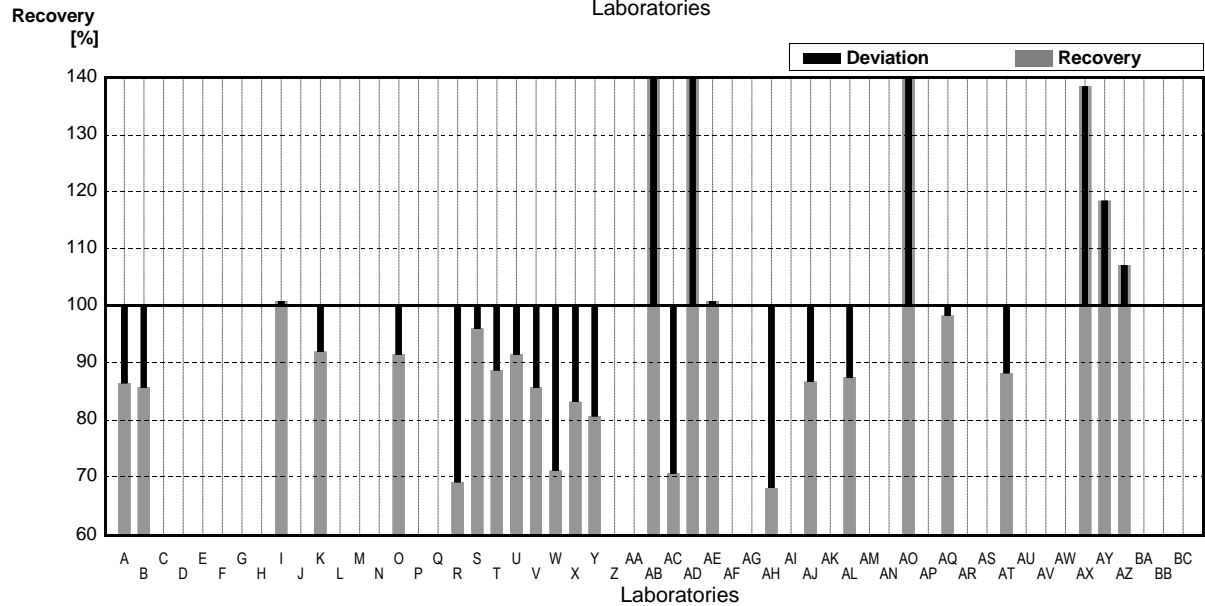
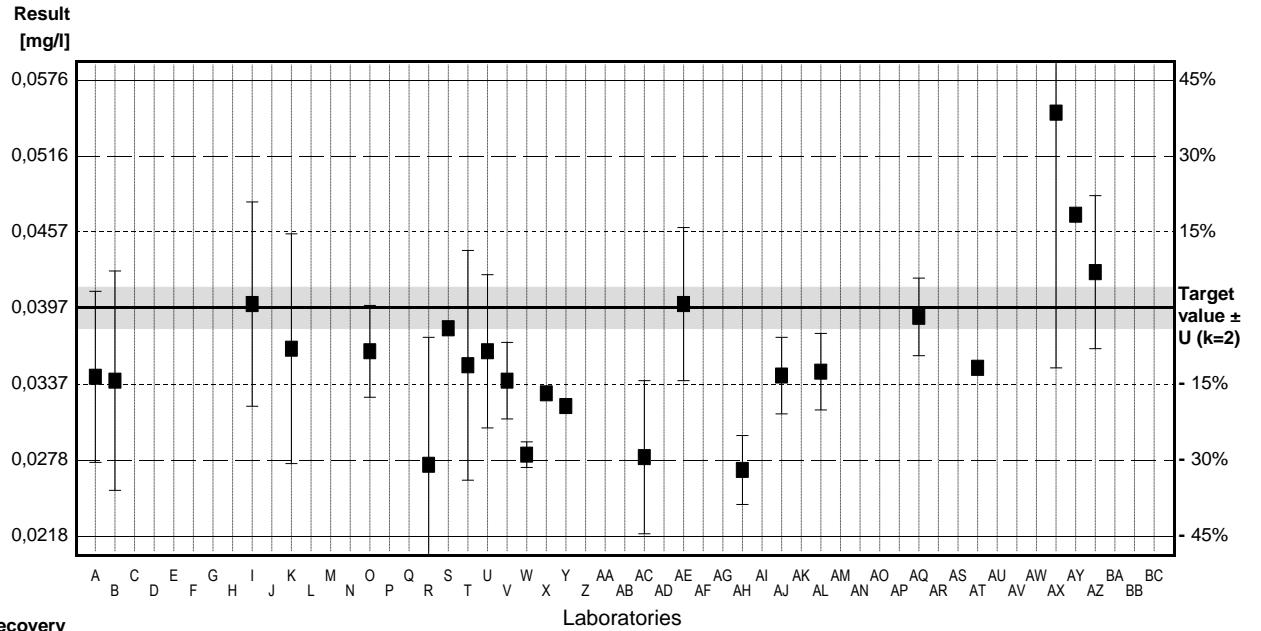


Sample N168A
Parameter Cyanide

Target value ± U (k=2) 0,0397 mg/l ± 0,0016 mg/l
 IFA result ± U (k=2) 0,0410 mg/l ± 0,0035 mg/l
 Stability test ± U (k=2) 0,0429 mg/l ± 0,0036 mg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A	0,0343	0,0067	mg/l	86%	-0,85
B	0,0340	0,0086	mg/l	86%	-0,90
C			mg/l		
D			mg/l		
E			mg/l		
F			mg/l		
G			mg/l		
H			mg/l		
I	0,0400	0,0080	mg/l	101%	0,05
J	n.b.		mg/l		
K	0,0365	0,009	mg/l	92%	-0,50
L			mg/l		
M			mg/l		
N			mg/l		
O	0,0363	0,0036	mg/l	91%	-0,54
P			mg/l		
Q			mg/l		
R	0,0274	0,01	mg/l	69%	-1,94
S	0,0381	0,00048	mg/l	96%	-0,25
T	0,0352	0,009	mg/l	89%	-0,71
U	0,0363	0,006	mg/l	91%	-0,54
V	0,0340	0,003	mg/l	86%	-0,90
W	0,0282	0,001	mg/l	71%	-1,81
X	0,0330		mg/l	83%	-1,05
Y	0,0320		mg/l	81%	-1,21
Z			mg/l		
AA			mg/l		
AB	42,7 *	6	mg/l	107557%	6716,04
AC	0,0280	0,006	mg/l	71%	-1,84
AD	0,060 *	0,01	mg/l	151%	3,20
AE	0,0400	0,0060	mg/l	101%	0,05
AF			mg/l		
AG			mg/l		
AH	0,0270	0,0027	mg/l	68%	-2,00
AI			mg/l		
AJ	0,0344	0,003	mg/l	87%	-0,83
AK			mg/l		
AL	0,0347	0,003	mg/l	87%	-0,79
AM			mg/l		
AN			mg/l		
AQ	43,30 *	4,330	mg/l	109068%	6810,50
AP			mg/l		
AQ	0,0390	0,00304	mg/l	98%	-0,11
AR			mg/l		
AS			mg/l		
AT	0,0350		mg/l	88%	-0,74
AU			mg/l		
AV			mg/l		
AW			mg/l		
AX	0,055 *	0,020	mg/l	139%	2,41
AY	0,0470		mg/l	118%	1,15
AZ	0,0425	0,006	mg/l	107%	0,44
BA			mg/l		
BB			mg/l		
BC			mg/l		

	All results	Outliers excl.	Unit
Mean ± CI(99%)	3,3418 ± 6,3883	0,0351 ± 0,0030	mg/l
Recov. ± CI(99%)	8417,7 ± 16091,	88,5 ± 7,5	%
SD between labs	11,6754	0,0049	mg/l
RSD between labs	349,4	14,1	%
n for calculation	26	22	

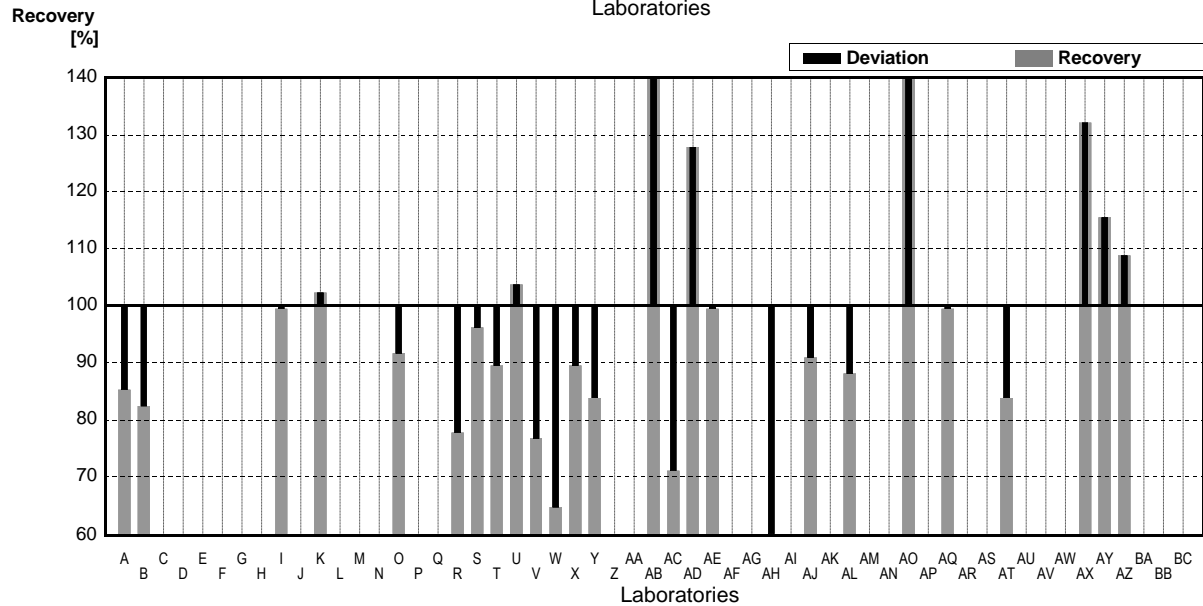
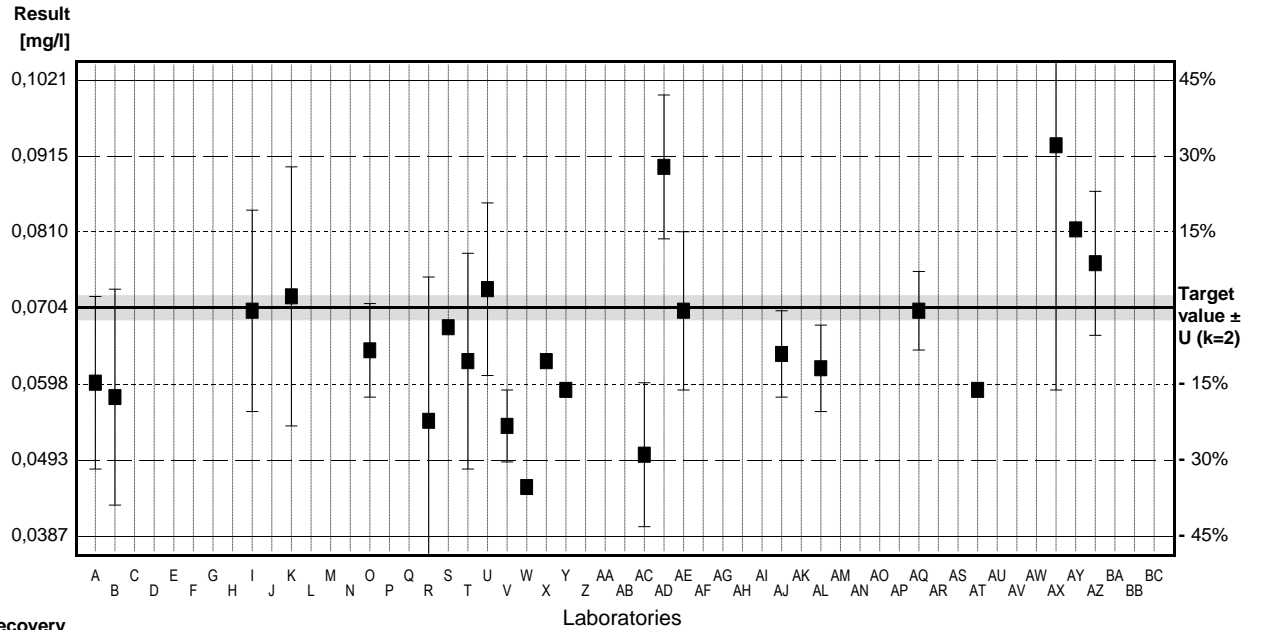


Sample N168B
Parameter Cyanide

Target value ± U (k=2) 0,0704 mg/l ± 0,0017 mg/l
 IFA result ± U (k=2) 0,071 mg/l ± 0,006 mg/l
 Stability test ± U (k=2) 0,074 mg/l ± 0,006 mg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A	0,060	0,012	mg/l	85%	-0,92
B	0,0580	0,015	mg/l	82%	-1,10
C			mg/l		
D			mg/l		
E			mg/l		
F			mg/l		
G			mg/l		
H			mg/l		
I	0,070	0,014	mg/l	99%	-0,04
J	n.b.		mg/l		
K	0,072	0,018	mg/l	102%	0,14
L			mg/l		
M			mg/l		
N			mg/l		
O	0,0645	0,0065	mg/l	92%	-0,52
P			mg/l		
Q			mg/l		
R	0,0547	0,02	mg/l	78%	-1,39
S	0,0677	0,00054	mg/l	96%	-0,24
T	0,063	0,015	mg/l	89%	-0,66
U	0,073	0,012	mg/l	104%	0,23
V	0,054	0,005	mg/l	77%	-1,46
W	0,0455	0,0002	mg/l	65%	-2,21
X	0,0630		mg/l	89%	-0,66
Y	0,059		mg/l	84%	-1,01
Z			mg/l		
AA			mg/l		
AB	66,3 *	9	mg/l	94176%	5879,76
AC	0,050	0,01	mg/l	71%	-1,81
AD	0,090	0,01	mg/l	128%	1,74
AE	0,0700	0,011	mg/l	99%	-0,04
AF			mg/l		
AG			mg/l		
AH	0,0340	0,0034	mg/l	48%	-3,23
AI			mg/l		
AJ	0,0640	0,006	mg/l	91%	-0,57
AK			mg/l		
AL	0,0620	0,006	mg/l	88%	-0,75
AM			mg/l		
AN			mg/l		
AQ	74,86 *	7,486	mg/l	106335%	6639,70
AP			mg/l		
AQ	0,0700	0,00546	mg/l	99%	-0,04
AR			mg/l		
AS			mg/l		
AT	0,059		mg/l	84%	-1,01
AU			mg/l		
AV			mg/l		
AW			mg/l		
AX	0,093	0,034	mg/l	132%	2,01
AY	0,0813		mg/l	115%	0,97
AZ	0,0766	0,010	mg/l	109%	0,55
BA			mg/l		
BB			mg/l		
BC			mg/l		

	All results	Outliers excl.	Unit
Mean ± CI(99%)	5,4890 ± 10,505	0,0648 ± 0,0075	mg/l
Recov. ± CI(99%)	7796,9 ± 14923,	92,0 ± 10,7	%
SD between labs	19,2005	0,0131	mg/l
RSD between labs	349,8	20,3	%
n for calculation	26	24	



Sample N168A
Parameter Silicon

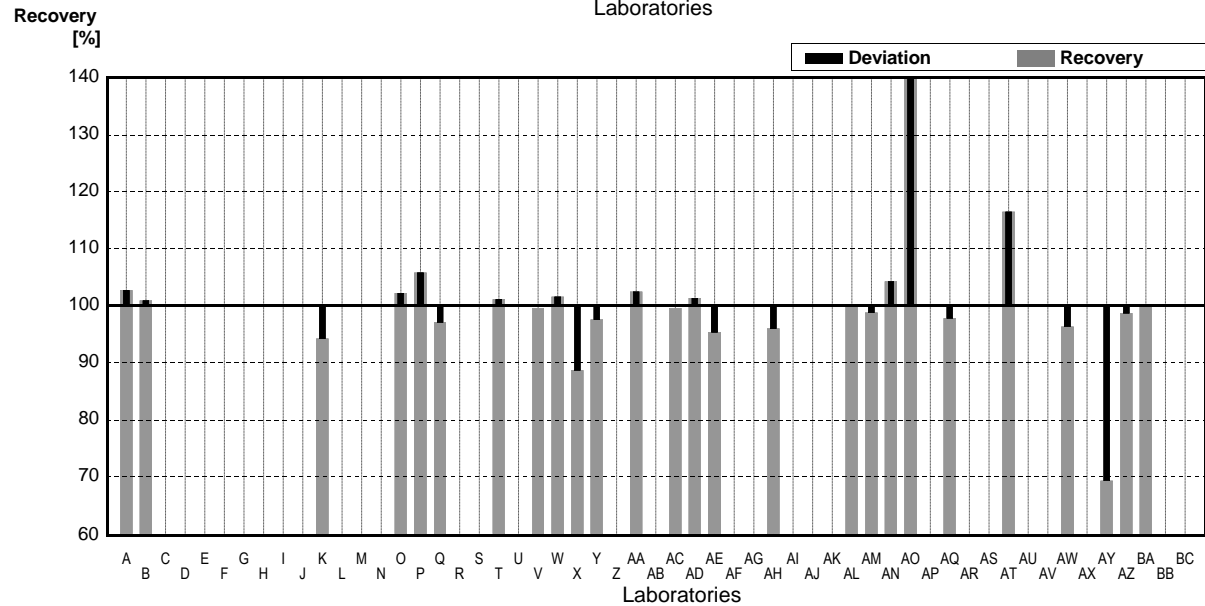
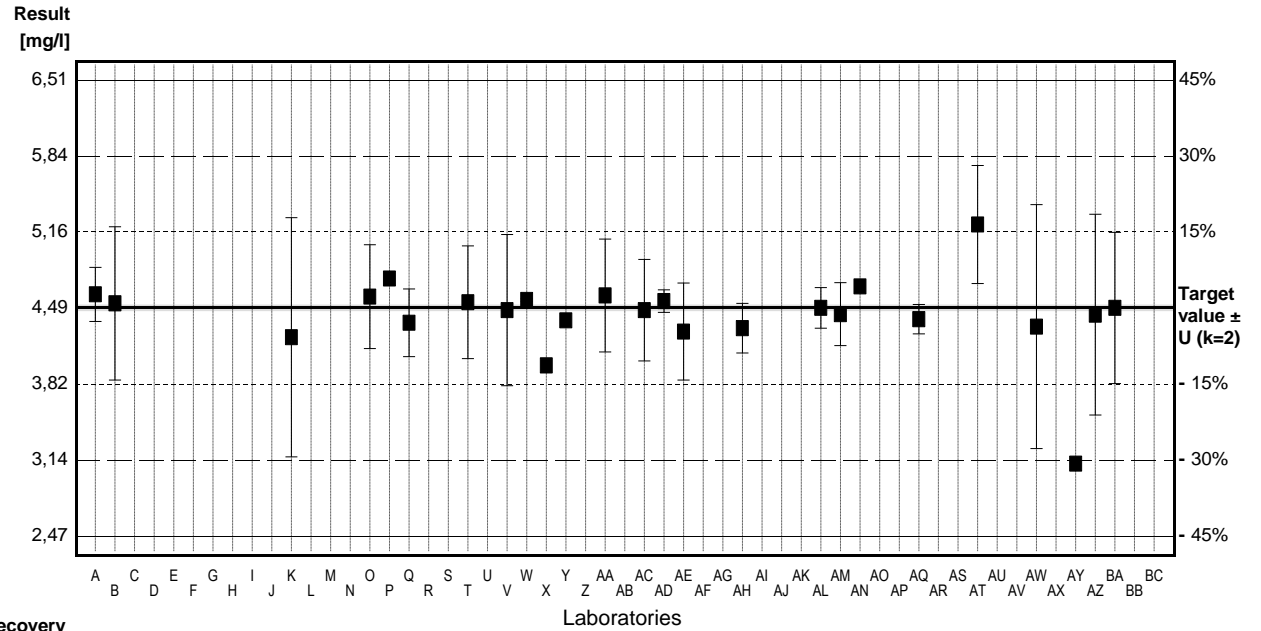
Target value ± U (k=2) 4,49 mg/l ± 0,03 mg/l

IFA result ± U (k=2) 4,44 mg/l ± 0,28 mg/l

Stability test mg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A	4.61	0.24	mg/l	103%	0.58
B	4.53	0.679	mg/l	101%	0.19
C			mg/l		
D			mg/l		
E			mg/l		
F			mg/l		
G			mg/l		
H			mg/l		
I			mg/l		
J	n.b.		mg/l		
K	4.23	1.06	mg/l	94%	-1.26
L			mg/l		
M			mg/l		
N			mg/l		
O	4.59	0.46	mg/l	102%	0.48
P	4.75		mg/l	106%	1.26
Q	4.358	0.3	mg/l	97%	-0.64
R			mg/l		
S			mg/l		
T	4.54	0.50	mg/l	101%	0.24
U			mg/l		
V	4.47	0.67	mg/l	100%	-0.10
W	4.56	0.012	mg/l	102%	0.34
X	3.98		mg/l	89%	-2.47
Y	4.38		mg/l	98%	-0.53
Z			mg/l		
AA	4.60	0.5	mg/l	102%	0.53
AB			mg/l		
AC	4.47	0.45	mg/l	100%	-0.10
AD	4.55	0.1	mg/l	101%	0.29
AE	4.28	0.43	mg/l	95%	-1.02
AF			mg/l		
AG			mg/l		
AH	4.31	0.22	mg/l	96%	-0.87
AI			mg/l		
AJ			mg/l		
AK			mg/l		
AL	4.49	0.180	mg/l	100%	0.00
AM	4.435	0.279	mg/l	99%	-0.27
AN	4.68		mg/l	104%	0.92
AQ	9.10 *	1.37	mg/l	203%	22.32
AP			mg/l		
AR	4.39	0.13	mg/l	98%	-0.48
AS			mg/l		
AT	5.229 *	0.5229	mg/l	116%	3.58
AU			mg/l		
AV			mg/l		
AW	4.324	1.081	mg/l	96%	-0.80
AX			mg/l		
AY	3.11 *		mg/l	69%	-6.68
AZ	4.43	0.89	mg/l	99%	-0.29
BA	4.49	0.67	mg/l	100%	0.00
BB			mg/l		
BC			mg/l		

	All results	Outliers excl.	Unit
Mean ± CI(99%)	4,61 ± 0,54	4,45 ± 0,10	mg/l
Recov. ± CI(99%)	102,7 ± 11,9	99,2 ± 2,2	%
SD between labs	0,98	0,17	mg/l
RSD between labs	21,2	3,7	%
n for calculation	26	23	



Sample N168B

Parameter Silicon

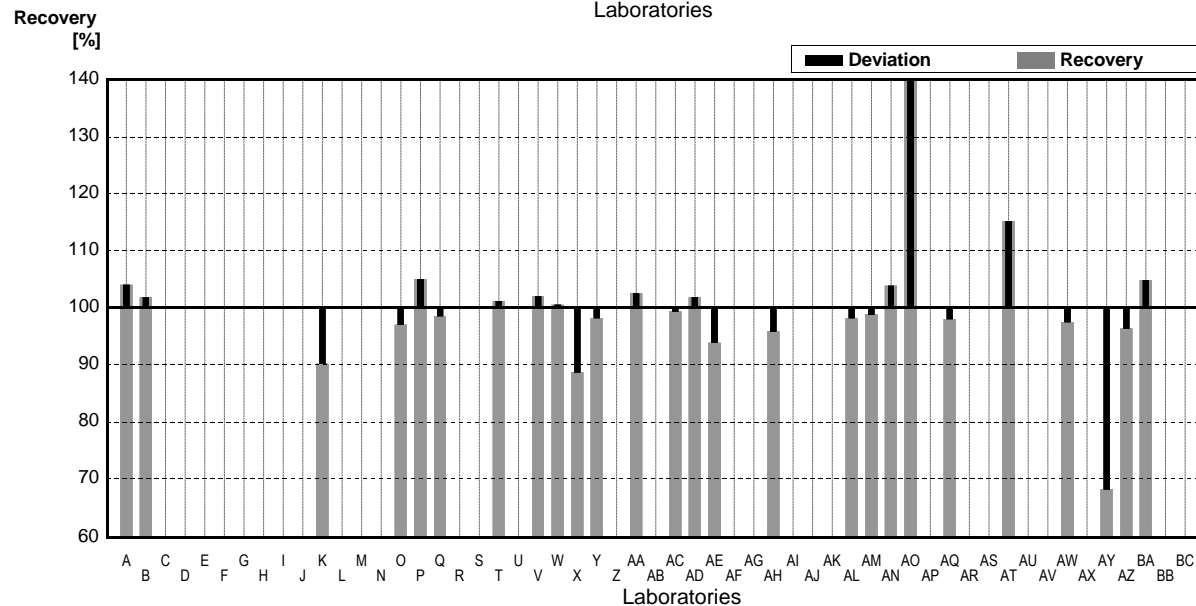
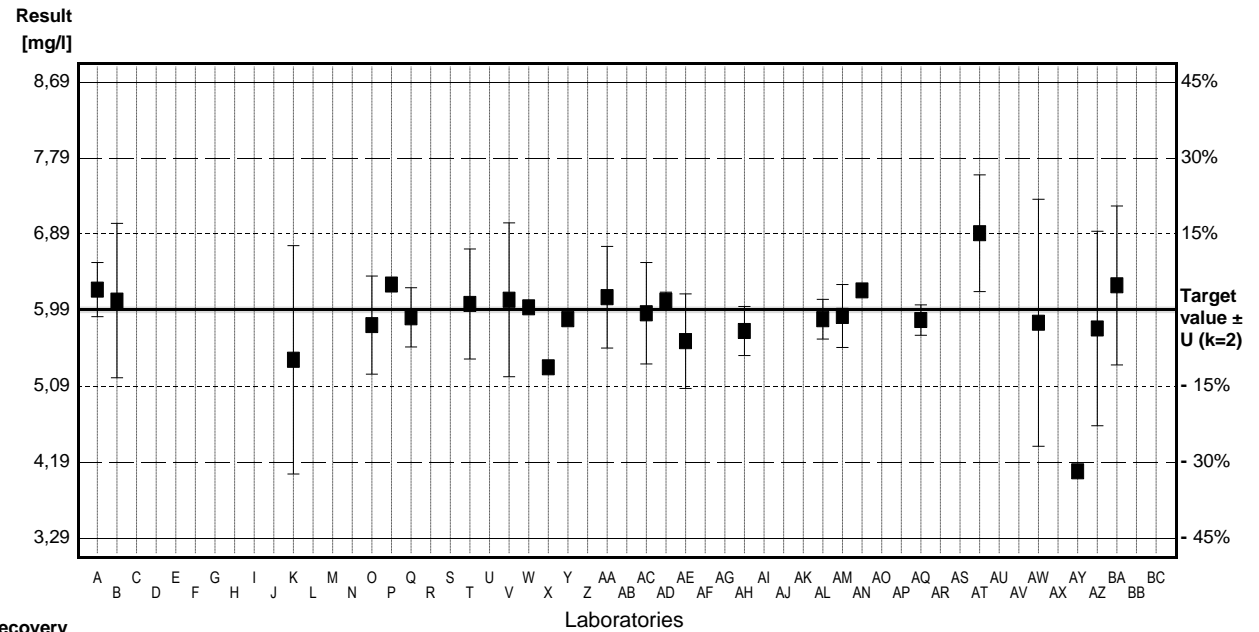
Target value ± U (k=2) 5,99 mg/l ± 0,03 mg/l

IFA result ± U (k=2) 5,9 mg/l ± 0,4 mg/l

Stability test mg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A	6,23	0,32	mg/l	104%	0,87
B	6,1	0,913	mg/l	102%	0,40
C			mg/l		
D			mg/l		
E			mg/l		
F			mg/l		
G			mg/l		
H			mg/l		
I			mg/l		
J	n.b.		mg/l		
K	5,40	1,35	mg/l	90%	-2,14
L			mg/l		
M			mg/l		
N			mg/l		
O	5,81	0,58	mg/l	97%	-0,65
P	6,29		mg/l	105%	1,09
Q	5,902	0,35	mg/l	99%	-0,32
R			mg/l		
S			mg/l		
T	6,06	0,65	mg/l	101%	0,25
U			mg/l		
V	6,11	0,91	mg/l	102%	0,44
W	6,02	0,015	mg/l	101%	0,11
X	5,31		mg/l	89%	-2,47
Y	5,88		mg/l	98%	-0,40
Z			mg/l		
AA	6,14	0,6	mg/l	103%	0,54
AB			mg/l		
AC	5,95	0,60	mg/l	99%	-0,15
AD	6,1	0,1	mg/l	102%	0,40
AE	5,62	0,56	mg/l	94%	-1,34
AF			mg/l		
AG			mg/l		
AH	5,74	0,29	mg/l	96%	-0,91
AI			mg/l		
AJ			mg/l		
AK			mg/l		
AL	5,88	0,235	mg/l	98%	-0,40
AM	5,918	0,372	mg/l	99%	-0,26
AN	6,22		mg/l	104%	0,83
AQ	12,2 *	1,83	mg/l	204%	22,54
AP			mg/l		
AQ	5,87	0,18	mg/l	98%	-0,44
AR			mg/l		
AS			mg/l		
AT	6,897 *	0,6897	mg/l	115%	3,29
AU			mg/l		
AV			mg/l		
AW	5,838	1,460	mg/l	97%	-0,55
AX			mg/l		
AY	4,08 *		mg/l	68%	-6,93
AZ	5,77	1,15	mg/l	96%	-0,80
BA	6,28	0,94	mg/l	105%	1,05
BB			mg/l		
BC			mg/l		

	All results	Outliers excl.	Unit
Mean ± CI(99%)	6,14 ± 0,73	5,93 ± 0,15	mg/l
Recov. ± CI(99%)	102,5 ± 12,1	99,0 ± 2,5	%
SD between labs	1,33	0,26	mg/l
RSD between labs	21,6	4,3	%
n for calculation	26	23	



Sample N168A

Parameter Fluoride

Target value ± U (k=2) 0,701 mg/l ± 0,018 mg/l

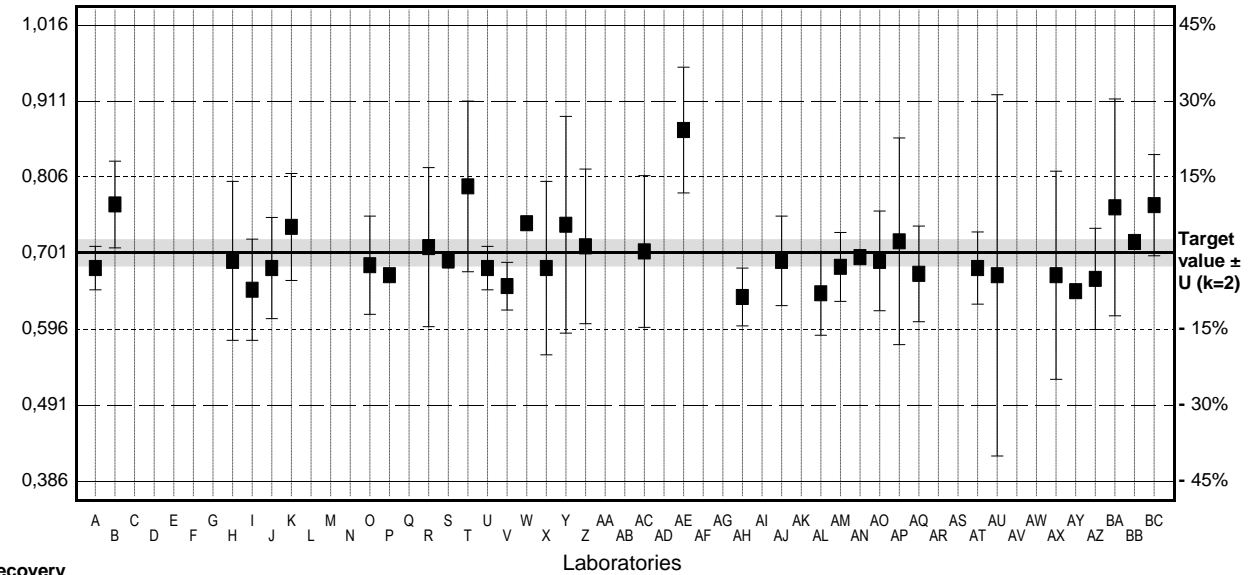
IFA result ± U (k=2) 0,704 mg/l ± 0,012 mg/l

Stability test mg/l

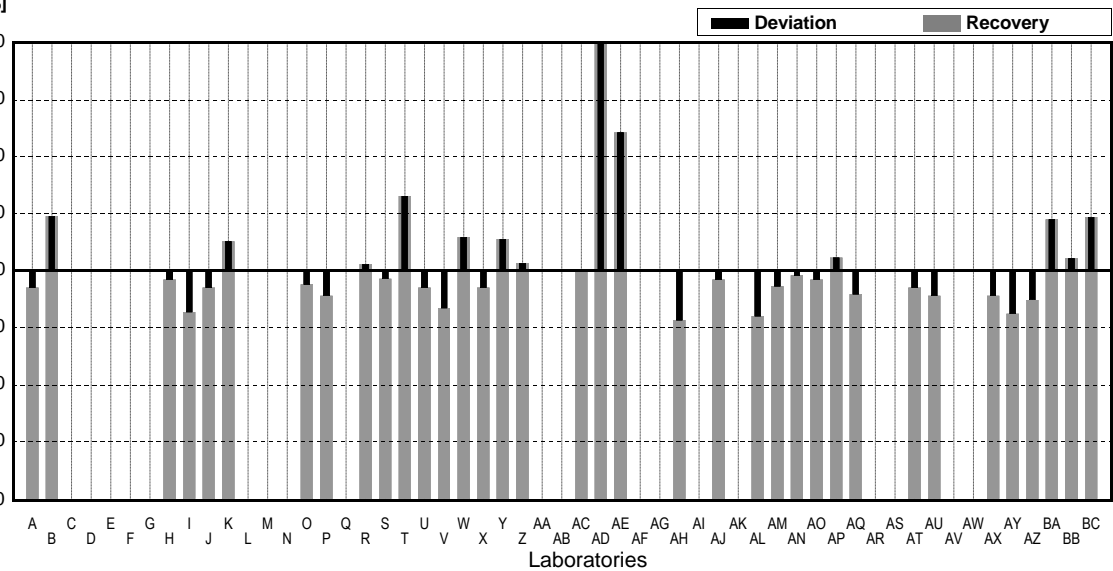
Lab Code	Result	±	Unit	Recovery	z-Score
A	0.68	0.03	mg/l	97%	-0.43
B	0.768	0.060	mg/l	110%	1.37
C			mg/l		
D			mg/l		
E			mg/l		
F			mg/l		
G			mg/l		
H	0.69	0.11	mg/l	98%	-0.22
I	0.65	0.07	mg/l	93%	-1.04
J	0.68	0.07	mg/l	97%	-0.43
K	0.737	0.074	mg/l	105%	0.73
L			mg/l		
M			mg/l		
N			mg/l		
O	0.684	0.068	mg/l	98%	-0.35
P	0.67		mg/l	96%	-0.63
Q			mg/l		
R	0.709	0.11	mg/l	101%	0.16
S	0.691	0.0111	mg/l	99%	-0.20
T	0.793 *	0.118	mg/l	113%	1.87
U	0.68	0.03	mg/l	97%	-0.43
V	0.655	0.033	mg/l	93%	-0.94
W	0.742	0.009	mg/l	106%	0.84
X	0.68	0.12	mg/l	97%	-0.43
Y	0.74	0.15	mg/l	106%	0.79
Z	0.71	0.107	mg/l	101%	0.18
AA			mg/l		
AB			mg/l		
AC	0.703	0.105	mg/l	100%	0.04
AD	1.53 *	0.1	mg/l	218%	16.89
AE	0.871 *	0.087	mg/l	124%	3.46
AF			mg/l		
AG			mg/l		
AH	0.64	0.04	mg/l	91%	-1.24
AI			mg/l		
AJ	0.69	0.062	mg/l	98%	-0.22
AK			mg/l		
AL	0.645	0.058	mg/l	92%	-1.14
AM	0.6817	0.0477	mg/l	97%	-0.39
AN	0.695		mg/l	99%	-0.12
AQ	0.69	0.069	mg/l	98%	-0.22
AP	0.717	0.143	mg/l	102%	0.33
AQ	0.672	0.06626	mg/l	96%	-0.59
AR			mg/l		
AS			mg/l		
AT	0.68	0.05	mg/l	97%	-0.43
AU	0.67	0.25	mg/l	96%	-0.63
AV			mg/l		
AW			mg/l		
AX	0.67	0.144	mg/l	96%	-0.63
AY	0.648		mg/l	92%	-1.08
AZ	0.665	0.07	mg/l	95%	-0.73
BA	0.764	0.15	mg/l	109%	1.28
BB	0.716	0.001	mg/l	102%	0.31
BC	0.767	0.07	mg/l	109%	1.35

	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,724 ± 0,066	0,693 ± 0,017	mg/l
Recov. ± CI(99%)	103,3 ± 9,5	98,9 ± 2,4	%
SD between labs	0,146	0,035	mg/l
RSD between labs	20,2	5,0	%
n for calculation	36	33	

Result [mg/l]



Recovery [%]



Sample N168B

Parameter Fluoride

Target value ± U (k=2) 0,270 mg/l ± 0,007 mg/l

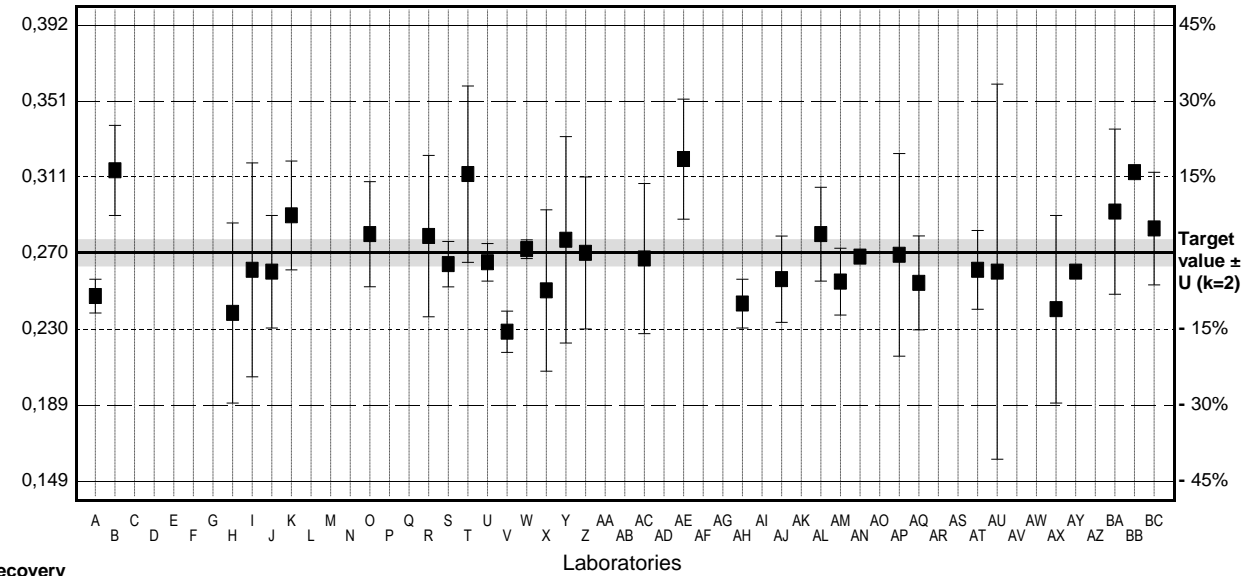
IFA result ± U (k=2) 0,273 mg/l ± 0,006 mg/l

Stability test mg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A	0,247	0,009	mg/l	91%	-1,22
B	0,314	0,024	mg/l	116%	2,33
C			mg/l		
D			mg/l		
E			mg/l		
F			mg/l		
G			mg/l		
H	0,238	0,048	mg/l	88%	-1,69
I	0,261	0,057	mg/l	97%	-0,48
J	0,260	0,03	mg/l	96%	-0,53
K	0,290	0,029	mg/l	107%	1,06
L			mg/l		
M			mg/l		
N			mg/l		
O	0,280	0,028	mg/l	104%	0,53
P	<0,5		mg/l	•	
Q			mg/l		
R	0,279	0,043	mg/l	103%	0,48
S	0,264	0,0121	mg/l	98%	-0,32
T	0,312	0,047	mg/l	116%	2,22
U	0,265	0,01	mg/l	98%	-0,26
V	0,228	0,011	mg/l	84%	-2,22
W	0,272	0,005	mg/l	101%	0,11
X	0,250	0,043	mg/l	93%	-1,06
Y	0,277	0,055	mg/l	103%	0,37
Z	0,270	0,0405	mg/l	100%	0,00
AA			mg/l		
AB			mg/l		
AC	0,267	0,04	mg/l	99%	-0,16
AD	n.a.	0,1	mg/l		
AE	0,320	0,032	mg/l	119%	2,65
AF			mg/l		
AG			mg/l		
AH	0,243	0,013	mg/l	90%	-1,43
AI			mg/l		
AJ	0,256	0,023	mg/l	95%	-0,74
AK			mg/l		
AL	0,280	0,025	mg/l	104%	0,53
AM	0,2547	0,0178	mg/l	94%	-0,81
AN	0,268		mg/l	99%	-0,11
AQ	<0,50		mg/l	•	
AP	0,269	0,054	mg/l	100%	-0,05
AQ	0,254	0,02504	mg/l	94%	-0,85
AR			mg/l		
AS			mg/l		
AT	0,261	0,021	mg/l	97%	-0,48
AU	0,260	0,1	mg/l	96%	-0,53
AV			mg/l		
AW			mg/l		
AX	0,240	0,05	mg/l	89%	-1,59
AY	0,260		mg/l	96%	-0,53
AZ	<0,50		mg/l	•	
BA	0,292	0,044	mg/l	108%	1,16
BB	0,313	0,001	mg/l	116%	2,28
BC	0,283	0,03	mg/l	105%	0,69

	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,270 ± 0,011	0,270 ± 0,011	mg/l
Recov. ± CI(99%)	99,9 ± 4,1	99,9 ± 4,1	%
SD between labs	0,023	0,023	mg/l
RSD between labs	8,4	8,4	%
n for calculation	32	32	

Result [mg/l]



Recovery [%]

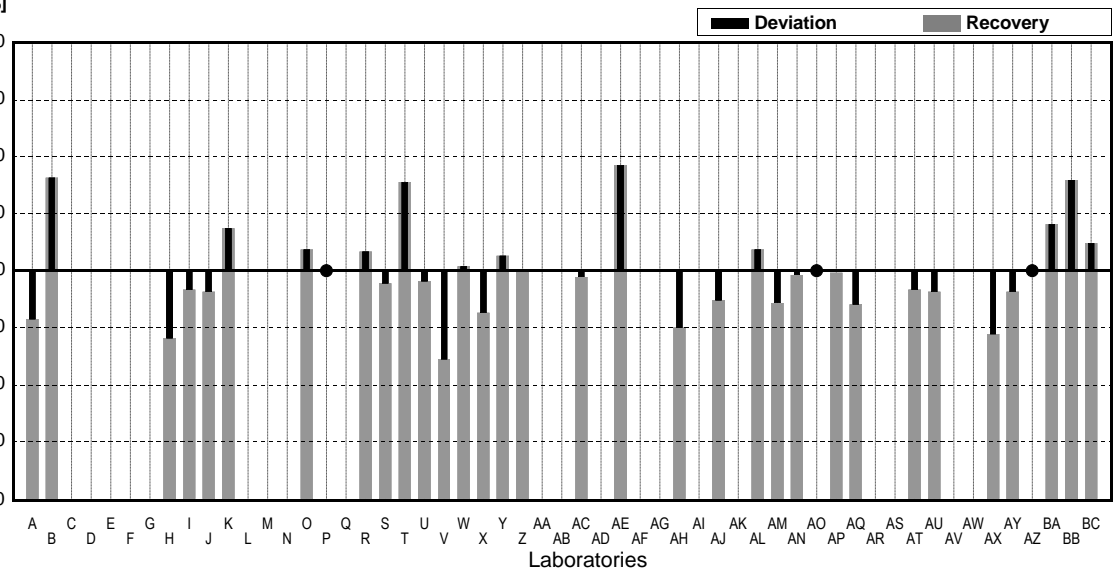


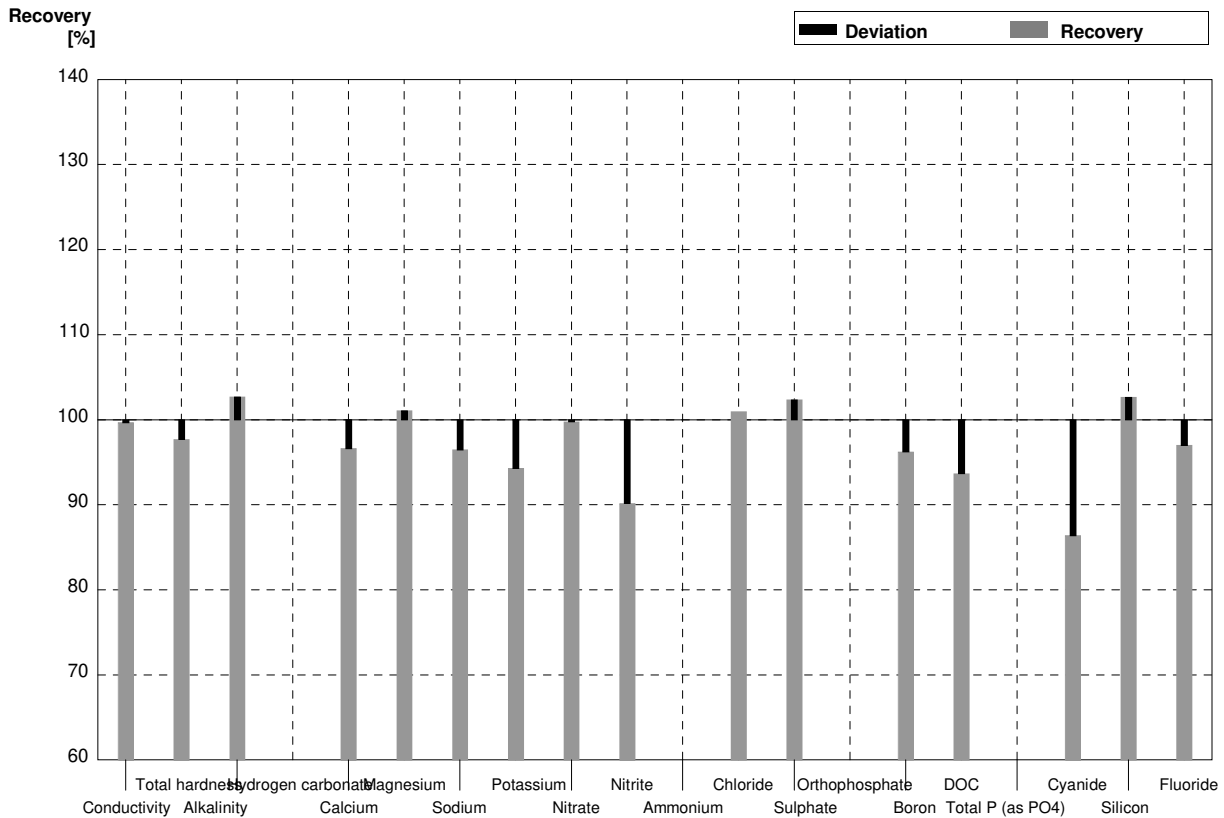
Illustration of Results Laboratory Oriented Part

Round N168
Major Ions

Sample Dispatch: 4 September 2023

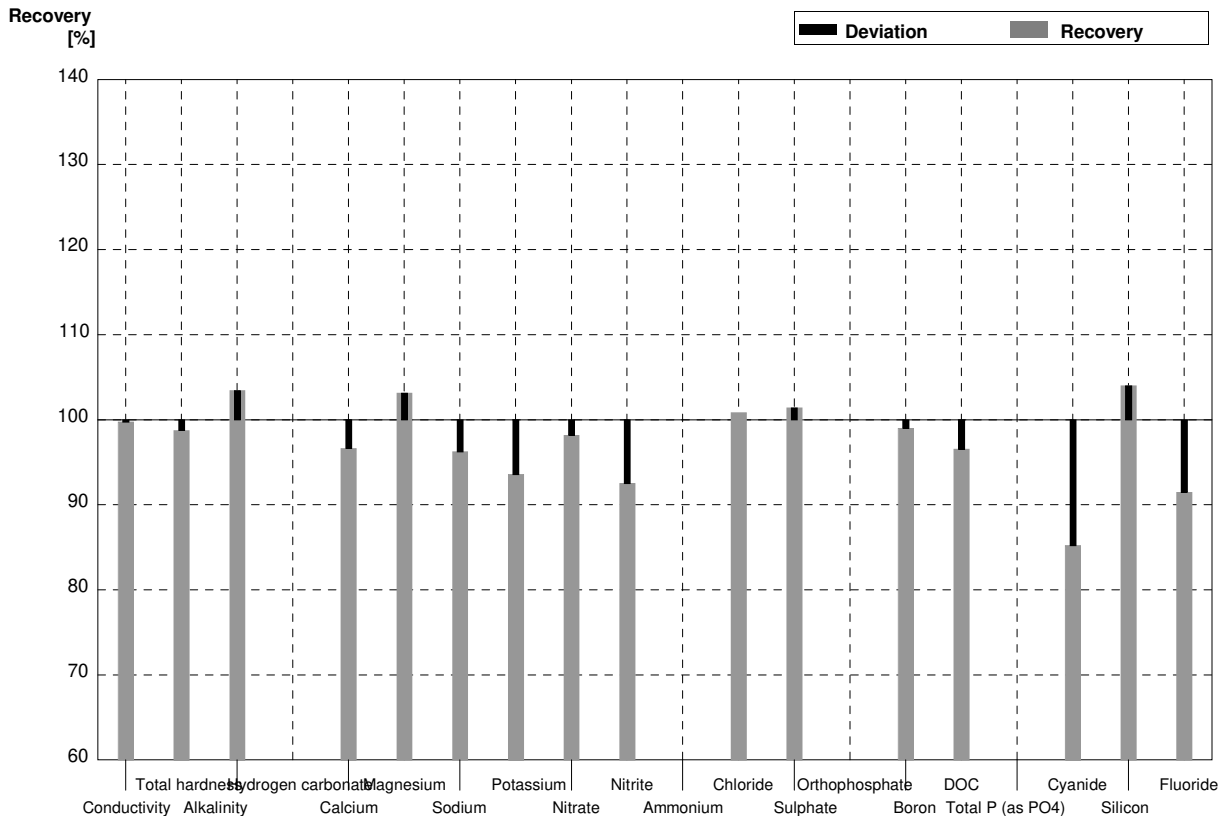
Sample N168A
Laboratory A

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	612	15	µS/cm	100%
Total hardness	2,60	0,03	2,54	0,25	mmol/l	98%
Alkalinity	3,33	0,04	3,42	0,17	mmol/l	103%
Hydrogen carbonate	200	3			mg/l	
Calcium	73,9	1,2	71,4	1,7	mg/l	97%
Magnesium	18,4	0,3	18,6	1,7	mg/l	101%
Sodium	18,14	0,13	17,5	1,23	mg/l	96%
Potassium	8,07	0,05	7,61	1,03	mg/l	94%
Nitrate	43,8	1,1	43,7	6,3	mg/l	100%
Nitrite	0,0448	0,0004	0,0404	0,0019	mg/l	90%
Ammonium	0,0303	0,0047			mg/l	
Chloride	41,0	1,5	41,4	3,5	mg/l	101%
Sulphate	46,6	0,9	47,7	5,4	mg/l	102%
Orthophosphate	<0,009				mg/l	
Boron	0,1403	0,0013	0,135	0,010	mg/l	96%
DOC	5,06	0,05	4,74	0,29	mg/l	94%
Total P (as PO4)	<0,009				mg/l	
Cyanide	0,0397	0,0016	0,0343	0,0067	mg/l	86%
Silicon	4,49	0,03	4,61	0,24	mg/l	103%
Fluoride	0,701	0,018	0,68	0,03	mg/l	97%



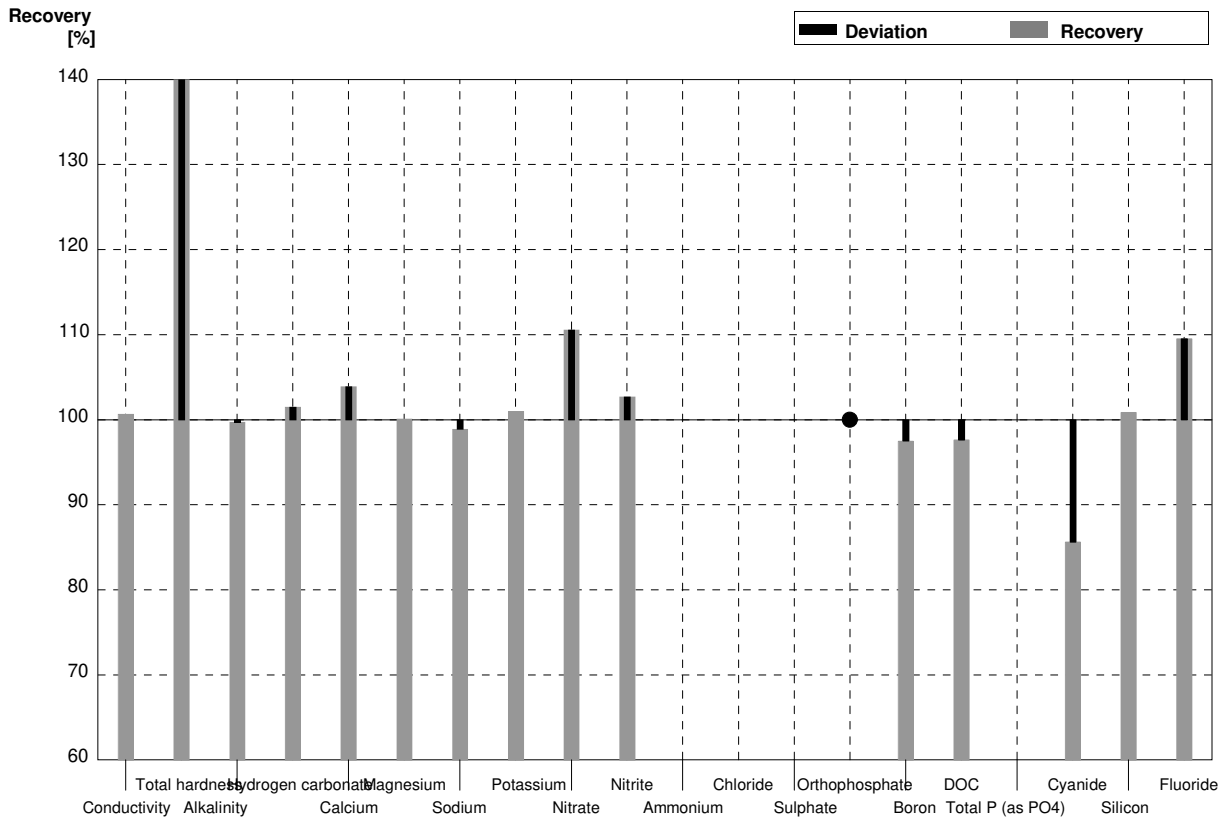
Sample N168B
Laboratory A

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	408	34	µS/cm	100%
Total hardness	1,285	0,015	1,269	0,12	mmol/l	99%
Alkalinity	2,04	0,03	2,11	0,11	mmol/l	103%
Hydrogen carbonate	121,4	1,5			mg/l	
Calcium	35,8	0,5	34,6	0,84	mg/l	97%
Magnesium	9,54	0,18	9,84	0,92	mg/l	103%
Sodium	29,2	0,3	28,1	1,96	mg/l	96%
Potassium	5,76	0,03	5,39	0,73	mg/l	94%
Nitrate	11,0	0,3	10,8	1,5	mg/l	98%
Nitrite	0,0254	0,0003	0,0235	0,0011	mg/l	93%
Ammonium	<0,01				mg/l	
Chloride	35,1	0,5	35,4	3,0	mg/l	101%
Sulphate	34,9	0,7	35,4	4,0	mg/l	101%
Orthophosphate	0,0829	0,0009			mg/l	
Boron	0,1010	0,0007	0,100	0,0075	mg/l	99%
DOC	8,14	0,06	7,86	0,47	mg/l	97%
Total P (as PO4)	0,1216	0,0010			mg/l	
Cyanide	0,0704	0,0017	0,060	0,012	mg/l	85%
Silicon	5,99	0,03	6,23	0,32	mg/l	104%
Fluoride	0,270	0,007	0,247	0,009	mg/l	91%



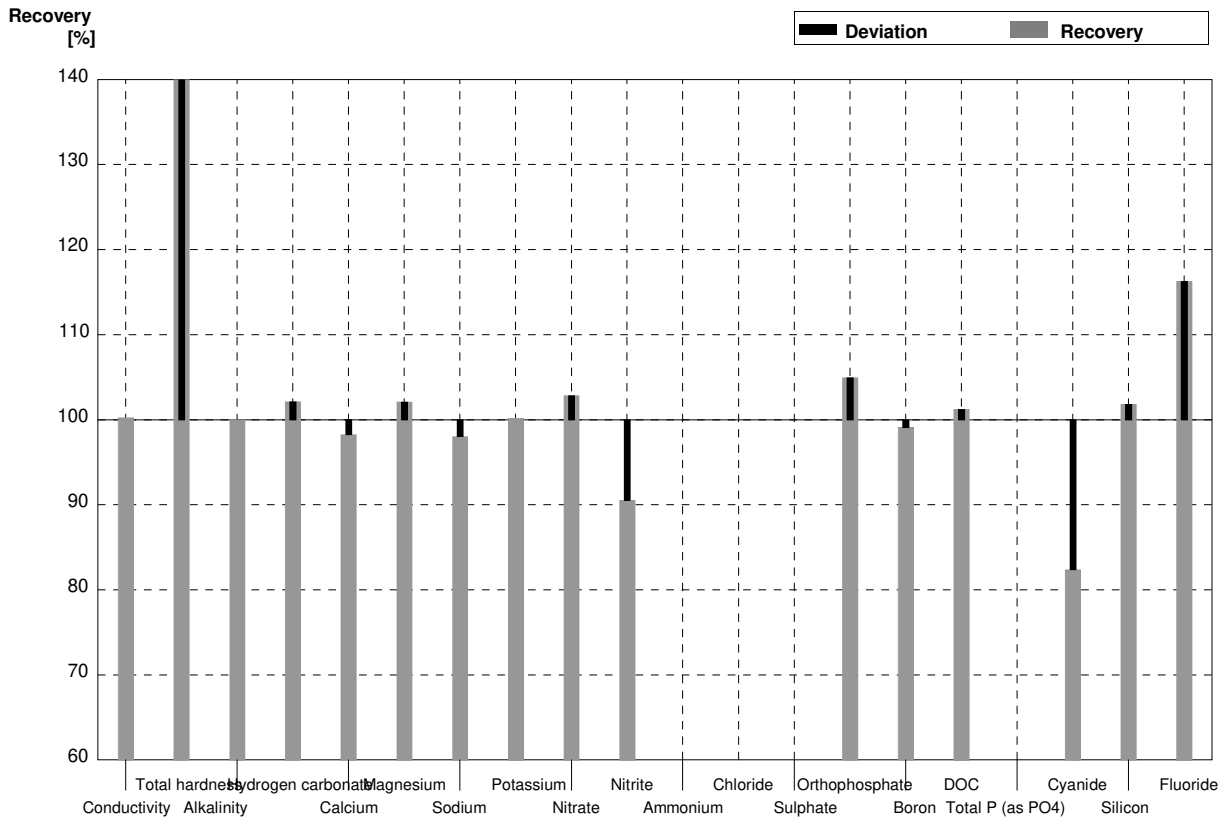
Sample N168A
Laboratory B

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	618	12,2	µS/cm	101%
Total hardness	2,60	0,03	149,94	22,49	mmol/l	5767%
Alkalinity	3,33	0,04	3,32	0,498	mmol/l	100%
Hydrogen carbonate	200	3	203	30,5	mg/l	102%
Calcium	73,9	1,2	76,79	3,32	mg/l	104%
Magnesium	18,4	0,3	18,42	0,80	mg/l	100%
Sodium	18,14	0,13	17,94	0,80	mg/l	99%
Potassium	8,07	0,05	8,15	0,36	mg/l	101%
Nitrate	43,8	1,1	48,42	7,98	mg/l	111%
Nitrite	0,0448	0,0004	0,0460	0,0027	mg/l	103%
Ammonium	0,0303	0,0047			mg/l	
Chloride	41,0	1,5			mg/l	
Sulphate	46,6	0,9			mg/l	
Orthophosphate	<0,009		<0,030	0,0045	mg/l	•
Boron	0,1403	0,0013	0,1368	0,0065	mg/l	98%
DOC	5,06	0,05	4,94	0,741	mg/l	98%
Total P (as PO4)	<0,009				mg/l	
Cyanide	0,0397	0,0016	0,0340	0,0086	mg/l	86%
Silicon	4,49	0,03	4,53	0,679	mg/l	101%
Fluoride	0,701	0,018	0,768	0,060	mg/l	110%



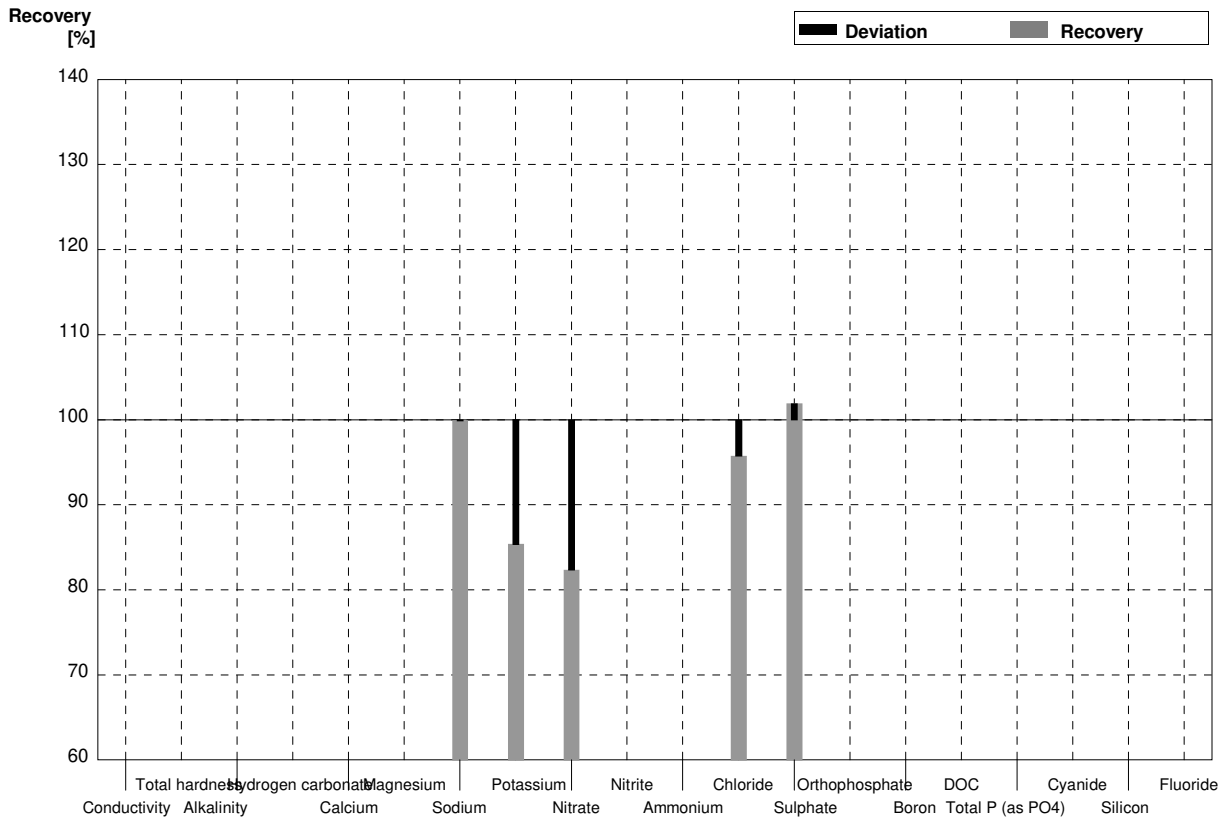
Sample N168B
Laboratory B

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	410	8,12	µS/cm	100%
Total hardness	1,285	0,015	71,68	10,75	mmol/l	5578%
Alkalinity	2,04	0,03	2,04	0,306	mmol/l	100%
Hydrogen carbonate	121,4	1,5	124	18,6	mg/l	102%
Calcium	35,8	0,5	35,18	1,52	mg/l	98%
Magnesium	9,54	0,18	9,74	0,42	mg/l	102%
Sodium	29,2	0,3	28,63	1,28	mg/l	98%
Potassium	5,76	0,03	5,77	0,25	mg/l	100%
Nitrate	11,0	0,3	11,31	1,87	mg/l	103%
Nitrite	0,0254	0,0003	0,0230	0,0013	mg/l	91%
Ammonium	<0,01				mg/l	
Chloride	35,1	0,5			mg/l	
Sulphate	34,9	0,7			mg/l	
Orthophosphate	0,0829	0,0009	0,0870	0,0131	mg/l	105%
Boron	0,1010	0,0007	0,1001	0,0047	mg/l	99%
DOC	8,14	0,06	8,24	1,24	mg/l	101%
Total P (as PO4)	0,1216	0,0010			mg/l	
Cyanide	0,0704	0,0017	0,0580	0,015	mg/l	82%
Silicon	5,99	0,03	6,1	0,913	mg/l	102%
Fluoride	0,270	0,007	0,314	0,024	mg/l	116%



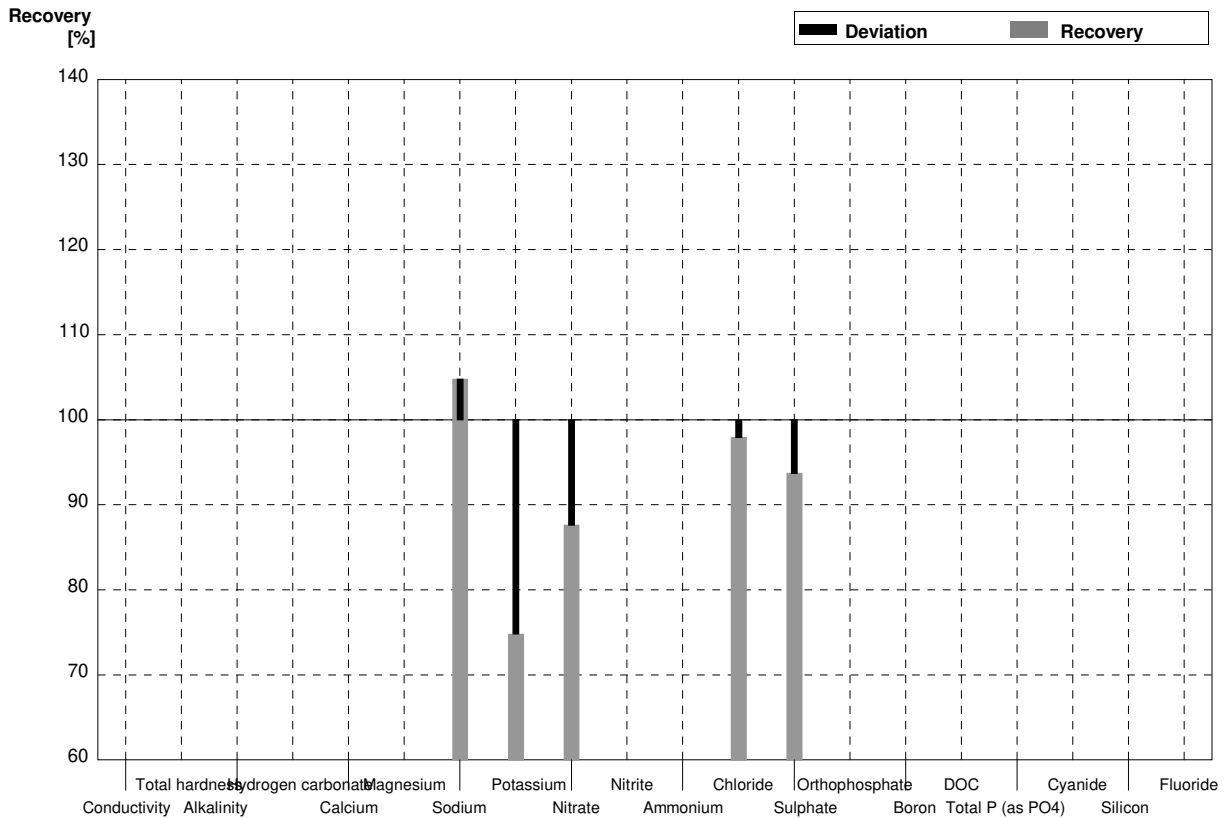
Sample N168A
Laboratory C

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2			µS/cm	
Total hardness	2,60	0,03			mmol/l	
Alkalinity	3,33	0,04			mmol/l	
Hydrogen carbonate	200	3			mg/l	
Calcium	73,9	1,2			mg/l	
Magnesium	18,4	0,3			mg/l	
Sodium	18,14	0,13	18,12	1,812	mg/l	100%
Potassium	8,07	0,05	6,89	0,689	mg/l	85%
Nitrate	43,8	1,1	36,07	7,214	mg/l	82%
Nitrite	0,0448	0,0004			mg/l	
Ammonium	0,0303	0,0047			mg/l	
Chloride	41,0	1,5	39,25	5,888	mg/l	96%
Sulphate	46,6	0,9	47,49	9,498	mg/l	102%
Orthophosphate	<0,009				mg/l	
Boron	0,1403	0,0013			mg/l	
DOC	5,06	0,05			mg/l	
Total P (as PO4)	<0,009				mg/l	
Cyanide	0,0397	0,0016			mg/l	
Silicon	4,49	0,03			mg/l	
Fluoride	0,701	0,018			mg/l	



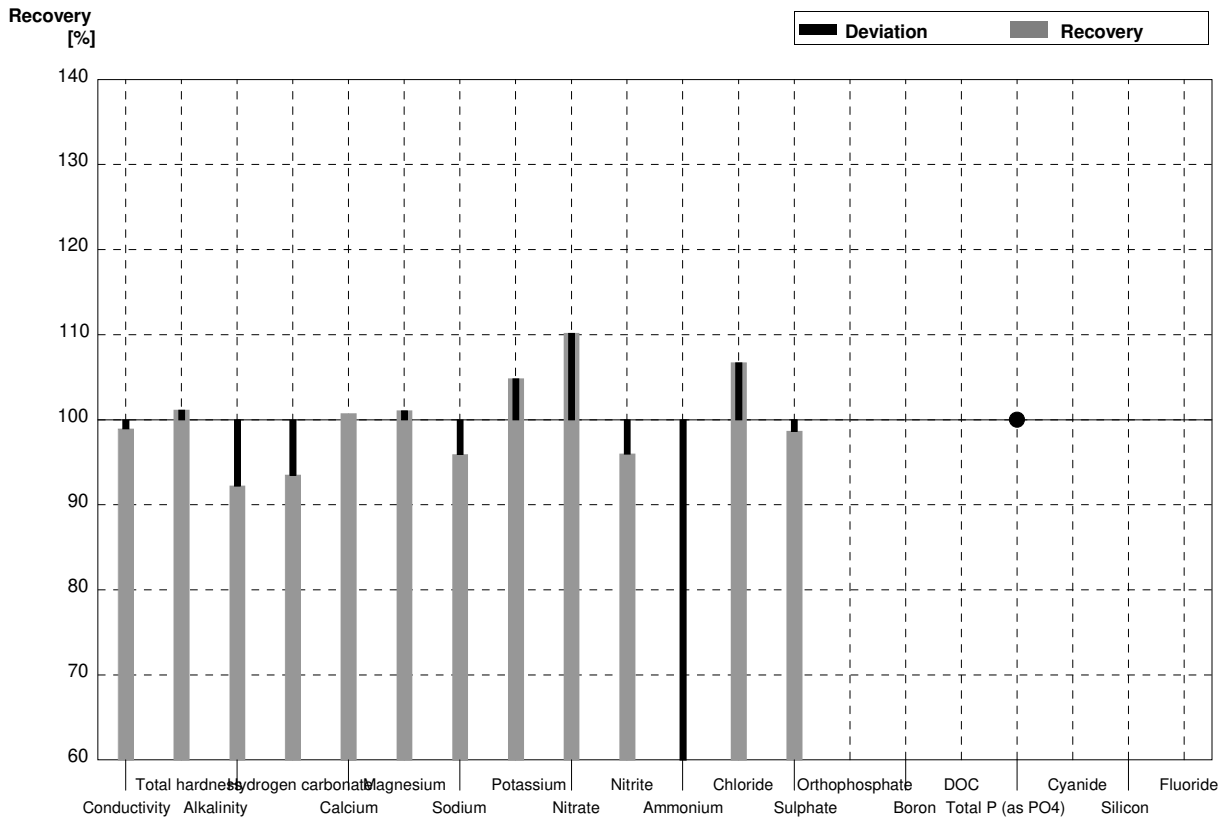
Sample N168B
Laboratory C

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1			µS/cm	
Total hardness	1,285	0,015			mmol/l	
Alkalinity	2,04	0,03			mmol/l	
Hydrogen carbonate	121,4	1,5			mg/l	
Calcium	35,8	0,5			mg/l	
Magnesium	9,54	0,18			mg/l	
Sodium	29,2	0,3	30,60	3,060	mg/l	105%
Potassium	5,76	0,03	4,31	0,431	mg/l	75%
Nitrate	11,0	0,3	9,64	1,928	mg/l	88%
Nitrite	0,0254	0,0003			mg/l	
Ammonium	<0,01				mg/l	
Chloride	35,1	0,5	34,38	5,157	mg/l	98%
Sulphate	34,9	0,7	32,71	6,542	mg/l	94%
Orthophosphate	0,0829	0,0009			mg/l	
Boron	0,1010	0,0007			mg/l	
DOC	8,14	0,06			mg/l	
Total P (as PO4)	0,1216	0,0010			mg/l	
Cyanide	0,0704	0,0017			mg/l	
Silicon	5,99	0,03			mg/l	
Fluoride	0,270	0,007			mg/l	



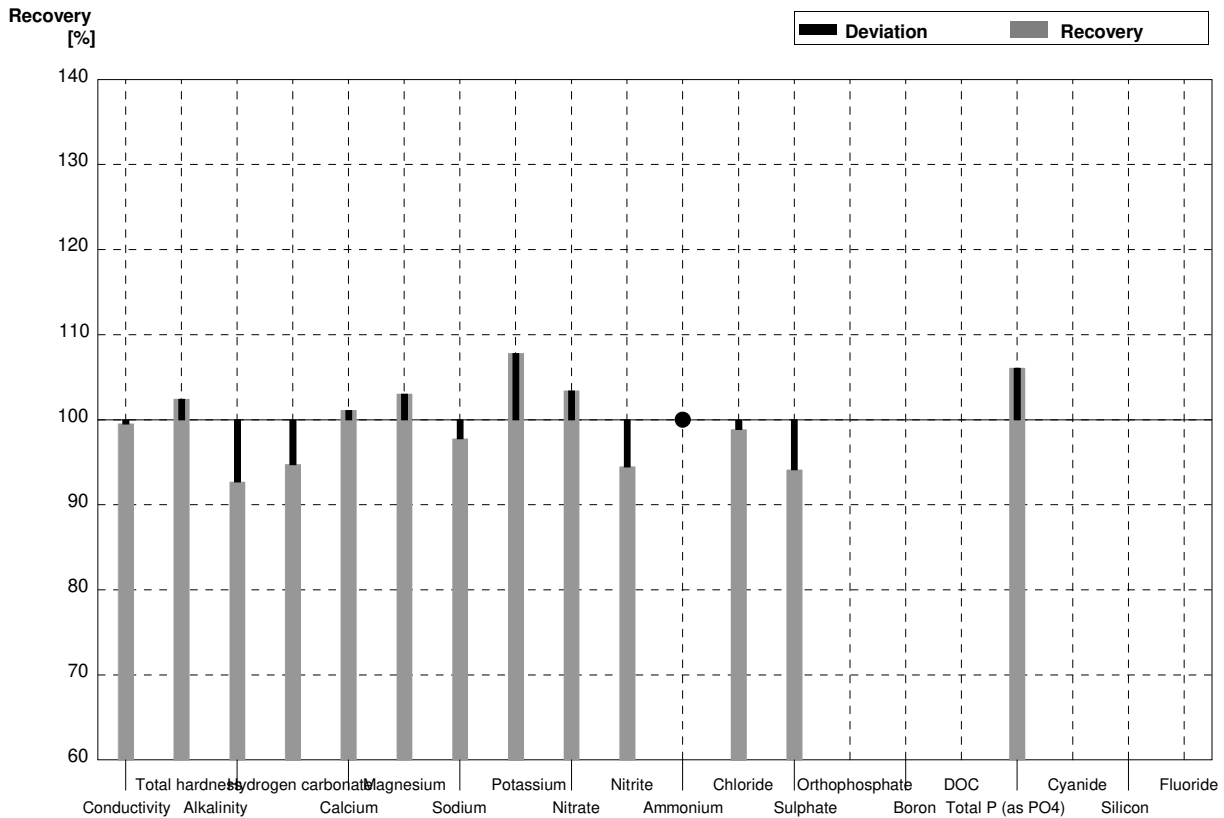
Sample N168A
Laboratory D

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	607,5	14,0	µS/cm	99%
Total hardness	2,60	0,03	2,63	0,025	mmol/l	101%
Alkalinity	3,33	0,04	3,071	0,025	mmol/l	92%
Hydrogen carbonate	200	3	187	10	mg/l	94%
Calcium	73,9	1,2	74,45	2	mg/l	101%
Magnesium	18,4	0,3	18,6	0,4	mg/l	101%
Sodium	18,14	0,13	17,4	1	mg/l	96%
Potassium	8,07	0,05	8,46	0,2	mg/l	105%
Nitrate	43,8	1,1	48,25	1	mg/l	110%
Nitrite	0,0448	0,0004	0,0430	0,01	mg/l	96%
Ammonium	0,0303	0,0047	0,0100	0,01	mg/l	33%
Chloride	41,0	1,5	43,75	1	mg/l	107%
Sulphate	46,6	0,9	45,975	1,5	mg/l	99%
Orthophosphate	<0,009				mg/l	
Boron	0,1403	0,0013			mg/l	
DOC	5,06	0,05			mg/l	
Total P (as PO4)	<0,009		0,00150	0,05	mg/l	•
Cyanide	0,0397	0,0016			mg/l	
Silicon	4,49	0,03			mg/l	
Fluoride	0,701	0,018			mg/l	



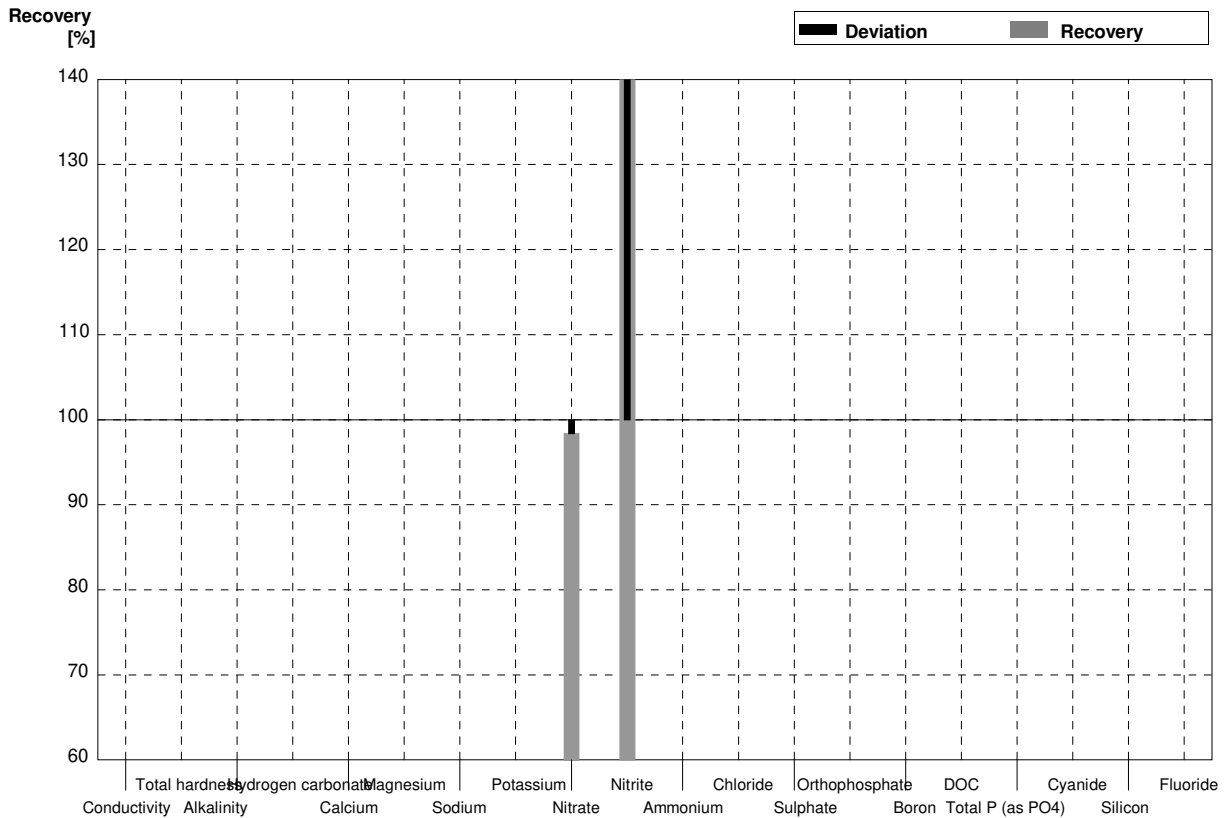
Sample N168B
Laboratory D

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	407,1	14,0	µS/cm	100%
Total hardness	1,285	0,015	1,316	0,025	mmol/l	102%
Alkalinity	2,04	0,03	1,891	0,025	mmol/l	93%
Hydrogen carbonate	121,4	1,5	115	10	mg/l	95%
Calcium	35,8	0,5	36,2	2	mg/l	101%
Magnesium	9,54	0,18	9,83	0,4	mg/l	103%
Sodium	29,2	0,3	28,55	1	mg/l	98%
Potassium	5,76	0,03	6,21	0,2	mg/l	108%
Nitrate	11,0	0,3	11,375	1	mg/l	103%
Nitrite	0,0254	0,0003	0,0240	0,01	mg/l	94%
Ammonium	<0,01		0,0100	0,01	mg/l	•
Chloride	35,1	0,5	34,7	1	mg/l	99%
Sulphate	34,9	0,7	32,85	1,5	mg/l	94%
Orthophosphate	0,0829	0,0009			mg/l	
Boron	0,1010	0,0007			mg/l	
DOC	8,14	0,06			mg/l	
Total P (as PO4)	0,1216	0,0010	0,129	0,05	mg/l	106%
Cyanide	0,0704	0,0017			mg/l	
Silicon	5,99	0,03			mg/l	
Fluoride	0,270	0,007			mg/l	



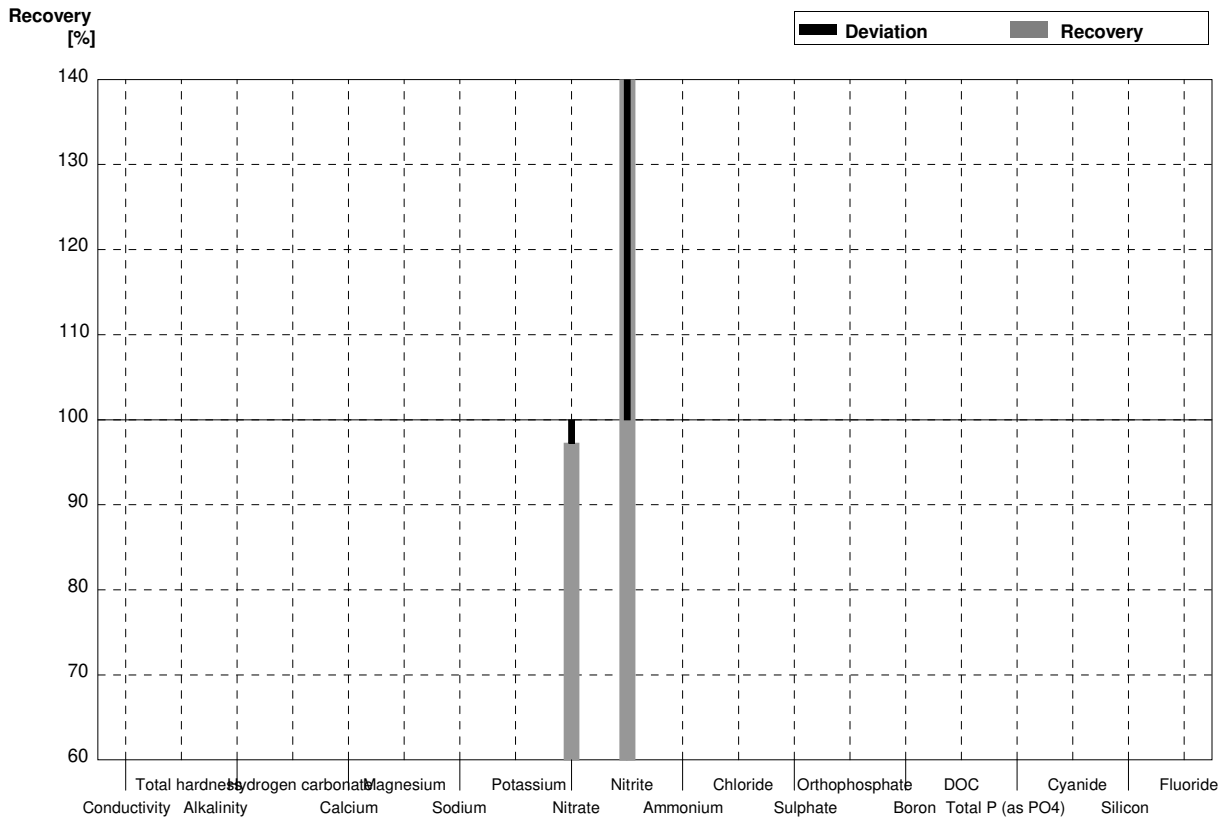
Sample N168A
Laboratory E

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2			µS/cm	
Total hardness	2,60	0,03			mmol/l	
Alkalinity	3,33	0,04			mmol/l	
Hydrogen carbonate	200	3			mg/l	
Calcium	73,9	1,2			mg/l	
Magnesium	18,4	0,3			mg/l	
Sodium	18,14	0,13			mg/l	
Potassium	8,07	0,05			mg/l	
Nitrate	43,8	1,1	43,1	1,6	mg/l	98%
Nitrite	0,0448	0,0004	0,068	0,001	mg/l	152%
Ammonium	0,0303	0,0047			mg/l	
Chloride	41,0	1,5			mg/l	
Sulphate	46,6	0,9			mg/l	
Orthophosphate	<0,009				mg/l	
Boron	0,1403	0,0013			mg/l	
DOC	5,06	0,05			mg/l	
Total P (as PO4)	<0,009				mg/l	
Cyanide	0,0397	0,0016			mg/l	
Silicon	4,49	0,03			mg/l	
Fluoride	0,701	0,018			mg/l	



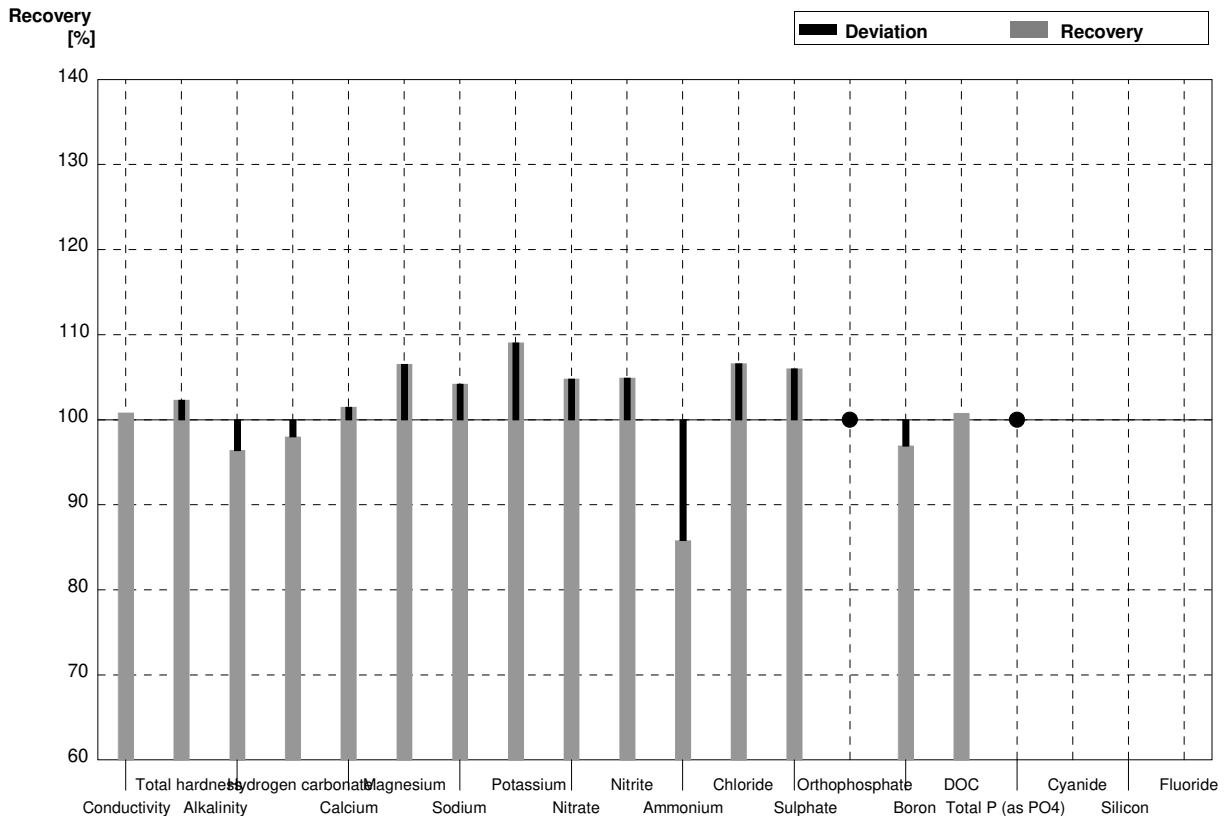
Sample N168B
Laboratory E

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1			µS/cm	
Total hardness	1,285	0,015			mmol/l	
Alkalinity	2,04	0,03			mmol/l	
Hydrogen carbonate	121,4	1,5			mg/l	
Calcium	35,8	0,5			mg/l	
Magnesium	9,54	0,18			mg/l	
Sodium	29,2	0,3			mg/l	
Potassium	5,76	0,03			mg/l	
Nitrate	11,0	0,3	10,7	0,4	mg/l	97%
Nitrite	0,0254	0,0003	0,052	0,001	mg/l	205%
Ammonium	<0,01				mg/l	
Chloride	35,1	0,5			mg/l	
Sulphate	34,9	0,7			mg/l	
Orthophosphate	0,0829	0,0009			mg/l	
Boron	0,1010	0,0007			mg/l	
DOC	8,14	0,06			mg/l	
Total P (as PO4)	0,1216	0,0010			mg/l	
Cyanide	0,0704	0,0017			mg/l	
Silicon	5,99	0,03			mg/l	
Fluoride	0,270	0,007			mg/l	



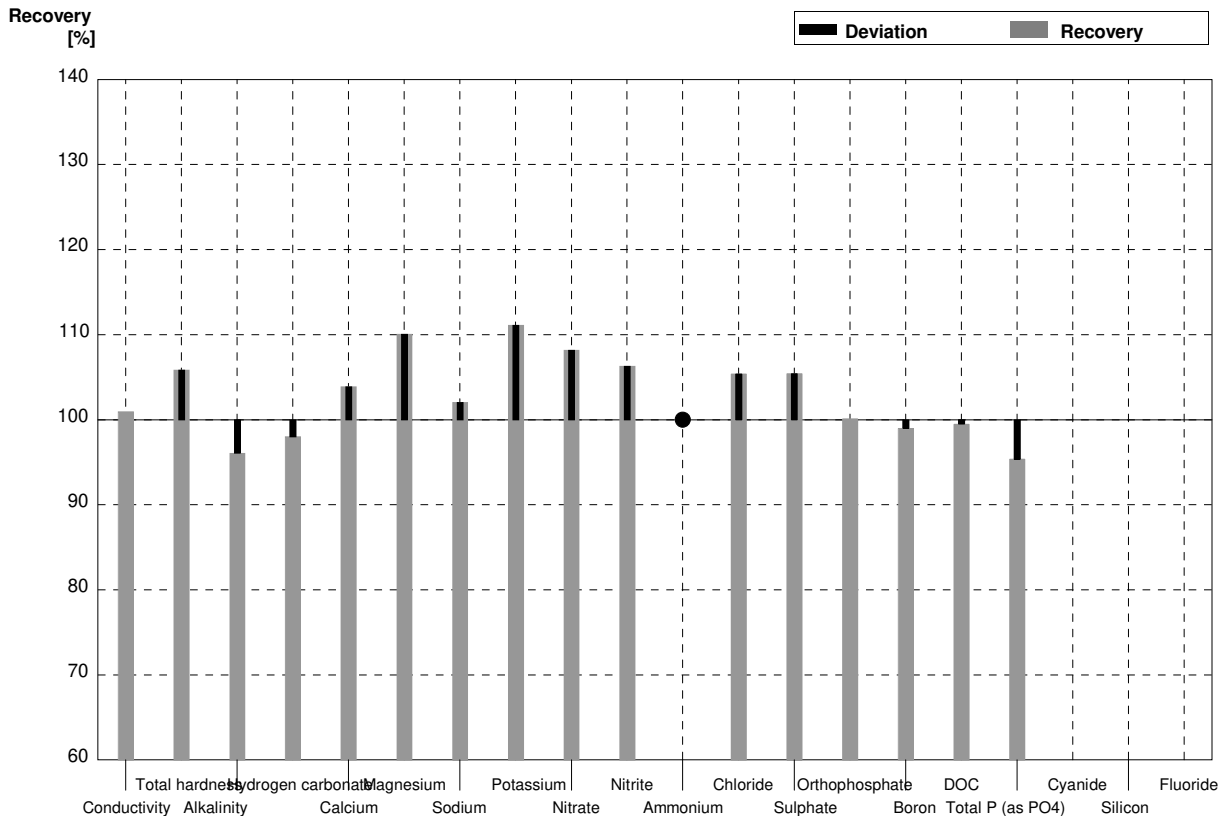
Sample N168A
Laboratory F

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	619	12	µS/cm	101%
Total hardness	2,60	0,03	2,66	0,18	mmol/l	102%
Alkalinity	3,33	0,04	3,21	0,17	mmol/l	96%
Hydrogen carbonate	200	3	196	16	mg/l	98%
Calcium	73,9	1,2	75	6	mg/l	101%
Magnesium	18,4	0,3	19,6	1,6	mg/l	107%
Sodium	18,14	0,13	18,9	2,3	mg/l	104%
Potassium	8,07	0,05	8,8	1,0	mg/l	109%
Nitrate	43,8	1,1	45,9	3,7	mg/l	105%
Nitrite	0,0448	0,0004	0,0470	0,005	mg/l	105%
Ammonium	0,0303	0,0047	0,0260	0,00416	mg/l	86%
Chloride	41,0	1,5	43,7	3,5	mg/l	107%
Sulphate	46,6	0,9	49,4	3,0	mg/l	106%
Orthophosphate	<0,009		<0,009		mg/l	•
Boron	0,1403	0,0013	0,136	0,023	mg/l	97%
DOC	5,06	0,05	5,1	1,3	mg/l	101%
Total P (as PO4)	<0,009		<0,009		mg/l	•
Cyanide	0,0397	0,0016			mg/l	
Silicon	4,49	0,03			mg/l	
Fluoride	0,701	0,018			mg/l	



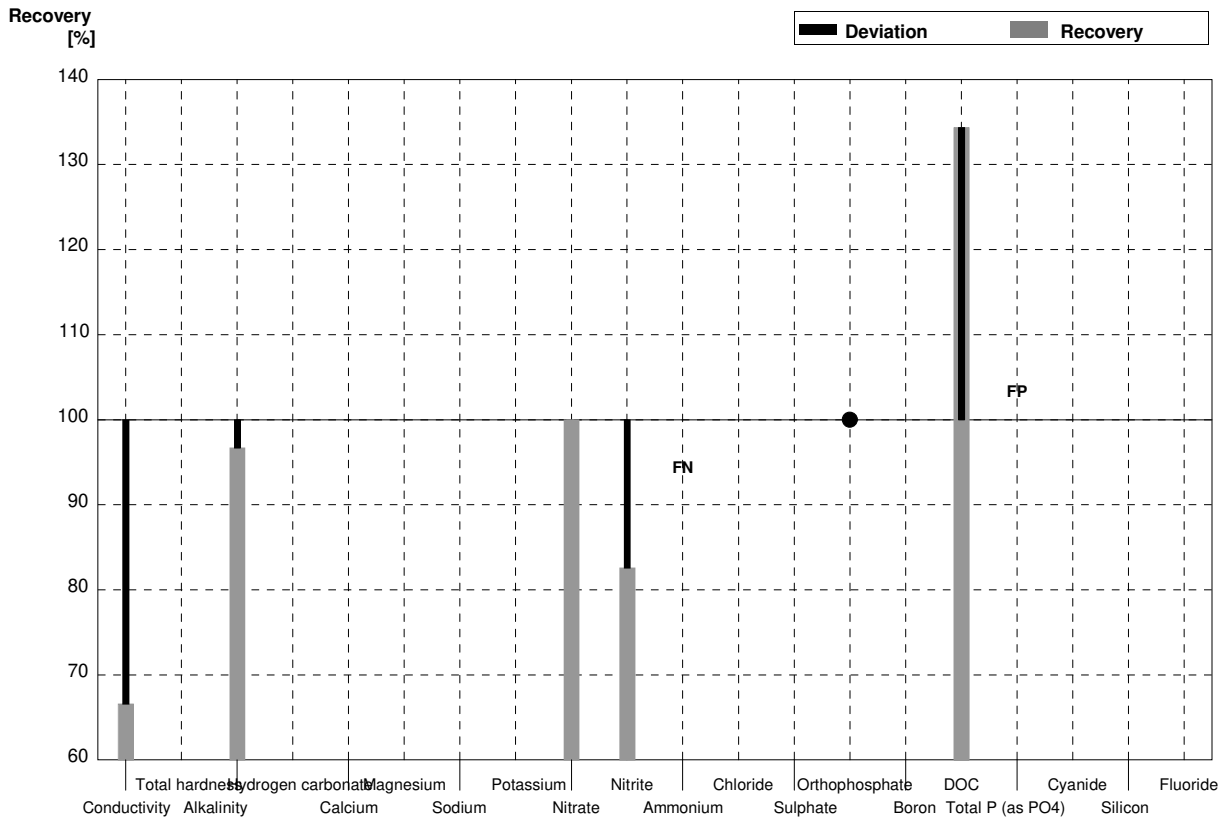
Sample N168B
Laboratory F

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	413	8	µS/cm	101%
Total hardness	1,285	0,015	1,36	0,09	mmol/l	106%
Alkalinity	2,04	0,03	1,96	0,10	mmol/l	96%
Hydrogen carbonate	121,4	1,5	119	10	mg/l	98%
Calcium	35,8	0,5	37,2	3,0	mg/l	104%
Magnesium	9,54	0,18	10,5	0,8	mg/l	110%
Sodium	29,2	0,3	29,8	1,8	mg/l	102%
Potassium	5,76	0,03	6,4	0,7	mg/l	111%
Nitrate	11,0	0,3	11,9	06	mg/l	108%
Nitrite	0,0254	0,0003	0,0270	0,0030	mg/l	106%
Ammonium	<0,01		<0,02		mg/l	•
Chloride	35,1	0,5	37,0	3,0	mg/l	105%
Sulphate	34,9	0,7	36,8	2,2	mg/l	105%
Orthophosphate	0,0829	0,0009	0,083	0,015	mg/l	100%
Boron	0,1010	0,0007	0,100	0,017	mg/l	99%
DOC	8,14	0,06	8,1	1,0	mg/l	100%
Total P (as PO4)	0,1216	0,0010	0,116	0,015	mg/l	95%
Cyanide	0,0704	0,0017			mg/l	
Silicon	5,99	0,03			mg/l	
Fluoride	0,270	0,007			mg/l	



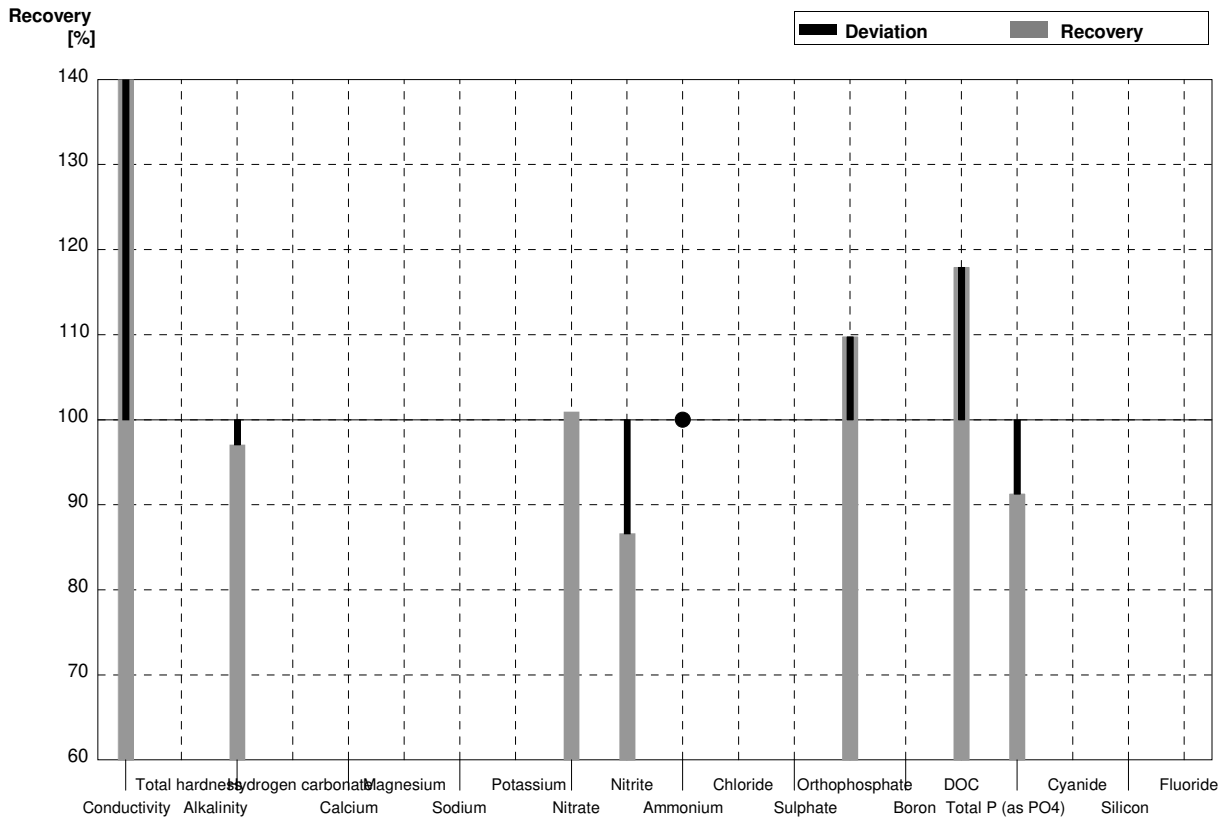
Sample N168A
Laboratory G

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	409	8	µS/cm	67%
Total hardness	2,60	0,03			mmol/l	
Alkalinity	3,33	0,04	3,22	0,10	mmol/l	97%
Hydrogen carbonate	200	3			mg/l	
Calcium	73,9	1,2			mg/l	
Magnesium	18,4	0,3			mg/l	
Sodium	18,14	0,13			mg/l	
Potassium	8,07	0,05			mg/l	
Nitrate	43,8	1,1	43,8	4,4	mg/l	100%
Nitrite	0,0448	0,0004	0,0370	0,0023	mg/l	83%
Ammonium	0,0303	0,0047	<0,022		mg/l	FN
Chloride	41,0	1,5			mg/l	
Sulphate	46,6	0,9			mg/l	
Orthophosphate	<0,009		<0,005		mg/l	•
Boron	0,1403	0,0013			mg/l	
DOC	5,06	0,05	6,8	0,4	mg/l	134%
Total P (as PO4)	<0,009		0,0180	0,002	mg/l	FP
Cyanide	0,0397	0,0016			mg/l	
Silicon	4,49	0,03			mg/l	
Fluoride	0,701	0,018			mg/l	



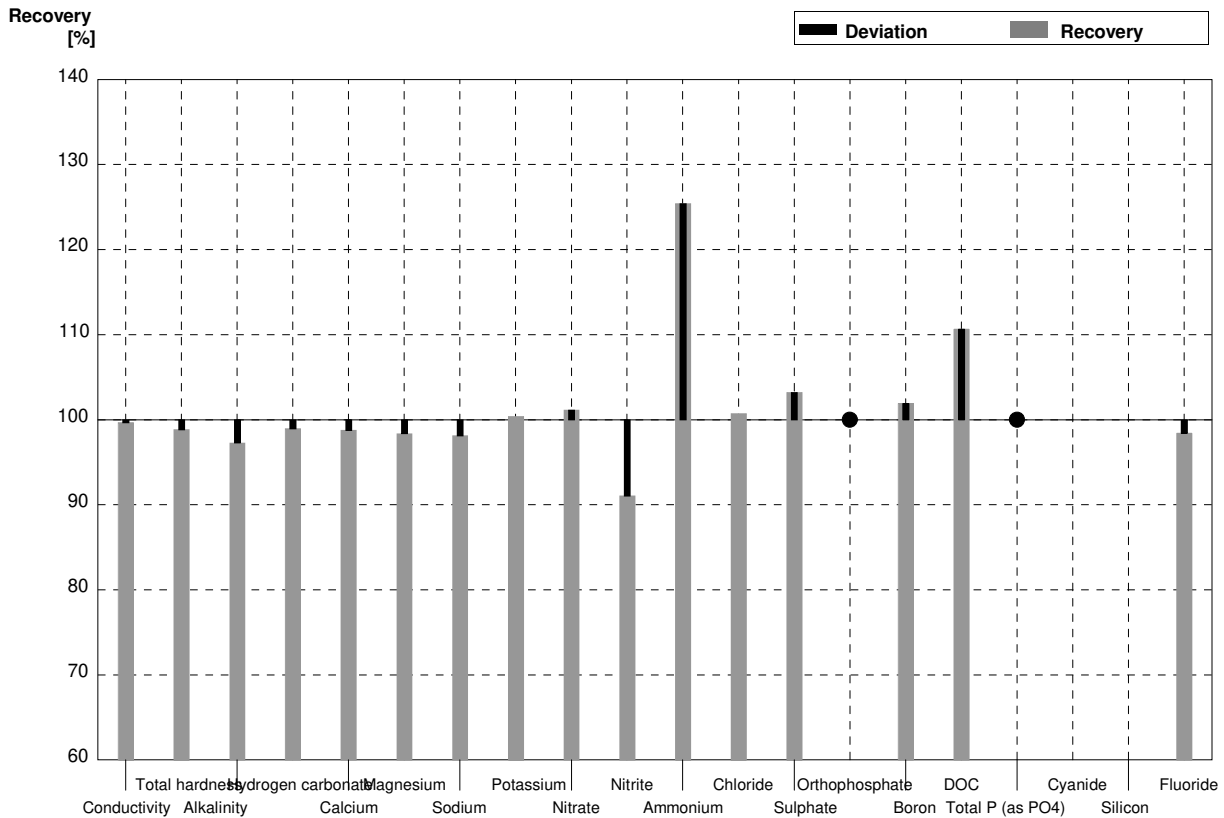
Sample N168B
Laboratory G

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	617	12	µS/cm	151%
Total hardness	1,285	0,015			mmol/l	
Alkalinity	2,04	0,03	1,98	0,061	mmol/l	97%
Hydrogen carbonate	121,4	1,5			mg/l	
Calcium	35,8	0,5			mg/l	
Magnesium	9,54	0,18			mg/l	
Sodium	29,2	0,3			mg/l	
Potassium	5,76	0,03			mg/l	
Nitrate	11,0	0,3	11,1	1,11	mg/l	101%
Nitrite	0,0254	0,0003	0,0220	0,0014	mg/l	87%
Ammonium	<0,01		<0,022		mg/l	•
Chloride	35,1	0,5			mg/l	
Sulphate	34,9	0,7			mg/l	
Orthophosphate	0,0829	0,0009	0,091	0,011	mg/l	110%
Boron	0,1010	0,0007			mg/l	
DOC	8,14	0,06	9,6	0,5	mg/l	118%
Total P (as PO4)	0,1216	0,0010	0,111	0,012	mg/l	91%
Cyanide	0,0704	0,0017			mg/l	
Silicon	5,99	0,03			mg/l	
Fluoride	0,270	0,007			mg/l	



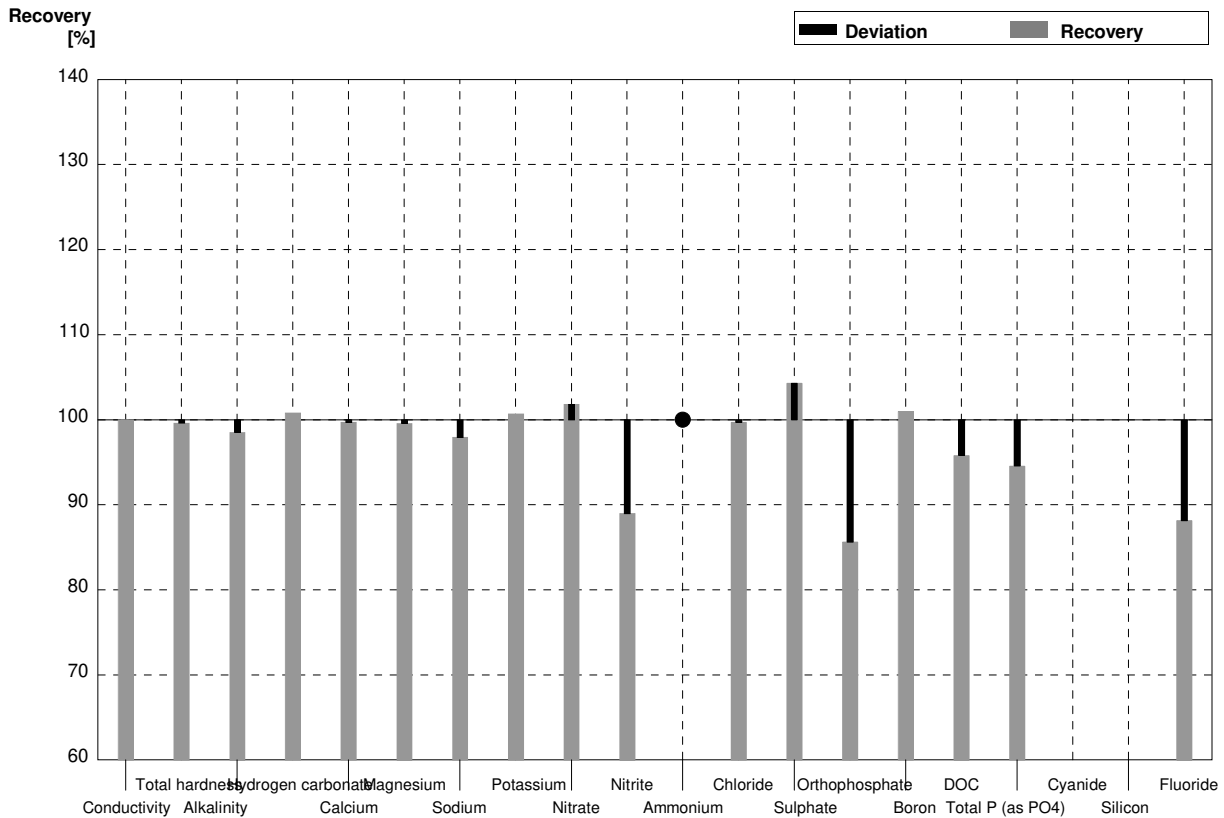
Sample N168A
Laboratory H

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	612	24	µS/cm	100%
Total hardness	2,60	0,03	2,57	0,134	mmol/l	99%
Alkalinity	3,33	0,04	3,24	0,19	mmol/l	97%
Hydrogen carbonate	200	3	197,9	11,7	mg/l	99%
Calcium	73,9	1,2	73,0	3,5	mg/l	99%
Magnesium	18,4	0,3	18,1	1,2	mg/l	98%
Sodium	18,14	0,13	17,8	0,9	mg/l	98%
Potassium	8,07	0,05	8,1	0,3	mg/l	100%
Nitrate	43,8	1,1	44,3	4,3	mg/l	101%
Nitrite	0,0448	0,0004	0,0408	0,0048	mg/l	91%
Ammonium	0,0303	0,0047	0,0380	0,0077	mg/l	125%
Chloride	41,0	1,5	41,3	3,3	mg/l	101%
Sulphate	46,6	0,9	48,1	3,3	mg/l	103%
Orthophosphate	<0,009		<0,010		mg/l	•
Boron	0,1403	0,0013	0,143	0,0173	mg/l	102%
DOC	5,06	0,05	5,6	1,1	mg/l	111%
Total P (as PO4)	<0,009		<0,010		mg/l	•
Cyanide	0,0397	0,0016			mg/l	
Silicon	4,49	0,03			mg/l	
Fluoride	0,701	0,018	0,69	0,11	mg/l	98%



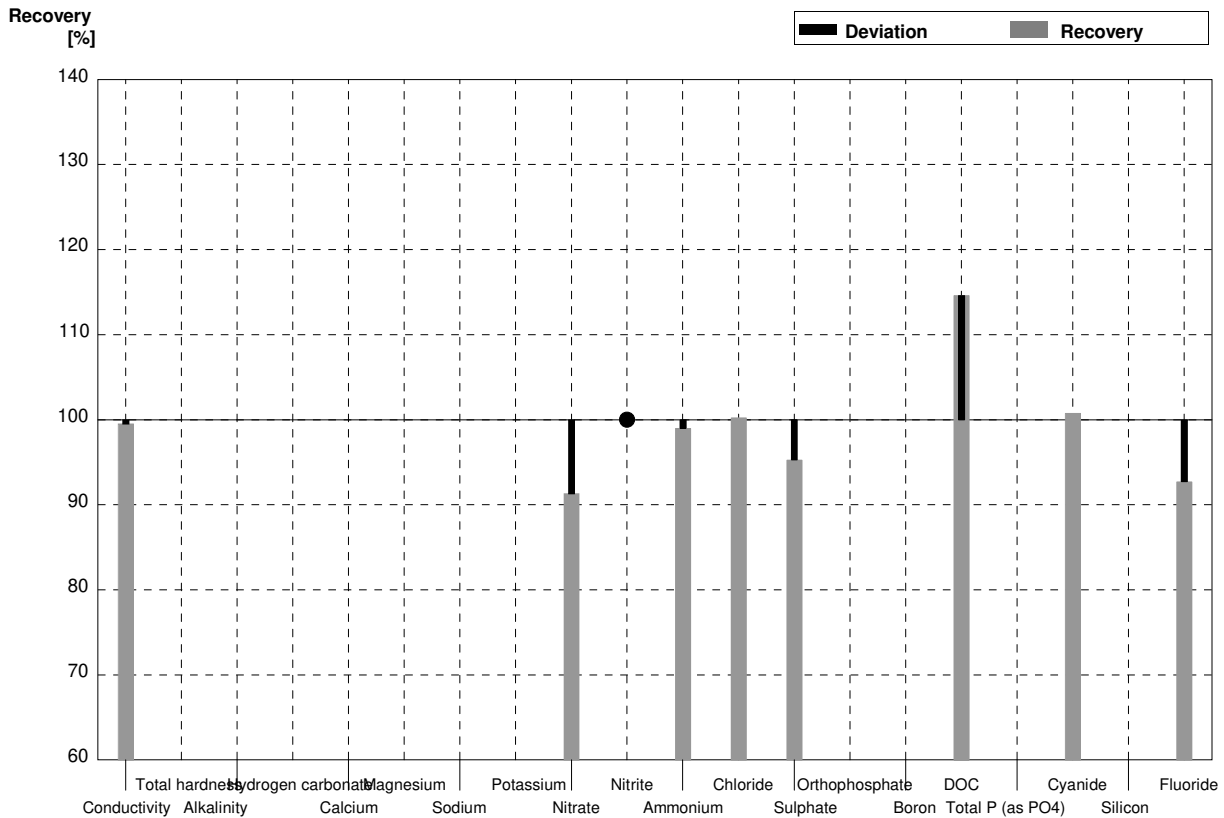
Sample N168B
Laboratory H

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	409	16	µS/cm	100%
Total hardness	1,285	0,015	1,28	0,070	mmol/l	100%
Alkalinity	2,04	0,03	2,01	0,13	mmol/l	99%
Hydrogen carbonate	121,4	1,5	122,4	7,9	mg/l	101%
Calcium	35,8	0,5	35,7	1,7	mg/l	100%
Magnesium	9,54	0,18	9,5	0,6	mg/l	100%
Sodium	29,2	0,3	28,6	1,5	mg/l	98%
Potassium	5,76	0,03	5,8	0,3	mg/l	101%
Nitrate	11,0	0,3	11,2	1,1	mg/l	102%
Nitrite	0,0254	0,0003	0,0226	0,0034	mg/l	89%
Ammonium	<0,01		<0,010		mg/l	•
Chloride	35,1	0,5	35,0	2,8	mg/l	100%
Sulphate	34,9	0,7	36,4	3,0	mg/l	104%
Orthophosphate	0,0829	0,0009	0,071	0,010	mg/l	86%
Boron	0,1010	0,0007	0,102	0,010	mg/l	101%
DOC	8,14	0,06	7,8	1,4	mg/l	96%
Total P (as PO4)	0,1216	0,0010	0,115	0,012	mg/l	95%
Cyanide	0,0704	0,0017			mg/l	
Silicon	5,99	0,03			mg/l	
Fluoride	0,270	0,007	0,238	0,048	mg/l	88%



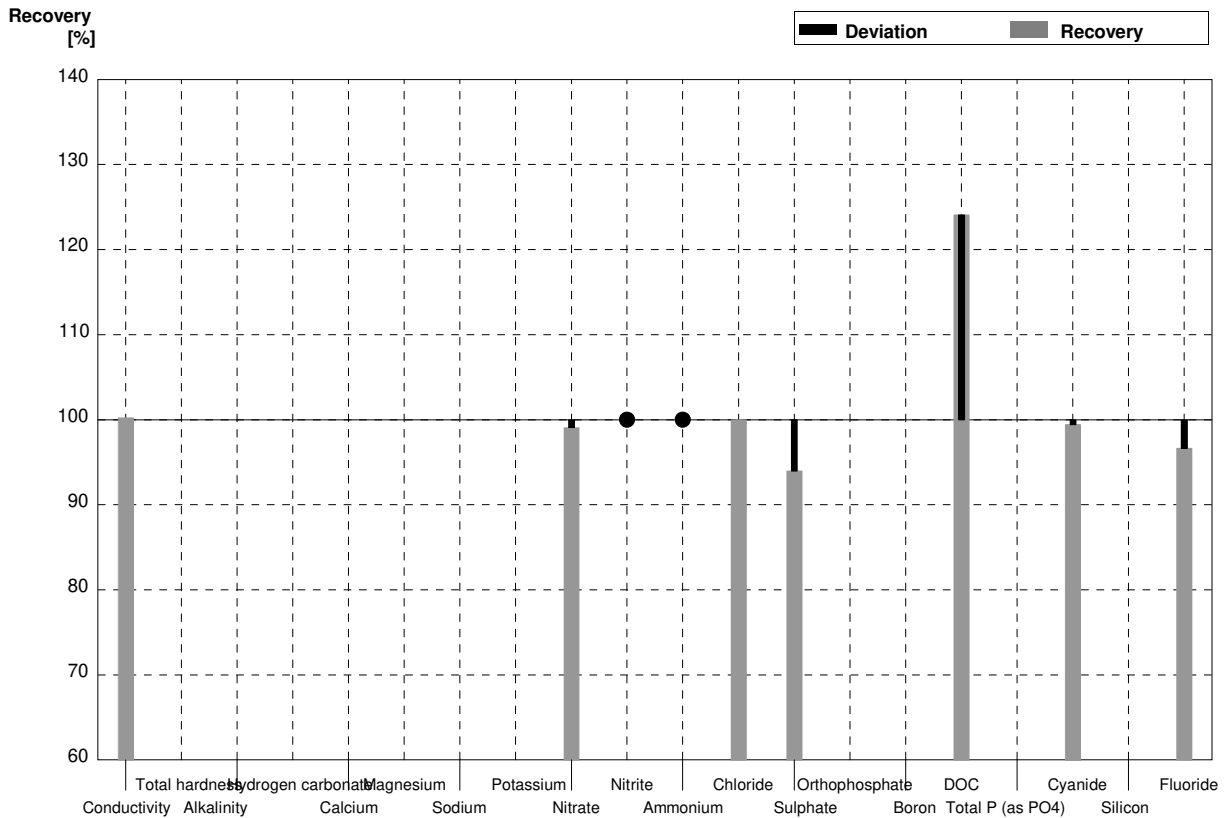
Sample N168A
Laboratory I

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	611	11	µS/cm	100%
Total hardness	2,60	0,03			mmol/l	
Alkalinity	3,33	0,04			mmol/l	
Hydrogen carbonate	200	3			mg/l	
Calcium	73,9	1,2			mg/l	
Magnesium	18,4	0,3			mg/l	
Sodium	18,14	0,13			mg/l	
Potassium	8,07	0,05			mg/l	
Nitrate	43,8	1,1	40,0	4,2	mg/l	91%
Nitrite	0,0448	0,0004	<0,1		mg/l	•
Ammonium	0,0303	0,0047	0,0300	0,0030	mg/l	99%
Chloride	41,0	1,5	41,1	4,1	mg/l	100%
Sulphate	46,6	0,9	44,4	4,4	mg/l	95%
Orthophosphate	<0,009				mg/l	
Boron	0,1403	0,0013			mg/l	
DOC	5,06	0,05	5,8	0,5	mg/l	115%
Total P (as PO4)	<0,009				mg/l	
Cyanide	0,0397	0,0016	0,0400	0,0080	mg/l	101%
Silicon	4,49	0,03			mg/l	
Fluoride	0,701	0,018	0,65	0,07	mg/l	93%



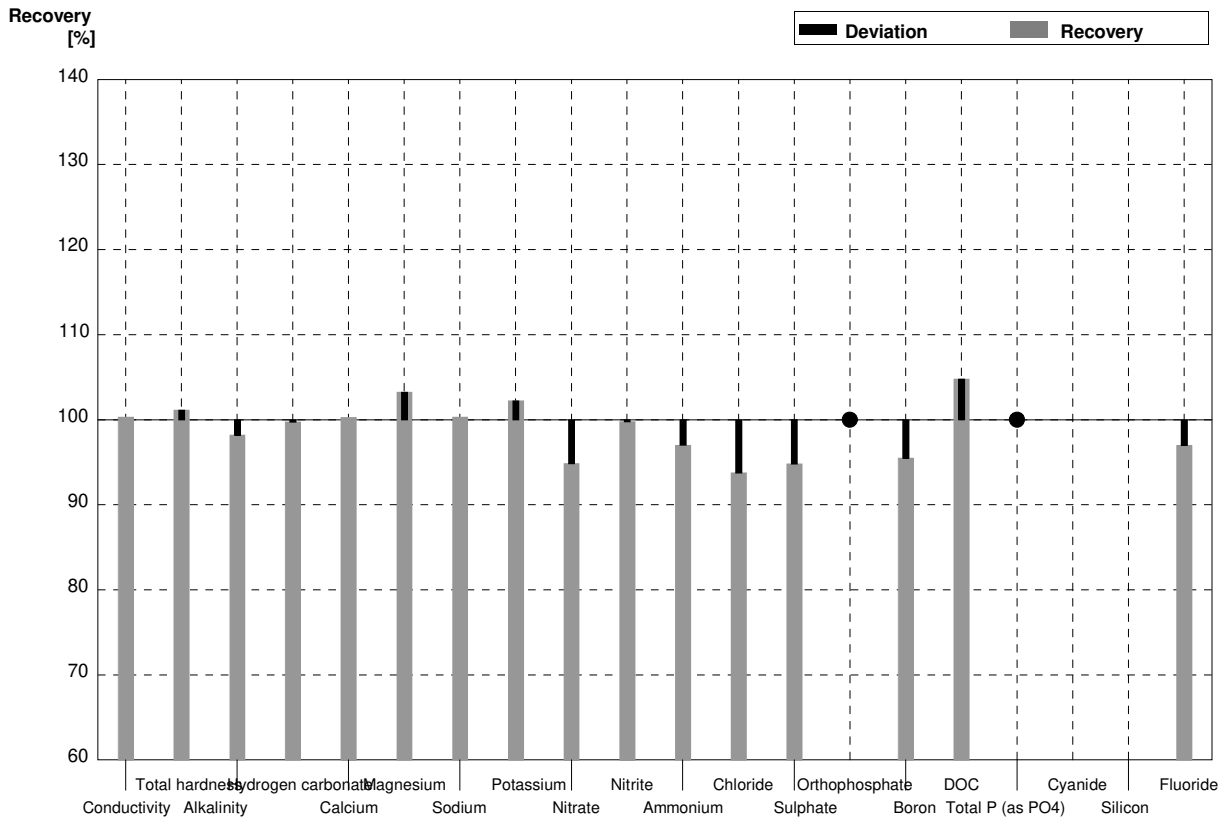
Sample N168B
Laboratory I

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	410	8	µS/cm	100%
Total hardness	1,285	0,015			mmol/l	
Alkalinity	2,04	0,03			mmol/l	
Hydrogen carbonate	121,4	1,5			mg/l	
Calcium	35,8	0,5			mg/l	
Magnesium	9,54	0,18			mg/l	
Sodium	29,2	0,3			mg/l	
Potassium	5,76	0,03			mg/l	
Nitrate	11,0	0,3	10,9	1,5	mg/l	99%
Nitrite	0,0254	0,0003	<0,1		mg/l	•
Ammonium	<0,01		<0,03		mg/l	•
Chloride	35,1	0,5	35,1	3,5	mg/l	100%
Sulphate	34,9	0,7	32,8	3,5	mg/l	94%
Orthophosphate	0,0829	0,0009			mg/l	
Boron	0,1010	0,0007			mg/l	
DOC	8,14	0,06	10,1	1,0	mg/l	124%
Total P (as PO4)	0,1216	0,0010			mg/l	
Cyanide	0,0704	0,0017	0,070	0,014	mg/l	99%
Silicon	5,99	0,03			mg/l	
Fluoride	0,270	0,007	0,261	0,057	mg/l	97%



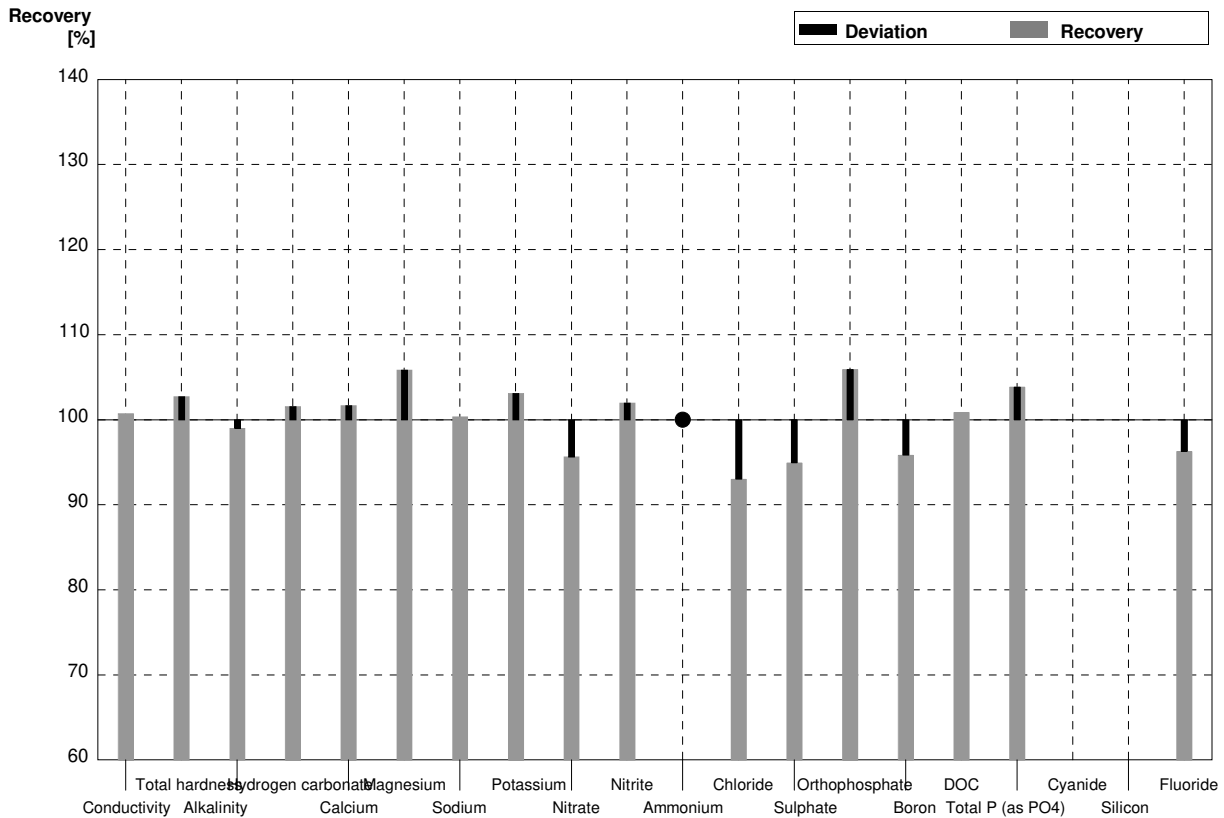
Sample N168A
Laboratory J

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	616	10	µS/cm	100%
Total hardness	2,60	0,03	2,63	0,27	mmol/l	101%
Alkalinity	3,33	0,04	3,27	0,33	mmol/l	98%
Hydrogen carbonate	200	3	199,5	20	mg/l	100%
Calcium	73,9	1,2	74,1	15	mg/l	100%
Magnesium	18,4	0,3	19,0	3,8	mg/l	103%
Sodium	18,14	0,13	18,2	2,7	mg/l	100%
Potassium	8,07	0,05	8,25	1,7	mg/l	102%
Nitrate	43,8	1,1	41,55	4,2	mg/l	95%
Nitrite	0,0448	0,0004	0,0447	0,0082	mg/l	100%
Ammonium	0,0303	0,0047	0,0294	0,0048	mg/l	97%
Chloride	41,0	1,5	38,44	3,9	mg/l	94%
Sulphate	46,6	0,9	44,19	4,5	mg/l	95%
Orthophosphate	<0,009		<0,015		mg/l	•
Boron	0,1403	0,0013	0,134	0,034	mg/l	96%
DOC	5,06	0,05	5,304	0,530	mg/l	105%
Total P (as PO4)	<0,009		<0,015		mg/l	•
Cyanide	0,0397	0,0016	n.b.		mg/l	
Silicon	4,49	0,03	n.b.		mg/l	
Fluoride	0,701	0,018	0,68	0,07	mg/l	97%



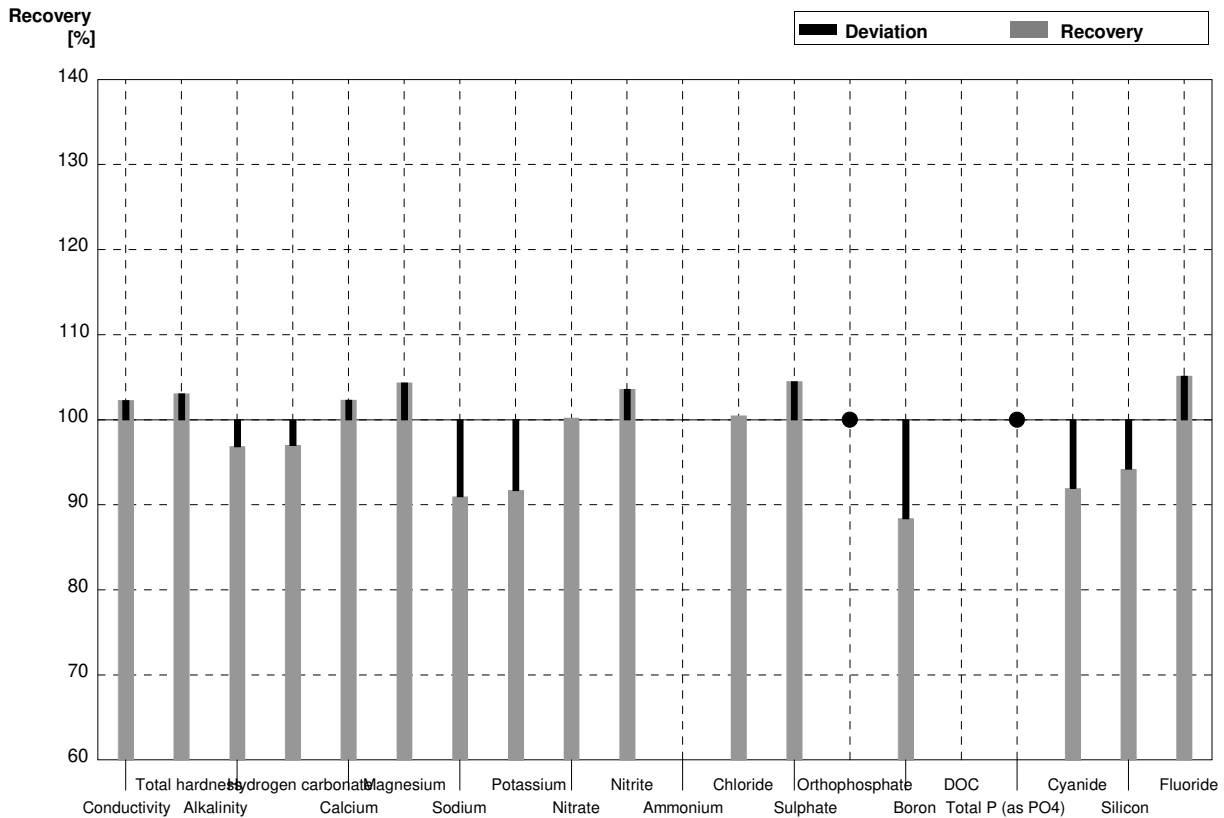
Sample N168B
Laboratory J

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	412	10	µS/cm	101%
Total hardness	1,285	0,015	1,32	0,14	mmol/l	103%
Alkalinity	2,04	0,03	2,02	0,2	mmol/l	99%
Hydrogen carbonate	121,4	1,5	123,3	13	mg/l	102%
Calcium	35,8	0,5	36,4	7,3	mg/l	102%
Magnesium	9,54	0,18	10,1	2,0	mg/l	106%
Sodium	29,2	0,3	29,3	4,4	mg/l	100%
Potassium	5,76	0,03	5,94	1,2	mg/l	103%
Nitrate	11,0	0,3	10,52	1,6	mg/l	96%
Nitrite	0,0254	0,0003	0,0259	0,0048	mg/l	102%
Ammonium	<0,01		<0,010		mg/l	•
Chloride	35,1	0,5	32,65	3,3	mg/l	93%
Sulphate	34,9	0,7	33,14	3,4	mg/l	95%
Orthophosphate	0,0829	0,0009	0,0878	0,0183	mg/l	106%
Boron	0,1010	0,0007	0,0968	0,024	mg/l	96%
DOC	8,14	0,06	8,213	0,821	mg/l	101%
Total P (as PO4)	0,1216	0,0010	0,1263	0,0263	mg/l	104%
Cyanide	0,0704	0,0017	n.b.		mg/l	
Silicon	5,99	0,03	n.b.		mg/l	
Fluoride	0,270	0,007	0,260	0,03	mg/l	96%



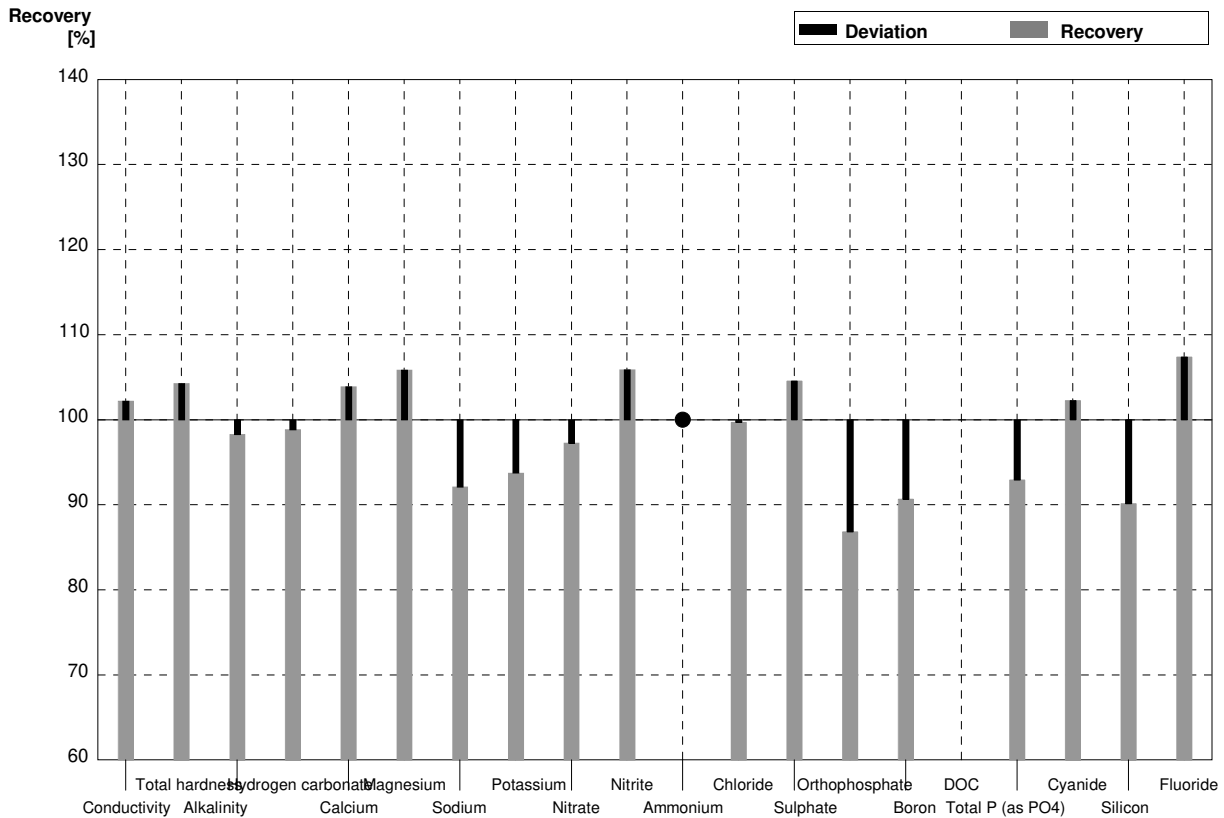
Sample N168A
Laboratory K

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	628	18,2	µS/cm	102%
Total hardness	2,60	0,03	2,68		mmol/l	103%
Alkalinity	3,33	0,04	3,225	0,161	mmol/l	97%
Hydrogen carbonate	200	3	194		mg/l	97%
Calcium	73,9	1,2	75,6	11,34	mg/l	102%
Magnesium	18,4	0,3	19,2	2,88	mg/l	104%
Sodium	18,14	0,13	16,5	2,475	mg/l	91%
Potassium	8,07	0,05	7,4	1,11	mg/l	92%
Nitrate	43,8	1,1	43,9	6,585	mg/l	100%
Nitrite	0,0448	0,0004	0,0464	0,0093	mg/l	104%
Ammonium	0,0303	0,0047			mg/l	
Chloride	41,0	1,5	41,2	6,18	mg/l	100%
Sulphate	46,6	0,9	48,7	7,305	mg/l	105%
Orthophosphate	<0,009		<0,03		mg/l	•
Boron	0,1403	0,0013	0,124	0,031	mg/l	88%
DOC	5,06	0,05			mg/l	
Total P (as PO4)	<0,009		<0,03		mg/l	•
Cyanide	0,0397	0,0016	0,0365	0,009	mg/l	92%
Silicon	4,49	0,03	4,23	1,06	mg/l	94%
Fluoride	0,701	0,018	0,737	0,074	mg/l	105%



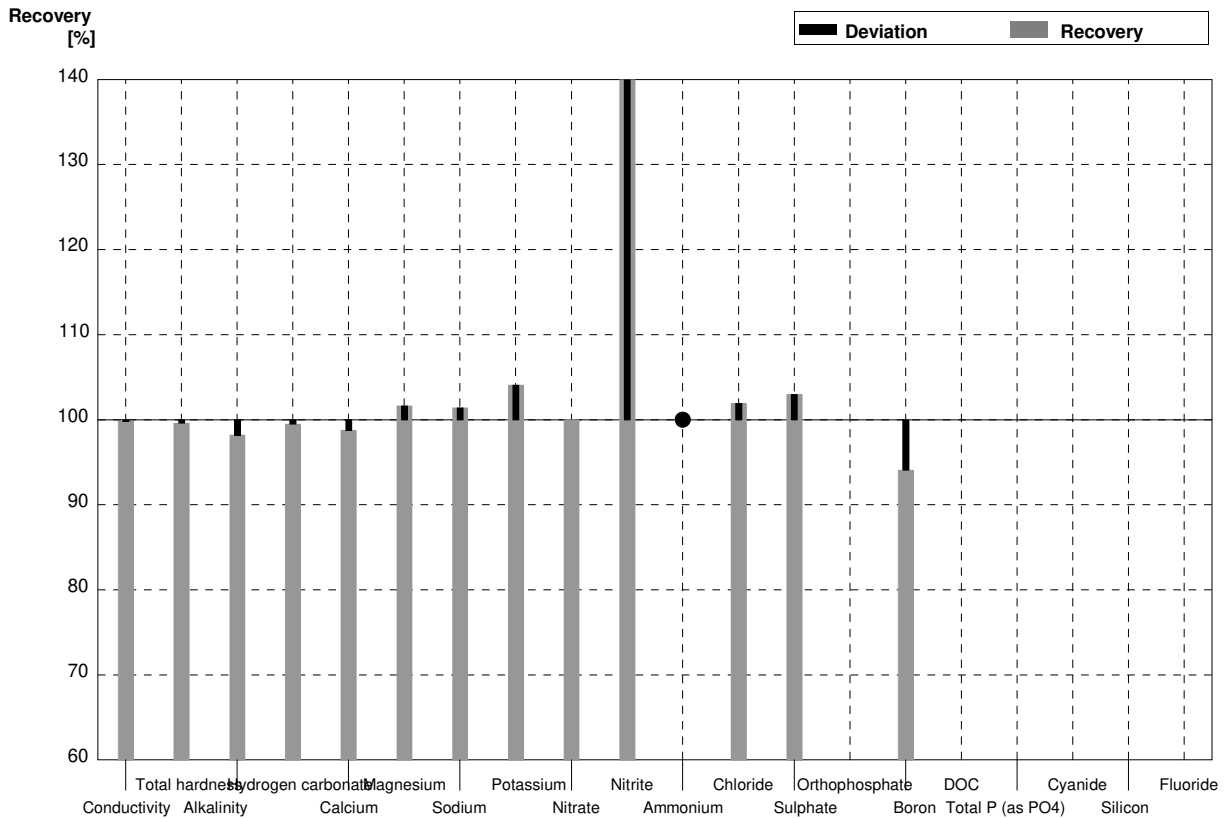
Sample N168B
Laboratory K

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	418	12,1	µS/cm	102%
Total hardness	1,285	0,015	1,34		mmol/l	104%
Alkalinity	2,04	0,03	2,005	0,100	mmol/l	98%
Hydrogen carbonate	121,4	1,5	120		mg/l	99%
Calcium	35,8	0,5	37,2	5,58	mg/l	104%
Magnesium	9,54	0,18	10,1	1,515	mg/l	106%
Sodium	29,2	0,3	26,9	4,035	mg/l	92%
Potassium	5,76	0,03	5,4	0,81	mg/l	94%
Nitrate	11,0	0,3	10,7	1,605	mg/l	97%
Nitrite	0,0254	0,0003	0,0269	0,0054	mg/l	106%
Ammonium	<0,01		0,0064	0,0006	mg/l	•
Chloride	35,1	0,5	35,0	5,25	mg/l	100%
Sulphate	34,9	0,7	36,5	5,475	mg/l	105%
Orthophosphate	0,0829	0,0009	0,072	0,009	mg/l	87%
Boron	0,1010	0,0007	0,0916	0,0229	mg/l	91%
DOC	8,14	0,06			mg/l	
Total P (as PO4)	0,1216	0,0010	0,113	0,014	mg/l	93%
Cyanide	0,0704	0,0017	0,072	0,018	mg/l	102%
Silicon	5,99	0,03	5,40	1,35	mg/l	90%
Fluoride	0,270	0,007	0,290	0,029	mg/l	107%



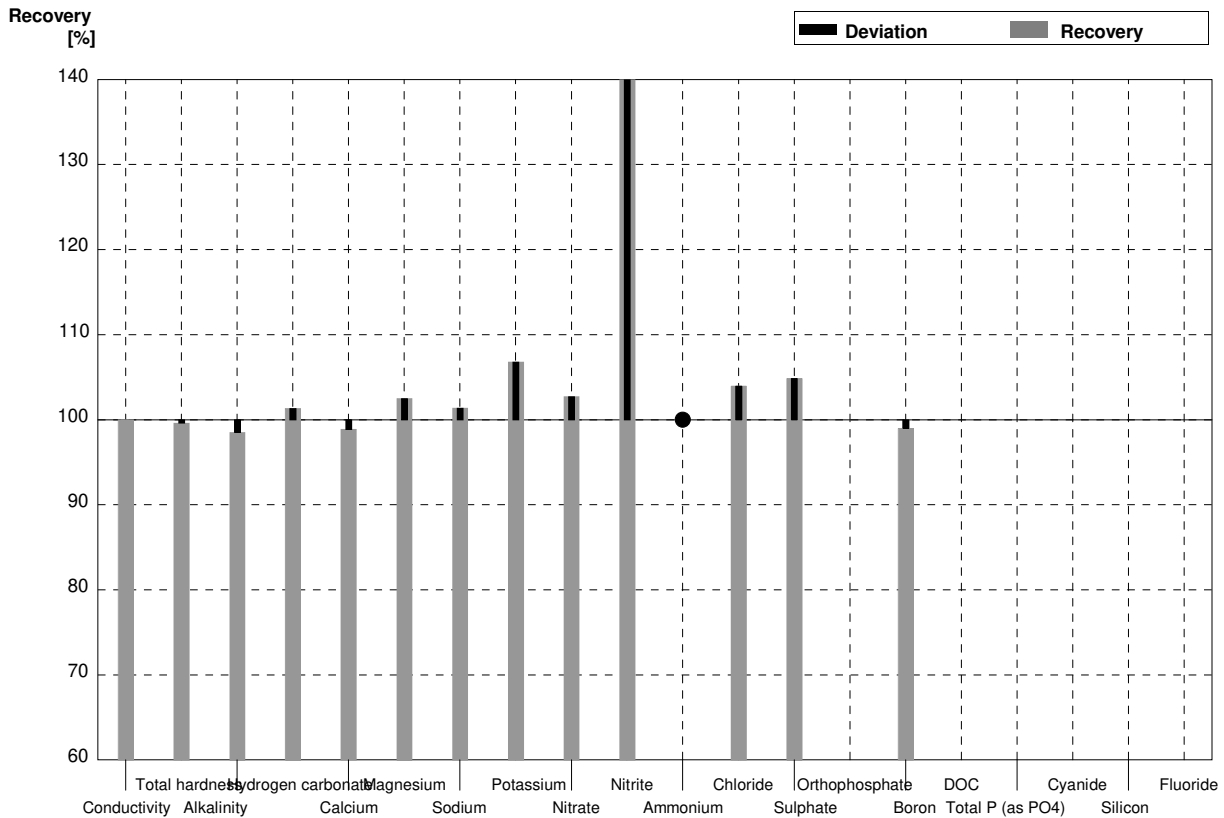
Sample N168A
Laboratory L

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	613	18	µS/cm	100%
Total hardness	2,60	0,03	2,59	0,36	mmol/l	100%
Alkalinity	3,33	0,04	3,27	0,33	mmol/l	98%
Hydrogen carbonate	200	3	199	20	mg/l	100%
Calcium	73,9	1,2	73,0	7,3	mg/l	99%
Magnesium	18,4	0,3	18,7	1,9	mg/l	102%
Sodium	18,14	0,13	18,4	1,8	mg/l	101%
Potassium	8,07	0,05	8,40	0,84	mg/l	104%
Nitrate	43,8	1,1	43,8	2,2	mg/l	100%
Nitrite	0,0448	0,0004	0,113	0,034	mg/l	252%
Ammonium	0,0303	0,0047	<0,05		mg/l	•
Chloride	41,0	1,5	41,8	2,0	mg/l	102%
Sulphate	46,6	0,9	48,0	2,4	mg/l	103%
Orthophosphate	<0,009				mg/l	
Boron	0,1403	0,0013	0,132	0,013	mg/l	94%
DOC	5,06	0,05			mg/l	
Total P (as PO4)	<0,009				mg/l	
Cyanide	0,0397	0,0016			mg/l	
Silicon	4,49	0,03			mg/l	
Fluoride	0,701	0,018			mg/l	



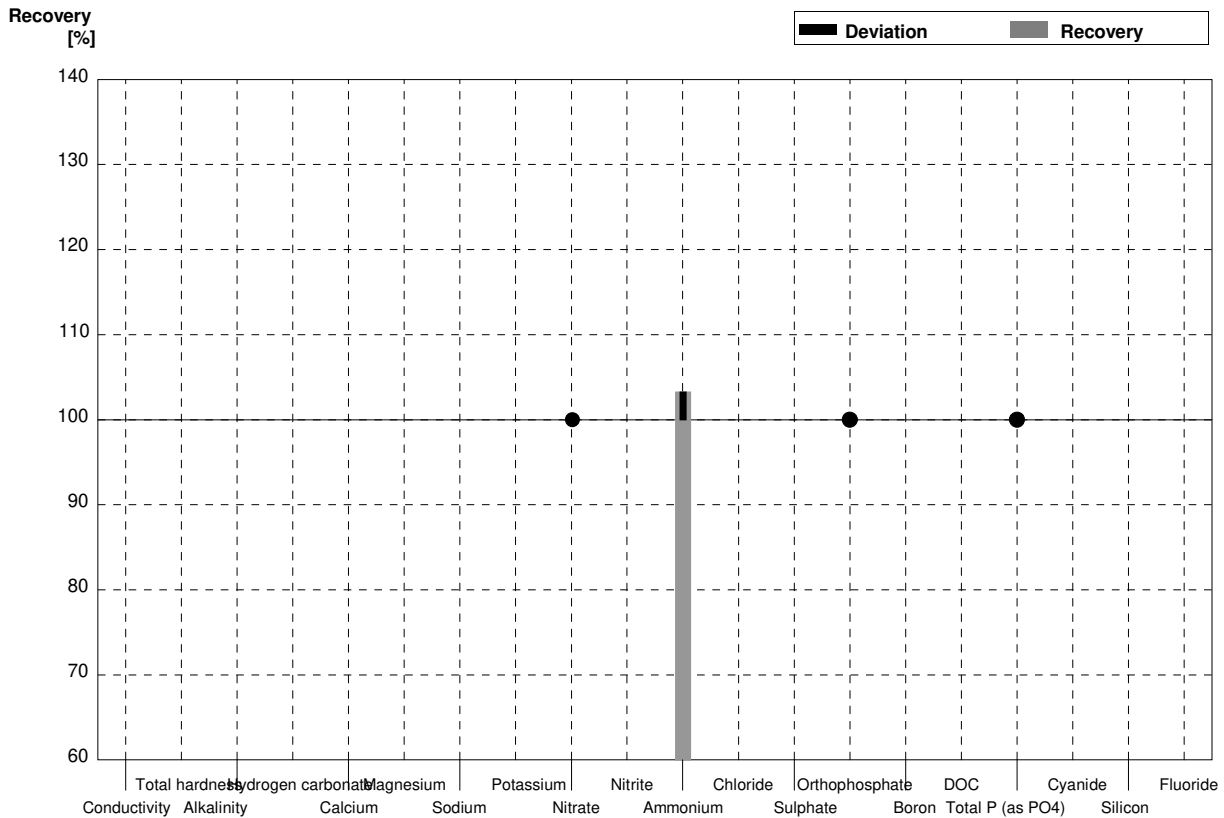
Sample N168B
Laboratory L

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	409	12	µS/cm	100%
Total hardness	1,285	0,015	1,28	0,18	mmol/l	100%
Alkalinity	2,04	0,03	2,01	0,20	mmol/l	99%
Hydrogen carbonate	121,4	1,5	123	12	mg/l	101%
Calcium	35,8	0,5	35,4	3,5	mg/l	99%
Magnesium	9,54	0,18	9,78	0,98	mg/l	103%
Sodium	29,2	0,3	29,6	3,0	mg/l	101%
Potassium	5,76	0,03	6,15	0,62	mg/l	107%
Nitrate	11,0	0,3	11,3	2,1	mg/l	103%
Nitrite	0,0254	0,0003	0,074	0,022	mg/l	291%
Ammonium	<0,01		<0,05		mg/l	•
Chloride	35,1	0,5	36,5	1,8	mg/l	104%
Sulphate	34,9	0,7	36,6	1,8	mg/l	105%
Orthophosphate	0,0829	0,0009			mg/l	
Boron	0,1010	0,0007	0,100	0,010	mg/l	99%
DOC	8,14	0,06			mg/l	
Total P (as PO4)	0,1216	0,0010			mg/l	
Cyanide	0,0704	0,0017			mg/l	
Silicon	5,99	0,03			mg/l	
Fluoride	0,270	0,007			mg/l	



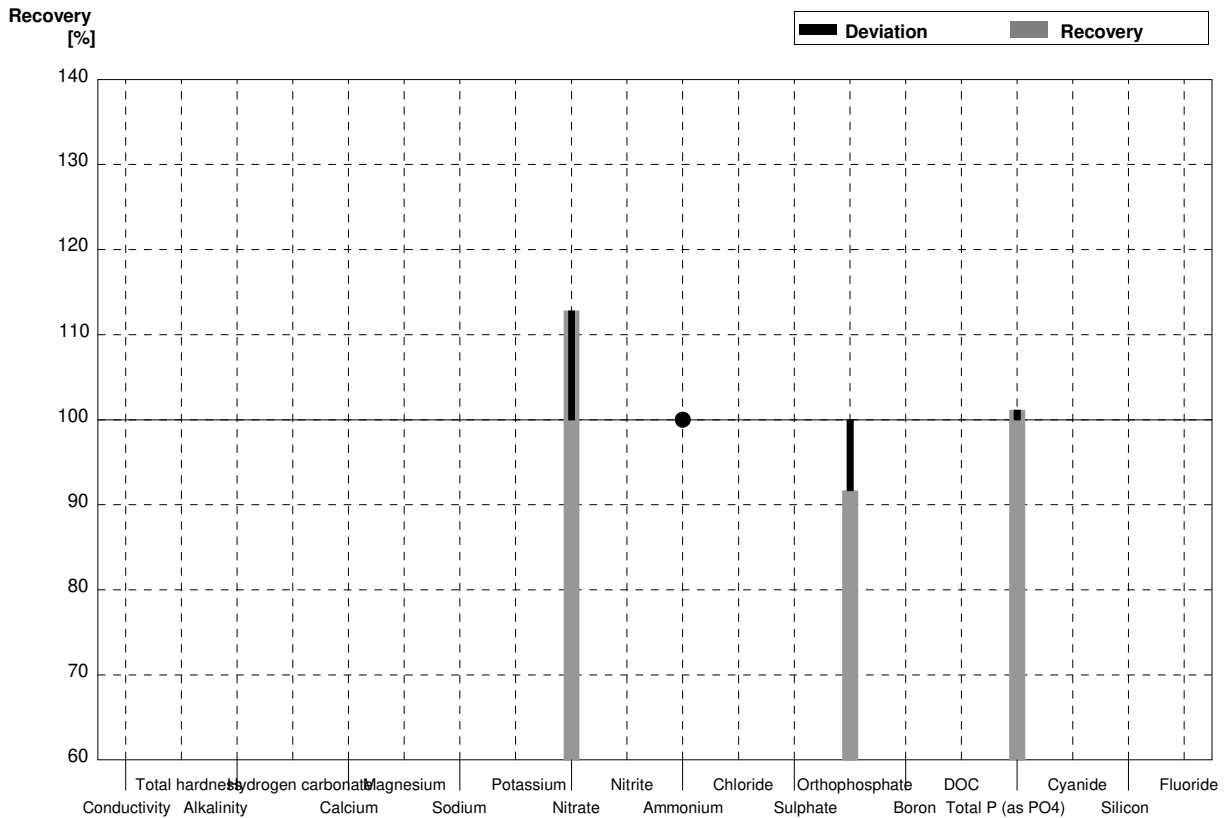
Sample N168A
Laboratory M

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2			µS/cm	
Total hardness	2,60	0,03			mmol/l	
Alkalinity	3,33	0,04			mmol/l	
Hydrogen carbonate	200	3			mg/l	
Calcium	73,9	1,2			mg/l	
Magnesium	18,4	0,3			mg/l	
Sodium	18,14	0,13			mg/l	
Potassium	8,07	0,05			mg/l	
Nitrate	43,8	1,1	>30		mg/l	•
Nitrite	0,0448	0,0004			mg/l	
Ammonium	0,0303	0,0047	0,0313	0,00150	mg/l	103%
Chloride	41,0	1,5			mg/l	
Sulphate	46,6	0,9			mg/l	
Orthophosphate	<0,009		<0,019		mg/l	•
Boron	0,1403	0,0013			mg/l	
DOC	5,06	0,05			mg/l	
Total P (as PO4)	<0,009		<0,02		mg/l	•
Cyanide	0,0397	0,0016			mg/l	
Silicon	4,49	0,03			mg/l	
Fluoride	0,701	0,018			mg/l	



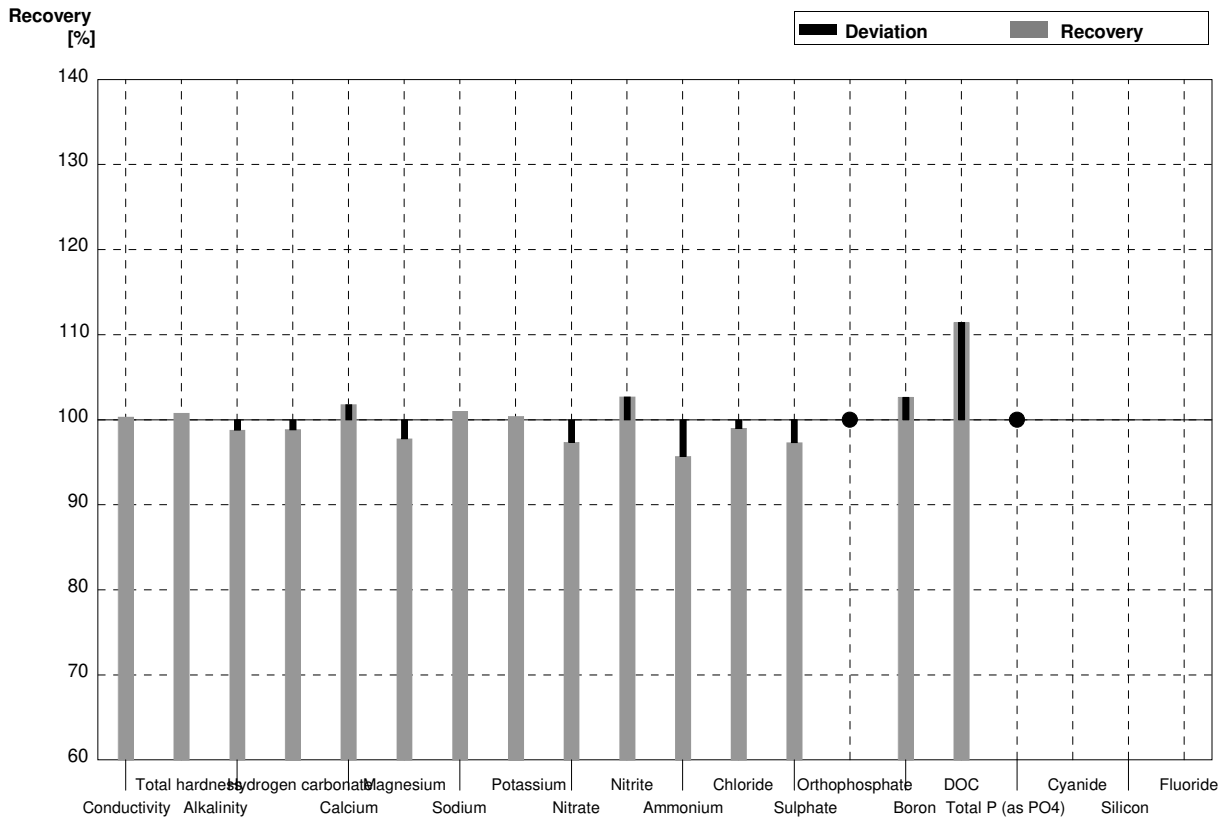
Sample N168B
Laboratory M

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1			µS/cm	
Total hardness	1,285	0,015			mmol/l	
Alkalinity	2,04	0,03			mmol/l	
Hydrogen carbonate	121,4	1,5			mg/l	
Calcium	35,8	0,5			mg/l	
Magnesium	9,54	0,18			mg/l	
Sodium	29,2	0,3			mg/l	
Potassium	5,76	0,03			mg/l	
Nitrate	11,0	0,3	12,41	1,86	mg/l	113%
Nitrite	0,0254	0,0003			mg/l	
Ammonium	<0,01		<0,01		mg/l	•
Chloride	35,1	0,5			mg/l	
Sulphate	34,9	0,7			mg/l	
Orthophosphate	0,0829	0,0009	0,076	0,0063	mg/l	92%
Boron	0,1010	0,0007			mg/l	
DOC	8,14	0,06			mg/l	
Total P (as PO4)	0,1216	0,0010	0,123	0,0105	mg/l	101%
Cyanide	0,0704	0,0017			mg/l	
Silicon	5,99	0,03			mg/l	
Fluoride	0,270	0,007			mg/l	



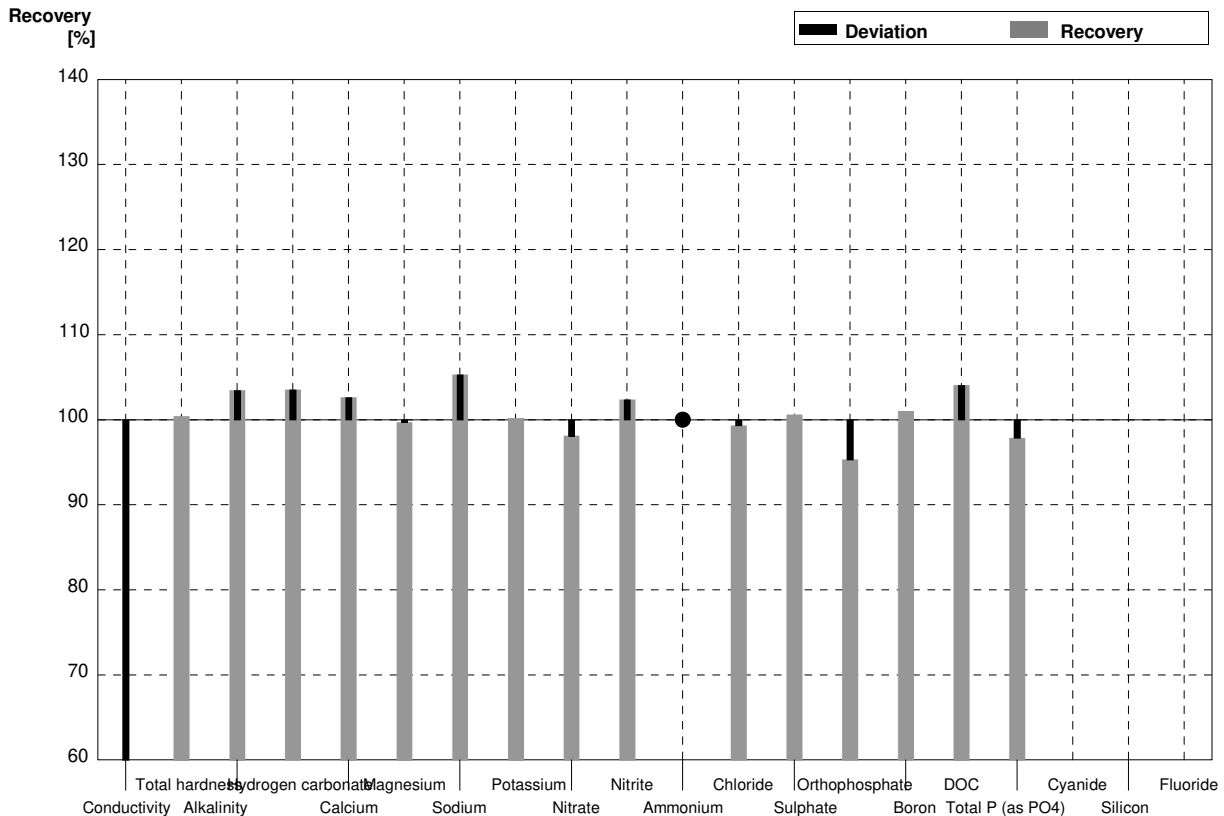
Sample N168A
Laboratory N

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	616	4,51	µS/cm	100%
Total hardness	2,60	0,03	2,62		mmol/l	101%
Alkalinity	3,33	0,04	3,29	0,33	mmol/l	99%
Hydrogen carbonate	200	3	197,67		mg/l	99%
Calcium	73,9	1,2	75,24	7,5	mg/l	102%
Magnesium	18,4	0,3	17,99	1,8	mg/l	98%
Sodium	18,14	0,13	18,32	1,8	mg/l	101%
Potassium	8,07	0,05	8,10	0,8	mg/l	100%
Nitrate	43,8	1,1	42,64	4,2	mg/l	97%
Nitrite	0,0448	0,0004	0,0460	0,005	mg/l	103%
Ammonium	0,0303	0,0047	0,0290	0,003	mg/l	96%
Chloride	41,0	1,5	40,59	4,1	mg/l	99%
Sulphate	46,6	0,9	45,35	4,5	mg/l	97%
Orthophosphate	<0,009		<0,0015		mg/l	•
Boron	0,1403	0,0013	0,144	0,014	mg/l	103%
DOC	5,06	0,05	5,64	0,6	mg/l	111%
Total P (as PO4)	<0,009		<0,0036		mg/l	•
Cyanide	0,0397	0,0016			mg/l	
Silicon	4,49	0,03			mg/l	
Fluoride	0,701	0,018			mg/l	



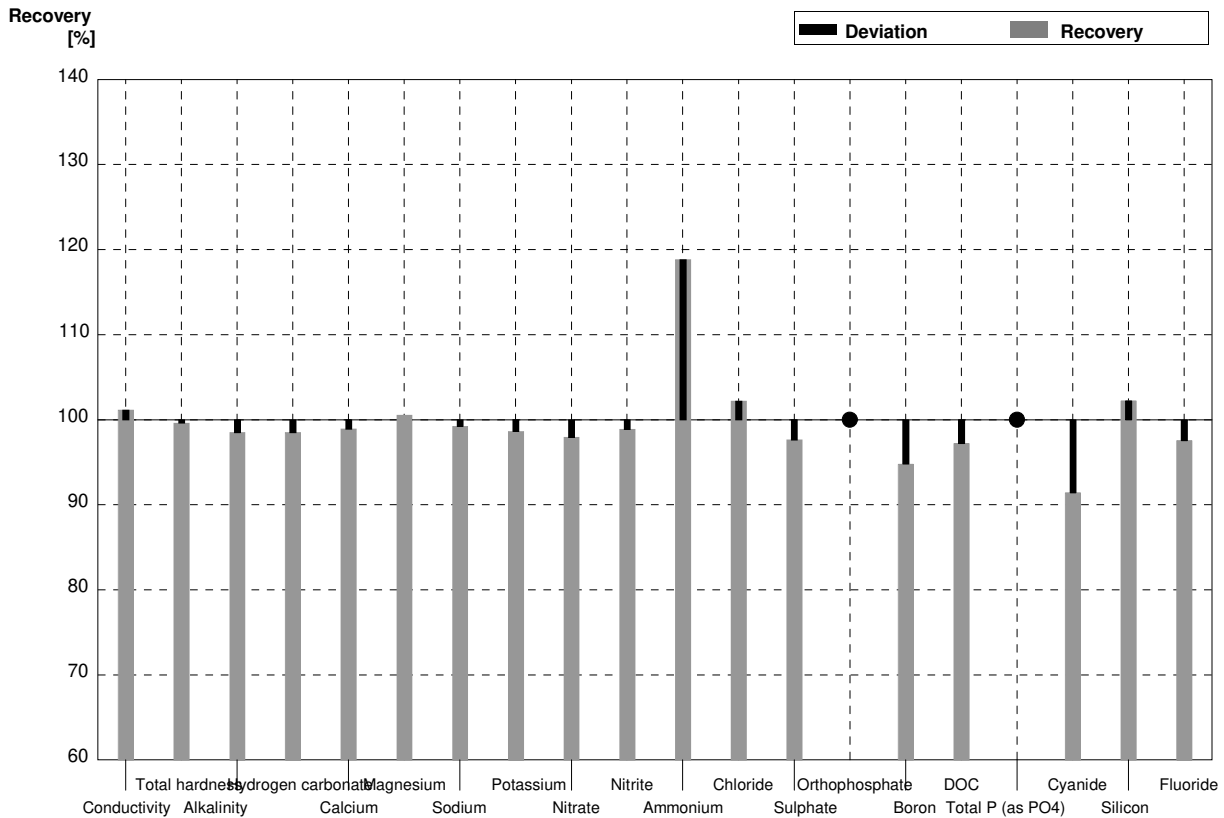
Sample N168B
Laboratory N

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	4,11	4,51	µS/cm	1%
Total hardness	1,285	0,015	1,29		mmol/l	100%
Alkalinity	2,04	0,03	2,11	0,21	mmol/l	103%
Hydrogen carbonate	121,4	1,5	125,68		mg/l	104%
Calcium	35,8	0,5	36,74	3,7	mg/l	103%
Magnesium	9,54	0,18	9,51	0,9	mg/l	100%
Sodium	29,2	0,3	30,75	3,1	mg/l	105%
Potassium	5,76	0,03	5,77	0,6	mg/l	100%
Nitrate	11,0	0,3	10,79	1,0	mg/l	98%
Nitrite	0,0254	0,0003	0,0260	0,003	mg/l	102%
Ammonium	<0,01		<0,009		mg/l	•
Chloride	35,1	0,5	34,86	3,5	mg/l	99%
Sulphate	34,9	0,7	35,11	3,5	mg/l	101%
Orthophosphate	0,0829	0,0009	0,0790	0,008	mg/l	95%
Boron	0,1010	0,0007	0,102	0,010	mg/l	101%
DOC	8,14	0,06	8,47	0,9	mg/l	104%
Total P (as PO4)	0,1216	0,0010	0,119	0,012	mg/l	98%
Cyanide	0,0704	0,0017			mg/l	
Silicon	5,99	0,03			mg/l	
Fluoride	0,270	0,007			mg/l	



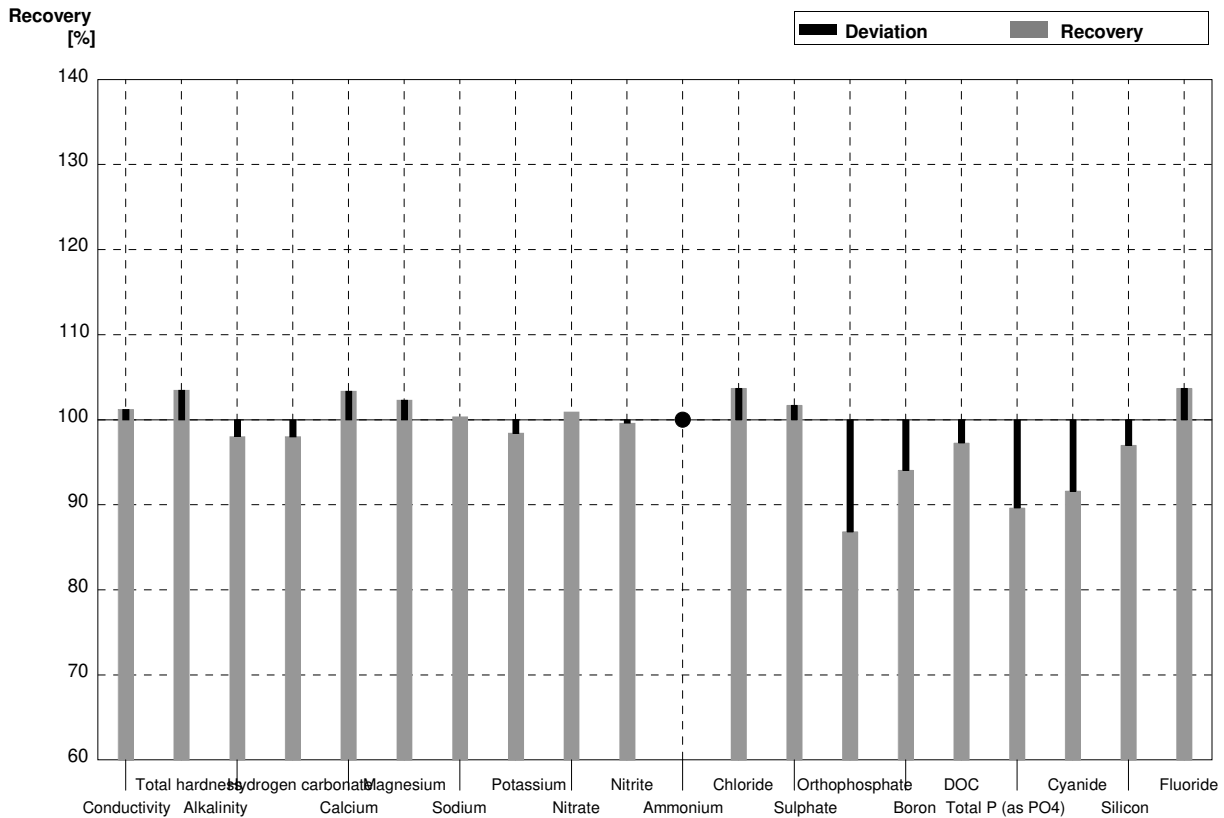
Sample N168A
Laboratory O

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	621	62	µS/cm	101%
Total hardness	2,60	0,03	2,59	0,26	mmol/l	100%
Alkalinity	3,33	0,04	3,28	0,33	mmol/l	98%
Hydrogen carbonate	200	3	197	20	mg/l	99%
Calcium	73,9	1,2	73,1	7,3	mg/l	99%
Magnesium	18,4	0,3	18,5	1,9	mg/l	101%
Sodium	18,14	0,13	18,0	1,8	mg/l	99%
Potassium	8,07	0,05	7,96	0,80	mg/l	99%
Nitrate	43,8	1,1	42,9	4,3	mg/l	98%
Nitrite	0,0448	0,0004	0,0443	0,0044	mg/l	99%
Ammonium	0,0303	0,0047	0,0360	0,0036	mg/l	119%
Chloride	41,0	1,5	41,9	4,2	mg/l	102%
Sulphate	46,6	0,9	45,5	4,5	mg/l	98%
Orthophosphate	<0,009		<0,008		mg/l	•
Boron	0,1403	0,0013	0,133	0,013	mg/l	95%
DOC	5,06	0,05	4,92	0,49	mg/l	97%
Total P (as PO4)	<0,009		<0,015		mg/l	•
Cyanide	0,0397	0,0016	0,0363	0,0036	mg/l	91%
Silicon	4,49	0,03	4,59	0,46	mg/l	102%
Fluoride	0,701	0,018	0,684	0,068	mg/l	98%



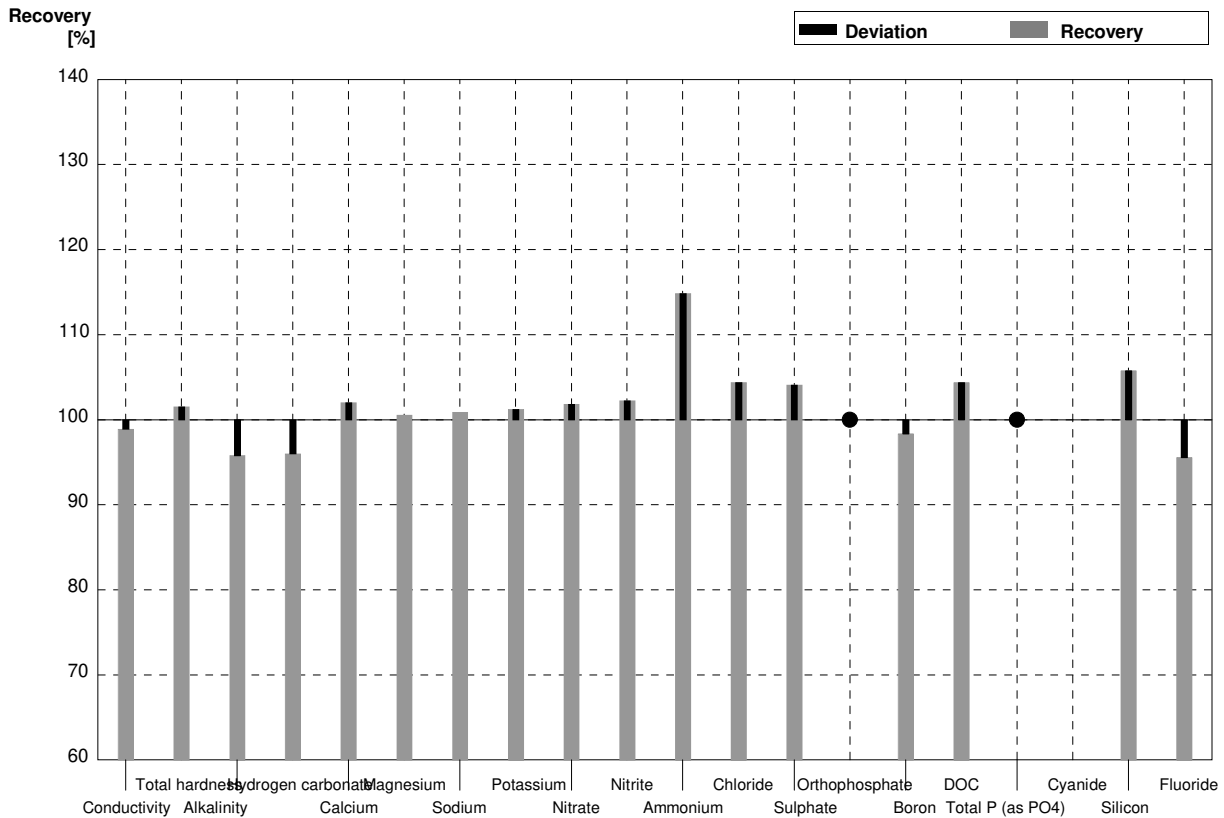
Sample N168B
Laboratory O

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	414	41	µS/cm	101%
Total hardness	1,285	0,015	1,33	0,13	mmol/l	104%
Alkalinity	2,04	0,03	2,00	0,20	mmol/l	98%
Hydrogen carbonate	121,4	1,5	119	12	mg/l	98%
Calcium	35,8	0,5	37,0	3,7	mg/l	103%
Magnesium	9,54	0,18	9,76	0,98	mg/l	102%
Sodium	29,2	0,3	29,3	2,9	mg/l	100%
Potassium	5,76	0,03	5,67	0,57	mg/l	98%
Nitrate	11,0	0,3	11,1	1,1	mg/l	101%
Nitrite	0,0254	0,0003	0,0253	0,0025	mg/l	100%
Ammonium	<0,01		<0,010		mg/l	•
Chloride	35,1	0,5	36,4	3,6	mg/l	104%
Sulphate	34,9	0,7	35,5	3,6	mg/l	102%
Orthophosphate	0,0829	0,0009	0,072	0,007	mg/l	87%
Boron	0,1010	0,0007	0,095	0,010	mg/l	94%
DOC	8,14	0,06	7,92	0,79	mg/l	97%
Total P (as PO4)	0,1216	0,0010	0,109	0,022	mg/l	90%
Cyanide	0,0704	0,0017	0,0645	0,0065	mg/l	92%
Silicon	5,99	0,03	5,81	0,58	mg/l	97%
Fluoride	0,270	0,007	0,280	0,028	mg/l	104%



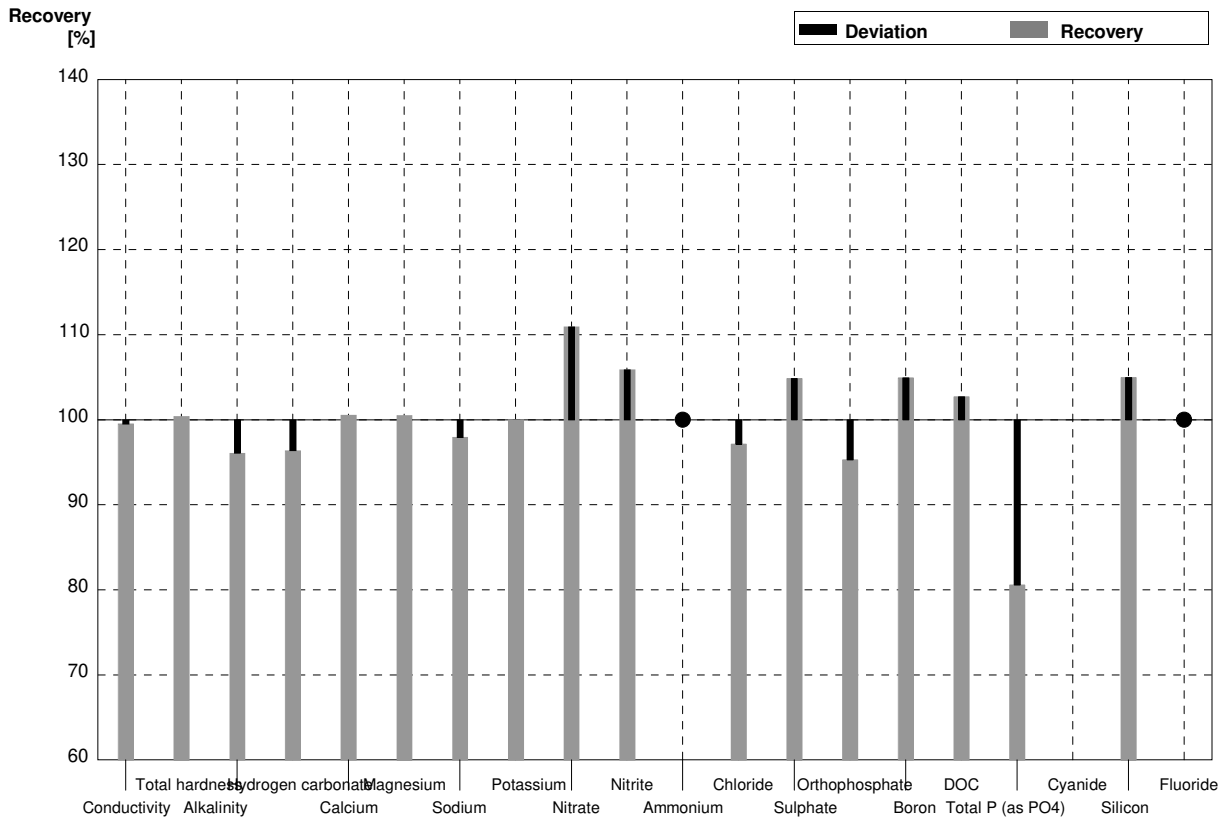
Sample N168A
Laboratory P

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	607,3		µS/cm	99%
Total hardness	2,60	0,03	2,64		mmol/l	102%
Alkalinity	3,33	0,04	3,19		mmol/l	96%
Hydrogen carbonate	200	3	192		mg/l	96%
Calcium	73,9	1,2	75,4		mg/l	102%
Magnesium	18,4	0,3	18,5		mg/l	101%
Sodium	18,14	0,13	18,3		mg/l	101%
Potassium	8,07	0,05	8,17		mg/l	101%
Nitrate	43,8	1,1	44,6		mg/l	102%
Nitrite	0,0448	0,0004	0,0458		mg/l	102%
Ammonium	0,0303	0,0047	0,0348		mg/l	115%
Chloride	41,0	1,5	42,8		mg/l	104%
Sulphate	46,6	0,9	48,5		mg/l	104%
Orthophosphate	<0,009		<0,01		mg/l	•
Boron	0,1403	0,0013	0,138		mg/l	98%
DOC	5,06	0,05	5,282		mg/l	104%
Total P (as PO4)	<0,009		<0,03		mg/l	•
Cyanide	0,0397	0,0016			mg/l	
Silicon	4,49	0,03	4,75		mg/l	106%
Fluoride	0,701	0,018	0,67		mg/l	96%



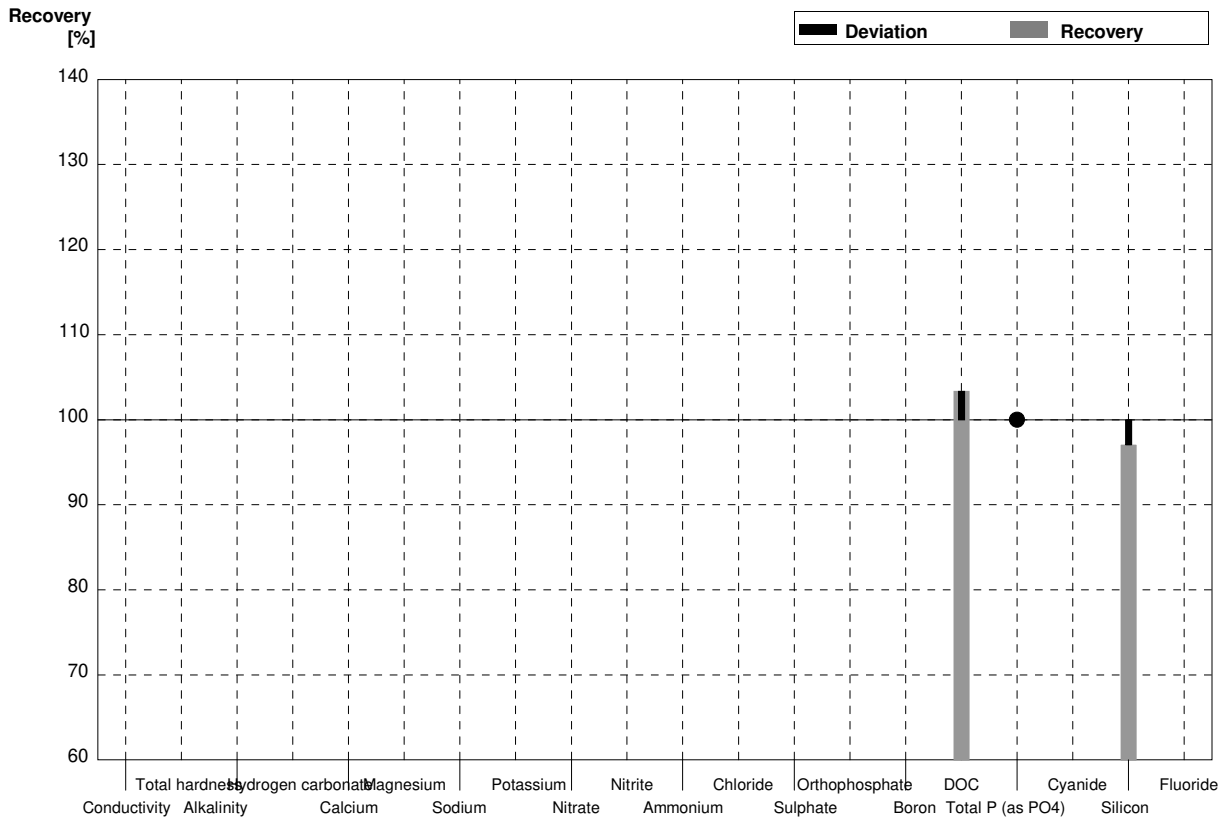
Sample N168B
Laboratory P

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	407		µS/cm	100%
Total hardness	1,285	0,015	1,29		mmol/l	100%
Alkalinity	2,04	0,03	1,96		mmol/l	96%
Hydrogen carbonate	121,4	1,5	117		mg/l	96%
Calcium	35,8	0,5	36,0		mg/l	101%
Magnesium	9,54	0,18	9,59		mg/l	101%
Sodium	29,2	0,3	28,6		mg/l	98%
Potassium	5,76	0,03	5,76		mg/l	100%
Nitrate	11,0	0,3	12,2		mg/l	111%
Nitrite	0,0254	0,0003	0,0269		mg/l	106%
Ammonium	<0,01		<0,01		mg/l	•
Chloride	35,1	0,5	34,1		mg/l	97%
Sulphate	34,9	0,7	36,6		mg/l	105%
Orthophosphate	0,0829	0,0009	0,079		mg/l	95%
Boron	0,1010	0,0007	0,106		mg/l	105%
DOC	8,14	0,06	8,364		mg/l	103%
Total P (as PO4)	0,1216	0,0010	0,098		mg/l	81%
Cyanide	0,0704	0,0017			mg/l	
Silicon	5,99	0,03	6,29		mg/l	105%
Fluoride	0,270	0,007	<0,5		mg/l	•



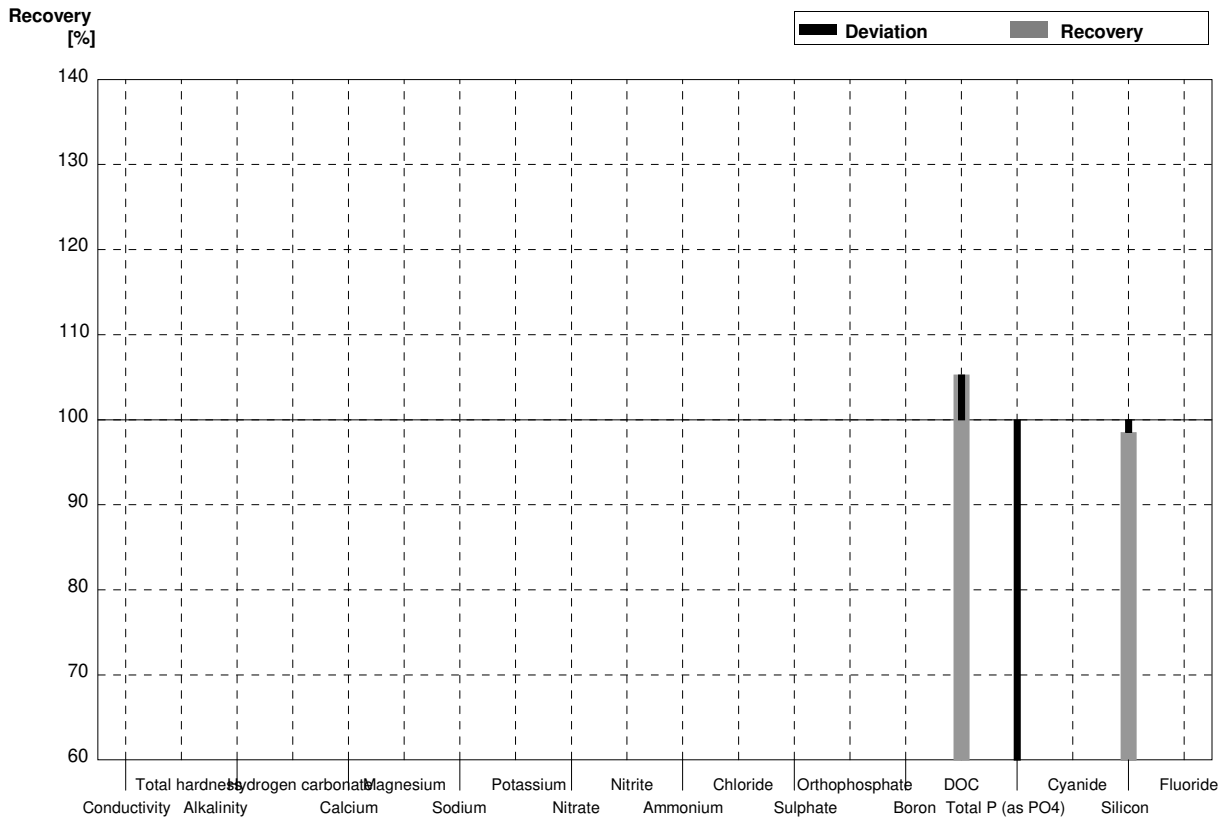
Sample N168A
Laboratory Q

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2			µS/cm	
Total hardness	2,60	0,03			mmol/l	
Alkalinity	3,33	0,04			mmol/l	
Hydrogen carbonate	200	3			mg/l	
Calcium	73,9	1,2			mg/l	
Magnesium	18,4	0,3			mg/l	
Sodium	18,14	0,13			mg/l	
Potassium	8,07	0,05			mg/l	
Nitrate	43,8	1,1			mg/l	
Nitrite	0,0448	0,0004			mg/l	
Ammonium	0,0303	0,0047			mg/l	
Chloride	41,0	1,5			mg/l	
Sulphate	46,6	0,9			mg/l	
Orthophosphate	<0,009				mg/l	
Boron	0,1403	0,0013			mg/l	
DOC	5,06	0,05	5,23	0,8	mg/l	103%
Total P (as PO4)	<0,009		<0,01		mg/l	•
Cyanide	0,0397	0,0016			mg/l	
Silicon	4,49	0,03	4,358	0,3	mg/l	97%
Fluoride	0,701	0,018			mg/l	



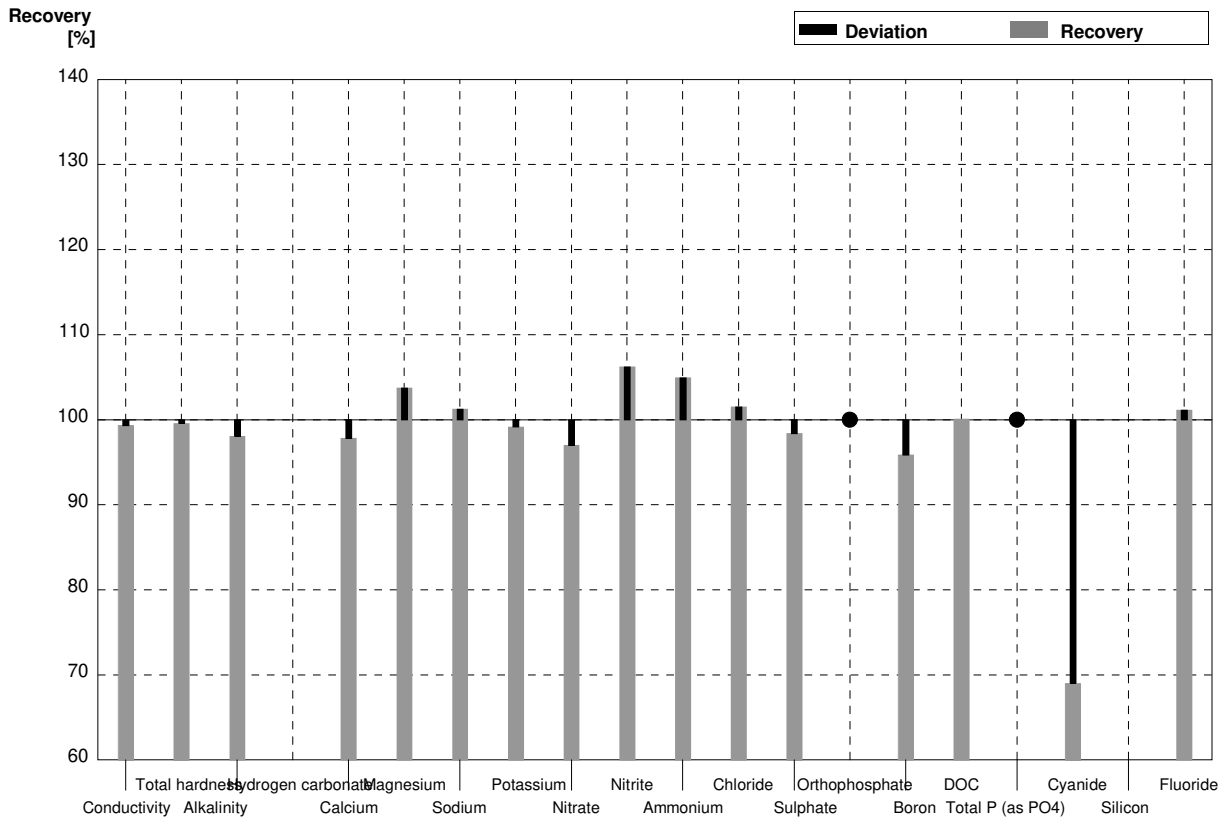
Sample N168B
Laboratory Q

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1			µS/cm	
Total hardness	1,285	0,015			mmol/l	
Alkalinity	2,04	0,03			mmol/l	
Hydrogen carbonate	121,4	1,5			mg/l	
Calcium	35,8	0,5			mg/l	
Magnesium	9,54	0,18			mg/l	
Sodium	29,2	0,3			mg/l	
Potassium	5,76	0,03			mg/l	
Nitrate	11,0	0,3			mg/l	
Nitrite	0,0254	0,0003			mg/l	
Ammonium	<0,01				mg/l	
Chloride	35,1	0,5			mg/l	
Sulphate	34,9	0,7			mg/l	
Orthophosphate	0,0829	0,0009			mg/l	
Boron	0,1010	0,0007			mg/l	
DOC	8,14	0,06	8,57	1,3	mg/l	105%
Total P (as PO4)	0,1216	0,0010	0,0410	0,0045	mg/l	34%
Cyanide	0,0704	0,0017			mg/l	
Silicon	5,99	0,03	5,902	0,35	mg/l	99%
Fluoride	0,270	0,007			mg/l	



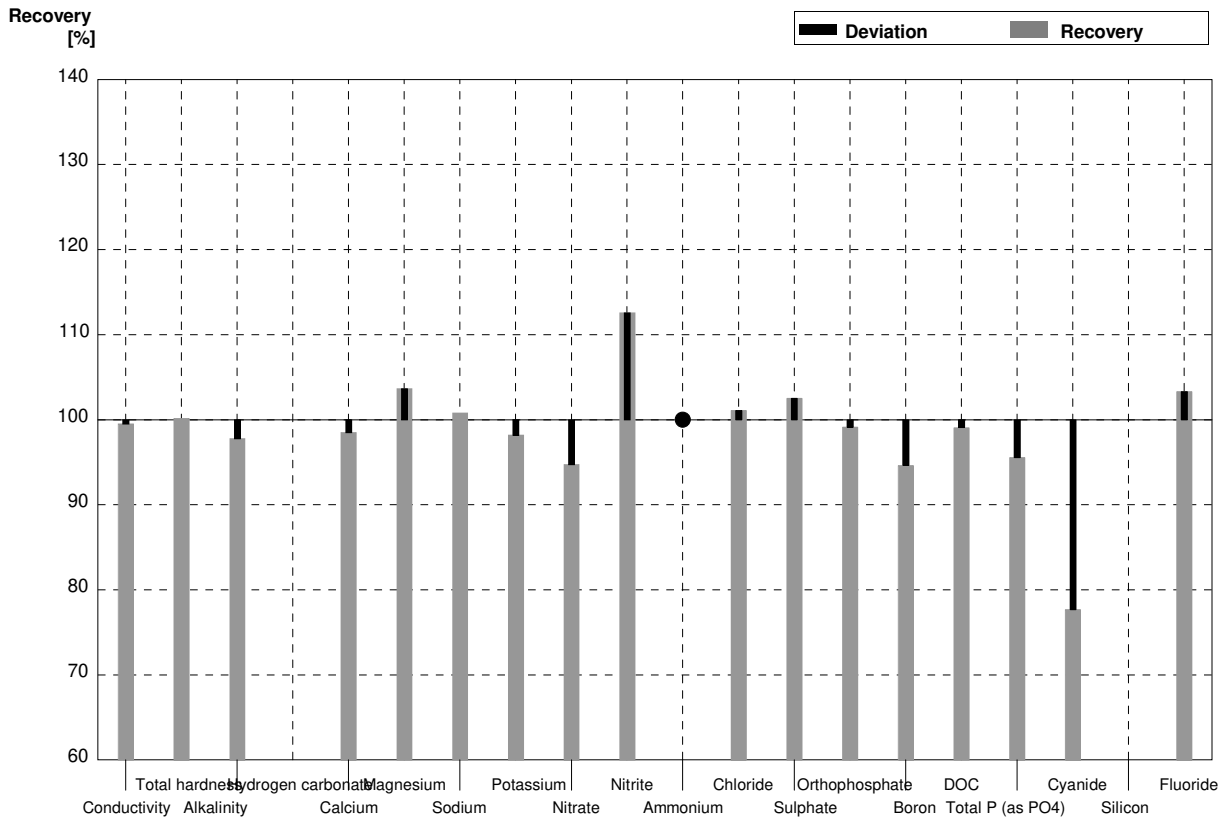
Sample N168A
Laboratory R

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	610	18,3	µS/cm	99%
Total hardness	2,60	0,03	2,589		mmol/l	100%
Alkalinity	3,33	0,04	3,266		mmol/l	98%
Hydrogen carbonate	200	3			mg/l	
Calcium	73,9	1,2	72,301	3,83	mg/l	98%
Magnesium	18,4	0,3	19,087	1,53	mg/l	104%
Sodium	18,14	0,13	18,369	1,27	mg/l	101%
Potassium	8,07	0,05	8,003	0,46	mg/l	99%
Nitrate	43,8	1,1	42,484	1,99	mg/l	97%
Nitrite	0,0448	0,0004	0,0476	0,0046	mg/l	106%
Ammonium	0,0303	0,0047	0,0318	0,0022	mg/l	105%
Chloride	41,0	1,5	41,628	1,54	mg/l	102%
Sulphate	46,6	0,9	45,847	2,15	mg/l	98%
Orthophosphate	<0,009		<0,015		mg/l	•
Boron	0,1403	0,0013	0,1345	0,029	mg/l	96%
DOC	5,06	0,05	5,064	0,56	mg/l	100%
Total P (as PO4)	<0,009		<0,015		mg/l	•
Cyanide	0,0397	0,0016	0,0274	0,01	mg/l	69%
Silicon	4,49	0,03			mg/l	
Fluoride	0,701	0,018	0,709	0,11	mg/l	101%



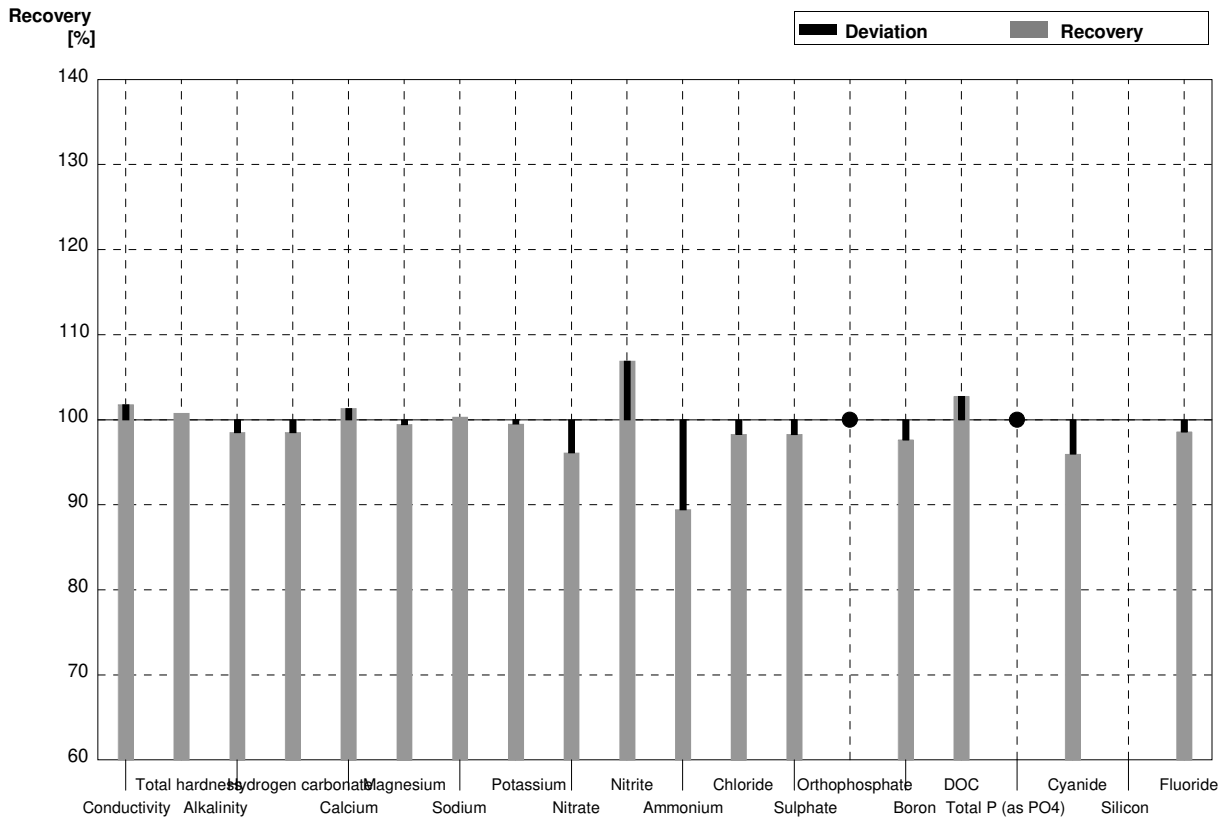
Sample N168B
Laboratory R

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	407	12,21	µS/cm	100%
Total hardness	1,285	0,015	1,287		mmol/l	100%
Alkalinity	2,04	0,03	1,995		mmol/l	98%
Hydrogen carbonate	121,4	1,5			mg/l	
Calcium	35,8	0,5	35,264	1,87	mg/l	99%
Magnesium	9,54	0,18	9,889	0,79	mg/l	104%
Sodium	29,2	0,3	29,435	2,03	mg/l	101%
Potassium	5,76	0,03	5,657	0,33	mg/l	98%
Nitrate	11,0	0,3	10,421	0,49	mg/l	95%
Nitrite	0,0254	0,0003	0,0286	0,0028	mg/l	113%
Ammonium	<0,01		<0,013		mg/l	•
Chloride	35,1	0,5	35,49	1,31	mg/l	101%
Sulphate	34,9	0,7	35,791	1,68	mg/l	103%
Orthophosphate	0,0829	0,0009	0,0822	0,0032	mg/l	99%
Boron	0,1010	0,0007	0,0956	0,021	mg/l	95%
DOC	8,14	0,06	8,066	0,9	mg/l	99%
Total P (as PO4)	0,1216	0,0010	0,1162	0,0175	mg/l	96%
Cyanide	0,0704	0,0017	0,0547	0,02	mg/l	78%
Silicon	5,99	0,03			mg/l	
Fluoride	0,270	0,007	0,279	0,043	mg/l	103%



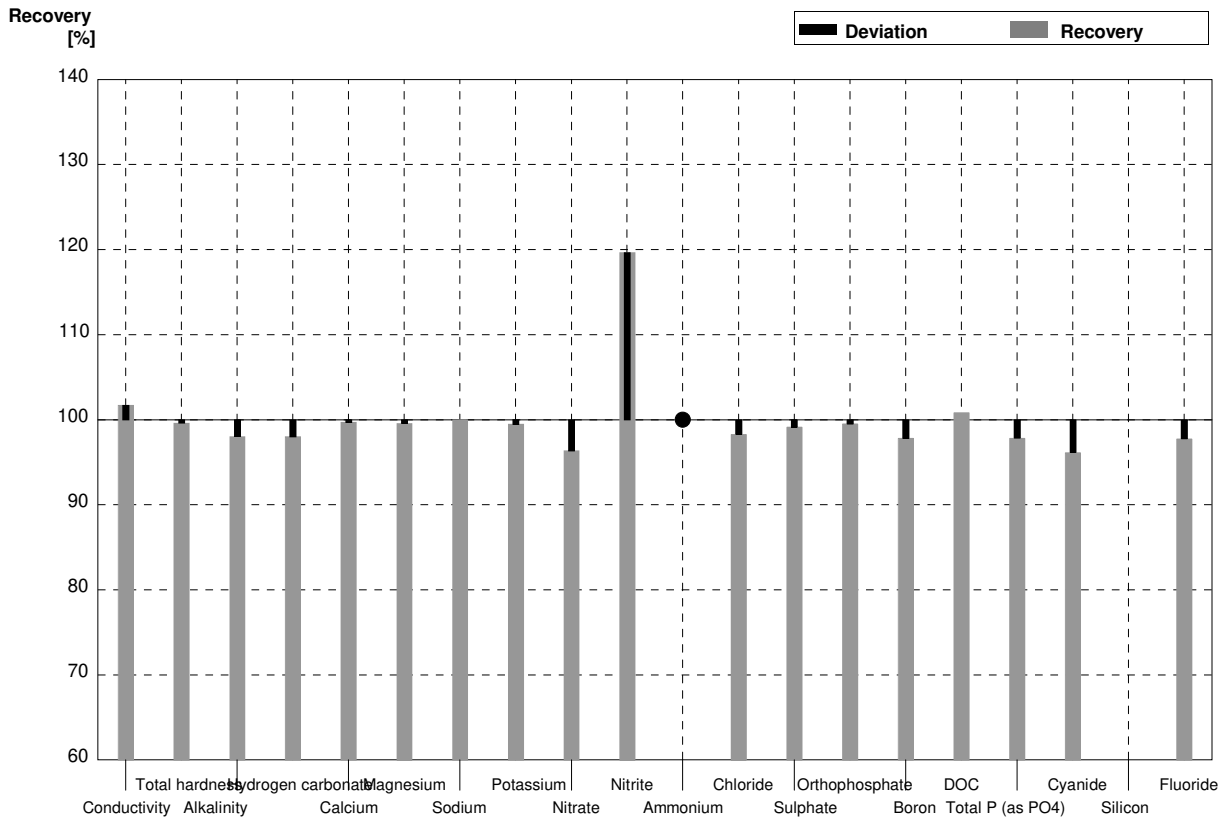
Sample N168A
Laboratory S

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	625	2,25	µS/cm	102%
Total hardness	2,60	0,03	2,62	0,0367	mmol/l	101%
Alkalinity	3,33	0,04	3,28	0,115	mmol/l	98%
Hydrogen carbonate	200	3	197	3,94	mg/l	99%
Calcium	73,9	1,2	74,9	0,790	mg/l	101%
Magnesium	18,4	0,3	18,3	0,753	mg/l	99%
Sodium	18,14	0,13	18,2	0,262	mg/l	100%
Potassium	8,07	0,05	8,03	0,287	mg/l	100%
Nitrate	43,8	1,1	42,1	0,442	mg/l	96%
Nitrite	0,0448	0,0004	0,0479	0,00121	mg/l	107%
Ammonium	0,0303	0,0047	0,0271	0,00093	mg/l	89%
Chloride	41,0	1,5	40,3	0,462	mg/l	98%
Sulphate	46,6	0,9	45,8	0,632	mg/l	98%
Orthophosphate	<0,009		<0,0150		mg/l	•
Boron	0,1403	0,0013	0,137	0,00094	mg/l	98%
DOC	5,06	0,05	5,20	0,0191	mg/l	103%
Total P (as PO4)	<0,009		<0,0150		mg/l	•
Cyanide	0,0397	0,0016	0,0381	0,00048	mg/l	96%
Silicon	4,49	0,03			mg/l	
Fluoride	0,701	0,018	0,691	0,0111	mg/l	99%



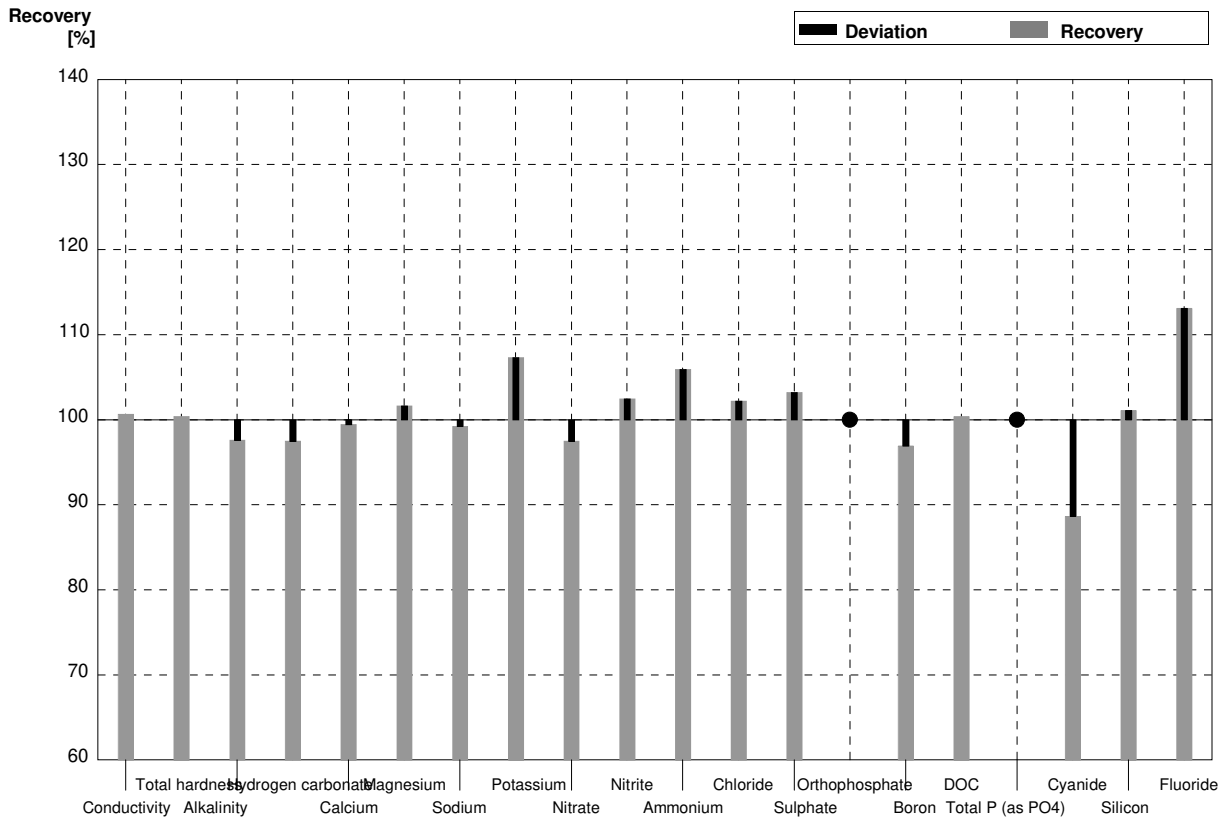
Sample N168B
Laboratory S

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	416	0,127	µS/cm	102%
Total hardness	1,285	0,015	1,28	0,0182	mmol/l	100%
Alkalinity	2,04	0,03	2,00	0,0891	mmol/l	98%
Hydrogen carbonate	121,4	1,5	119	2,38	mg/l	98%
Calcium	35,8	0,5	35,7	0,727	mg/l	100%
Magnesium	9,54	0,18	9,50	0,0383	mg/l	100%
Sodium	29,2	0,3	29,2	0,274	mg/l	100%
Potassium	5,76	0,03	5,73	0,297	mg/l	99%
Nitrate	11,0	0,3	10,6	0,615	mg/l	96%
Nitrite	0,0254	0,0003	0,0304	0,00124	mg/l	120%
Ammonium	<0,01		<0,0100		mg/l	•
Chloride	35,1	0,5	34,5	1,13	mg/l	98%
Sulphate	34,9	0,7	34,6	0,664	mg/l	99%
Orthophosphate	0,0829	0,0009	0,0825	0,00122	mg/l	100%
Boron	0,1010	0,0007	0,0988	0,00092	mg/l	98%
DOC	8,14	0,06	8,21	0,0226	mg/l	101%
Total P (as PO4)	0,1216	0,0010	0,119	0,00143	mg/l	98%
Cyanide	0,0704	0,0017	0,0677	0,00054	mg/l	96%
Silicon	5,99	0,03			mg/l	
Fluoride	0,270	0,007	0,264	0,0121	mg/l	98%



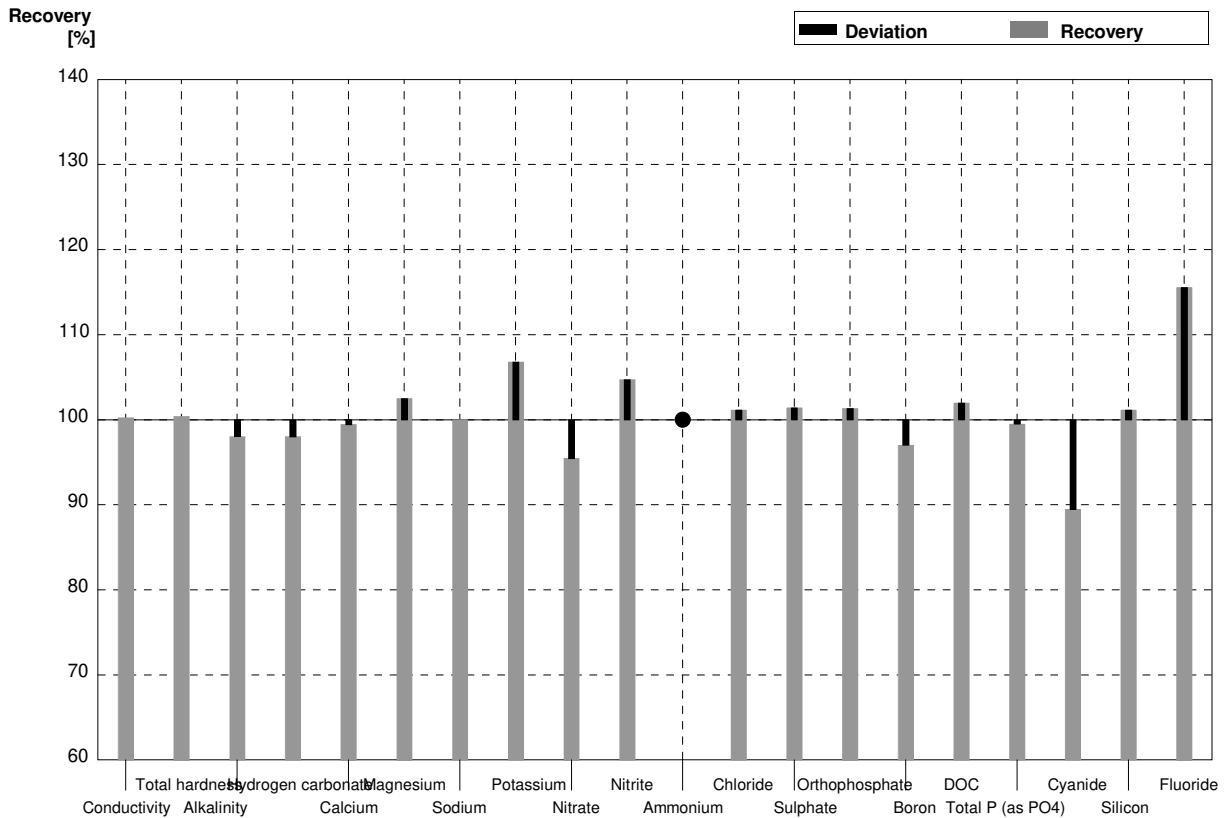
Sample N168A
Laboratory T

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	618	18	µS/cm	101%
Total hardness	2,60	0,03	2,61	0,21	mmol/l	100%
Alkalinity	3,33	0,04	3,25	0,13	mmol/l	98%
Hydrogen carbonate	200	3	195	8	mg/l	98%
Calcium	73,9	1,2	73,5	3,7	mg/l	99%
Magnesium	18,4	0,3	18,7	1,1	mg/l	102%
Sodium	18,14	0,13	18,0	0,8	mg/l	99%
Potassium	8,07	0,05	8,66	0,69	mg/l	107%
Nitrate	43,8	1,1	42,7	2,6	mg/l	97%
Nitrite	0,0448	0,0004	0,0459	0,004	mg/l	102%
Ammonium	0,0303	0,0047	0,0321	0,003	mg/l	106%
Chloride	41,0	1,5	41,9	2,1	mg/l	102%
Sulphate	46,6	0,9	48,1	2,9	mg/l	103%
Orthophosphate	<0,009		<0,006		mg/l	•
Boron	0,1403	0,0013	0,136	0,014	mg/l	97%
DOC	5,06	0,05	5,08	0,46	mg/l	100%
Total P (as PO4)	<0,009		<0,006		mg/l	•
Cyanide	0,0397	0,0016	0,0352	0,009	mg/l	89%
Silicon	4,49	0,03	4,54	0,50	mg/l	101%
Fluoride	0,701	0,018	0,793	0,118	mg/l	113%



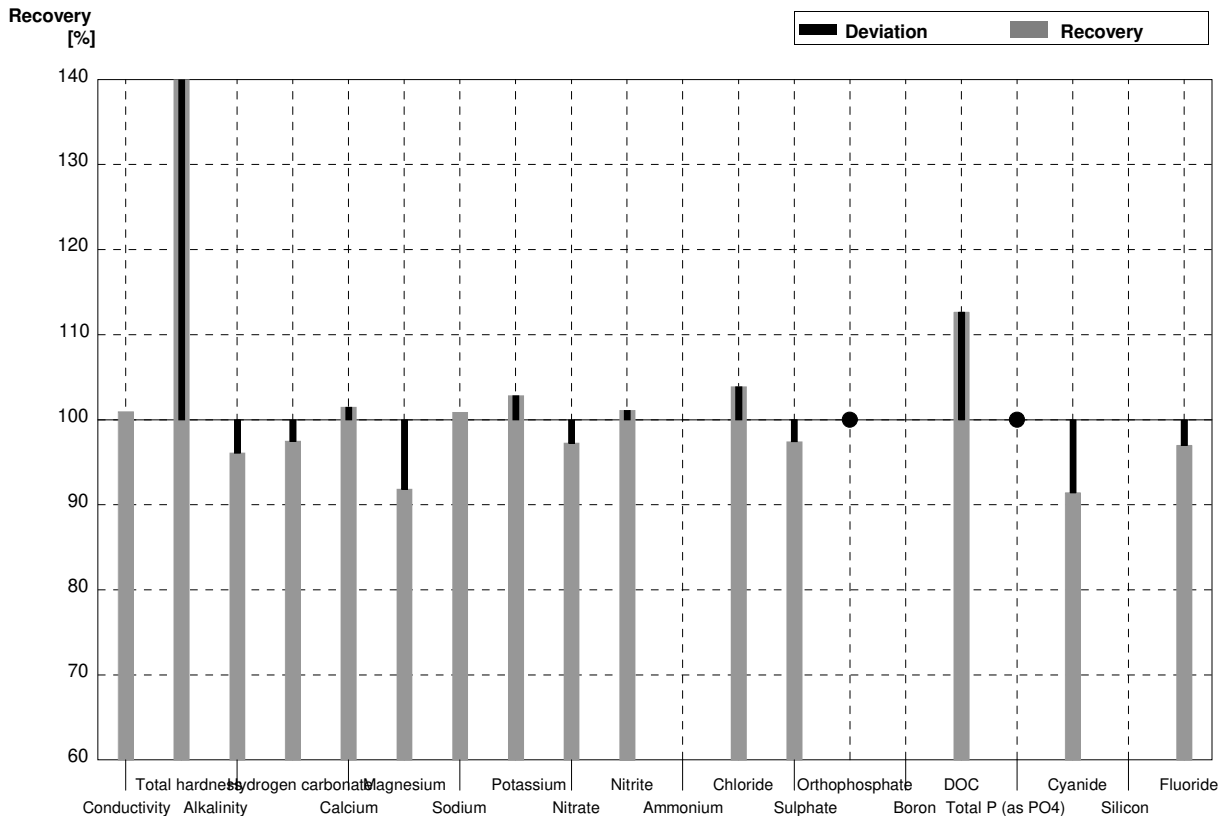
Sample N168B
Laboratory T

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	410	12	µS/cm	100%
Total hardness	1,285	0,015	1,29	0,11	mmol/l	100%
Alkalinity	2,04	0,03	2,00	0,08	mmol/l	98%
Hydrogen carbonate	121,4	1,5	119	5	mg/l	98%
Calcium	35,8	0,5	35,6	1,8	mg/l	99%
Magnesium	9,54	0,18	9,78	0,60	mg/l	103%
Sodium	29,2	0,3	29,2	1,2	mg/l	100%
Potassium	5,76	0,03	6,15	0,50	mg/l	107%
Nitrate	11,0	0,3	10,5	0,7	mg/l	95%
Nitrite	0,0254	0,0003	0,0266	0,003	mg/l	105%
Ammonium	<0,01		<0,008		mg/l	•
Chloride	35,1	0,5	35,5	1,8	mg/l	101%
Sulphate	34,9	0,7	35,4	2,1	mg/l	101%
Orthophosphate	0,0829	0,0009	0,084	0,005	mg/l	101%
Boron	0,1010	0,0007	0,098	0,010	mg/l	97%
DOC	8,14	0,06	8,30	0,75	mg/l	102%
Total P (as PO4)	0,1216	0,0010	0,121	0,009	mg/l	100%
Cyanide	0,0704	0,0017	0,063	0,015	mg/l	89%
Silicon	5,99	0,03	6,06	0,65	mg/l	101%
Fluoride	0,270	0,007	0,312	0,047	mg/l	116%



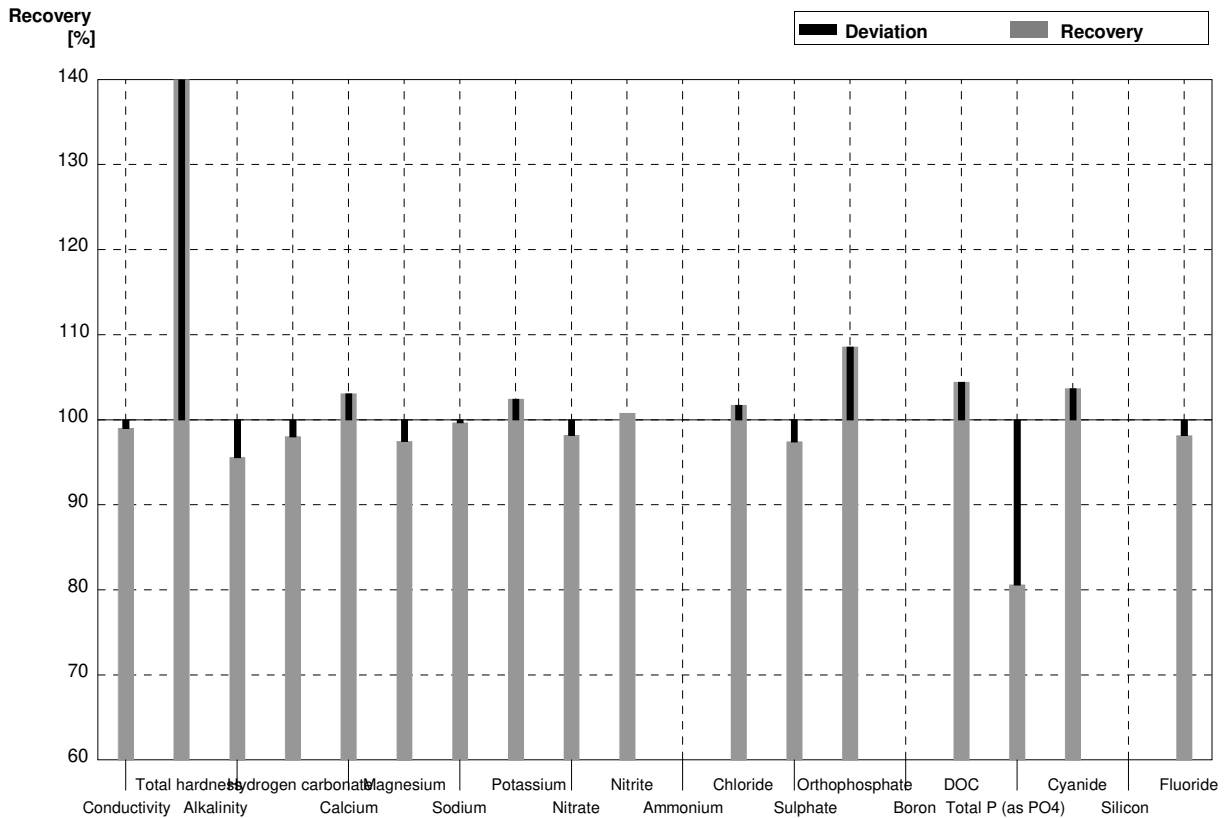
Sample N168A
Laboratory U

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	620	18	µS/cm	101%
Total hardness	2,60	0,03	14,3	2,6	mmol/l	550%
Alkalinity	3,33	0,04	3,20	0,15	mmol/l	96%
Hydrogen carbonate	200	3	195	8	mg/l	98%
Calcium	73,9	1,2	75	9,7	mg/l	101%
Magnesium	18,4	0,3	16,9	2,0	mg/l	92%
Sodium	18,14	0,13	18,3	2,2	mg/l	101%
Potassium	8,07	0,05	8,3	1,1	mg/l	103%
Nitrate	43,8	1,1	42,6	1,6	mg/l	97%
Nitrite	0,0448	0,0004	0,0453	0,0018	mg/l	101%
Ammonium	0,0303	0,0047			mg/l	
Chloride	41,0	1,5	42,6	2,0	mg/l	104%
Sulphate	46,6	0,9	45,4	2,09	mg/l	97%
Orthophosphate	<0,009		<0,02	0,005	mg/l	•
Boron	0,1403	0,0013			mg/l	
DOC	5,06	0,05	5,7	0,33	mg/l	113%
Total P (as PO4)	<0,009		<0,02	0,005	mg/l	•
Cyanide	0,0397	0,0016	0,0363	0,006	mg/l	91%
Silicon	4,49	0,03			mg/l	
Fluoride	0,701	0,018	0,68	0,03	mg/l	97%



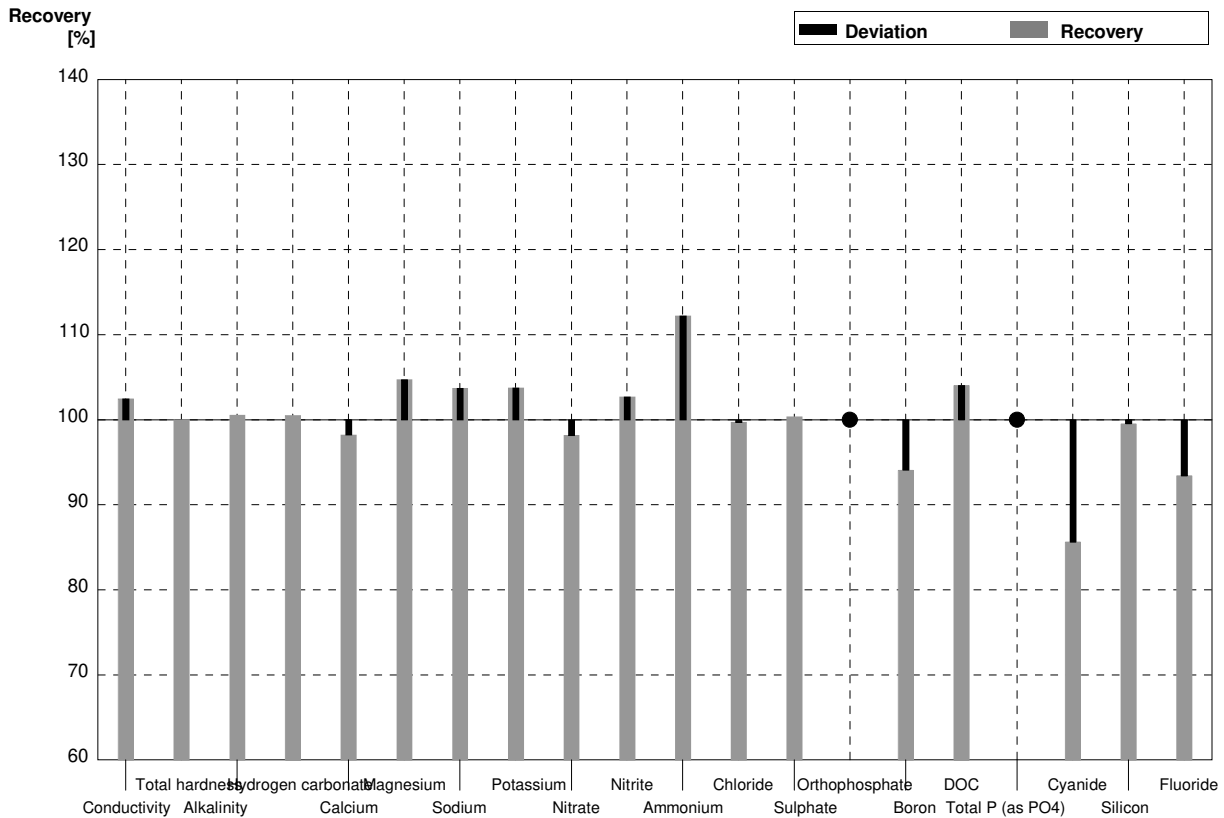
Sample N168B
Laboratory U

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	405	12	µS/cm	99%
Total hardness	1,285	0,015	7,3	1,3	mmol/l	568%
Alkalinity	2,04	0,03	1,95	0,09	mmol/l	96%
Hydrogen carbonate	121,4	1,5	119	5	mg/l	98%
Calcium	35,8	0,5	36,9	4,8	mg/l	103%
Magnesium	9,54	0,18	9,3	1,1	mg/l	97%
Sodium	29,2	0,3	29,1	3,5	mg/l	100%
Potassium	5,76	0,03	5,9	0,8	mg/l	102%
Nitrate	11,0	0,3	10,8	0,4	mg/l	98%
Nitrite	0,0254	0,0003	0,0256	0,0018	mg/l	101%
Ammonium	<0,01				mg/l	
Chloride	35,1	0,5	35,7	1,7	mg/l	102%
Sulphate	34,9	0,7	34,0	1,56	mg/l	97%
Orthophosphate	0,0829	0,0009	0,090	0,005	mg/l	109%
Boron	0,1010	0,0007			mg/l	
DOC	8,14	0,06	8,5	0,49	mg/l	104%
Total P (as PO4)	0,1216	0,0010	0,098	0,008	mg/l	81%
Cyanide	0,0704	0,0017	0,073	0,012	mg/l	104%
Silicon	5,99	0,03			mg/l	
Fluoride	0,270	0,007	0,265	0,01	mg/l	98%



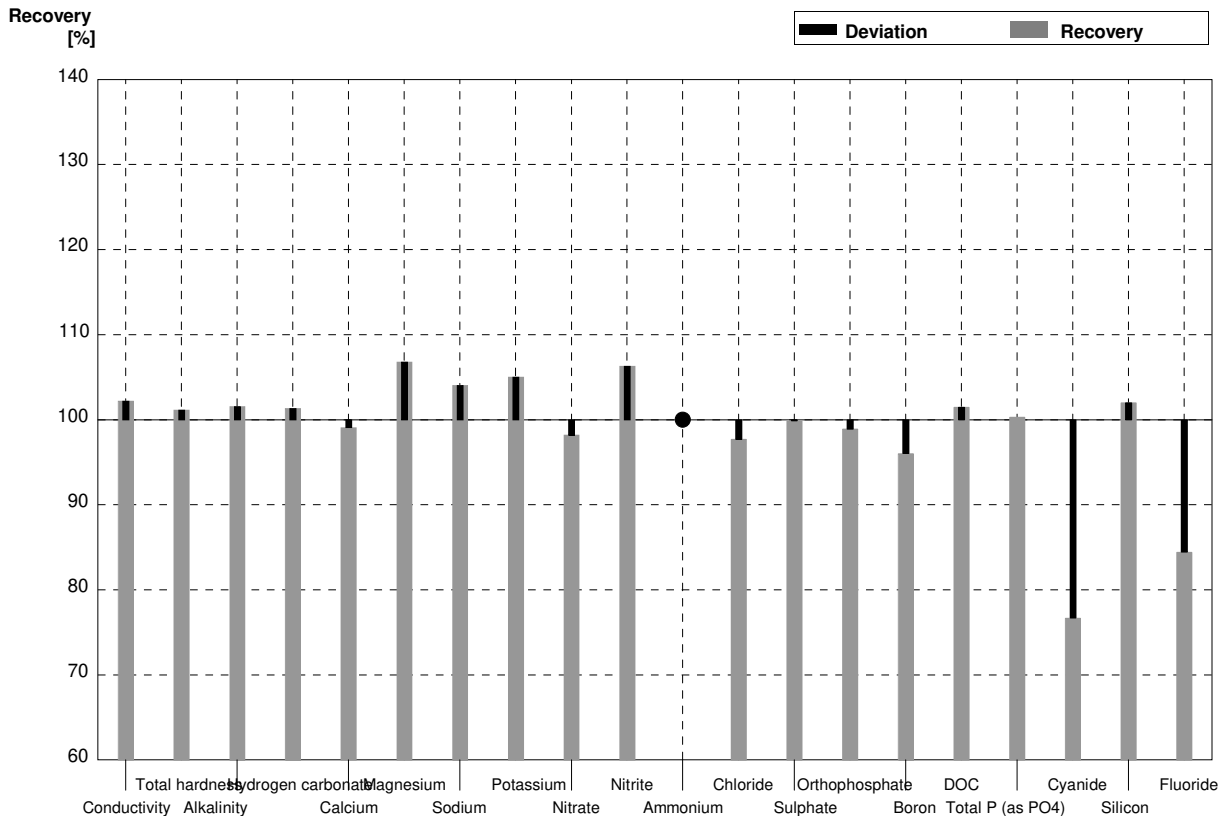
Sample N168A
Laboratory V

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	629	35,8	µS/cm	102%
Total hardness	2,60	0,03	2,60	0,3	mmol/l	100%
Alkalinity	3,33	0,04	3,348	0,167	mmol/l	101%
Hydrogen carbonate	200	3	201	20,1	mg/l	101%
Calcium	73,9	1,2	72,591	7,26	mg/l	98%
Magnesium	18,4	0,3	19,271	1,93	mg/l	105%
Sodium	18,14	0,13	18,813	1,88	mg/l	104%
Potassium	8,07	0,05	8,372	0,84	mg/l	104%
Nitrate	43,8	1,1	42,996	2,15	mg/l	98%
Nitrite	0,0448	0,0004	0,0460	0,005	mg/l	103%
Ammonium	0,0303	0,0047	0,0340	0,003	mg/l	112%
Chloride	41,0	1,5	40,888	2,44	mg/l	100%
Sulphate	46,6	0,9	46,766	2,338	mg/l	100%
Orthophosphate	<0,009		<0,01		mg/l	•
Boron	0,1403	0,0013	0,132	0,013	mg/l	94%
DOC	5,06	0,05	5,264	0,952	mg/l	104%
Total P (as PO4)	<0,009		<0,01		mg/l	•
Cyanide	0,0397	0,0016	0,0340	0,003	mg/l	86%
Silicon	4,49	0,03	4,47	0,67	mg/l	100%
Fluoride	0,701	0,018	0,655	0,033	mg/l	93%



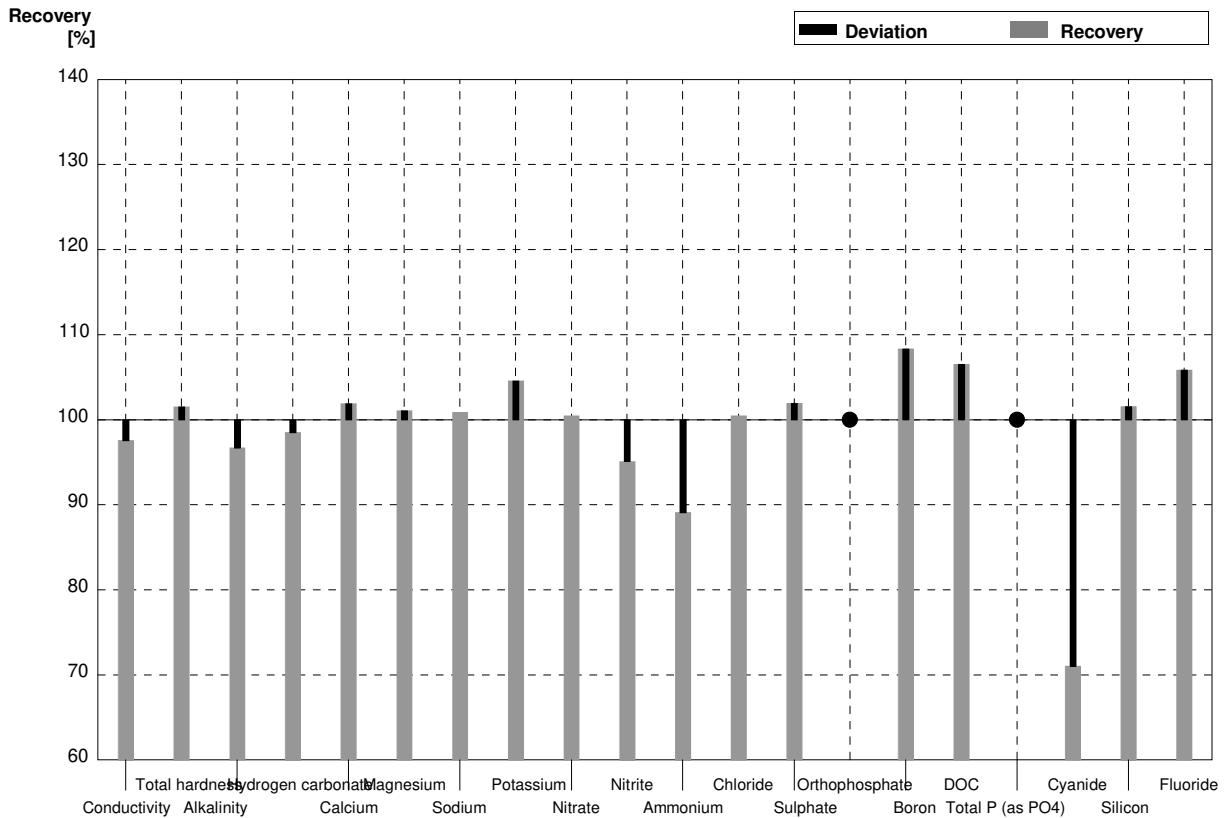
Sample N168B
Laboratory V

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	418	23,8	µS/cm	102%
Total hardness	1,285	0,015	1,30	0,13	mmol/l	101%
Alkalinity	2,04	0,03	2,072	0,104	mmol/l	102%
Hydrogen carbonate	121,4	1,5	123	12,3	mg/l	101%
Calcium	35,8	0,5	35,478	3,55	mg/l	99%
Magnesium	9,54	0,18	10,189	1,02	mg/l	107%
Sodium	29,2	0,3	30,386	3,04	mg/l	104%
Potassium	5,76	0,03	6,049	0,6	mg/l	105%
Nitrate	11,0	0,3	10,803	0,54	mg/l	98%
Nitrite	0,0254	0,0003	0,0270	0,003	mg/l	106%
Ammonium	<0,01		<0,01		mg/l	•
Chloride	35,1	0,5	34,3	1,715	mg/l	98%
Sulphate	34,9	0,7	34,858	1,743	mg/l	100%
Orthophosphate	0,0829	0,0009	0,082	0,008	mg/l	99%
Boron	0,1010	0,0007	0,097	0,01	mg/l	96%
DOC	8,14	0,06	8,262	1,495	mg/l	101%
Total P (as PO4)	0,1216	0,0010	0,122	0,012	mg/l	100%
Cyanide	0,0704	0,0017	0,054	0,005	mg/l	77%
Silicon	5,99	0,03	6,11	0,91	mg/l	102%
Fluoride	0,270	0,007	0,228	0,011	mg/l	84%



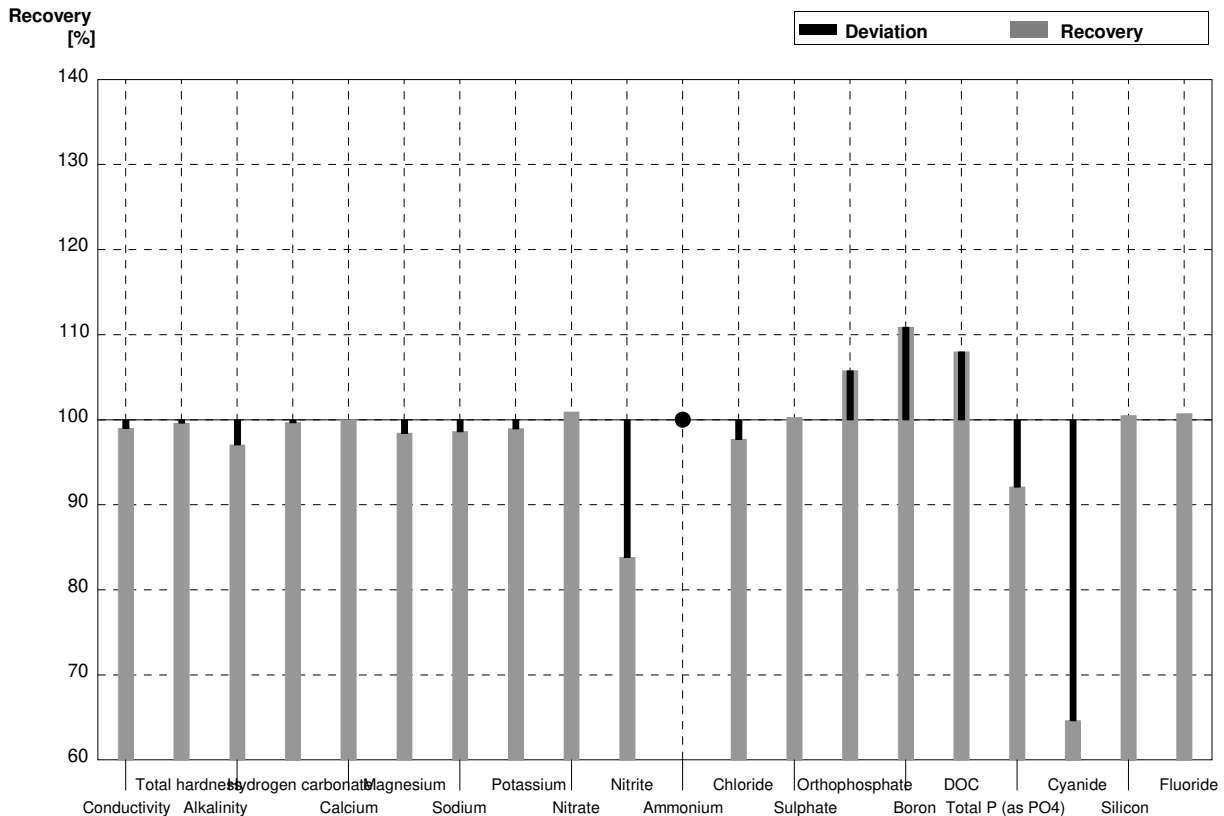
Sample N168A
Laboratory W

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	599	6,03	µS/cm	98%
Total hardness	2,60	0,03	2,64	0,085	mmol/l	102%
Alkalinity	3,33	0,04	3,22	0,006	mmol/l	97%
Hydrogen carbonate	200	3	197	1,2	mg/l	99%
Calcium	73,9	1,2	75,3	2,4	mg/l	102%
Magnesium	18,4	0,3	18,6	0,66	mg/l	101%
Sodium	18,14	0,13	18,3	0,51	mg/l	101%
Potassium	8,07	0,05	8,44	0,16	mg/l	105%
Nitrate	43,8	1,1	44,0	0,40	mg/l	100%
Nitrite	0,0448	0,0004	0,0426	0,0003	mg/l	95%
Ammonium	0,0303	0,0047	0,0270	0,0003	mg/l	89%
Chloride	41,0	1,5	41,2	0,36	mg/l	100%
Sulphate	46,6	0,9	47,5	0,45	mg/l	102%
Orthophosphate	<0,009		<0,015		mg/l	•
Boron	0,1403	0,0013	0,152	0,003	mg/l	108%
DOC	5,06	0,05	5,39	0,092	mg/l	107%
Total P (as PO4)	<0,009		<0,015		mg/l	•
Cyanide	0,0397	0,0016	0,0282	0,001	mg/l	71%
Silicon	4,49	0,03	4,56	0,012	mg/l	102%
Fluoride	0,701	0,018	0,742	0,009	mg/l	106%



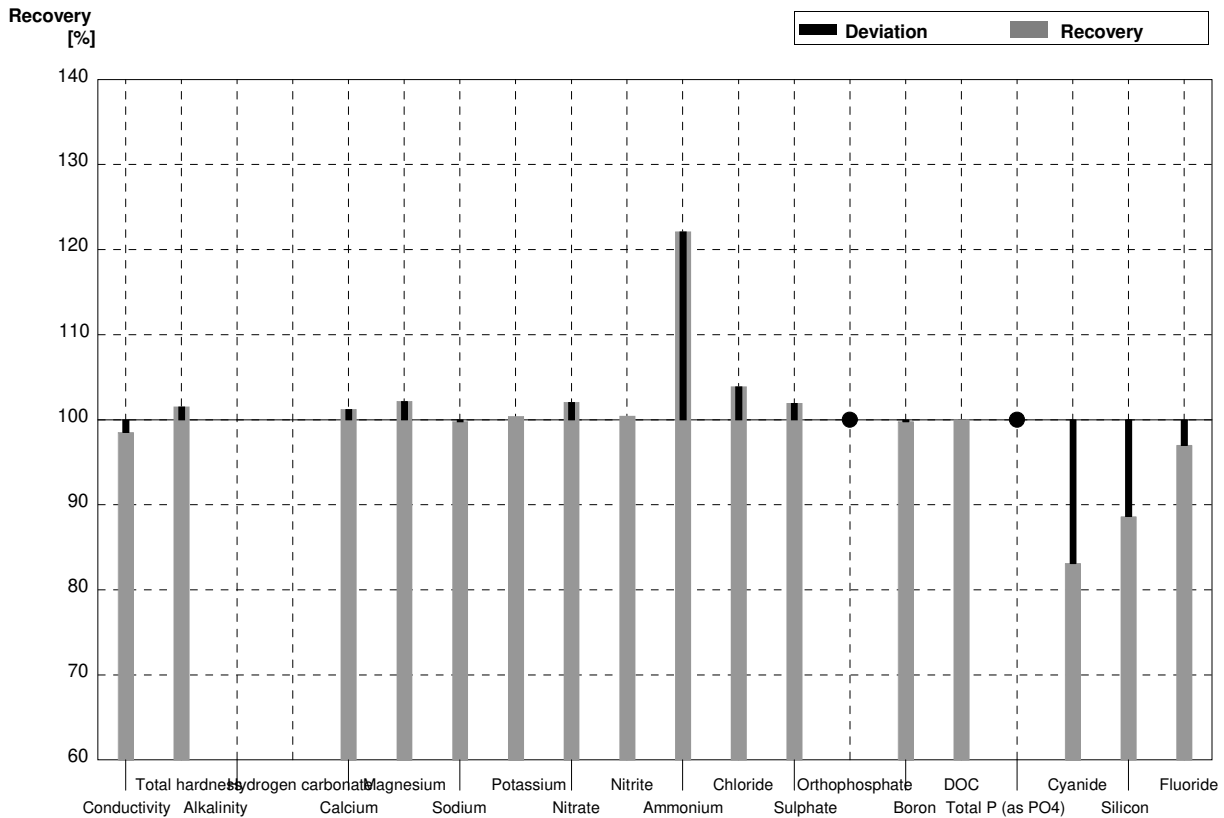
Sample N168B
Laboratory W

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	405	1,16	µS/cm	99%
Total hardness	1,285	0,015	1,28	0,023	mmol/l	100%
Alkalinity	2,04	0,03	1,98	0,003	mmol/l	97%
Hydrogen carbonate	121,4	1,5	121	1,1	mg/l	100%
Calcium	35,8	0,5	35,8	0,32	mg/l	100%
Magnesium	9,54	0,18	9,39	0,24	mg/l	98%
Sodium	29,2	0,3	28,8	0,2	mg/l	99%
Potassium	5,76	0,03	5,70	0,006	mg/l	99%
Nitrate	11,0	0,3	11,1	0,115	mg/l	101%
Nitrite	0,0254	0,0003	0,0213	0,0004	mg/l	84%
Ammonium	<0,01		<0,011		mg/l	•
Chloride	35,1	0,5	34,3	0,53	mg/l	98%
Sulphate	34,9	0,7	35,0	0,462	mg/l	100%
Orthophosphate	0,0829	0,0009	0,0877	0,001	mg/l	106%
Boron	0,1010	0,0007	0,112	0,003	mg/l	111%
DOC	8,14	0,06	8,79	0,035	mg/l	108%
Total P (as PO4)	0,1216	0,0010	0,112	0,001	mg/l	92%
Cyanide	0,0704	0,0017	0,0455	0,0002	mg/l	65%
Silicon	5,99	0,03	6,02	0,015	mg/l	101%
Fluoride	0,270	0,007	0,272	0,005	mg/l	101%



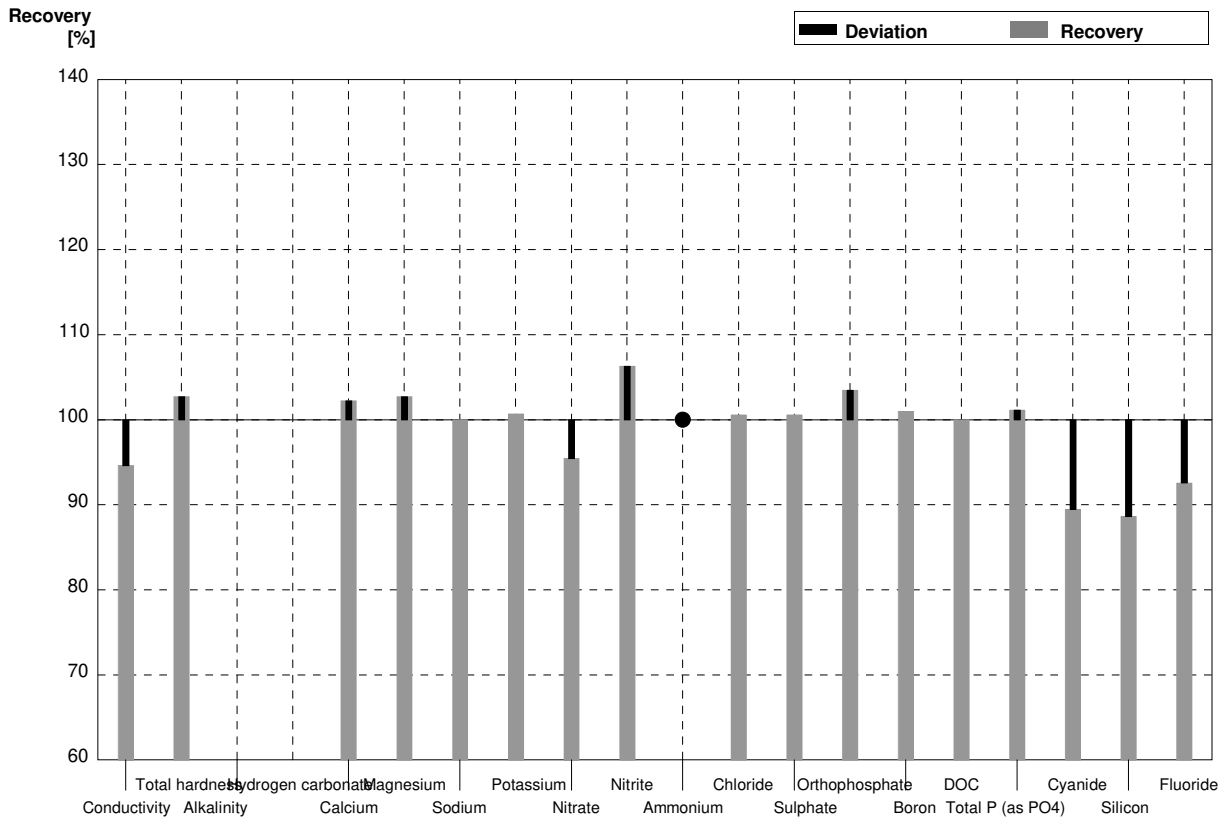
Sample N168A
Laboratory X

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	605	60,5	µS/cm	99%
Total hardness	2,60	0,03	2,64	0,21	mmol/l	102%
Alkalinity	3,33	0,04			mmol/l	
Hydrogen carbonate	200	3			mg/l	
Calcium	73,9	1,2	74,8	6,0	mg/l	101%
Magnesium	18,4	0,3	18,8	1,5	mg/l	102%
Sodium	18,14	0,13	18,1	1,4	mg/l	100%
Potassium	8,07	0,05	8,1	0,89	mg/l	100%
Nitrate	43,8	1,1	44,7	5,4	mg/l	102%
Nitrite	0,0448	0,0004	0,0450	0,005	mg/l	100%
Ammonium	0,0303	0,0047	0,0370	0,011	mg/l	122%
Chloride	41,0	1,5	42,6	3,8	mg/l	104%
Sulphate	46,6	0,9	47,5	4,8	mg/l	102%
Orthophosphate	<0,009		<0,031		mg/l	•
Boron	0,1403	0,0013	0,140	0,025	mg/l	100%
DOC	5,06	0,05	5,06	0,61	mg/l	100%
Total P (as PO4)	<0,009		<0,015		mg/l	•
Cyanide	0,0397	0,0016	0,0330		mg/l	83%
Silicon	4,49	0,03	3,98		mg/l	89%
Fluoride	0,701	0,018	0,68	0,12	mg/l	97%



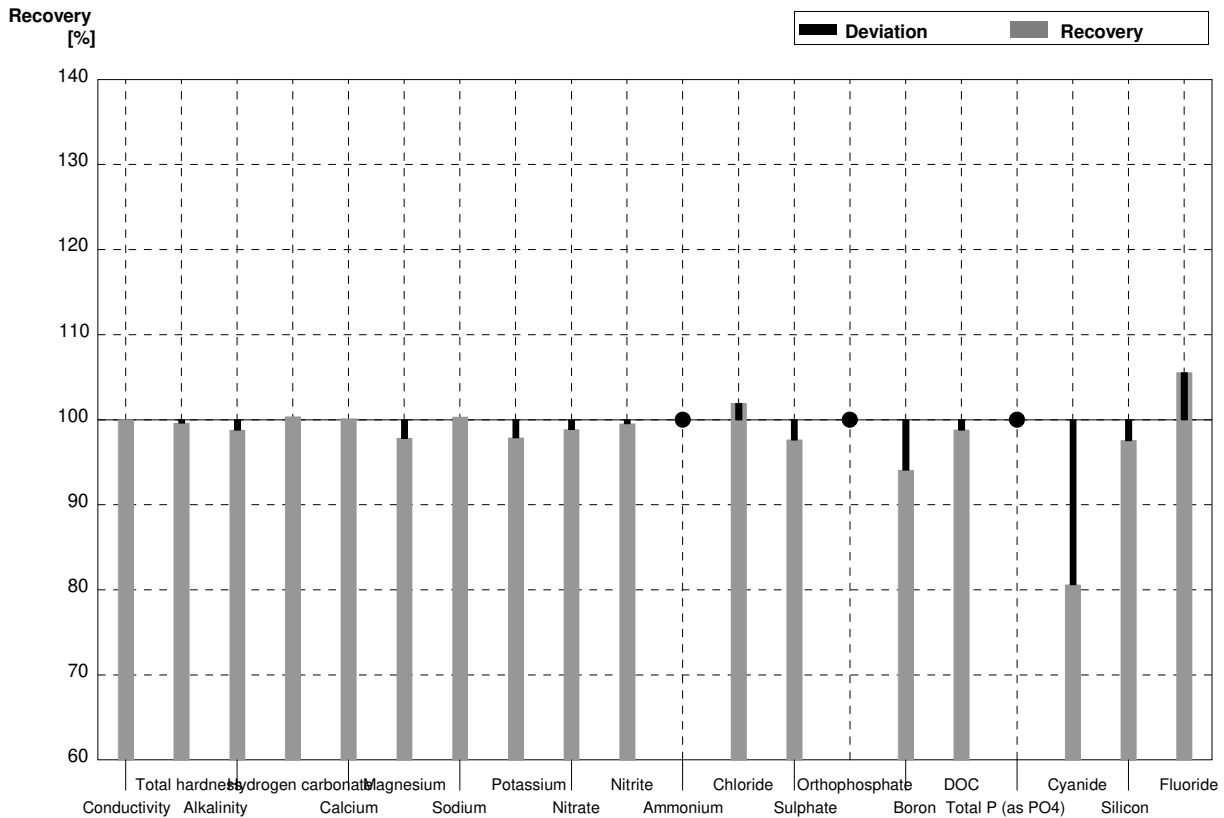
Sample N168B
Laboratory X

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	387	38,7	µS/cm	95%
Total hardness	1,285	0,015	1,32	0,11	mmol/l	103%
Alkalinity	2,04	0,03			mmol/l	
Hydrogen carbonate	121,4	1,5			mg/l	
Calcium	35,8	0,5	36,6	2,9	mg/l	102%
Magnesium	9,54	0,18	9,8	0,8	mg/l	103%
Sodium	29,2	0,3	29,2	2,3	mg/l	100%
Potassium	5,76	0,03	5,8	0,64	mg/l	101%
Nitrate	11,0	0,3	10,5	1,3	mg/l	95%
Nitrite	0,0254	0,0003	0,0270	0,003	mg/l	106%
Ammonium	<0,01		<0,020		mg/l	•
Chloride	35,1	0,5	35,3	3,2	mg/l	101%
Sulphate	34,9	0,7	35,1	3,5	mg/l	101%
Orthophosphate	0,0829	0,0009	0,0858	0,0180	mg/l	103%
Boron	0,1010	0,0007	0,102	0,018	mg/l	101%
DOC	8,14	0,06	8,14	0,98	mg/l	100%
Total P (as PO4)	0,1216	0,0010	0,123	0,034	mg/l	101%
Cyanide	0,0704	0,0017	0,0630		mg/l	89%
Silicon	5,99	0,03	5,31		mg/l	89%
Fluoride	0,270	0,007	0,250	0,043	mg/l	93%



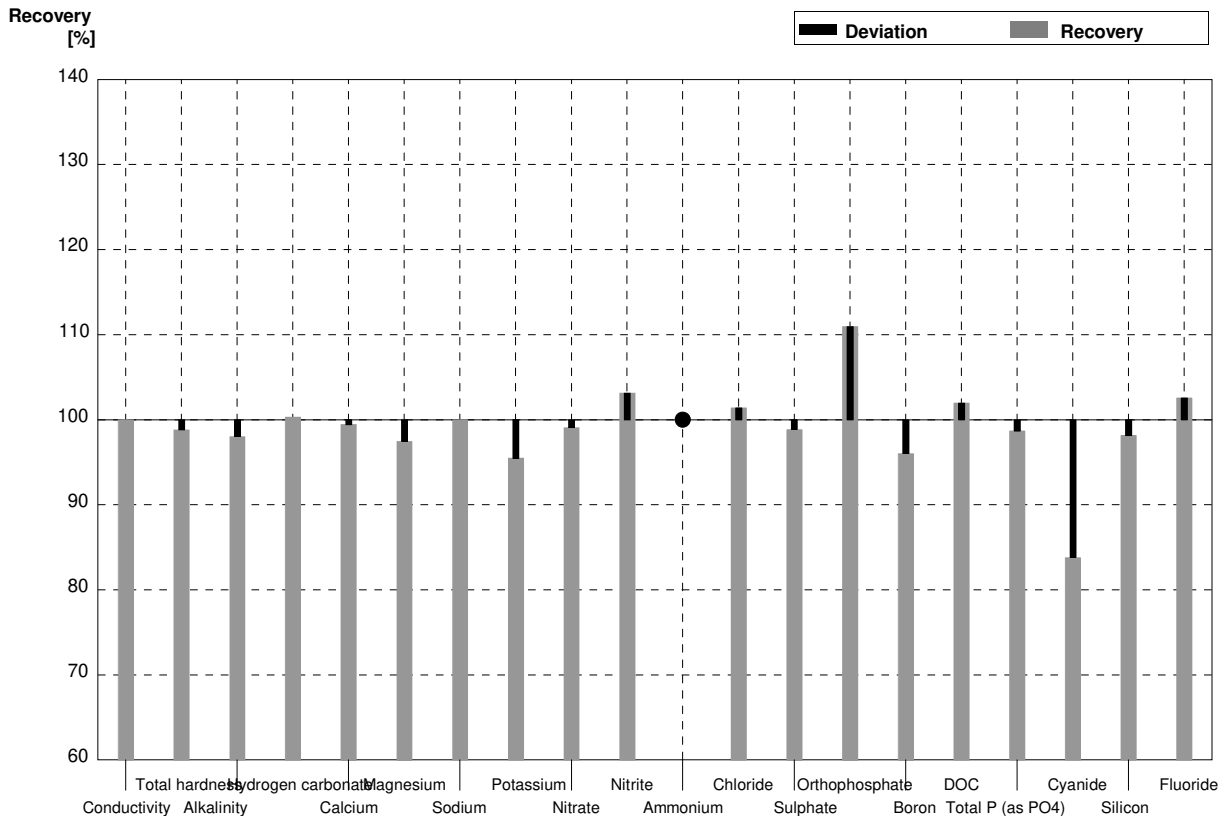
Sample N168A
Laboratory Y

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	614	61,4	µS/cm	100%
Total hardness	2,60	0,03	2,59	0,39	mmol/l	100%
Alkalinity	3,33	0,04	3,29		mmol/l	99%
Hydrogen carbonate	200	3	200,7		mg/l	100%
Calcium	73,9	1,2	74,0	11,1	mg/l	100%
Magnesium	18,4	0,3	18,0	2,7	mg/l	98%
Sodium	18,14	0,13	18,2	2,7	mg/l	100%
Potassium	8,07	0,05	7,9	1,2	mg/l	98%
Nitrate	43,8	1,1	43,3	6,5	mg/l	99%
Nitrite	0,0448	0,0004	0,0446	0,007	mg/l	100%
Ammonium	0,0303	0,0047	<0,04		mg/l	•
Chloride	41,0	1,5	41,8	2,1	mg/l	102%
Sulphate	46,6	0,9	45,5	2,7	mg/l	98%
Orthophosphate	<0,009		<0,03		mg/l	•
Boron	0,1403	0,0013	0,132	0,033	mg/l	94%
DOC	5,06	0,05	5,0	1,5	mg/l	99%
Total P (as PO4)	<0,009		<0,03		mg/l	•
Cyanide	0,0397	0,0016	0,0320		mg/l	81%
Silicon	4,49	0,03	4,38		mg/l	98%
Fluoride	0,701	0,018	0,74	0,15	mg/l	106%



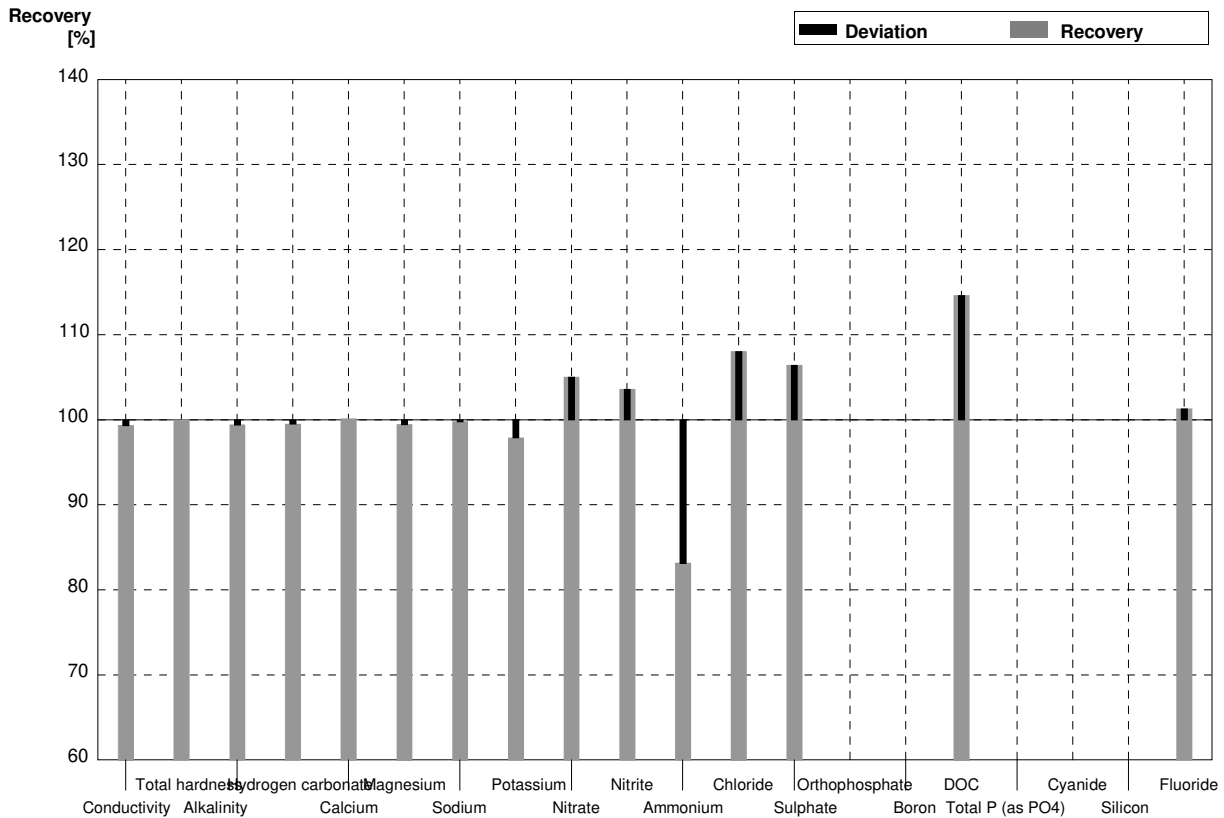
Sample N168B
Laboratory Y

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	409	40,9	µS/cm	100%
Total hardness	1,285	0,015	1,27	0,19	mmol/l	99%
Alkalinity	2,04	0,03	2,00		mmol/l	98%
Hydrogen carbonate	121,4	1,5	121,8		mg/l	100%
Calcium	35,8	0,5	35,6	5,3	mg/l	99%
Magnesium	9,54	0,18	9,3	1,4	mg/l	97%
Sodium	29,2	0,3	29,2	4,4	mg/l	100%
Potassium	5,76	0,03	5,5	0,8	mg/l	95%
Nitrate	11,0	0,3	10,9	1,6	mg/l	99%
Nitrite	0,0254	0,0003	0,0262	0,004	mg/l	103%
Ammonium	<0,01		<0,04		mg/l	•
Chloride	35,1	0,5	35,6	1,8	mg/l	101%
Sulphate	34,9	0,7	34,5	2,1	mg/l	99%
Orthophosphate	0,0829	0,0009	0,092		mg/l	111%
Boron	0,1010	0,0007	0,097	0,024	mg/l	96%
DOC	8,14	0,06	8,3	2,5	mg/l	102%
Total P (as PO4)	0,1216	0,0010	0,120		mg/l	99%
Cyanide	0,0704	0,0017	0,059		mg/l	84%
Silicon	5,99	0,03	5,88		mg/l	98%
Fluoride	0,270	0,007	0,277	0,055	mg/l	103%



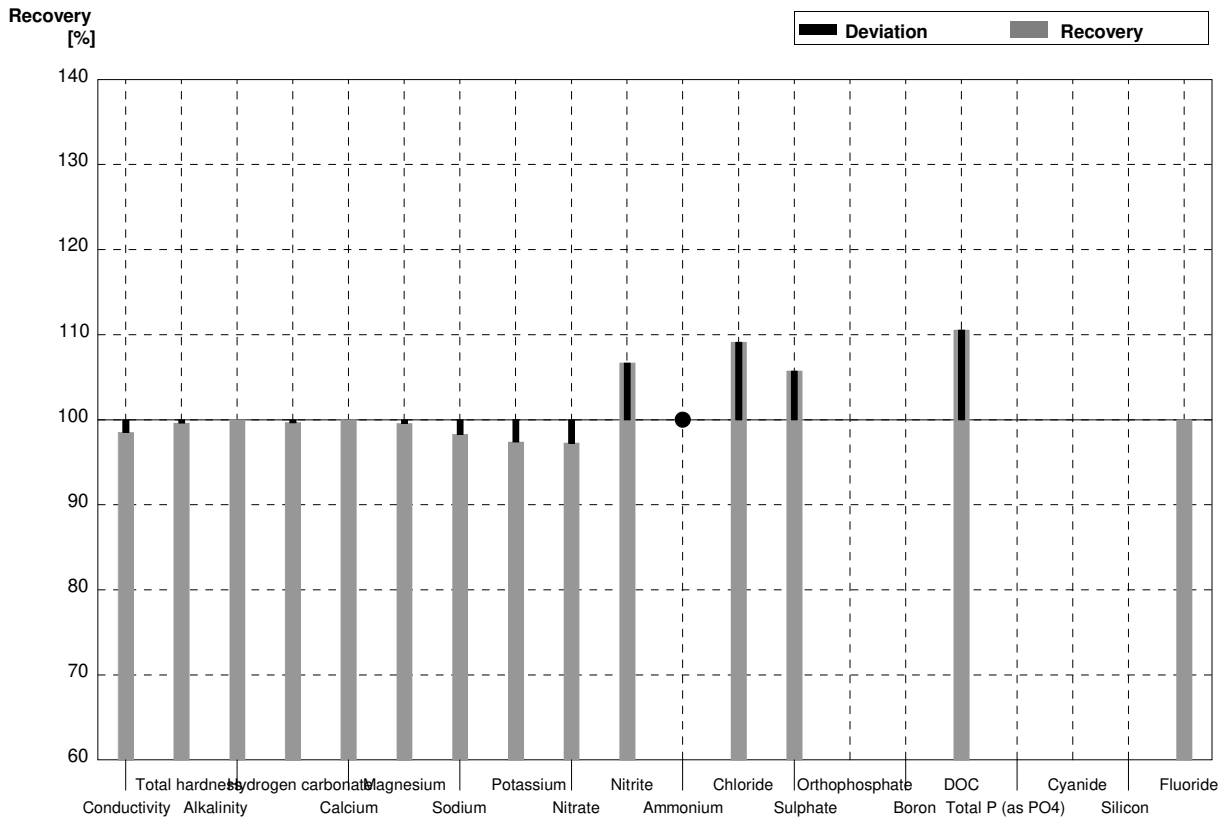
Sample N168A
Laboratory Z

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	610	18,3	µS/cm	99%
Total hardness	2,60	0,03	2,60	0,260	mmol/l	100%
Alkalinity	3,33	0,04	3,31	0,331	mmol/l	99%
Hydrogen carbonate	200	3	199	19,9	mg/l	100%
Calcium	73,9	1,2	74	7,4	mg/l	100%
Magnesium	18,4	0,3	18,3	1,83	mg/l	99%
Sodium	18,14	0,13	18,1	1,81	mg/l	100%
Potassium	8,07	0,05	7,9	1,19	mg/l	98%
Nitrate	43,8	1,1	46,0	4,60	mg/l	105%
Nitrite	0,0448	0,0004	0,0464	0,00928	mg/l	104%
Ammonium	0,0303	0,0047	0,0252	0,00504	mg/l	83%
Chloride	41,0	1,5	44,3	4,43	mg/l	108%
Sulphate	46,6	0,9	49,6	4,96	mg/l	106%
Orthophosphate	<0,009				mg/l	
Boron	0,1403	0,0013			mg/l	
DOC	5,06	0,05	5,8	1,16	mg/l	115%
Total P (as PO4)	<0,009				mg/l	
Cyanide	0,0397	0,0016			mg/l	
Silicon	4,49	0,03			mg/l	
Fluoride	0,701	0,018	0,71	0,107	mg/l	101%



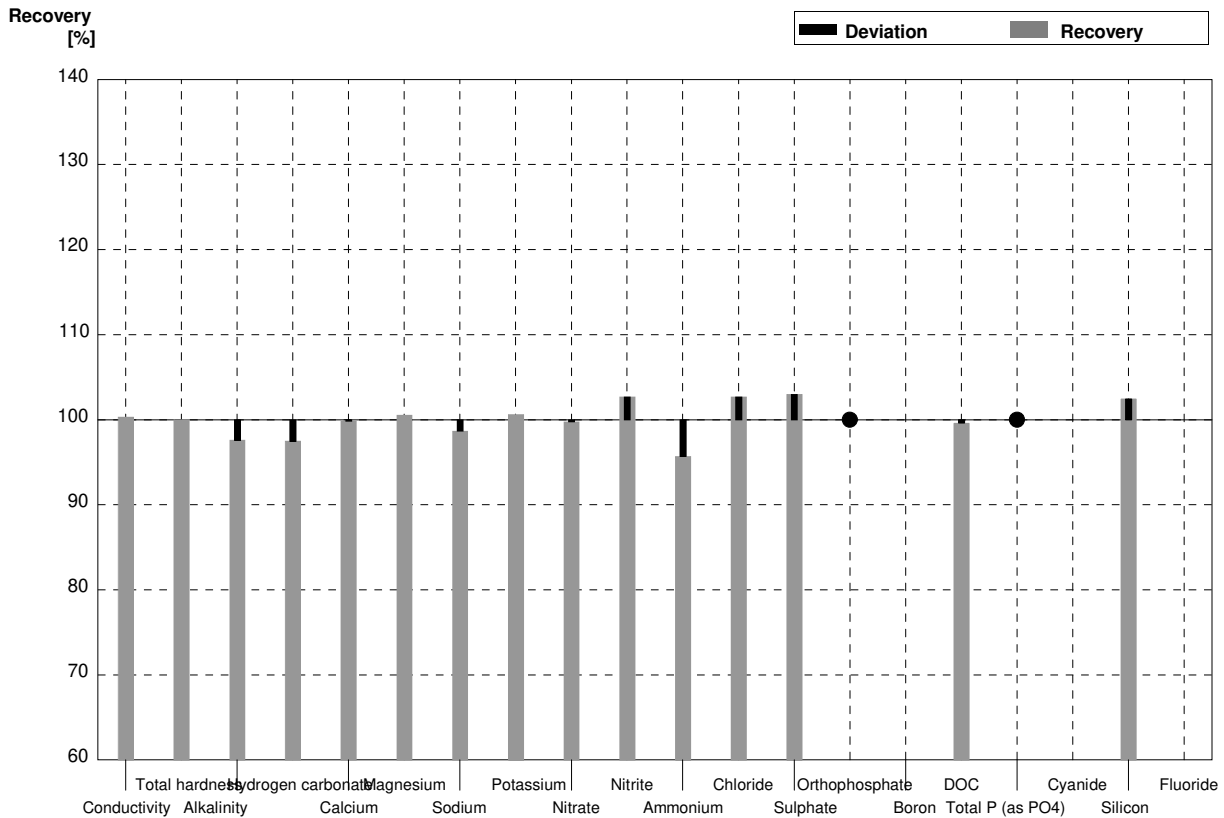
Sample N168B
Laboratory Z

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	403	12,1	µS/cm	99%
Total hardness	1,285	0,015	1,28	0,128	mmol/l	100%
Alkalinity	2,04	0,03	2,04	0,204	mmol/l	100%
Hydrogen carbonate	121,4	1,5	121	12,1	mg/l	100%
Calcium	35,8	0,5	35,8	3,58	mg/l	100%
Magnesium	9,54	0,18	9,50	0,950	mg/l	100%
Sodium	29,2	0,3	28,7	2,87	mg/l	98%
Potassium	5,76	0,03	5,61	0,842	mg/l	97%
Nitrate	11,0	0,3	10,7	1,07	mg/l	97%
Nitrite	0,0254	0,0003	0,0271	0,00542	mg/l	107%
Ammonium	<0,01		<0,0200		mg/l	•
Chloride	35,1	0,5	38,3	3,83	mg/l	109%
Sulphate	34,9	0,7	36,9	3,69	mg/l	106%
Orthophosphate	0,0829	0,0009			mg/l	
Boron	0,1010	0,0007			mg/l	
DOC	8,14	0,06	9,0	1,80	mg/l	111%
Total P (as PO4)	0,1216	0,0010			mg/l	
Cyanide	0,0704	0,0017			mg/l	
Silicon	5,99	0,03			mg/l	
Fluoride	0,270	0,007	0,270	0,0405	mg/l	100%



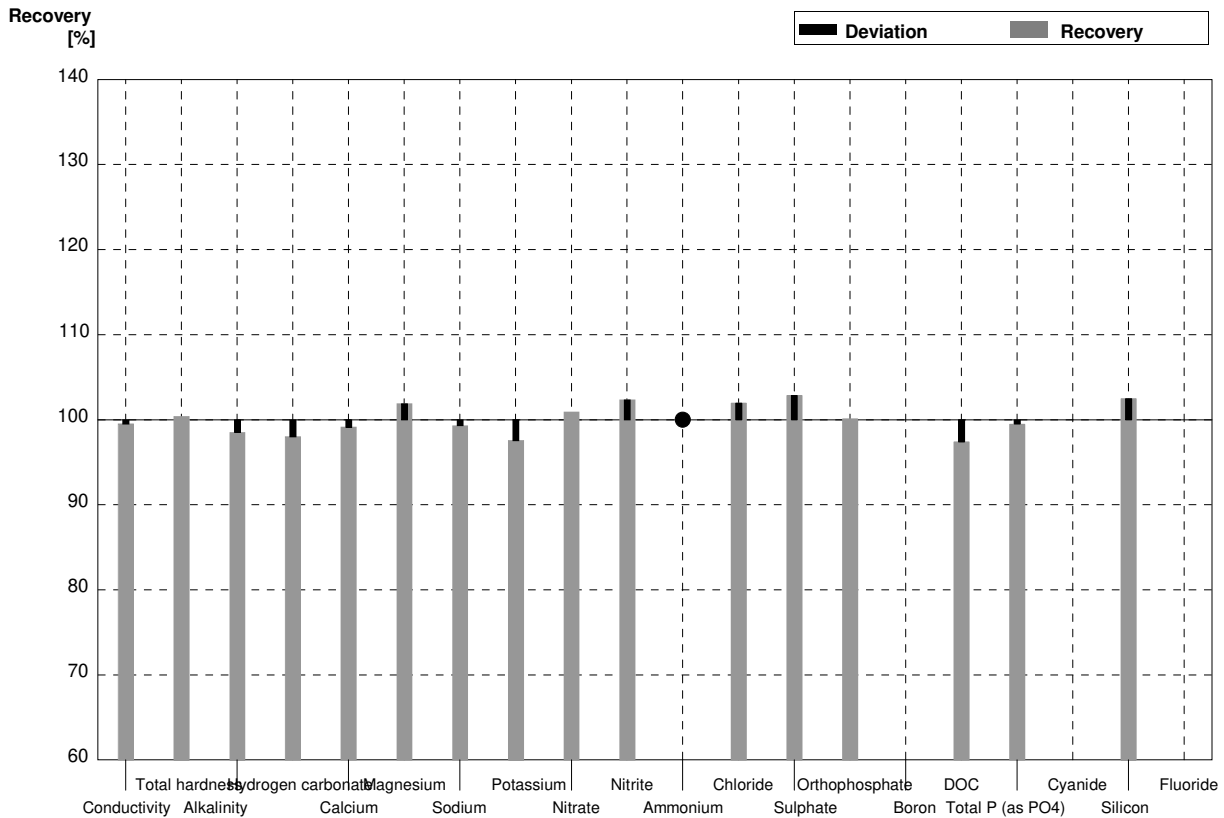
Sample N168A
Laboratory AA

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	616	25	µS/cm	100%
Total hardness	2,60	0,03	2,60	0,1	mmol/l	100%
Alkalinity	3,33	0,04	3,25	0,2	mmol/l	98%
Hydrogen carbonate	200	3	195	8	mg/l	98%
Calcium	73,9	1,2	73,8	6	mg/l	100%
Magnesium	18,4	0,3	18,5	2,3	mg/l	101%
Sodium	18,14	0,13	17,9	2,7	mg/l	99%
Potassium	8,07	0,05	8,12	1,1	mg/l	101%
Nitrate	43,8	1,1	43,7	4	mg/l	100%
Nitrite	0,0448	0,0004	0,0460	0,004	mg/l	103%
Ammonium	0,0303	0,0047	0,0290	0,003	mg/l	96%
Chloride	41,0	1,5	42,1	3	mg/l	103%
Sulphate	46,6	0,9	48,0	3	mg/l	103%
Orthophosphate	<0,009		<0,01		mg/l	•
Boron	0,1403	0,0013			mg/l	
DOC	5,06	0,05	5,04	0,8	mg/l	100%
Total P (as PO4)	<0,009		<0,013		mg/l	•
Cyanide	0,0397	0,0016			mg/l	
Silicon	4,49	0,03	4,60	0,5	mg/l	102%
Fluoride	0,701	0,018			mg/l	



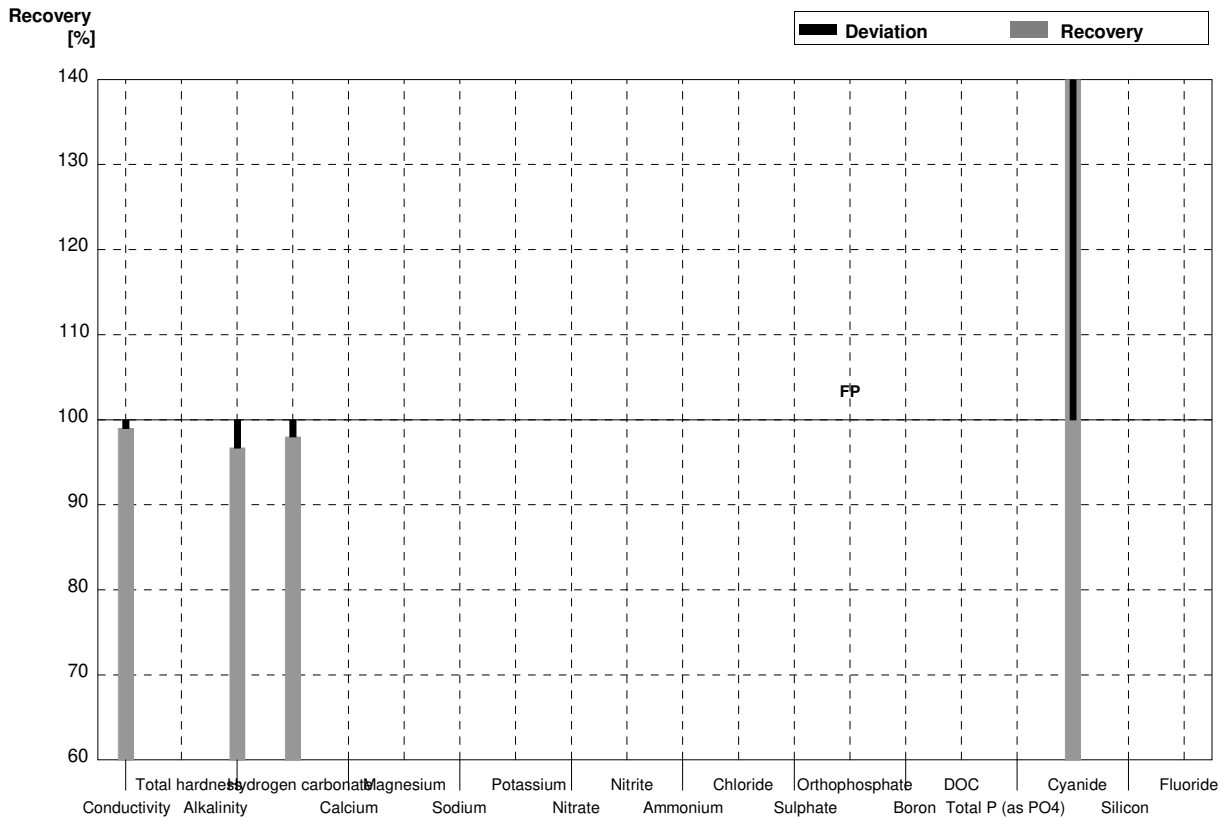
Sample N168B
Laboratory AA

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	407	17	µS/cm	100%
Total hardness	1,285	0,015	1,29	0,1	mmol/l	100%
Alkalinity	2,04	0,03	2,01	0,1	mmol/l	99%
Hydrogen carbonate	121,4	1,5	119	5	mg/l	98%
Calcium	35,8	0,5	35,5	3	mg/l	99%
Magnesium	9,54	0,18	9,72	1,2	mg/l	102%
Sodium	29,2	0,3	29,0	5	mg/l	99%
Potassium	5,76	0,03	5,62	0,8	mg/l	98%
Nitrate	11,0	0,3	11,1	0,8	mg/l	101%
Nitrite	0,0254	0,0003	0,0260	0,002	mg/l	102%
Ammonium	<0,01		<0,013		mg/l	•
Chloride	35,1	0,5	35,8	3	mg/l	102%
Sulphate	34,9	0,7	35,9	3	mg/l	103%
Orthophosphate	0,0829	0,0009	0,083	0,01	mg/l	100%
Boron	0,1010	0,0007			mg/l	
DOC	8,14	0,06	7,93	1,2	mg/l	97%
Total P (as PO4)	0,1216	0,0010	0,121	0,01	mg/l	100%
Cyanide	0,0704	0,0017			mg/l	
Silicon	5,99	0,03	6,14	0,6	mg/l	103%
Fluoride	0,270	0,007			mg/l	



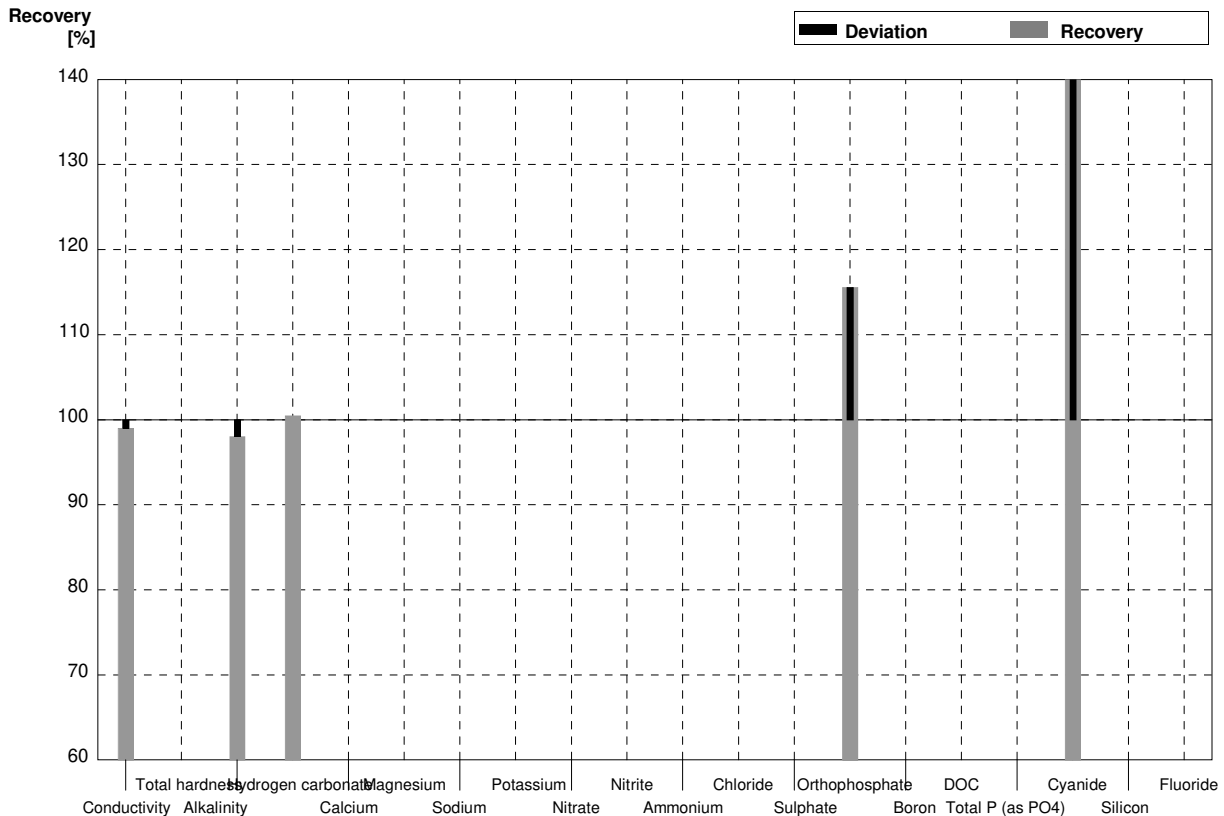
Sample N168A
Laboratory AB

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	608	13	µS/cm	99%
Total hardness	2,60	0,03			mmol/l	
Alkalinity	3,33	0,04	3,22	0,7	mmol/l	97%
Hydrogen carbonate	200	3	196	43	mg/l	98%
Calcium	73,9	1,2			mg/l	
Magnesium	18,4	0,3			mg/l	
Sodium	18,14	0,13			mg/l	
Potassium	8,07	0,05			mg/l	
Nitrate	43,8	1,1			mg/l	
Nitrite	0,0448	0,0004			mg/l	
Ammonium	0,0303	0,0047			mg/l	
Chloride	41,0	1,5			mg/l	
Sulphate	46,6	0,9			mg/l	
Orthophosphate	<0,009		0,0148	0,002	mg/l	FP
Boron	0,1403	0,0013			mg/l	
DOC	5,06	0,05			mg/l	
Total P (as PO4)	<0,009				mg/l	
Cyanide	0,0397	0,0016	42,7	6	mg/l	107557%
Silicon	4,49	0,03			mg/l	
Fluoride	0,701	0,018			mg/l	



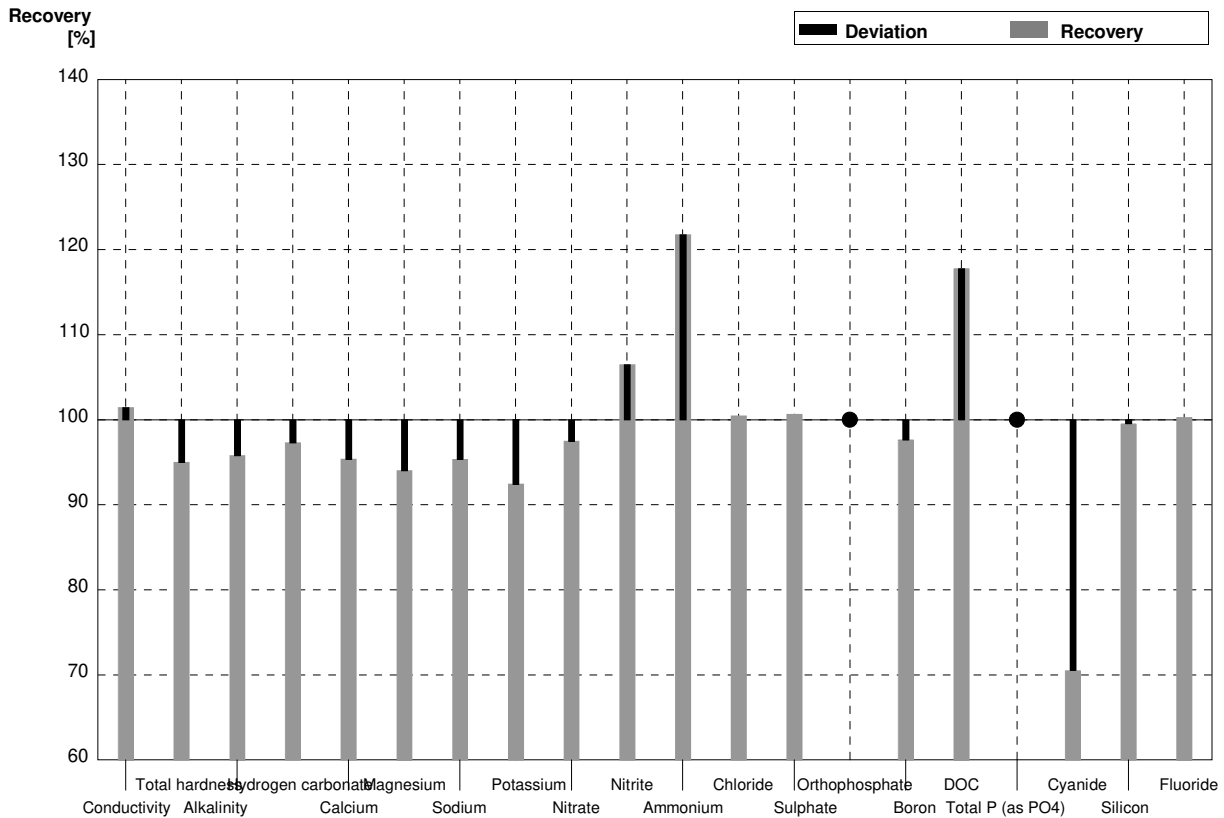
Sample N168B
Laboratory AB

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	405	9	µS/cm	99%
Total hardness	1,285	0,015			mmol/l	
Alkalinity	2,04	0,03	2,00	0,44	mmol/l	98%
Hydrogen carbonate	121,4	1,5	122	27	mg/l	100%
Calcium	35,8	0,5			mg/l	
Magnesium	9,54	0,18			mg/l	
Sodium	29,2	0,3			mg/l	
Potassium	5,76	0,03			mg/l	
Nitrate	11,0	0,3			mg/l	
Nitrite	0,0254	0,0003			mg/l	
Ammonium	<0,01				mg/l	
Chloride	35,1	0,5			mg/l	
Sulphate	34,9	0,7			mg/l	
Orthophosphate	0,0829	0,0009	0,0958	0,01	mg/l	116%
Boron	0,1010	0,0007			mg/l	
DOC	8,14	0,06			mg/l	
Total P (as PO4)	0,1216	0,0010			mg/l	
Cyanide	0,0704	0,0017	66,3	9	mg/l	94176%
Silicon	5,99	0,03			mg/l	
Fluoride	0,270	0,007			mg/l	



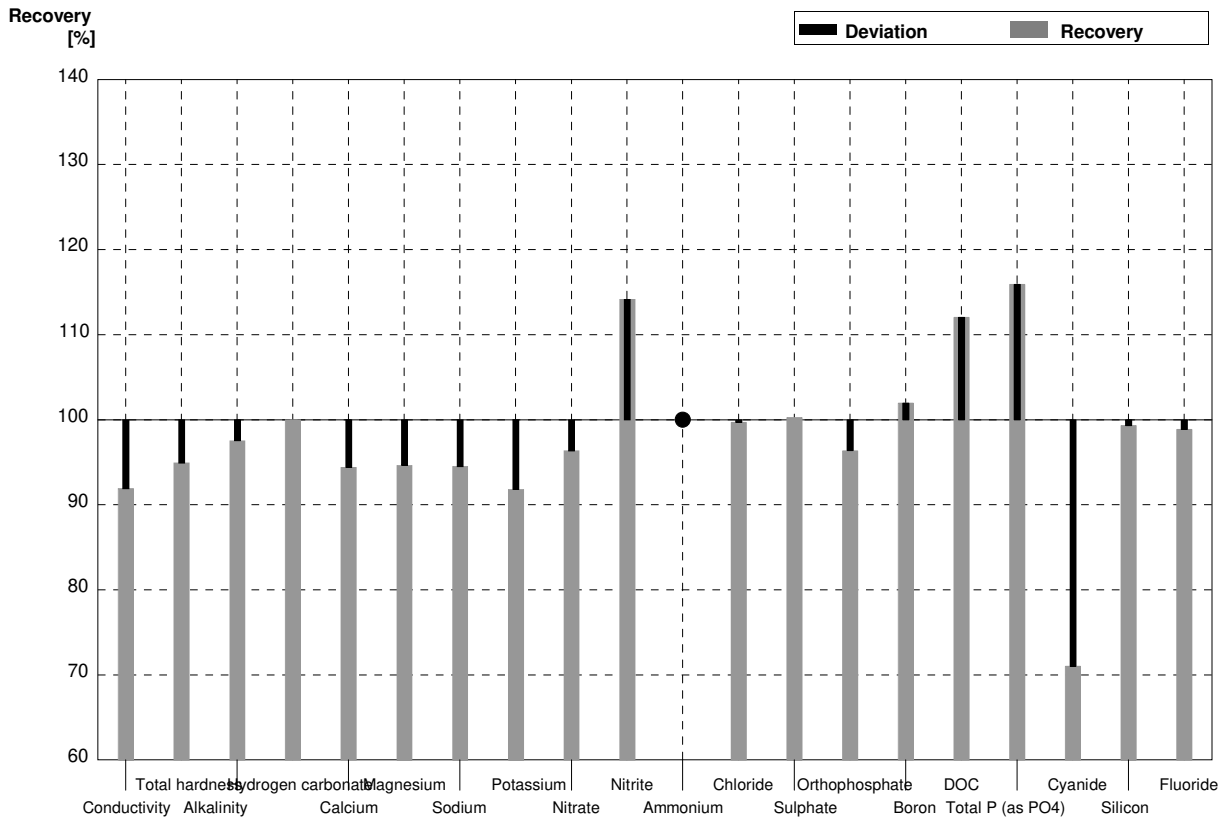
Sample N168A
Laboratory AC

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	623	19	µS/cm	101%
Total hardness	2,60	0,03	2,47	0,25	mmol/l	95%
Alkalinity	3,33	0,04	3,19	0,19	mmol/l	96%
Hydrogen carbonate	200	3	194,6	11,6	mg/l	97%
Calcium	73,9	1,2	70,5	4,2	mg/l	95%
Magnesium	18,4	0,3	17,3	2,2	mg/l	94%
Sodium	18,14	0,13	17,3	1,4	mg/l	95%
Potassium	8,07	0,05	7,46	0,45	mg/l	92%
Nitrate	43,8	1,1	42,7	5,1	mg/l	97%
Nitrite	0,0448	0,0004	0,0477	0,005	mg/l	106%
Ammonium	0,0303	0,0047	0,0369	0,004	mg/l	122%
Chloride	41,0	1,5	41,2	4,1	mg/l	100%
Sulphate	46,6	0,9	46,9	5,2	mg/l	101%
Orthophosphate	<0,009		<0,020		mg/l	•
Boron	0,1403	0,0013	0,137	0,014	mg/l	98%
DOC	5,06	0,05	5,96	0,89	mg/l	118%
Total P (as PO4)	<0,009		<0,030		mg/l	•
Cyanide	0,0397	0,0016	0,0280	0,006	mg/l	71%
Silicon	4,49	0,03	4,47	0,45	mg/l	100%
Fluoride	0,701	0,018	0,703	0,105	mg/l	100%



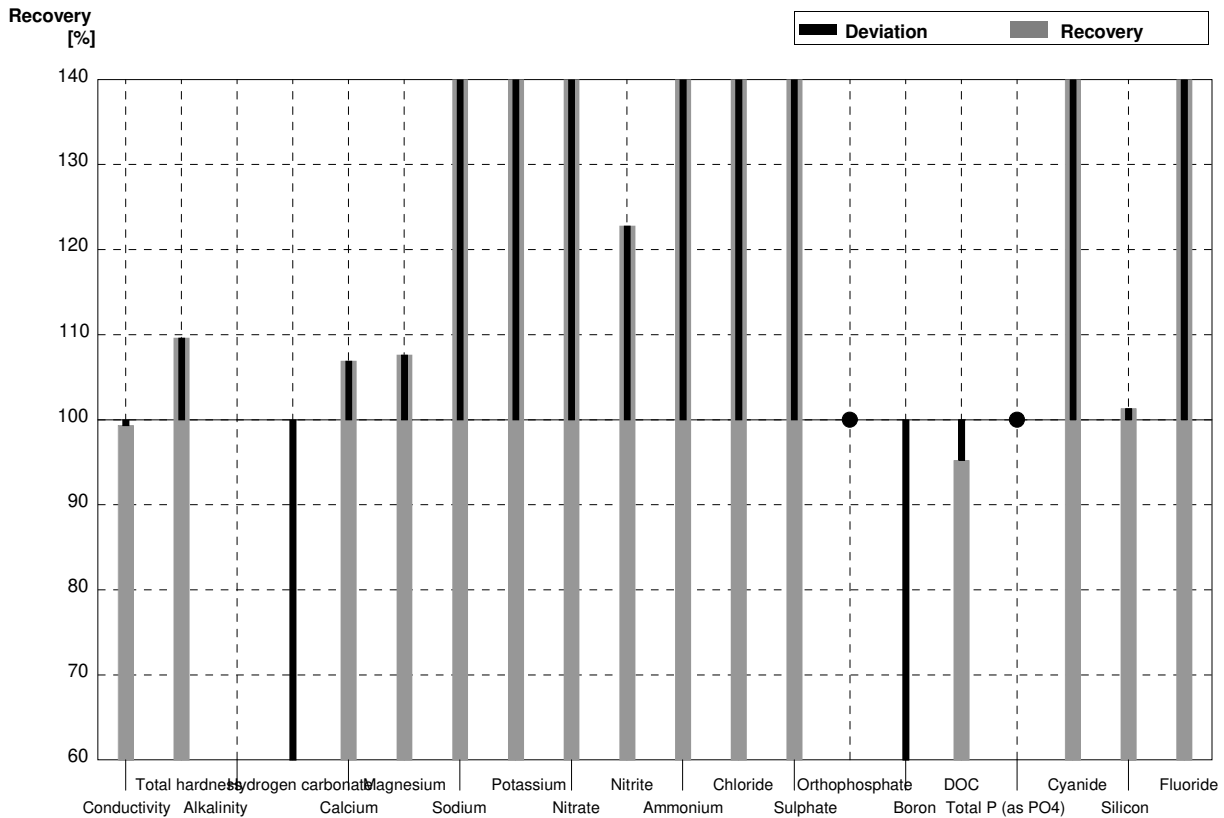
Sample N168B
Laboratory AC

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	376	11	µS/cm	92%
Total hardness	1,285	0,015	1,22	0,12	mmol/l	95%
Alkalinity	2,04	0,03	1,99	0,11	mmol/l	98%
Hydrogen carbonate	121,4	1,5	121,4	7,2	mg/l	100%
Calcium	35,8	0,5	33,8	2,0	mg/l	94%
Magnesium	9,54	0,18	9,03	1,17	mg/l	95%
Sodium	29,2	0,3	27,6	2,2	mg/l	95%
Potassium	5,76	0,03	5,29	0,32	mg/l	92%
Nitrate	11,0	0,3	10,6	1,3	mg/l	96%
Nitrite	0,0254	0,0003	0,0290	0,003	mg/l	114%
Ammonium	<0,01		<0,030		mg/l	•
Chloride	35,1	0,5	35,0	3,5	mg/l	100%
Sulphate	34,9	0,7	35,0	3,9	mg/l	100%
Orthophosphate	0,0829	0,0009	0,0799	0,008	mg/l	96%
Boron	0,1010	0,0007	0,103	0,010	mg/l	102%
DOC	8,14	0,06	9,12	1,37	mg/l	112%
Total P (as PO4)	0,1216	0,0010	0,141	0,018	mg/l	116%
Cyanide	0,0704	0,0017	0,050	0,01	mg/l	71%
Silicon	5,99	0,03	5,95	0,60	mg/l	99%
Fluoride	0,270	0,007	0,267	0,04	mg/l	99%



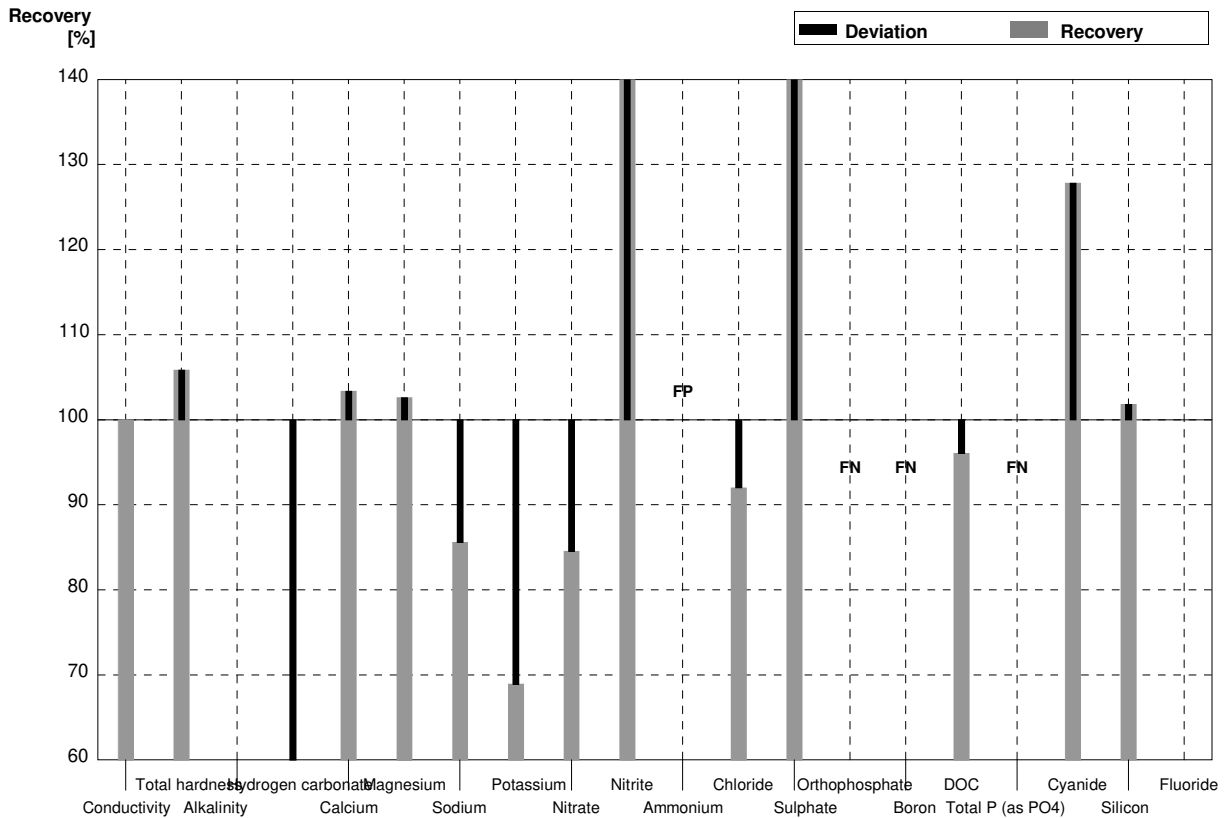
Sample N168A
Laboratory AD

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	610	2	µS/cm	99%
Total hardness	2,60	0,03	2,85	0,01	mmol/l	110%
Alkalinity	3,33	0,04			mmol/l	
Hydrogen carbonate	200	3	100	2	mg/l	50%
Calcium	73,9	1,2	79	0,5	mg/l	107%
Magnesium	18,4	0,3	19,8	0,5	mg/l	108%
Sodium	18,14	0,13	41,1	0,5	mg/l	227%
Potassium	8,07	0,05	16,7	0,5	mg/l	207%
Nitrate	43,8	1,1	99	0,2	mg/l	226%
Nitrite	0,0448	0,0004	0,055	0,01	mg/l	123%
Ammonium	0,0303	0,0047	0,081	0,01	mg/l	267%
Chloride	41,0	1,5	96,4	0,3	mg/l	235%
Sulphate	46,6	0,9	112	0,2	mg/l	240%
Orthophosphate	<0,009		<0,015	0,001	mg/l	•
Boron	0,1403	0,0013	0,00250	0,01	mg/l	2%
DOC	5,06	0,05	4,82	0,1	mg/l	95%
Total P (as PO4)	<0,009		<0,015	0,001	mg/l	•
Cyanide	0,0397	0,0016	0,060	0,01	mg/l	151%
Silicon	4,49	0,03	4,55	0,1	mg/l	101%
Fluoride	0,701	0,018	1,53	0,1	mg/l	218%



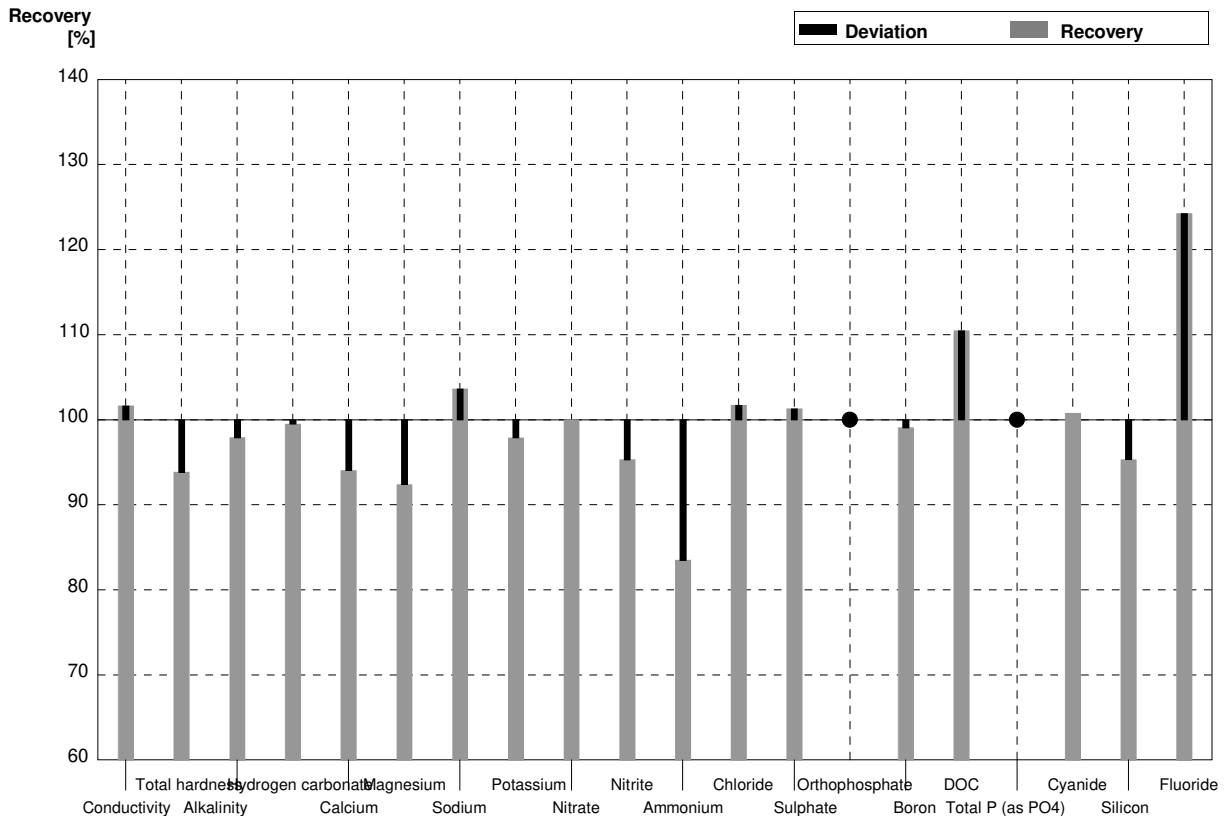
Sample N168B
Laboratory AD

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	409	2	µS/cm	100%
Total hardness	1,285	0,015	1,36	0,01	mmol/l	106%
Alkalinity	2,04	0,03			mmol/l	
Hydrogen carbonate	121,4	1,5	62	2	mg/l	51%
Calcium	35,8	0,5	37,0	0,5	mg/l	103%
Magnesium	9,54	0,18	9,79	0,5	mg/l	103%
Sodium	29,2	0,3	25,0	0,5	mg/l	86%
Potassium	5,76	0,03	3,97	0,5	mg/l	69%
Nitrate	11,0	0,3	9,3	0,2	mg/l	85%
Nitrite	0,0254	0,0003	0,0370	0,01	mg/l	146%
Ammonium	<0,01		0,057	0,01	mg/l	FP
Chloride	35,1	0,5	32,3	0,3	mg/l	92%
Sulphate	34,9	0,7	112	0,2	mg/l	321%
Orthophosphate	0,0829	0,0009	<0,015	0,001	mg/l	FN
Boron	0,1010	0,0007	<0,001	0,01	mg/l	FN
DOC	8,14	0,06	7,82	0,1	mg/l	96%
Total P (as PO4)	0,1216	0,0010	<0,015	0,001	mg/l	FN
Cyanide	0,0704	0,0017	0,090	0,01	mg/l	128%
Silicon	5,99	0,03	6,1	0,1	mg/l	102%
Fluoride	0,270	0,007	n.a.	0,1	mg/l	



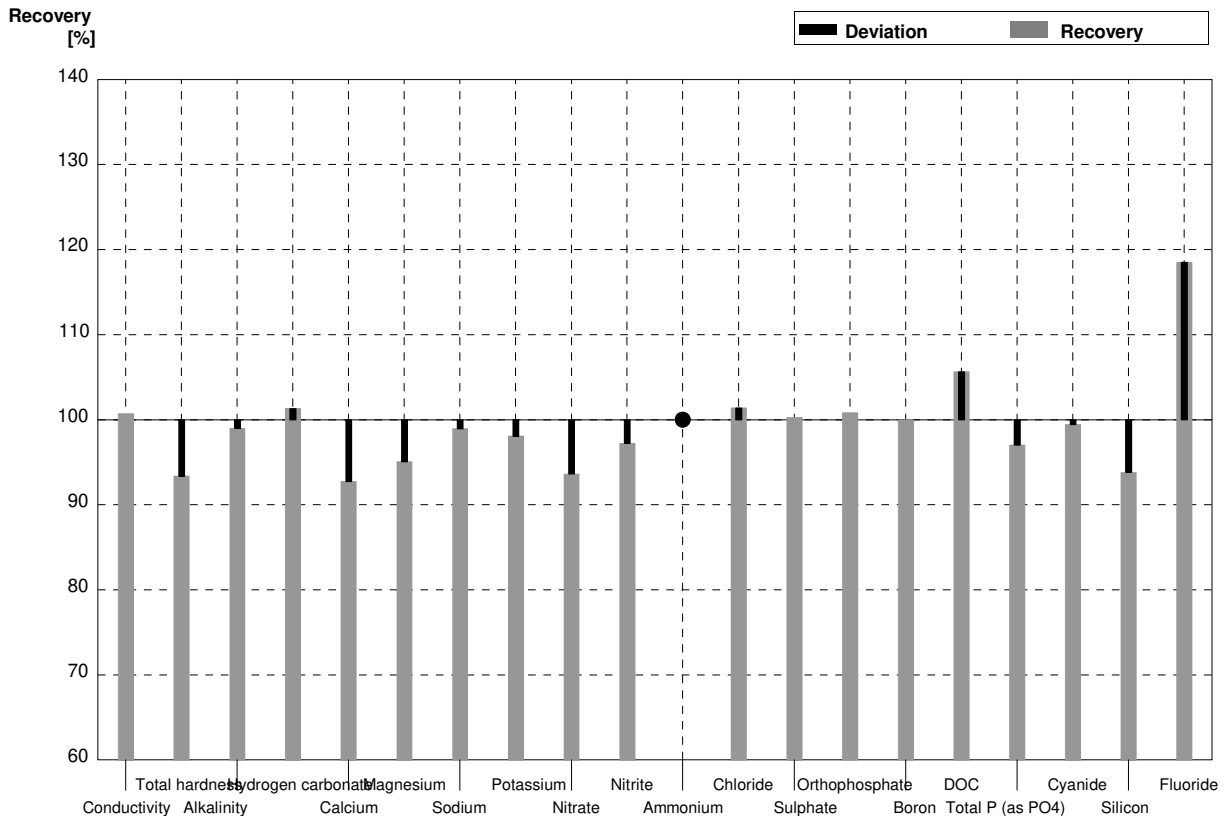
Sample N168A
Laboratory AE

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	624	19	µS/cm	102%
Total hardness	2,60	0,03	2,44	0,37	mmol/l	94%
Alkalinity	3,33	0,04	3,26	0,26	mmol/l	98%
Hydrogen carbonate	200	3	199	16	mg/l	100%
Calcium	73,9	1,2	69,5	10	mg/l	94%
Magnesium	18,4	0,3	17,0	2,0	mg/l	92%
Sodium	18,14	0,13	18,8	2,4	mg/l	104%
Potassium	8,07	0,05	7,90	1,2	mg/l	98%
Nitrate	43,8	1,1	43,8	4,4	mg/l	100%
Nitrite	0,0448	0,0004	0,0427	0,0047	mg/l	95%
Ammonium	0,0303	0,0047	0,0253	0,0020	mg/l	83%
Chloride	41,0	1,5	41,7	4,2	mg/l	102%
Sulphate	46,6	0,9	47,2	7,6	mg/l	101%
Orthophosphate	<0,009		<0,015		mg/l	•
Boron	0,1403	0,0013	0,139	0,018	mg/l	99%
DOC	5,06	0,05	5,59	1,1	mg/l	110%
Total P (as PO4)	<0,009		<0,015		mg/l	•
Cyanide	0,0397	0,0016	0,0400	0,0060	mg/l	101%
Silicon	4,49	0,03	4,28	0,43	mg/l	95%
Fluoride	0,701	0,018	0,871	0,087	mg/l	124%



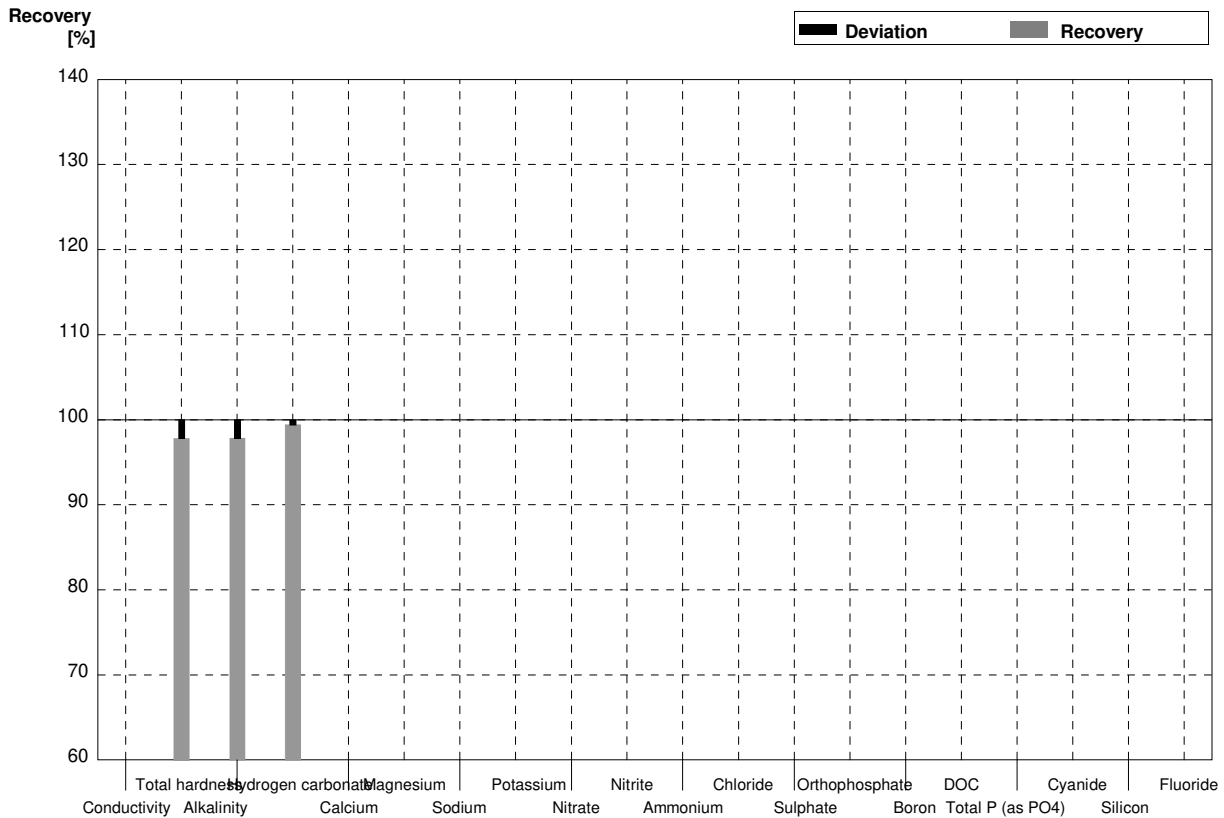
Sample N168B
Laboratory AE

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	412	12	µS/cm	101%
Total hardness	1,285	0,015	1,20	0,18	mmol/l	93%
Alkalinity	2,04	0,03	2,02	0,16	mmol/l	99%
Hydrogen carbonate	121,4	1,5	123	10	mg/l	101%
Calcium	35,8	0,5	33,2	5,0	mg/l	93%
Magnesium	9,54	0,18	9,07	1,1	mg/l	95%
Sodium	29,2	0,3	28,9	3,8	mg/l	99%
Potassium	5,76	0,03	5,65	0,85	mg/l	98%
Nitrate	11,0	0,3	10,3	1,0	mg/l	94%
Nitrite	0,0254	0,0003	0,0247	0,0027	mg/l	97%
Ammonium	<0,01		<0,01		mg/l	•
Chloride	35,1	0,5	35,6	3,6	mg/l	101%
Sulphate	34,9	0,7	35,0	5,6	mg/l	100%
Orthophosphate	0,0829	0,0009	0,0836	0,0067	mg/l	101%
Boron	0,1010	0,0007	0,101	0,013	mg/l	100%
DOC	8,14	0,06	8,60	1,7	mg/l	106%
Total P (as PO4)	0,1216	0,0010	0,118	0,0094	mg/l	97%
Cyanide	0,0704	0,0017	0,0700	0,011	mg/l	99%
Silicon	5,99	0,03	5,62	0,56	mg/l	94%
Fluoride	0,270	0,007	0,320	0,032	mg/l	119%



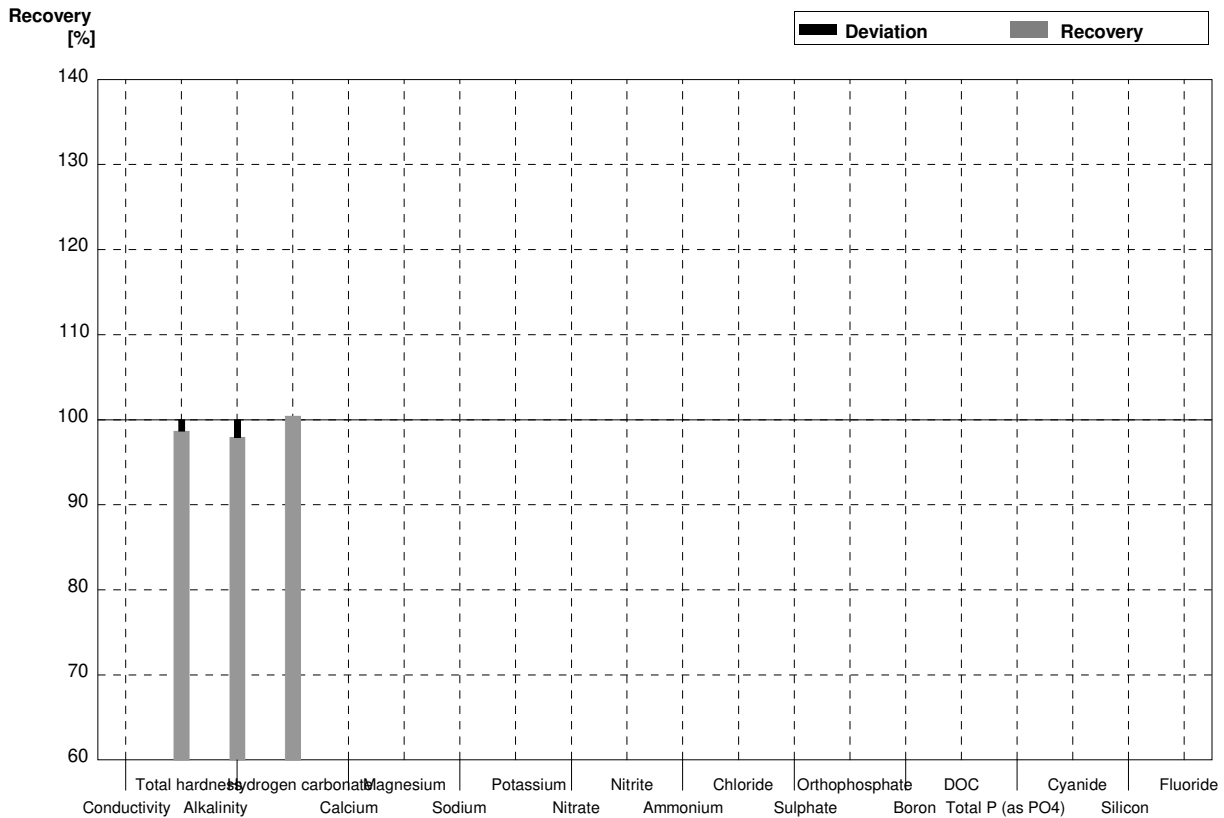
Sample N168A
Laboratory AF

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2			µS/cm	
Total hardness	2,60	0,03	2,543	0,305	mmol/l	98%
Alkalinity	3,33	0,04	3,258	0,130	mmol/l	98%
Hydrogen carbonate	200	3	198,81	7,952	mg/l	99%
Calcium	73,9	1,2			mg/l	
Magnesium	18,4	0,3			mg/l	
Sodium	18,14	0,13			mg/l	
Potassium	8,07	0,05			mg/l	
Nitrate	43,8	1,1			mg/l	
Nitrite	0,0448	0,0004			mg/l	
Ammonium	0,0303	0,0047			mg/l	
Chloride	41,0	1,5			mg/l	
Sulphate	46,6	0,9			mg/l	
Orthophosphate	<0,009				mg/l	
Boron	0,1403	0,0013			mg/l	
DOC	5,06	0,05			mg/l	
Total P (as PO4)	<0,009				mg/l	
Cyanide	0,0397	0,0016			mg/l	
Silicon	4,49	0,03			mg/l	
Fluoride	0,701	0,018			mg/l	



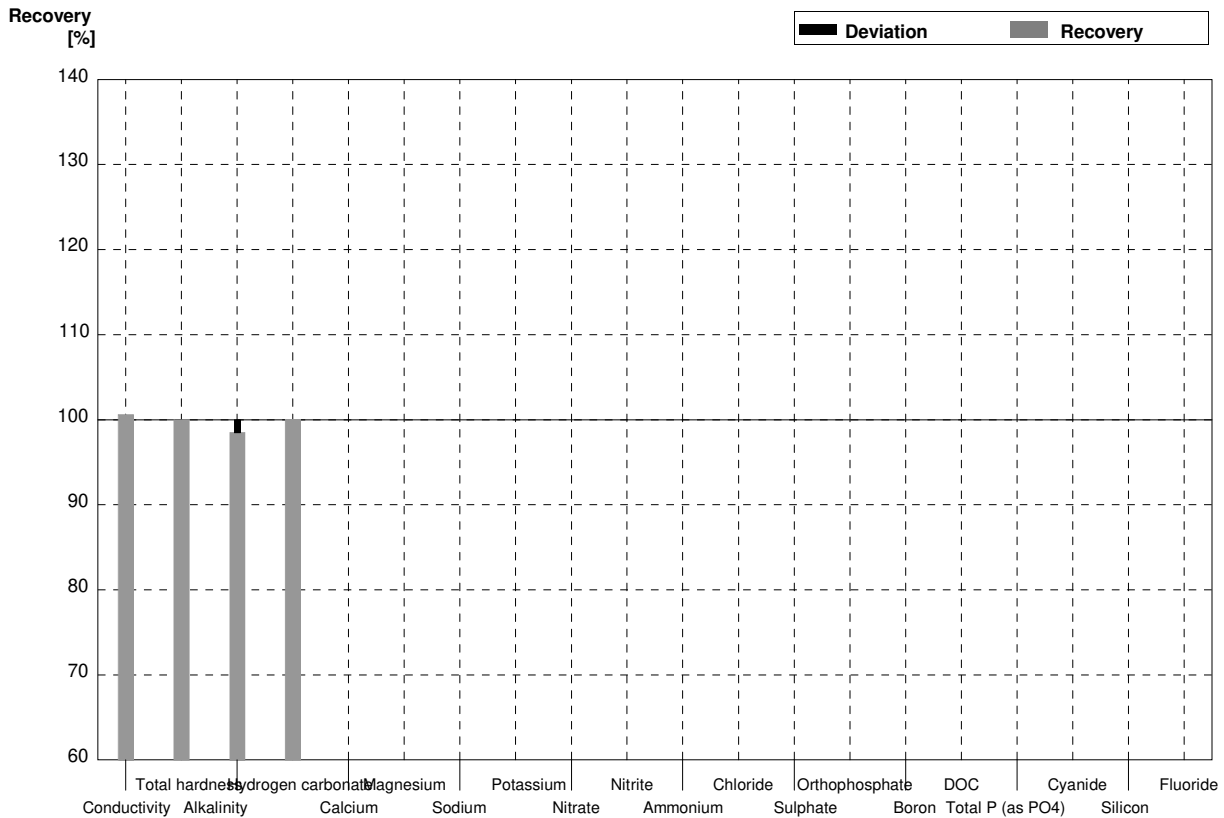
Sample N168B
Laboratory AF

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1			µS/cm	
Total hardness	1,285	0,015	1,268	0,152	mmol/l	99%
Alkalinity	2,04	0,03	1,998	0,080	mmol/l	98%
Hydrogen carbonate	121,4	1,5	121,93	4,877	mg/l	100%
Calcium	35,8	0,5			mg/l	
Magnesium	9,54	0,18			mg/l	
Sodium	29,2	0,3			mg/l	
Potassium	5,76	0,03			mg/l	
Nitrate	11,0	0,3			mg/l	
Nitrite	0,0254	0,0003			mg/l	
Ammonium	<0,01				mg/l	
Chloride	35,1	0,5			mg/l	
Sulphate	34,9	0,7			mg/l	
Orthophosphate	0,0829	0,0009			mg/l	
Boron	0,1010	0,0007			mg/l	
DOC	8,14	0,06			mg/l	
Total P (as PO4)	0,1216	0,0010			mg/l	
Cyanide	0,0704	0,0017			mg/l	
Silicon	5,99	0,03			mg/l	
Fluoride	0,270	0,007			mg/l	



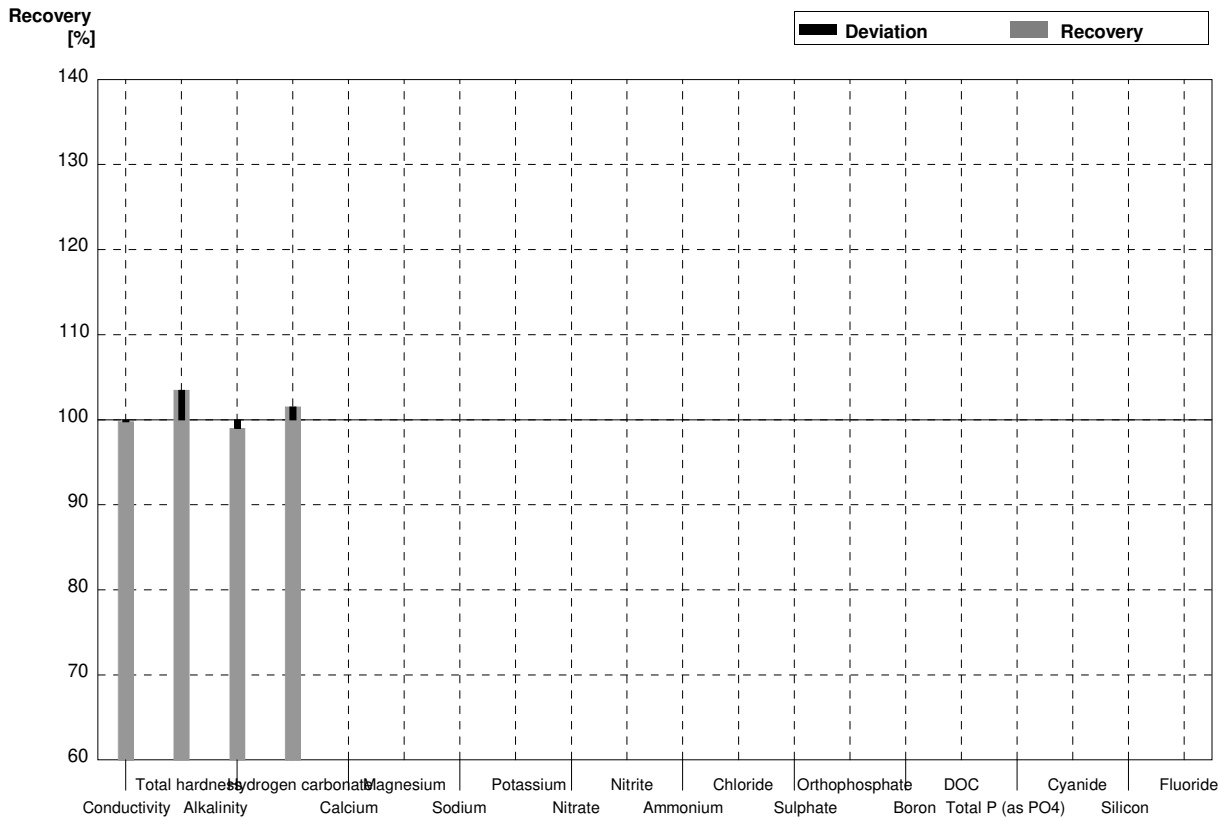
Sample N168A
Laboratory AG

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	617,9	2	µS/cm	101%
Total hardness	2,60	0,03	2,60	0,03	mmol/l	100%
Alkalinity	3,33	0,04	3,28	0,02	mmol/l	98%
Hydrogen carbonate	200	3	200,14	0,02	mg/l	100%
Calcium	73,9	1,2			mg/l	
Magnesium	18,4	0,3			mg/l	
Sodium	18,14	0,13			mg/l	
Potassium	8,07	0,05			mg/l	
Nitrate	43,8	1,1			mg/l	
Nitrite	0,0448	0,0004			mg/l	
Ammonium	0,0303	0,0047			mg/l	
Chloride	41,0	1,5			mg/l	
Sulphate	46,6	0,9			mg/l	
Orthophosphate	<0,009				mg/l	
Boron	0,1403	0,0013			mg/l	
DOC	5,06	0,05			mg/l	
Total P (as PO4)	<0,009				mg/l	
Cyanide	0,0397	0,0016			mg/l	
Silicon	4,49	0,03			mg/l	
Fluoride	0,701	0,018			mg/l	



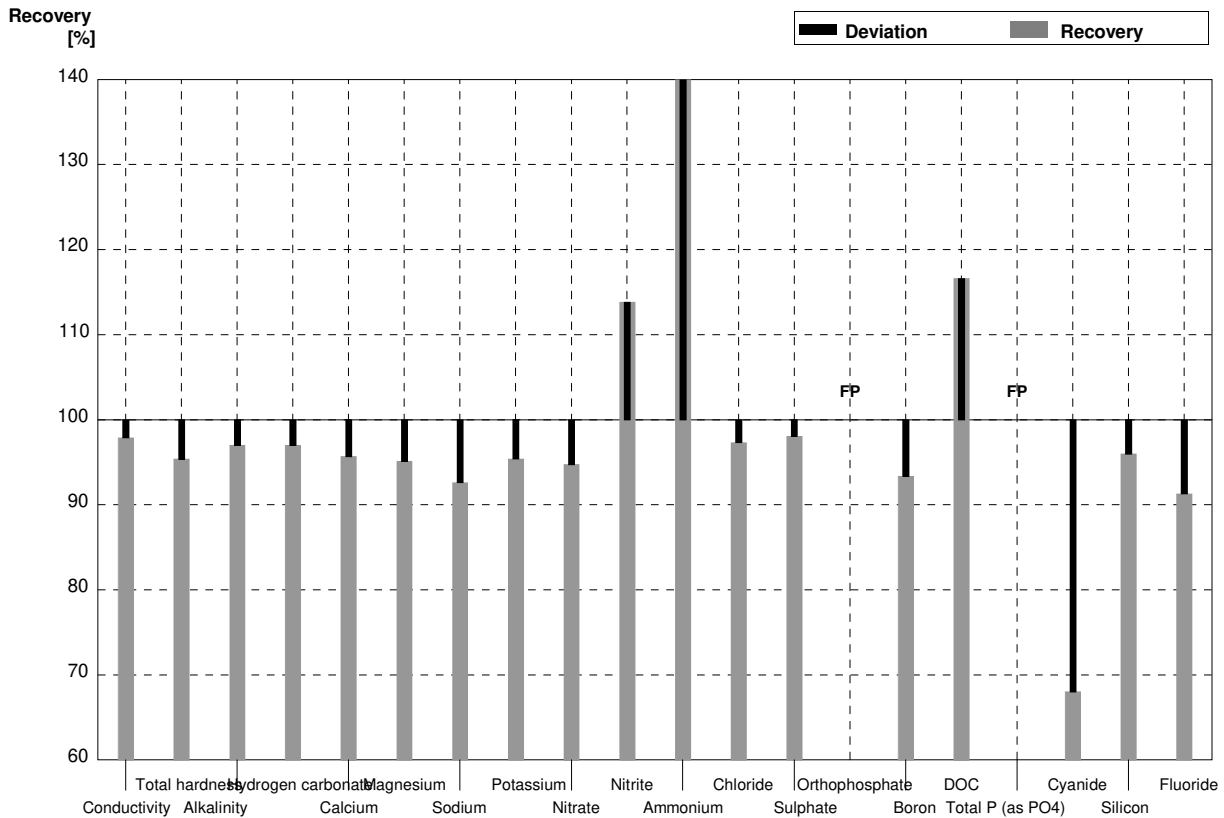
Sample N168B
Laboratory AG

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	408,1	2	µS/cm	100%
Total hardness	1,285	0,015	1,33	0,01	mmol/l	104%
Alkalinity	2,04	0,03	2,02	0,02	mmol/l	99%
Hydrogen carbonate	121,4	1,5	123,25	0,02	mg/l	102%
Calcium	35,8	0,5			mg/l	
Magnesium	9,54	0,18			mg/l	
Sodium	29,2	0,3			mg/l	
Potassium	5,76	0,03			mg/l	
Nitrate	11,0	0,3			mg/l	
Nitrite	0,0254	0,0003			mg/l	
Ammonium	<0,01				mg/l	
Chloride	35,1	0,5			mg/l	
Sulphate	34,9	0,7			mg/l	
Orthophosphate	0,0829	0,0009			mg/l	
Boron	0,1010	0,0007			mg/l	
DOC	8,14	0,06			mg/l	
Total P (as PO4)	0,1216	0,0010			mg/l	
Cyanide	0,0704	0,0017			mg/l	
Silicon	5,99	0,03			mg/l	
Fluoride	0,270	0,007			mg/l	



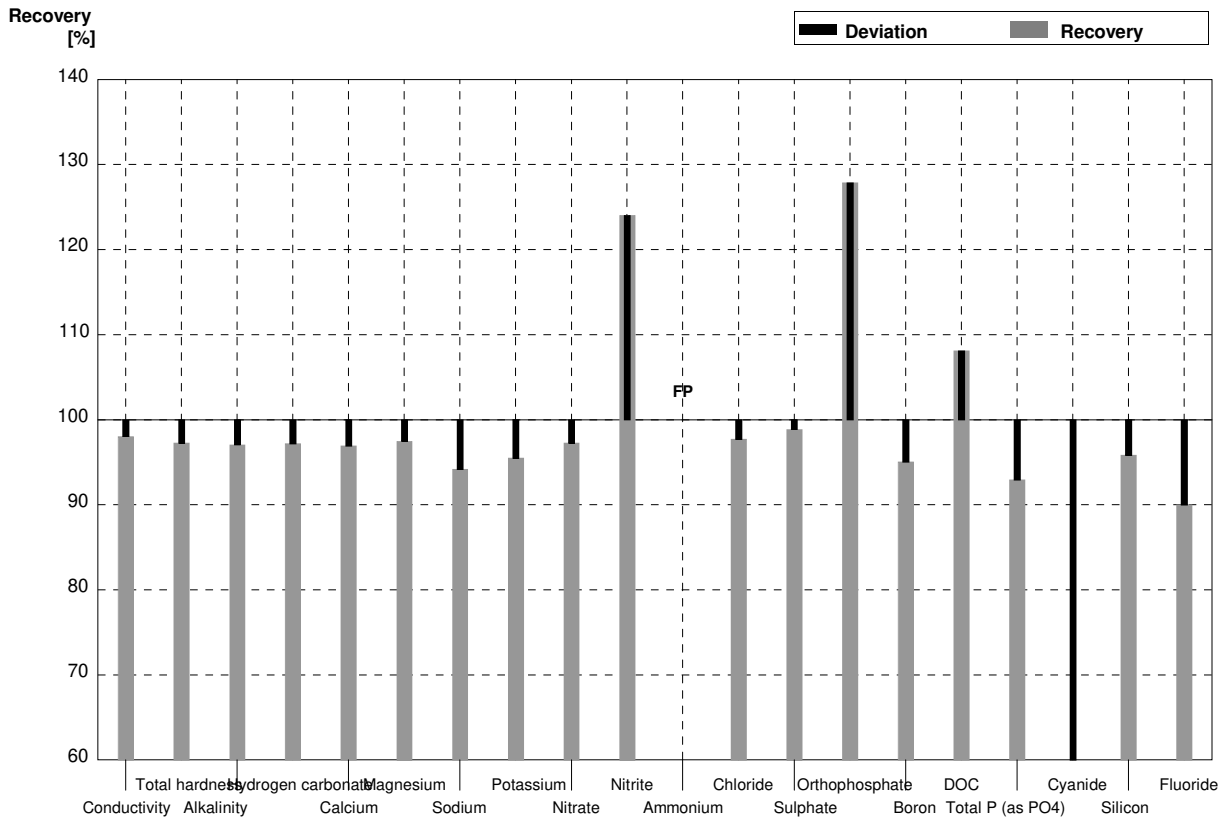
Sample N168A
Laboratory AH

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	601	11	µS/cm	98%
Total hardness	2,60	0,03	2,48	0,13	mmol/l	95%
Alkalinity	3,33	0,04	3,23	0,17	mmol/l	97%
Hydrogen carbonate	200	3	194	10	mg/l	97%
Calcium	73,9	1,2	70,7	3,6	mg/l	96%
Magnesium	18,4	0,3	17,5	0,9	mg/l	95%
Sodium	18,14	0,13	16,8	0,9	mg/l	93%
Potassium	8,07	0,05	7,7	0,4	mg/l	95%
Nitrate	43,8	1,1	41,5	2,1	mg/l	95%
Nitrite	0,0448	0,0004	0,051	0,006	mg/l	114%
Ammonium	0,0303	0,0047	0,053	0,006	mg/l	175%
Chloride	41,0	1,5	39,9	2,0	mg/l	97%
Sulphate	46,6	0,9	45,7	2,3	mg/l	98%
Orthophosphate	<0,009		0,0180	0,0018	mg/l	FP
Boron	0,1403	0,0013	0,131	0,007	mg/l	93%
DOC	5,06	0,05	5,9	0,5	mg/l	117%
Total P (as PO4)	<0,009		0,0185	0,0019	mg/l	FP
Cyanide	0,0397	0,0016	0,0270	0,0027	mg/l	68%
Silicon	4,49	0,03	4,31	0,22	mg/l	96%
Fluoride	0,701	0,018	0,64	0,04	mg/l	91%



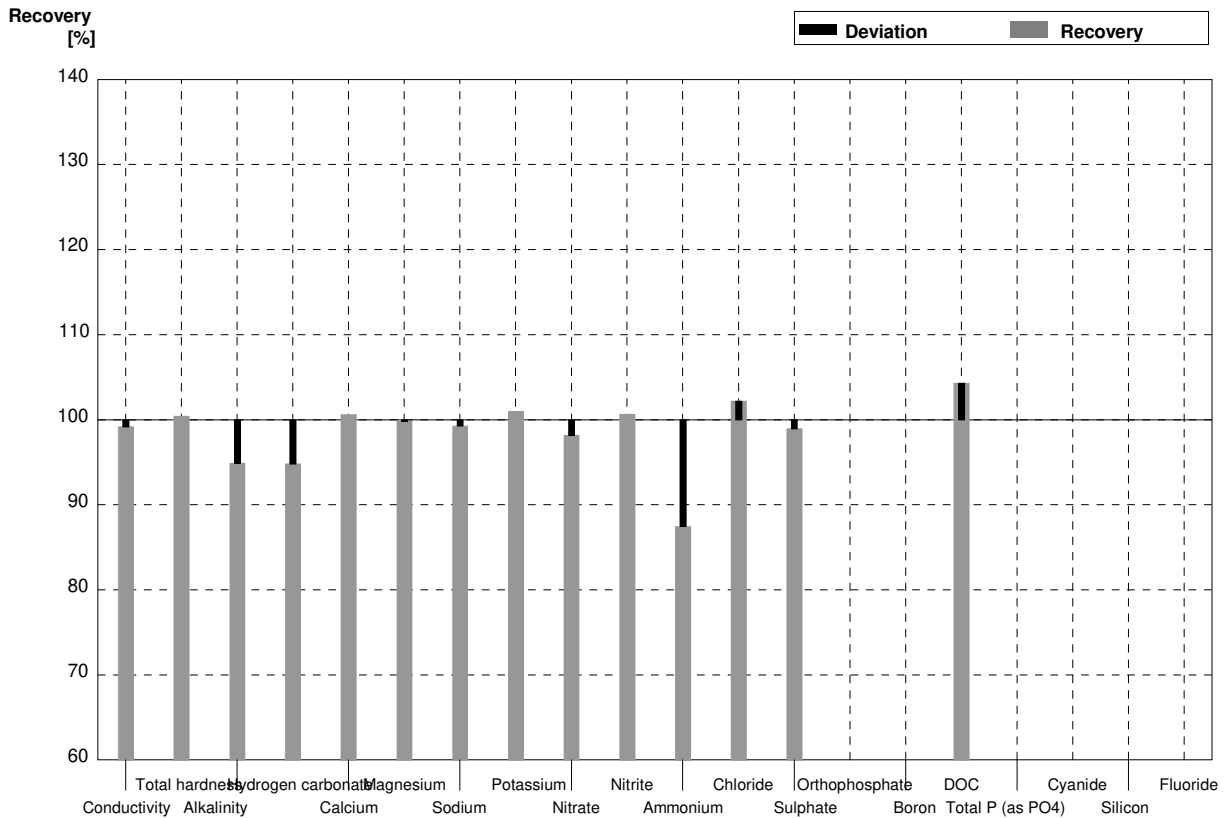
Sample N168B
Laboratory AH

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	401	7	µS/cm	98%
Total hardness	1,285	0,015	1,25	0,07	mmol/l	97%
Alkalinity	2,04	0,03	1,98	0,10	mmol/l	97%
Hydrogen carbonate	121,4	1,5	118	6	mg/l	97%
Calcium	35,8	0,5	34,7	1,8	mg/l	97%
Magnesium	9,54	0,18	9,30	0,47	mg/l	97%
Sodium	29,2	0,3	27,5	1,4	mg/l	94%
Potassium	5,76	0,03	5,50	0,28	mg/l	95%
Nitrate	11,0	0,3	10,7	0,6	mg/l	97%
Nitrite	0,0254	0,0003	0,0315	0,0032	mg/l	124%
Ammonium	<0,01		0,0355	0,0036	mg/l	FP
Chloride	35,1	0,5	34,3	1,8	mg/l	98%
Sulphate	34,9	0,7	34,5	1,8	mg/l	99%
Orthophosphate	0,0829	0,0009	0,106	0,011	mg/l	128%
Boron	0,1010	0,0007	0,096	0,005	mg/l	95%
DOC	8,14	0,06	8,8	0,8	mg/l	108%
Total P (as PO4)	0,1216	0,0010	0,113	0,012	mg/l	93%
Cyanide	0,0704	0,0017	0,0340	0,0034	mg/l	48%
Silicon	5,99	0,03	5,74	0,29	mg/l	96%
Fluoride	0,270	0,007	0,243	0,013	mg/l	90%



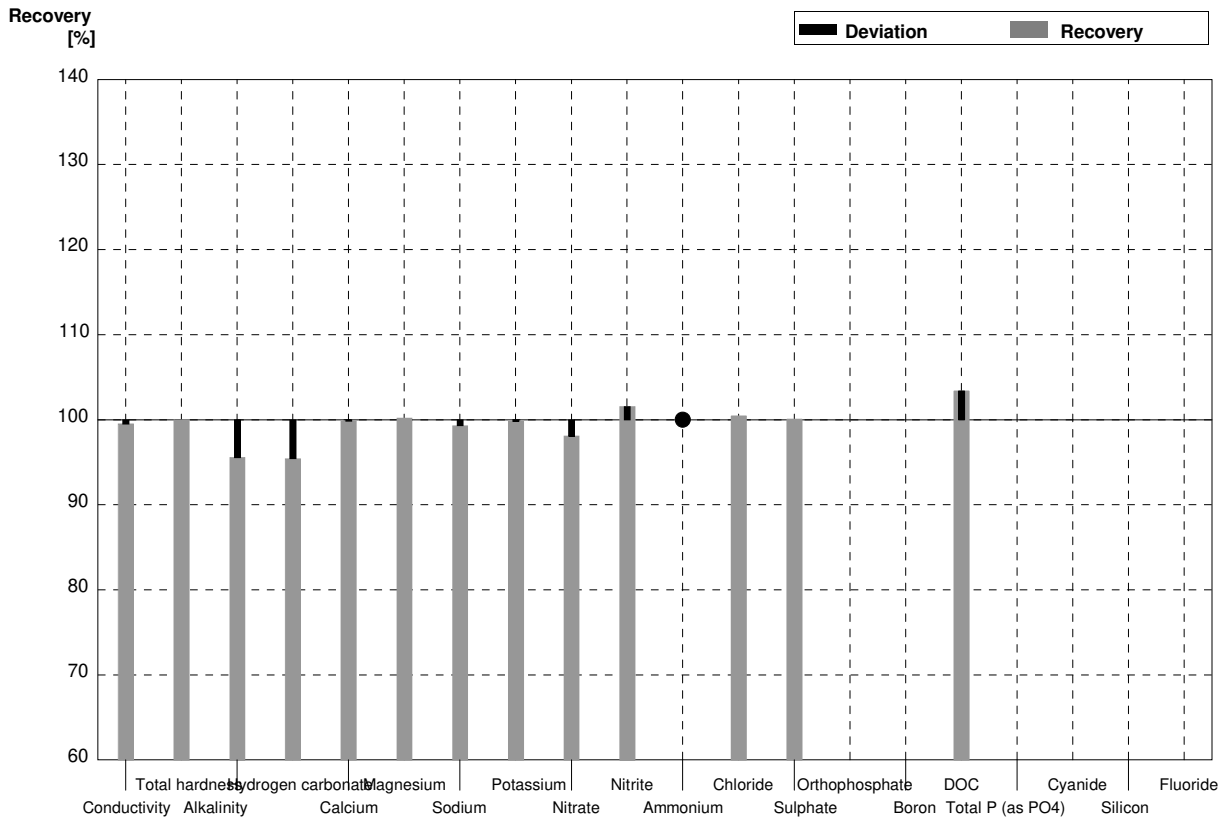
Sample N168A
Laboratory AI

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	609,0	13,4	µS/cm	99%
Total hardness	2,60	0,03	2,611	0,10	mmol/l	100%
Alkalinity	3,33	0,04	3,16	0,07	mmol/l	95%
Hydrogen carbonate	200	3	189,65	3,98	mg/l	95%
Calcium	73,9	1,2	74,35	2,90	mg/l	101%
Magnesium	18,4	0,3	18,37	0,86	mg/l	100%
Sodium	18,14	0,13	18,01	0,86	mg/l	99%
Potassium	8,07	0,05	8,15	0,52	mg/l	101%
Nitrate	43,8	1,1	43,00	2,88	mg/l	98%
Nitrite	0,0448	0,0004	0,0451	0,003	mg/l	101%
Ammonium	0,0303	0,0047	0,0265	0,004	mg/l	87%
Chloride	41,0	1,5	41,91	1,97	mg/l	102%
Sulphate	46,6	0,9	46,11	2,31	mg/l	99%
Orthophosphate	<0,009				mg/l	
Boron	0,1403	0,0013			mg/l	
DOC	5,06	0,05	5,278	0,92	mg/l	104%
Total P (as PO4)	<0,009				mg/l	
Cyanide	0,0397	0,0016			mg/l	
Silicon	4,49	0,03			mg/l	
Fluoride	0,701	0,018			mg/l	



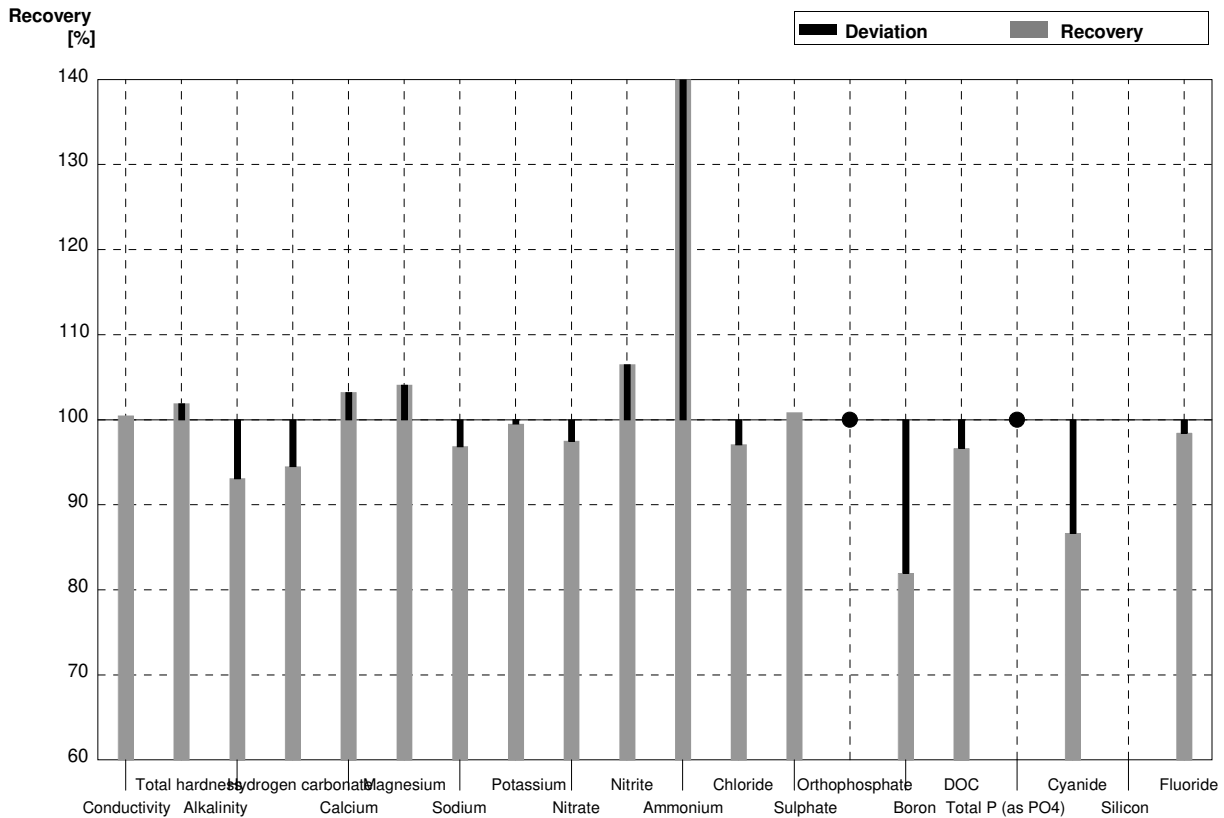
Sample N168B
Laboratory AI

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	407,0	9,0	µS/cm	100%
Total hardness	1,285	0,015	1,285	0,05	mmol/l	100%
Alkalinity	2,04	0,03	1,95	0,04	mmol/l	96%
Hydrogen carbonate	121,4	1,5	115,86	2,43	mg/l	95%
Calcium	35,8	0,5	35,75	1,39	mg/l	100%
Magnesium	9,54	0,18	9,56	0,45	mg/l	100%
Sodium	29,2	0,3	29,00	1,39	mg/l	99%
Potassium	5,76	0,03	5,75	0,37	mg/l	100%
Nitrate	11,0	0,3	10,79	0,72	mg/l	98%
Nitrite	0,0254	0,0003	0,0258	0,002	mg/l	102%
Ammonium	<0,01		<0,005		mg/l	•
Chloride	35,1	0,5	35,26	1,66	mg/l	100%
Sulphate	34,9	0,7	34,94	1,75	mg/l	100%
Orthophosphate	0,0829	0,0009			mg/l	
Boron	0,1010	0,0007			mg/l	
DOC	8,14	0,06	8,419	1,46	mg/l	103%
Total P (as PO4)	0,1216	0,0010			mg/l	
Cyanide	0,0704	0,0017			mg/l	
Silicon	5,99	0,03			mg/l	
Fluoride	0,270	0,007			mg/l	



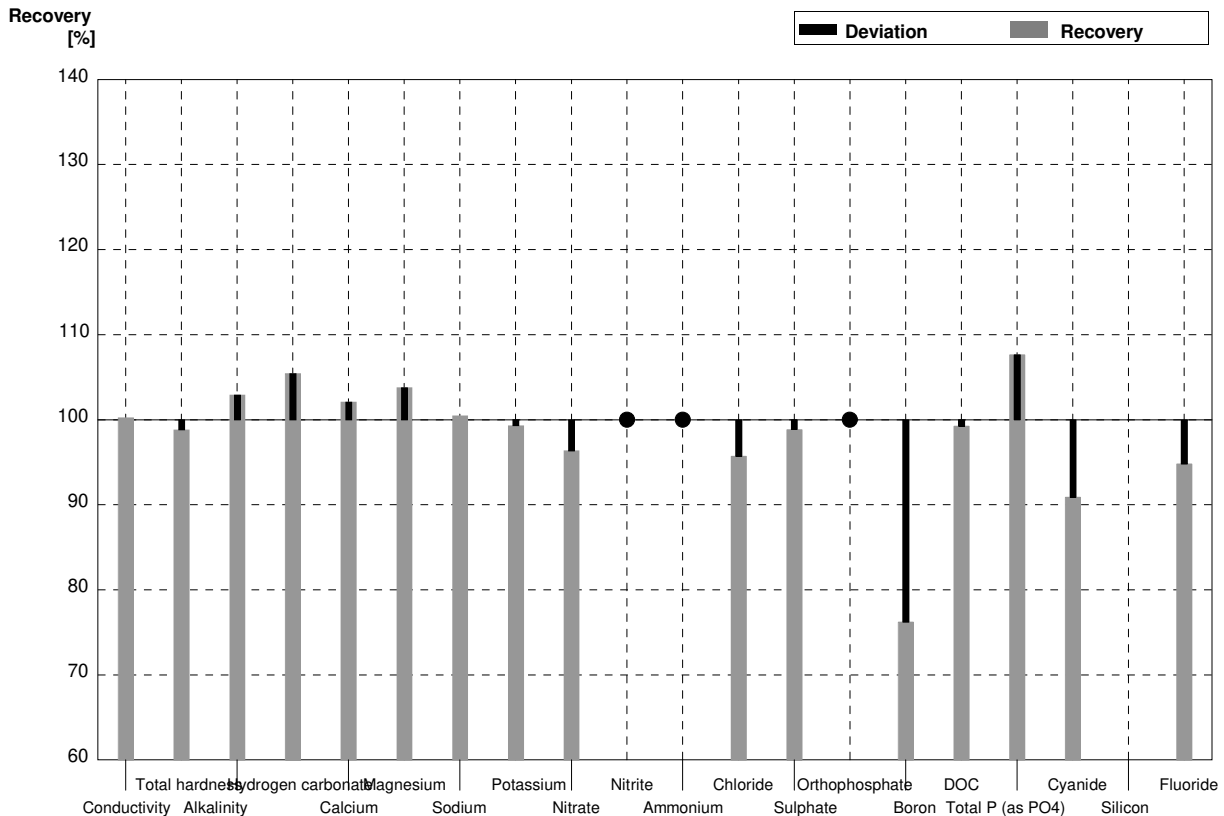
Sample N168A
Laboratory AJ

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	617	25	µS/cm	100%
Total hardness	2,60	0,03	2,65	0,26	mmol/l	102%
Alkalinity	3,33	0,04	3,10	0,31	mmol/l	93%
Hydrogen carbonate	200	3	189		mg/l	95%
Calcium	73,9	1,2	76,26	6	mg/l	103%
Magnesium	18,4	0,3	19,15	1,15	mg/l	104%
Sodium	18,14	0,13	17,57	1,4	mg/l	97%
Potassium	8,07	0,05	8,03	0,88	mg/l	100%
Nitrate	43,8	1,1	42,7	3,84	mg/l	97%
Nitrite	0,0448	0,0004	0,0477	0,004	mg/l	106%
Ammonium	0,0303	0,0047	0,0531	0,004	mg/l	175%
Chloride	41,0	1,5	39,8	3,18	mg/l	97%
Sulphate	46,6	0,9	47,0	4,23	mg/l	101%
Orthophosphate	<0,009		<0,12		mg/l	•
Boron	0,1403	0,0013	0,115	0,011	mg/l	82%
DOC	5,06	0,05	4,89	0,49	mg/l	97%
Total P (as PO4)	<0,009		<0,06		mg/l	•
Cyanide	0,0397	0,0016	0,0344	0,003	mg/l	87%
Silicon	4,49	0,03			mg/l	
Fluoride	0,701	0,018	0,69	0,062	mg/l	98%



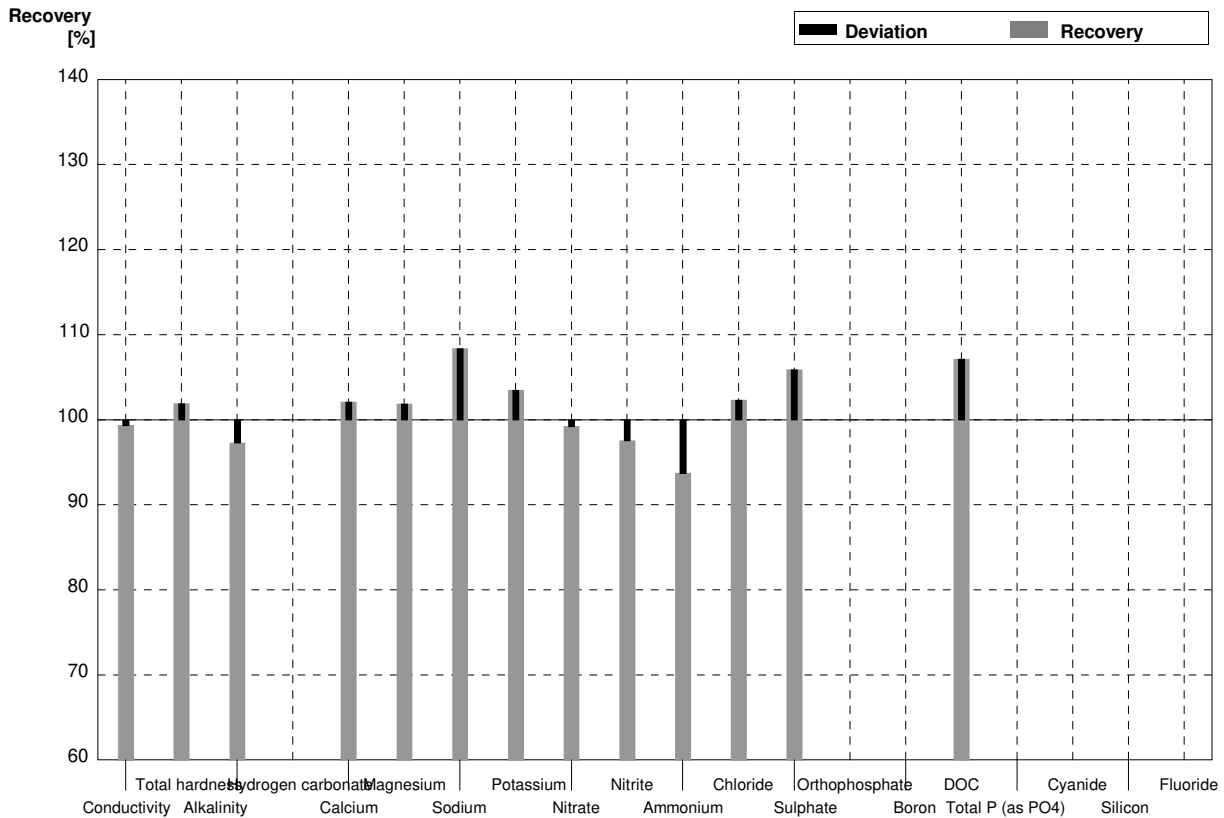
Sample N168B
Laboratory AJ

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	410	17	µS/cm	100%
Total hardness	1,285	0,015	1,27	0,13	mmol/l	99%
Alkalinity	2,04	0,03	2,10	0,21	mmol/l	103%
Hydrogen carbonate	121,4	1,5	128		mg/l	105%
Calcium	35,8	0,5	36,54	3	mg/l	102%
Magnesium	9,54	0,18	9,90	0,59	mg/l	104%
Sodium	29,2	0,3	29,34	2,35	mg/l	100%
Potassium	5,76	0,03	5,72	0,63	mg/l	99%
Nitrate	11,0	0,3	10,6	0,95	mg/l	96%
Nitrite	0,0254	0,0003	<0,03		mg/l	•
Ammonium	<0,01		<0,05		mg/l	•
Chloride	35,1	0,5	33,6	2,69	mg/l	96%
Sulphate	34,9	0,7	34,5	3,10	mg/l	99%
Orthophosphate	0,0829	0,0009	<0,12		mg/l	•
Boron	0,1010	0,0007	0,077	0,007	mg/l	76%
DOC	8,14	0,06	8,08	0,81	mg/l	99%
Total P (as PO4)	0,1216	0,0010	0,1309	0,014	mg/l	108%
Cyanide	0,0704	0,0017	0,0640	0,006	mg/l	91%
Silicon	5,99	0,03			mg/l	
Fluoride	0,270	0,007	0,256	0,023	mg/l	95%



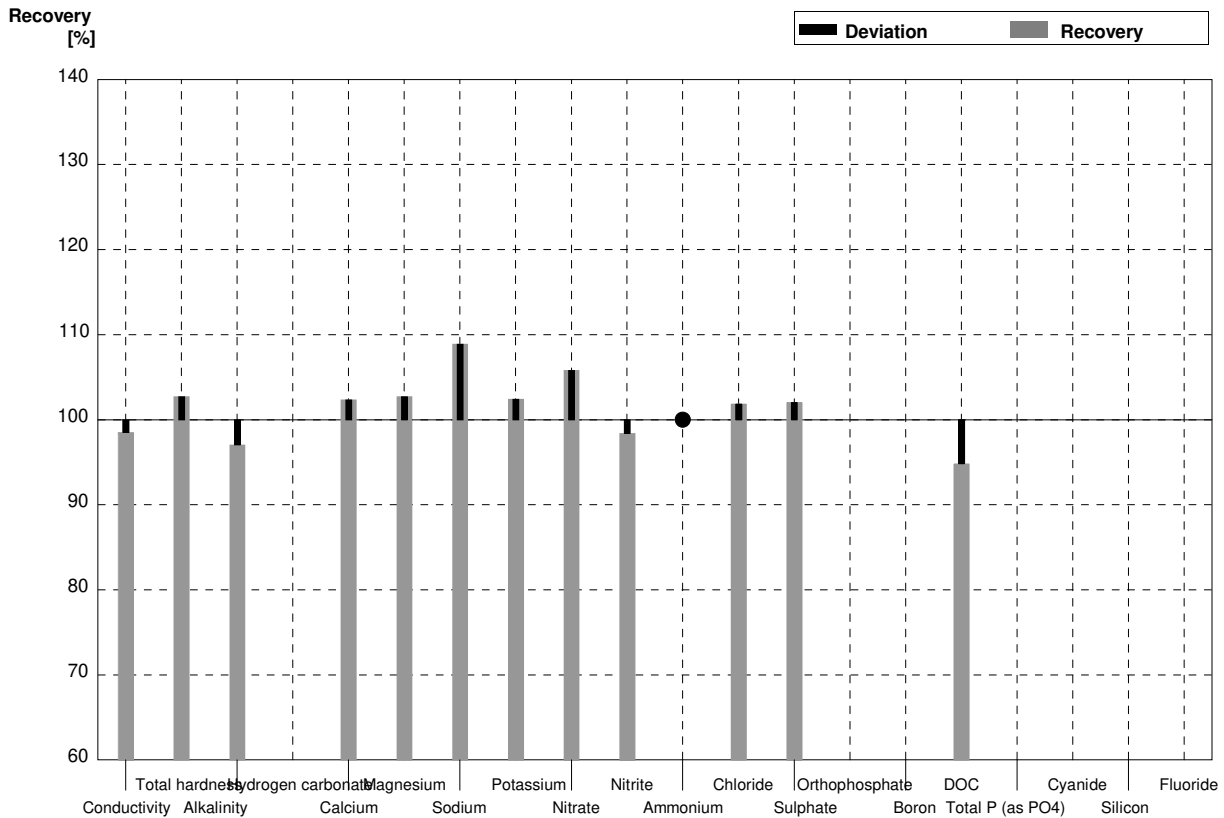
Sample N168A
Laboratory AK

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	610	30	µS/cm	99%
Total hardness	2,60	0,03	2,65	0,05	mmol/l	102%
Alkalinity	3,33	0,04	3,24	0,02	mmol/l	97%
Hydrogen carbonate	200	3			mg/l	
Calcium	73,9	1,2	75,45	0,6	mg/l	102%
Magnesium	18,4	0,3	18,74	0,6	mg/l	102%
Sodium	18,14	0,13	19,66	0,3	mg/l	108%
Potassium	8,07	0,05	8,35	0,06	mg/l	103%
Nitrate	43,8	1,1	43,46	0,5	mg/l	99%
Nitrite	0,0448	0,0004	0,0437	0,015	mg/l	98%
Ammonium	0,0303	0,0047	0,0284	0,080	mg/l	94%
Chloride	41,0	1,5	41,95	0,25	mg/l	102%
Sulphate	46,6	0,9	49,34	3,0	mg/l	106%
Orthophosphate	<0,009				mg/l	
Boron	0,1403	0,0013			mg/l	
DOC	5,06	0,05	5,42	0,03	mg/l	107%
Total P (as PO4)	<0,009				mg/l	
Cyanide	0,0397	0,0016			mg/l	
Silicon	4,49	0,03			mg/l	
Fluoride	0,701	0,018			mg/l	



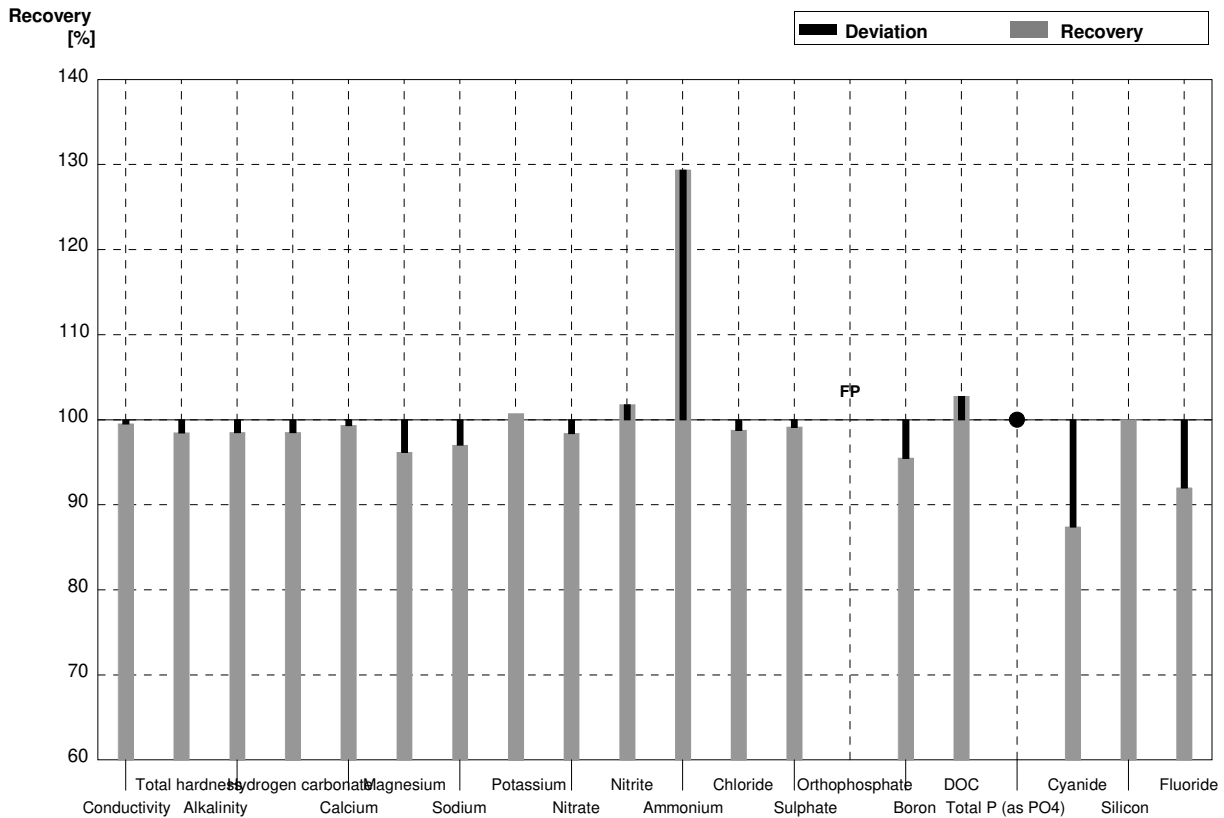
Sample N168B
Laboratory AK

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	403	30	µS/cm	99%
Total hardness	1,285	0,015	1,32	0,05	mmol/l	103%
Alkalinity	2,04	0,03	1,98	0,02	mmol/l	97%
Hydrogen carbonate	121,4	1,5			mg/l	
Calcium	35,8	0,5	36,64	0,6	mg/l	102%
Magnesium	9,54	0,18	9,80	0,6	mg/l	103%
Sodium	29,2	0,3	31,80	0,3	mg/l	109%
Potassium	5,76	0,03	5,90	0,06	mg/l	102%
Nitrate	11,0	0,3	11,64	0,5	mg/l	106%
Nitrite	0,0254	0,0003	0,0250	0,015	mg/l	98%
Ammonium	<0,01		<0,03	0,08	mg/l	•
Chloride	35,1	0,5	35,75	0,25	mg/l	102%
Sulphate	34,9	0,7	35,61	3,0	mg/l	102%
Orthophosphate	0,0829	0,0009			mg/l	
Boron	0,1010	0,0007			mg/l	
DOC	8,14	0,06	7,72	0,03	mg/l	95%
Total P (as PO4)	0,1216	0,0010			mg/l	
Cyanide	0,0704	0,0017			mg/l	
Silicon	5,99	0,03			mg/l	
Fluoride	0,270	0,007			mg/l	



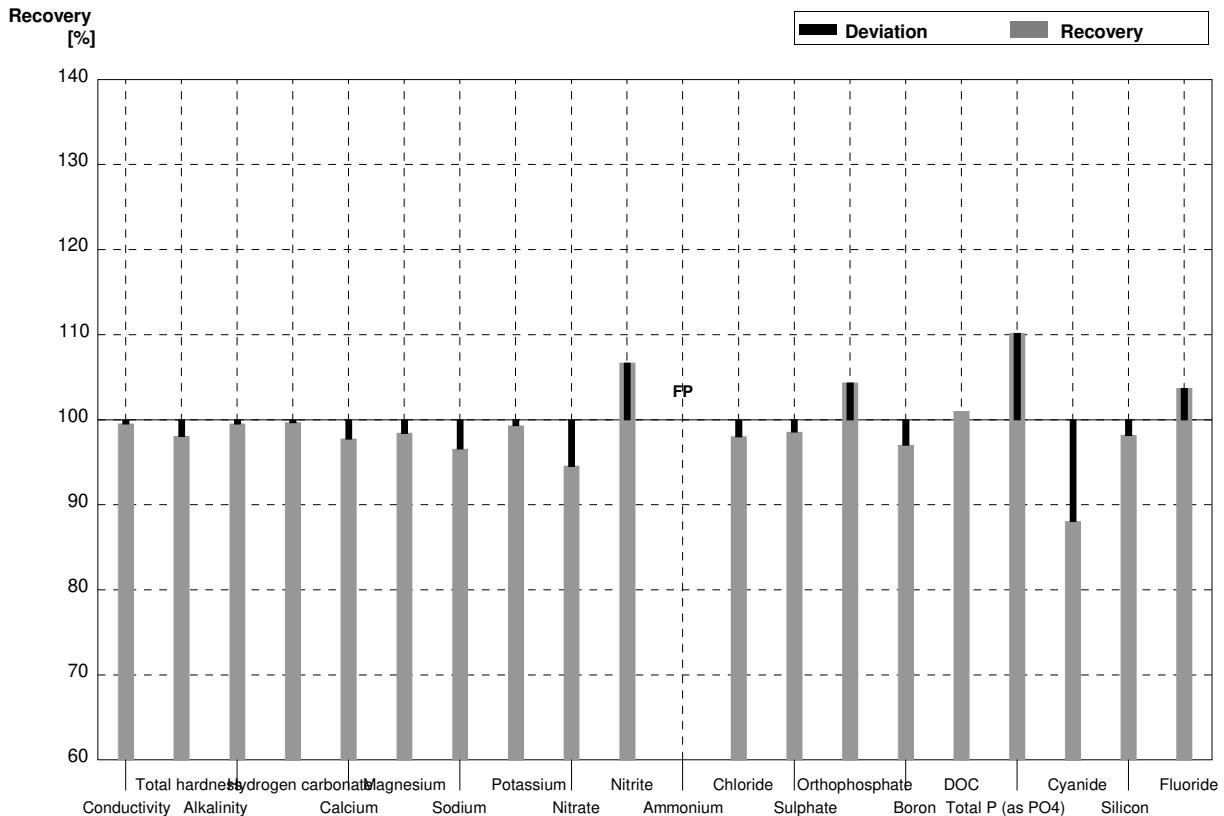
Sample N168A
Laboratory AL

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	611	24,4	µS/cm	100%
Total hardness	2,60	0,03	2,56	0,461	mmol/l	98%
Alkalinity	3,33	0,04	3,28	0,131	mmol/l	98%
Hydrogen carbonate	200	3	197	7,88	mg/l	99%
Calcium	73,9	1,2	73,4	13,2	mg/l	99%
Magnesium	18,4	0,3	17,7	3,19	mg/l	96%
Sodium	18,14	0,13	17,6	3,17	mg/l	97%
Potassium	8,07	0,05	8,13	1,46	mg/l	101%
Nitrate	43,8	1,1	43,1	3,88	mg/l	98%
Nitrite	0,0448	0,0004	0,0456	0,004	mg/l	102%
Ammonium	0,0303	0,0047	0,0392	0,004	mg/l	129%
Chloride	41,0	1,5	40,5	3,65	mg/l	99%
Sulphate	46,6	0,9	46,2	4,16	mg/l	99%
Orthophosphate	<0,009		0,0102	0,001	mg/l	FP
Boron	0,1403	0,0013	0,134	0,024	mg/l	96%
DOC	5,06	0,05	5,20	0,468	mg/l	103%
Total P (as PO4)	<0,009		<0,05		mg/l	•
Cyanide	0,0397	0,0016	0,0347	0,003	mg/l	87%
Silicon	4,49	0,03	4,49	0,180	mg/l	100%
Fluoride	0,701	0,018	0,645	0,058	mg/l	92%



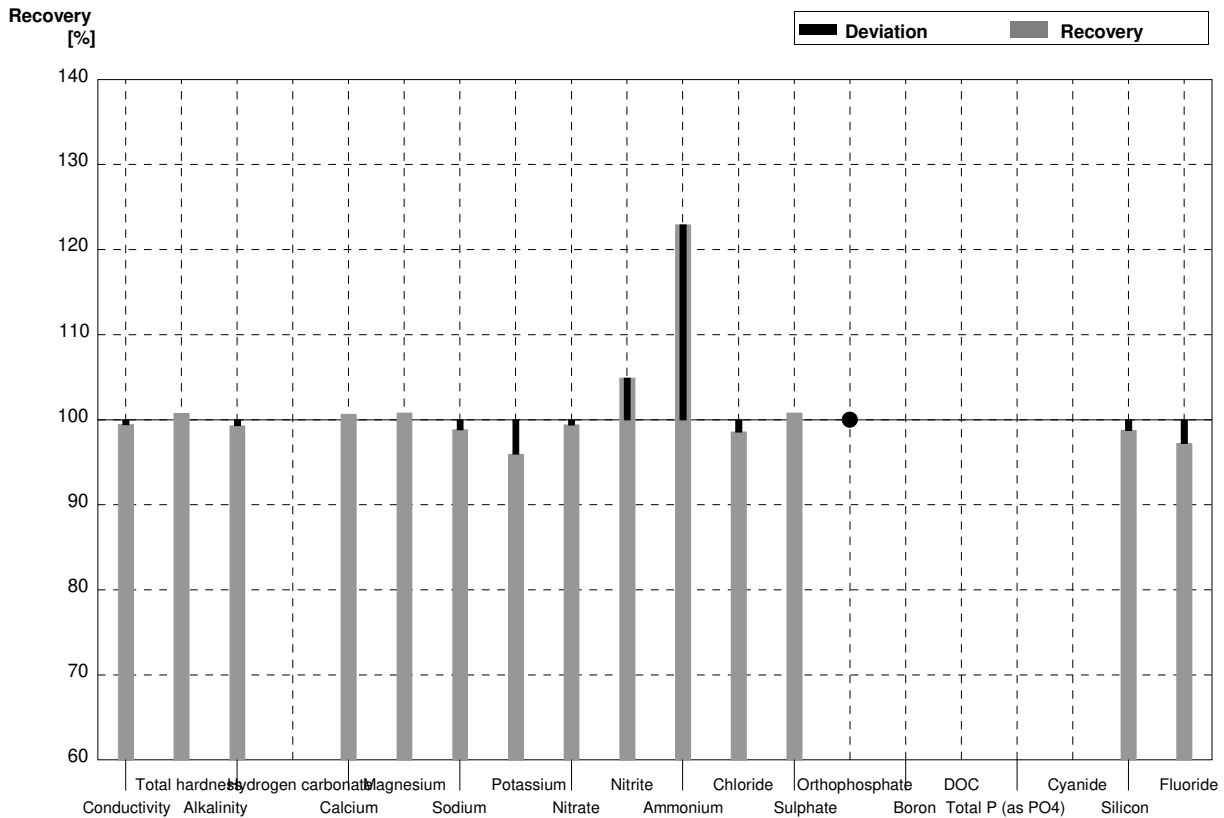
Sample N168B
Laboratory AL

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	407	16,3	µS/cm	100%
Total hardness	1,285	0,015	1,26	0,227	mmol/l	98%
Alkalinity	2,04	0,03	2,03	0,081	mmol/l	100%
Hydrogen carbonate	121,4	1,5	121	4,84	mg/l	100%
Calcium	35,8	0,5	35,0	6,3	mg/l	98%
Magnesium	9,54	0,18	9,39	1,69	mg/l	98%
Sodium	29,2	0,3	28,2	5,08	mg/l	97%
Potassium	5,76	0,03	5,72	1,03	mg/l	99%
Nitrate	11,0	0,3	10,4	0,936	mg/l	95%
Nitrite	0,0254	0,0003	0,0271	0,002	mg/l	107%
Ammonium	<0,01		0,0123	0,001	mg/l	FP
Chloride	35,1	0,5	34,4	3,10	mg/l	98%
Sulphate	34,9	0,7	34,4	3,10	mg/l	99%
Orthophosphate	0,0829	0,0009	0,0865	0,008	mg/l	104%
Boron	0,1010	0,0007	0,098	0,018	mg/l	97%
DOC	8,14	0,06	8,22	0,740	mg/l	101%
Total P (as PO4)	0,1216	0,0010	0,134	0,005	mg/l	110%
Cyanide	0,0704	0,0017	0,0620	0,006	mg/l	88%
Silicon	5,99	0,03	5,88	0,235	mg/l	98%
Fluoride	0,270	0,007	0,280	0,025	mg/l	104%



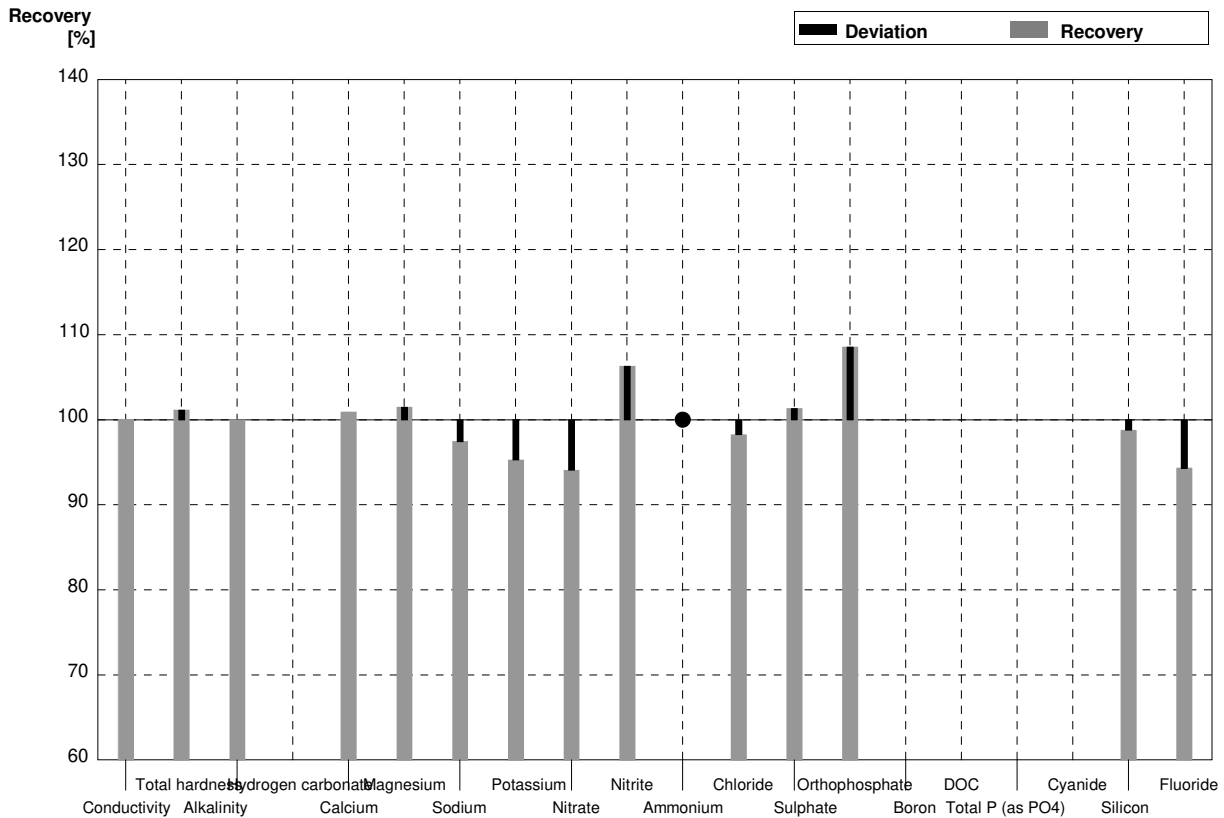
Sample N168A
Laboratory AM

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	610,6	17,0	µS/cm	99%
Total hardness	2,60	0,03	2,6195	0,10478	mmol/l	101%
Alkalinity	3,33	0,04	3,307	0,0168	mmol/l	99%
Hydrogen carbonate	200	3			mg/l	
Calcium	73,9	1,2	74,40	3,79	mg/l	101%
Magnesium	18,4	0,3	18,55	0,556	mg/l	101%
Sodium	18,14	0,13	17,93	0,520	mg/l	99%
Potassium	8,07	0,05	7,745	0,209	mg/l	96%
Nitrate	43,8	1,1	43,54	2,786	mg/l	99%
Nitrite	0,0448	0,0004	0,0470	0,00987	mg/l	105%
Ammonium	0,0303	0,0047	0,03725	0,00409	mg/l	123%
Chloride	41,0	1,5	40,42	1,738	mg/l	99%
Sulphate	46,6	0,9	46,98	1,456	mg/l	101%
Orthophosphate	<0,009		0,0071	0,00071	mg/l	•
Boron	0,1403	0,0013			mg/l	
DOC	5,06	0,05			mg/l	
Total P (as PO4)	<0,009				mg/l	
Cyanide	0,0397	0,0016			mg/l	
Silicon	4,49	0,03	4,435	0,279	mg/l	99%
Fluoride	0,701	0,018	0,6817	0,0477	mg/l	97%



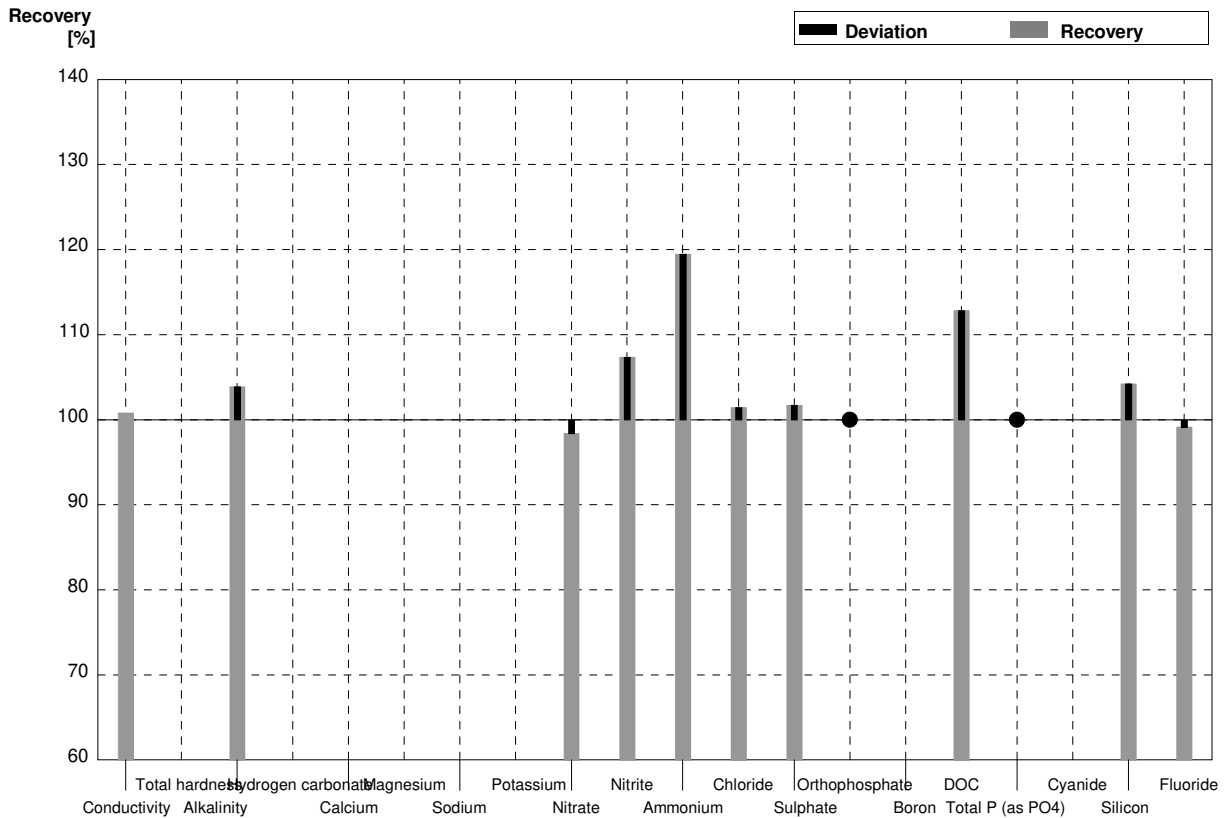
Sample N168B
Laboratory AM

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	409,3	11,4	µS/cm	100%
Total hardness	1,285	0,015	1,2998	0,05199	mmol/l	101%
Alkalinity	2,04	0,03	2,040	0,0104	mmol/l	100%
Hydrogen carbonate	121,4	1,5			mg/l	
Calcium	35,8	0,5	36,13	1,84	mg/l	101%
Magnesium	9,54	0,18	9,683	0,290	mg/l	101%
Sodium	29,2	0,3	28,46	0,826	mg/l	97%
Potassium	5,76	0,03	5,488	0,148	mg/l	95%
Nitrate	11,0	0,3	10,35	0,662	mg/l	94%
Nitrite	0,0254	0,0003	0,0270	0,00567	mg/l	106%
Ammonium	<0,01		0,00466	0,00051	mg/l	•
Chloride	35,1	0,5	34,49	1,483	mg/l	98%
Sulphate	34,9	0,7	35,36	1,096	mg/l	101%
Orthophosphate	0,0829	0,0009	0,090	0,009	mg/l	109%
Boron	0,1010	0,0007			mg/l	
DOC	8,14	0,06			mg/l	
Total P (as PO4)	0,1216	0,0010			mg/l	
Cyanide	0,0704	0,0017			mg/l	
Silicon	5,99	0,03	5,918	0,372	mg/l	99%
Fluoride	0,270	0,007	0,2547	0,0178	mg/l	94%



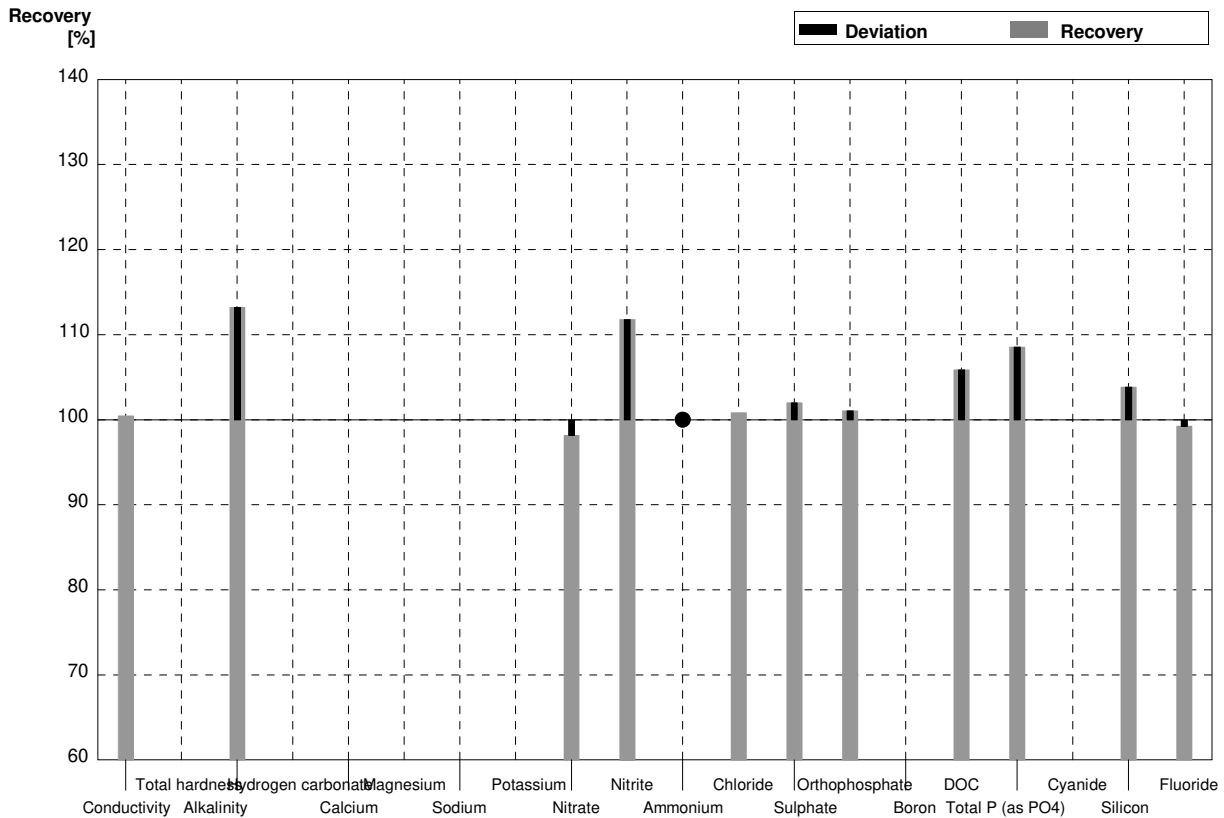
Sample N168A
Laboratory AN

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	619		µS/cm	101%
Total hardness	2,60	0,03			mmol/l	
Alkalinity	3,33	0,04	3,46		mmol/l	104%
Hydrogen carbonate	200	3			mg/l	
Calcium	73,9	1,2			mg/l	
Magnesium	18,4	0,3			mg/l	
Sodium	18,14	0,13			mg/l	
Potassium	8,07	0,05			mg/l	
Nitrate	43,8	1,1	43,1		mg/l	98%
Nitrite	0,0448	0,0004	0,0481		mg/l	107%
Ammonium	0,0303	0,0047	0,0362		mg/l	119%
Chloride	41,0	1,5	41,6		mg/l	101%
Sulphate	46,6	0,9	47,4		mg/l	102%
Orthophosphate	<0,009		<0,02		mg/l	•
Boron	0,1403	0,0013			mg/l	
DOC	5,06	0,05	5,71		mg/l	113%
Total P (as PO4)	<0,009		<0,02		mg/l	•
Cyanide	0,0397	0,0016			mg/l	
Silicon	4,49	0,03	4,68		mg/l	104%
Fluoride	0,701	0,018	0,695		mg/l	99%



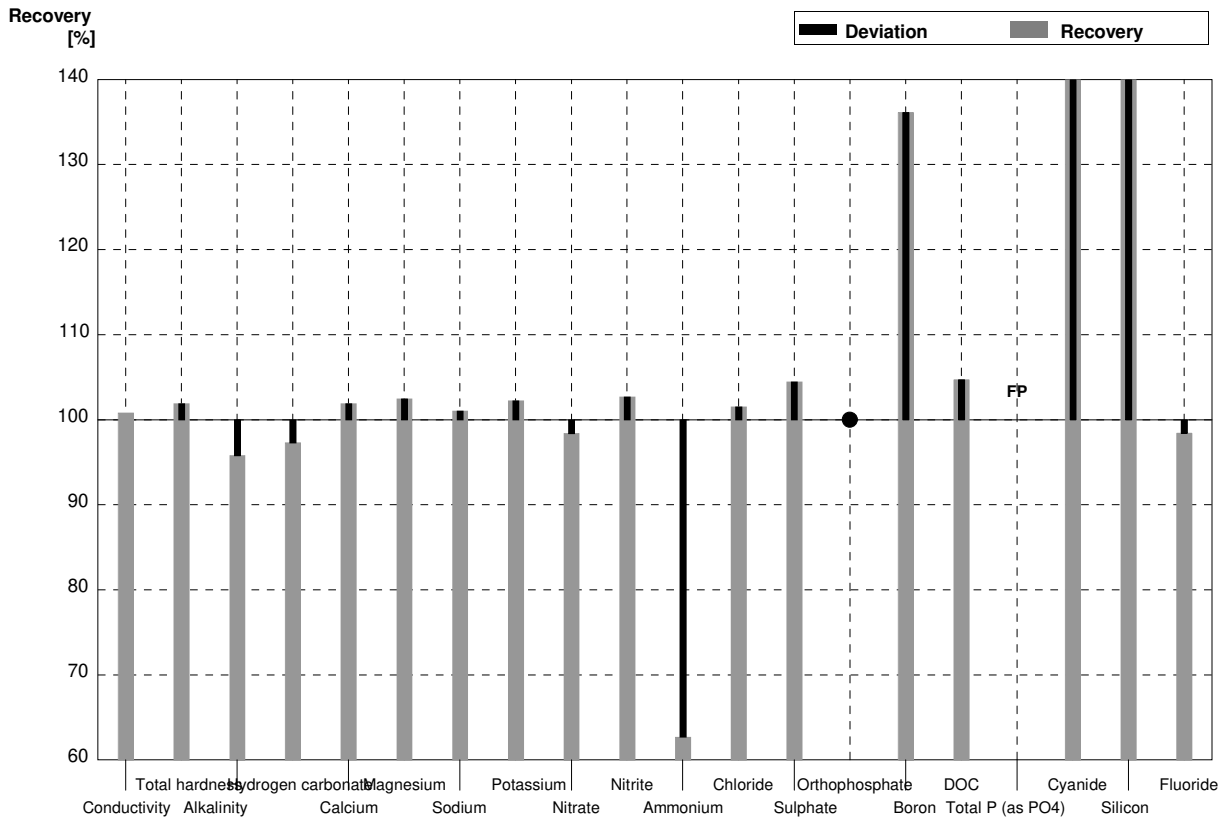
Sample N168B
Laboratory AN

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	411		µS/cm	100%
Total hardness	1,285	0,015			mmol/l	
Alkalinity	2,04	0,03	2,31		mmol/l	113%
Hydrogen carbonate	121,4	1,5			mg/l	
Calcium	35,8	0,5			mg/l	
Magnesium	9,54	0,18			mg/l	
Sodium	29,2	0,3			mg/l	
Potassium	5,76	0,03			mg/l	
Nitrate	11,0	0,3	10,8		mg/l	98%
Nitrite	0,0254	0,0003	0,0284		mg/l	112%
Ammonium	<0,01		<0,03		mg/l	•
Chloride	35,1	0,5	35,4		mg/l	101%
Sulphate	34,9	0,7	35,6		mg/l	102%
Orthophosphate	0,0829	0,0009	0,0838		mg/l	101%
Boron	0,1010	0,0007			mg/l	
DOC	8,14	0,06	8,62		mg/l	106%
Total P (as PO4)	0,1216	0,0010	0,132		mg/l	109%
Cyanide	0,0704	0,0017			mg/l	
Silicon	5,99	0,03	6,22		mg/l	104%
Fluoride	0,270	0,007	0,268		mg/l	99%



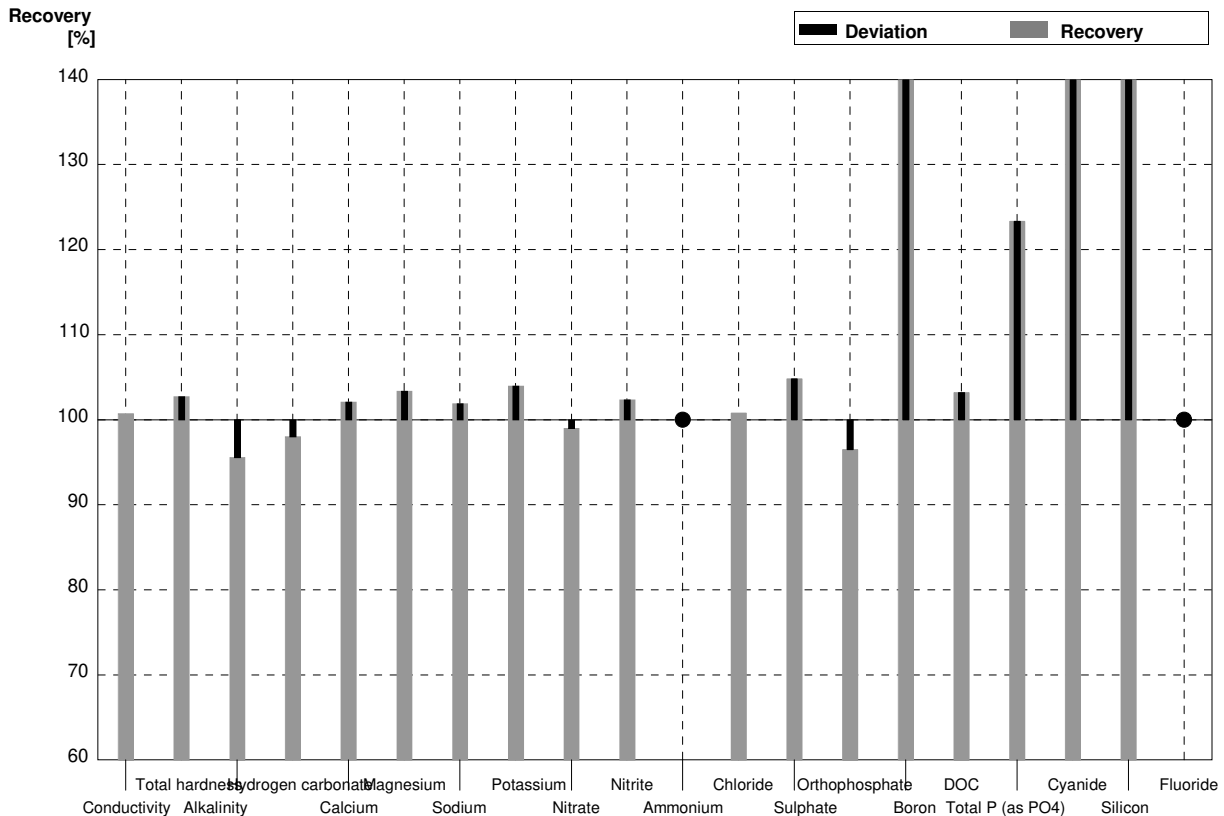
Sample N168A
Laboratory AO

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	619	61,9	µS/cm	101%
Total hardness	2,60	0,03	2,65		mmol/l	102%
Alkalinity	3,33	0,04	3,19	0,427	mmol/l	96%
Hydrogen carbonate	200	3	194,6	29,20	mg/l	97%
Calcium	73,9	1,2	75,31	7,531	mg/l	102%
Magnesium	18,4	0,3	18,85	1,885	mg/l	102%
Sodium	18,14	0,13	18,33	1,833	mg/l	101%
Potassium	8,07	0,05	8,25	0,825	mg/l	102%
Nitrate	43,8	1,1	43,099	2,1550	mg/l	98%
Nitrite	0,0448	0,0004	0,0460	0,0069	mg/l	103%
Ammonium	0,0303	0,0047	0,0190	0,00190	mg/l	63%
Chloride	41,0	1,5	41,63	2,082	mg/l	102%
Sulphate	46,6	0,9	48,68	2,434	mg/l	104%
Orthophosphate	<0,009		0,0090	0,00140	mg/l	•
Boron	0,1403	0,0013	0,191	0,0229	mg/l	136%
DOC	5,06	0,05	5,30	0,420	mg/l	105%
Total P (as PO4)	<0,009		0,03985	0,0061	mg/l	FP
Cyanide	0,0397	0,0016	43,30	4,330	mg/l	109068%
Silicon	4,49	0,03	9,10	1,37	mg/l	203%
Fluoride	0,701	0,018	0,69	0,069	mg/l	98%



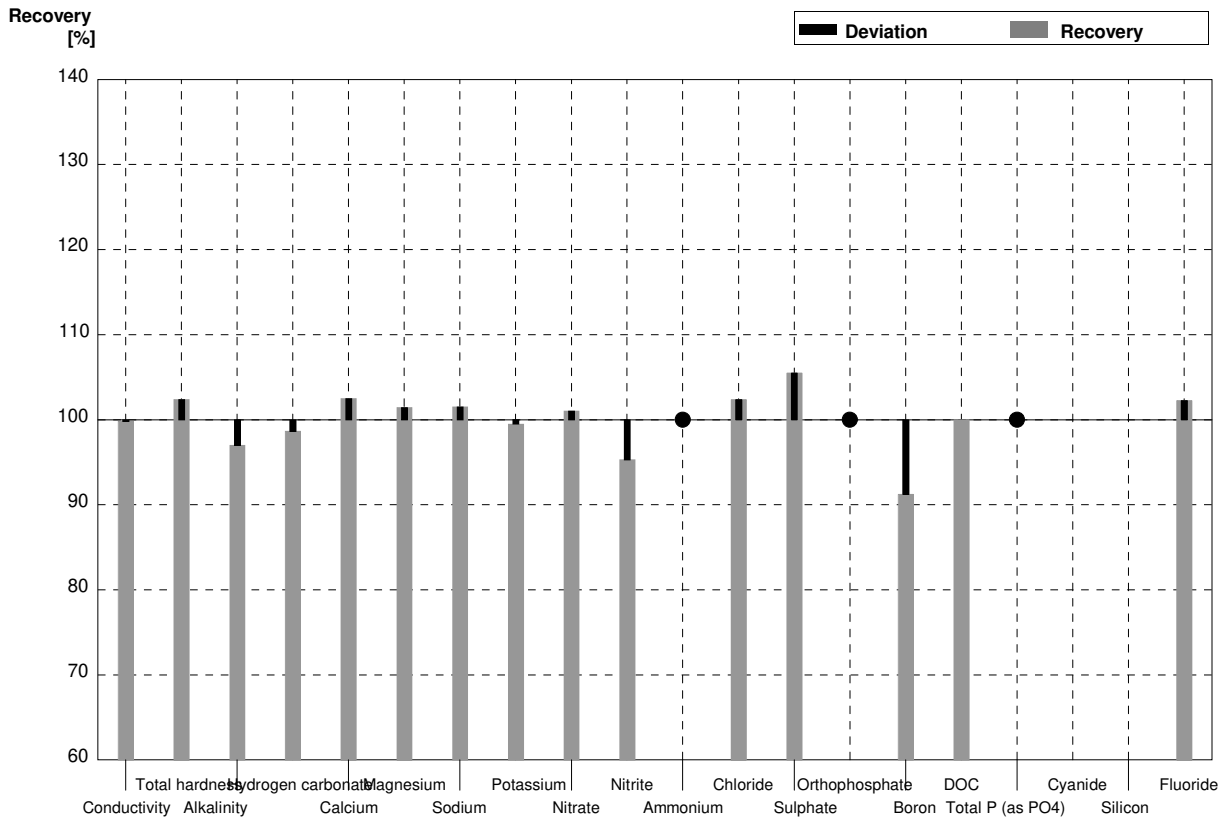
Sample N168B
Laboratory AO

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	412	41,2	µS/cm	101%
Total hardness	1,285	0,015	1,32		mmol/l	103%
Alkalinity	2,04	0,03	1,95	0,293	mmol/l	96%
Hydrogen carbonate	121,4	1,5	119,0	17,85	mg/l	98%
Calcium	35,8	0,5	36,54	3,654	mg/l	102%
Magnesium	9,54	0,18	9,86	0,986	mg/l	103%
Sodium	29,2	0,3	29,76	2,976	mg/l	102%
Potassium	5,76	0,03	5,99	0,599	mg/l	104%
Nitrate	11,0	0,3	10,89	0,5445	mg/l	99%
Nitrite	0,0254	0,0003	0,0260	0,00390	mg/l	102%
Ammonium	<0,01		<0,005		mg/l	•
Chloride	35,1	0,5	35,38	1,769	mg/l	101%
Sulphate	34,9	0,7	36,59	1,830	mg/l	105%
Orthophosphate	0,0829	0,0009	0,080	0,0120	mg/l	97%
Boron	0,1010	0,0007	0,149	0,0179	mg/l	148%
DOC	8,14	0,06	8,40	0,670	mg/l	103%
Total P (as PO4)	0,1216	0,0010	0,150	0,0227	mg/l	123%
Cyanide	0,0704	0,0017	74,86	7,486	mg/l	106335%
Silicon	5,99	0,03	12,2	1,83	mg/l	204%
Fluoride	0,270	0,007	<0,50		mg/l	•



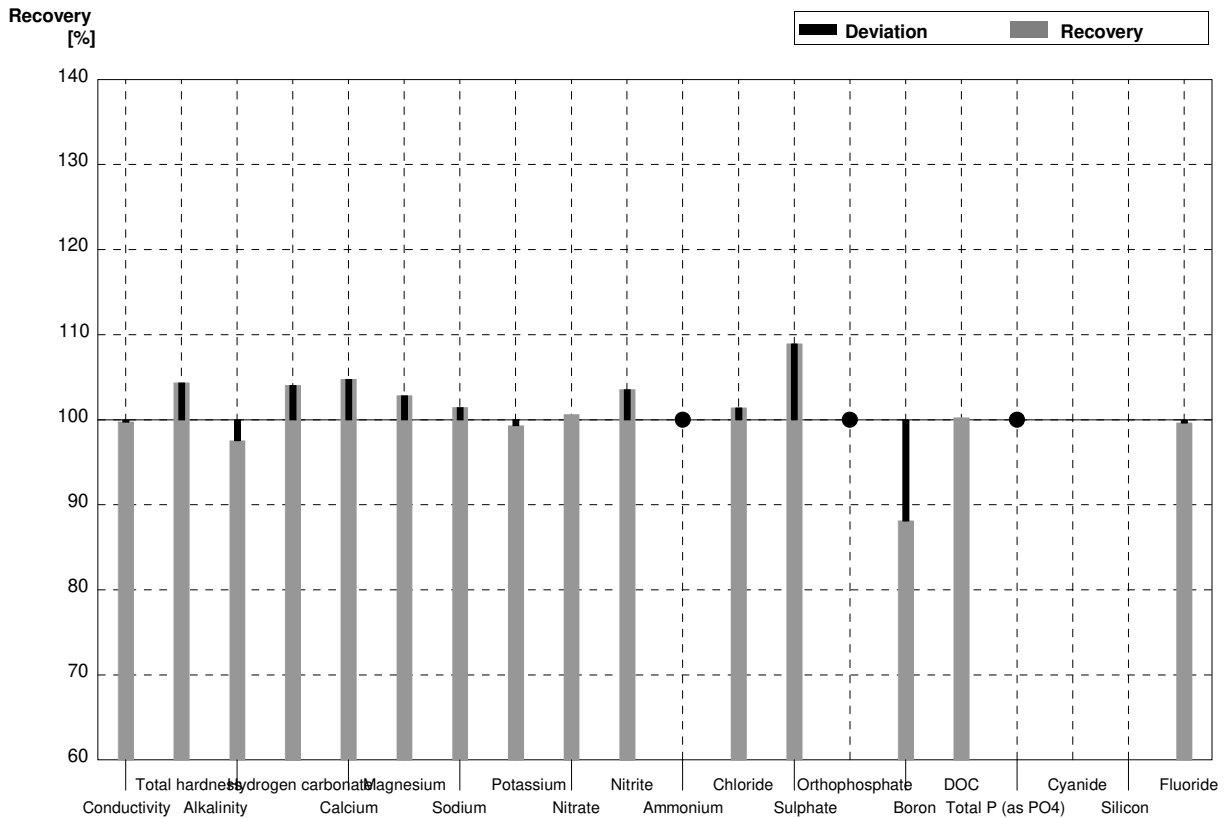
Sample N168A
Laboratory AP

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	613	61,3	µS/cm	100%
Total hardness	2,60	0,03	2,662		mmol/l	102%
Alkalinity	3,33	0,04	3,23		mmol/l	97%
Hydrogen carbonate	200	3	197,3		mg/l	99%
Calcium	73,9	1,2	75,75	11,36	mg/l	103%
Magnesium	18,4	0,3	18,67	2,80	mg/l	101%
Sodium	18,14	0,13	18,42	2,76	mg/l	102%
Potassium	8,07	0,05	8,03	1,20	mg/l	100%
Nitrate	43,8	1,1	44,26	6,64	mg/l	101%
Nitrite	0,0448	0,0004	0,0427	0,0085	mg/l	95%
Ammonium	0,0303	0,0047	<0,04		mg/l	•
Chloride	41,0	1,5	41,98	6,30	mg/l	102%
Sulphate	46,6	0,9	49,17	7,45	mg/l	106%
Orthophosphate	<0,009		<0,15		mg/l	•
Boron	0,1403	0,0013	0,128		mg/l	91%
DOC	5,06	0,05	5,06		mg/l	100%
Total P (as PO4)	<0,009		<0,15		mg/l	•
Cyanide	0,0397	0,0016			mg/l	
Silicon	4,49	0,03			mg/l	
Fluoride	0,701	0,018	0,717	0,143	mg/l	102%



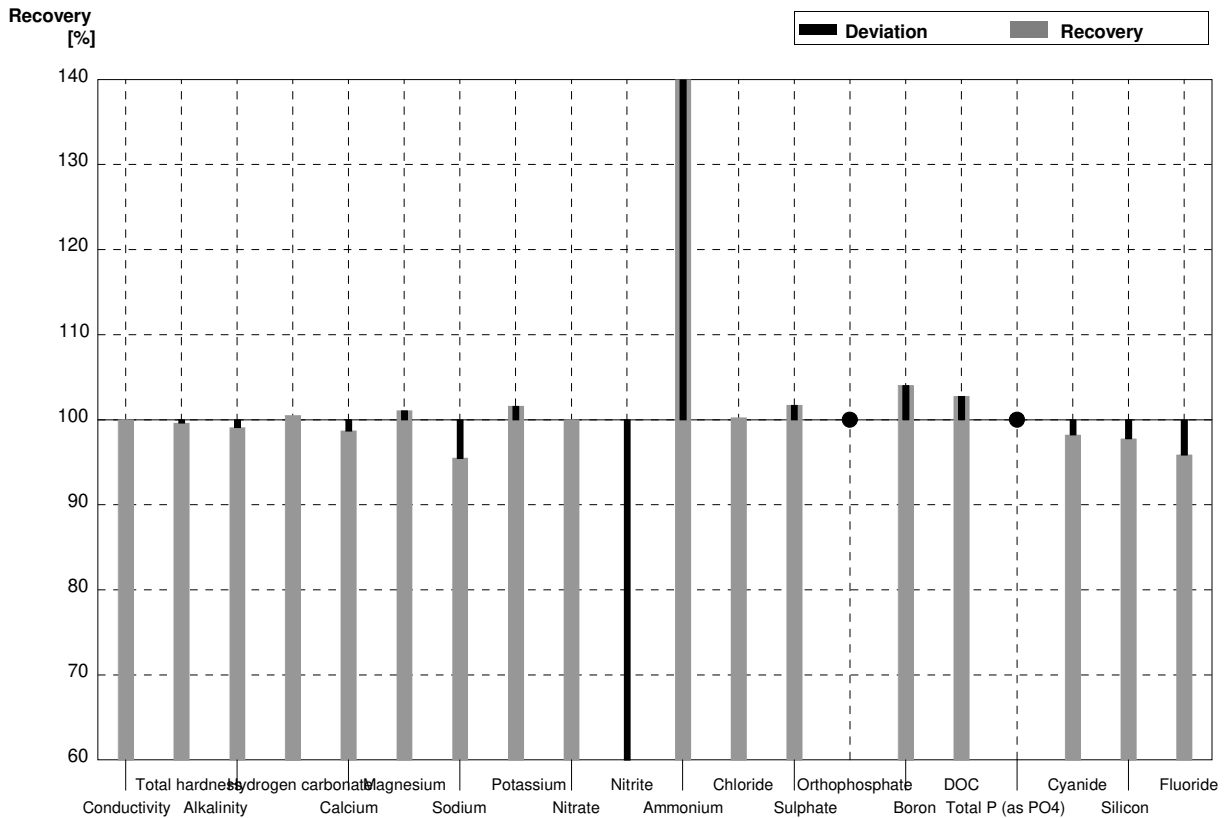
Sample N168B
Laboratory AP

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	408	40,8	µS/cm	100%
Total hardness	1,285	0,015	1,341		mmol/l	104%
Alkalinity	2,04	0,03	1,99		mmol/l	98%
Hydrogen carbonate	121,4	1,5	126,3		mg/l	104%
Calcium	35,8	0,5	37,51	5,63	mg/l	105%
Magnesium	9,54	0,18	9,81	1,47	mg/l	103%
Sodium	29,2	0,3	29,62	4,44	mg/l	101%
Potassium	5,76	0,03	5,72	0,86	mg/l	99%
Nitrate	11,0	0,3	11,07	1,66	mg/l	101%
Nitrite	0,0254	0,0003	0,0263	0,0053	mg/l	104%
Ammonium	<0,01		<0,04		mg/l	•
Chloride	35,1	0,5	35,60	5,34	mg/l	101%
Sulphate	34,9	0,7	38,02	5,70	mg/l	109%
Orthophosphate	0,0829	0,0009	<0,15		mg/l	•
Boron	0,1010	0,0007	0,089		mg/l	88%
DOC	8,14	0,06	8,16		mg/l	100%
Total P (as PO4)	0,1216	0,0010	<0,15		mg/l	•
Cyanide	0,0704	0,0017			mg/l	
Silicon	5,99	0,03			mg/l	
Fluoride	0,270	0,007	0,269	0,054	mg/l	100%



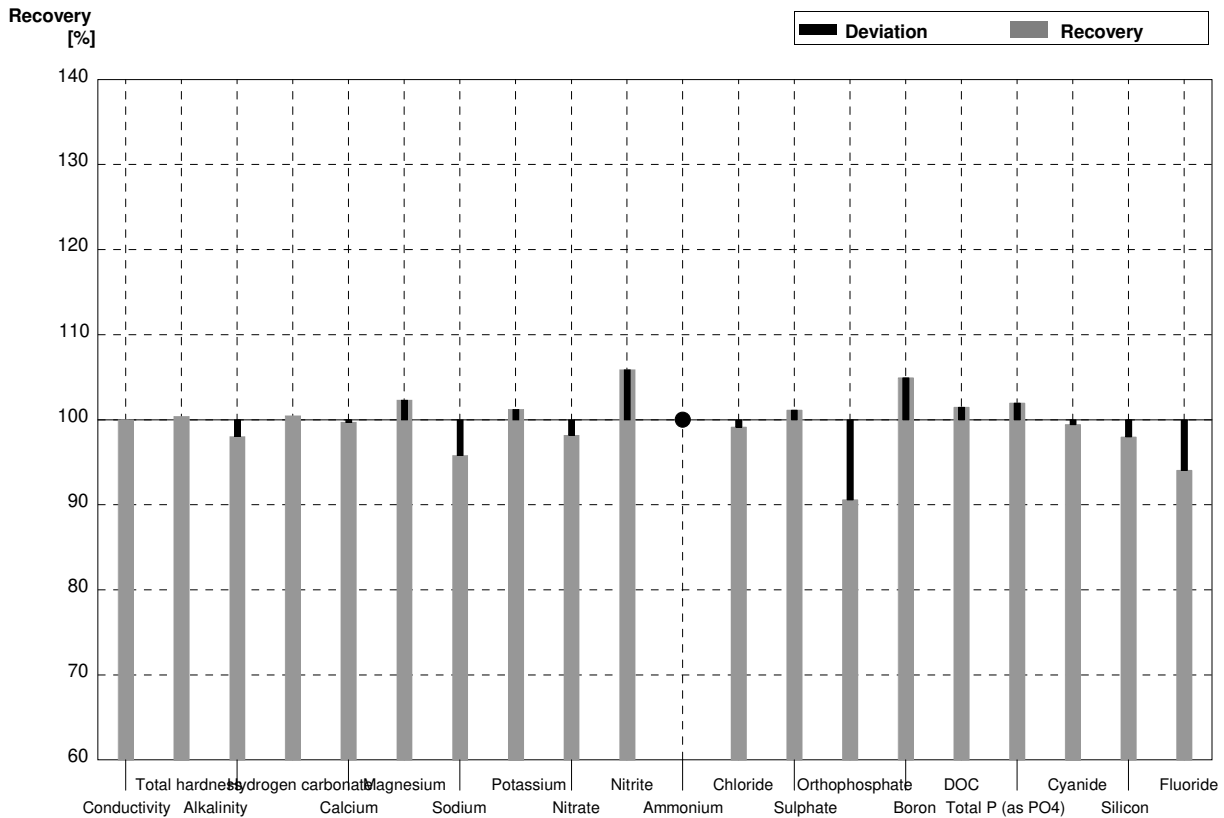
Sample N168A
Laboratory AQ

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	614	59,3	µS/cm	100%
Total hardness	2,60	0,03	2,59	0,11	mmol/l	100%
Alkalinity	3,33	0,04	3,30	0,373	mmol/l	99%
Hydrogen carbonate	200	3	201	22,75	mg/l	101%
Calcium	73,9	1,2	72,93	3,28	mg/l	99%
Magnesium	18,4	0,3	18,60	0,74	mg/l	101%
Sodium	18,14	0,13	17,32	2,10	mg/l	95%
Potassium	8,07	0,05	8,20	0,32	mg/l	102%
Nitrate	43,8	1,1	43,8	2,15978	mg/l	100%
Nitrite	0,0448	0,0004	0,00451	0,00530	mg/l	10%
Ammonium	0,0303	0,0047	0,0773	0,00619	mg/l	255%
Chloride	41,0	1,5	41,1	2,45016	mg/l	100%
Sulphate	46,6	0,9	47,4	3,33348	mg/l	102%
Orthophosphate	<0,009		<0,0307	0,00635	mg/l	•
Boron	0,1403	0,0013	0,146	0,010	mg/l	104%
DOC	5,06	0,05	5,20	0,78728	mg/l	103%
Total P (as PO4)	<0,009		<0,0153		mg/l	•
Cyanide	0,0397	0,0016	0,0390	0,00304	mg/l	98%
Silicon	4,49	0,03	4,39	0,13	mg/l	98%
Fluoride	0,701	0,018	0,672	0,06626	mg/l	96%



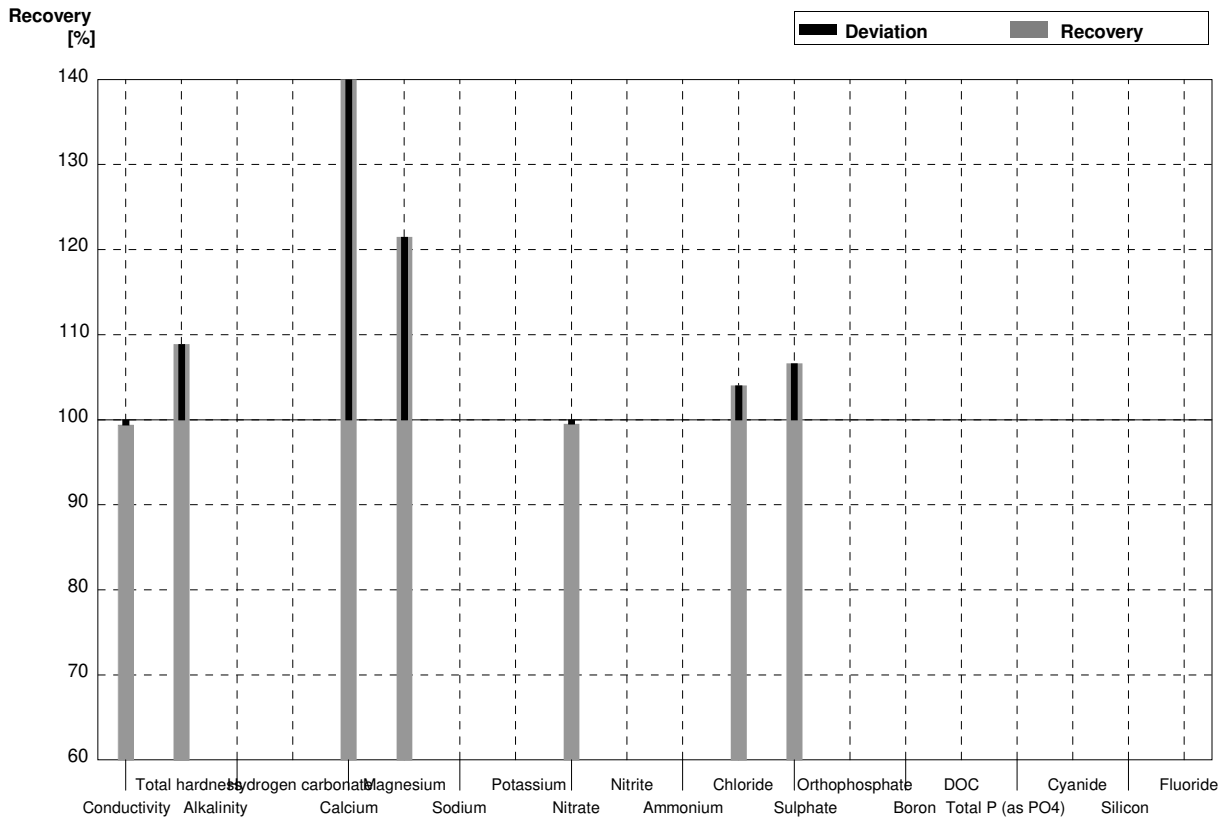
Sample N168B
Laboratory AQ

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	409	39,5	µS/cm	100%
Total hardness	1,285	0,015	1,29	0,05	mmol/l	100%
Alkalinity	2,04	0,03	2,00	0,0226	mmol/l	98%
Hydrogen carbonate	121,4	1,5	122	13,79	mg/l	100%
Calcium	35,8	0,5	35,70	1,61	mg/l	100%
Magnesium	9,54	0,18	9,76	0,39	mg/l	102%
Sodium	29,2	0,3	27,98	3,39	mg/l	96%
Potassium	5,76	0,03	5,83	0,23	mg/l	101%
Nitrate	11,0	0,3	10,8	0,53170	mg/l	98%
Nitrite	0,0254	0,0003	0,0269	0,00316	mg/l	106%
Ammonium	<0,01		<0,0644	0,00514	mg/l	•
Chloride	35,1	0,5	34,8	2,07396	mg/l	99%
Sulphate	34,9	0,7	35,3	2,48025	mg/l	101%
Orthophosphate	0,0829	0,0009	0,0751	0,01537	mg/l	91%
Boron	0,1010	0,0007	0,106	0,007	mg/l	105%
DOC	8,14	0,06	8,26	1,25056	mg/l	101%
Total P (as PO4)	0,1216	0,0010	0,124		mg/l	102%
Cyanide	0,0704	0,0017	0,0700	0,00546	mg/l	99%
Silicon	5,99	0,03	5,87	0,18	mg/l	98%
Fluoride	0,270	0,007	0,254	0,02504	mg/l	94%



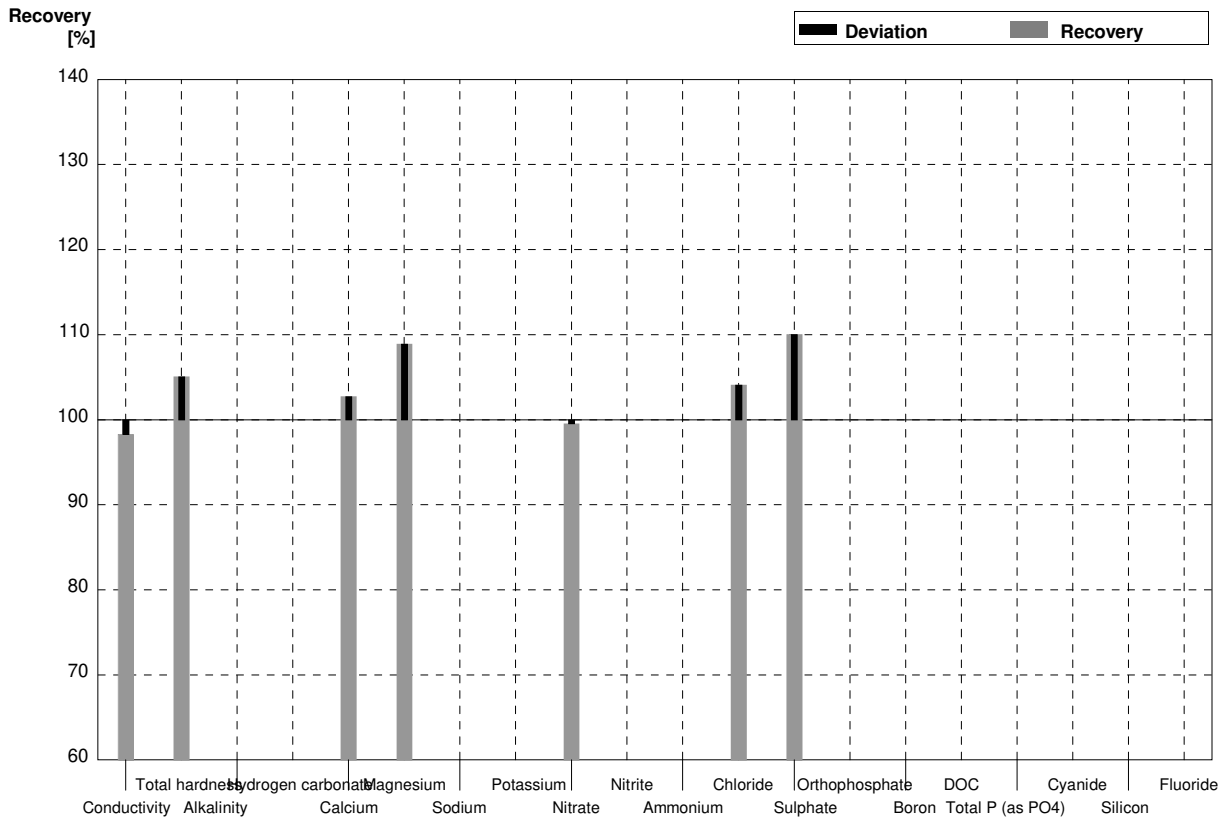
Sample N168A
Laboratory AR

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	610,25	2	µS/cm	99%
Total hardness	2,60	0,03	2,83	0,53	mmol/l	109%
Alkalinity	3,33	0,04			mmol/l	
Hydrogen carbonate	200	3			mg/l	
Calcium	73,9	1,2	151,95	5	mg/l	206%
Magnesium	18,4	0,3	22,35	2,5	mg/l	121%
Sodium	18,14	0,13			mg/l	
Potassium	8,07	0,05			mg/l	
Nitrate	43,8	1,1	43,58	0,8	mg/l	99%
Nitrite	0,0448	0,0004			mg/l	
Ammonium	0,0303	0,0047			mg/l	
Chloride	41,0	1,5	42,65	1	mg/l	104%
Sulphate	46,6	0,9	49,68	5	mg/l	107%
Orthophosphate	<0,009				mg/l	
Boron	0,1403	0,0013			mg/l	
DOC	5,06	0,05			mg/l	
Total P (as PO4)	<0,009				mg/l	
Cyanide	0,0397	0,0016			mg/l	
Silicon	4,49	0,03			mg/l	
Fluoride	0,701	0,018			mg/l	



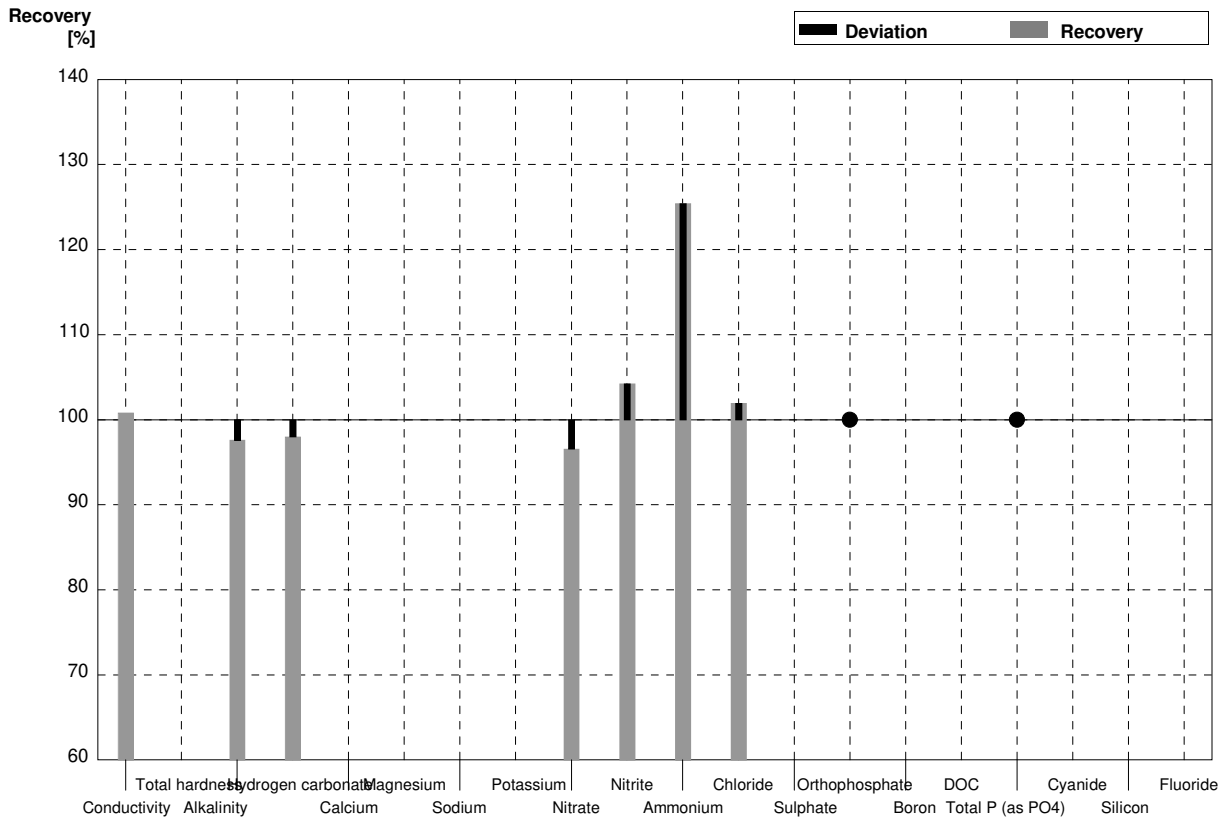
Sample N168B
Laboratory AR

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	402,00	2	µS/cm	98%
Total hardness	1,285	0,015	1,35	0,53	mmol/l	105%
Alkalinity	2,04	0,03			mmol/l	
Hydrogen carbonate	121,4	1,5			mg/l	
Calcium	35,8	0,5	36,78	5	mg/l	103%
Magnesium	9,54	0,18	10,39	2,5	mg/l	109%
Sodium	29,2	0,3			mg/l	
Potassium	5,76	0,03			mg/l	
Nitrate	11,0	0,3	10,95	0,8	mg/l	100%
Nitrite	0,0254	0,0003			mg/l	
Ammonium	<0,01				mg/l	
Chloride	35,1	0,5	36,53	1	mg/l	104%
Sulphate	34,9	0,7	38,40	5	mg/l	110%
Orthophosphate	0,0829	0,0009			mg/l	
Boron	0,1010	0,0007			mg/l	
DOC	8,14	0,06			mg/l	
Total P (as PO4)	0,1216	0,0010			mg/l	
Cyanide	0,0704	0,0017			mg/l	
Silicon	5,99	0,03			mg/l	
Fluoride	0,270	0,007			mg/l	



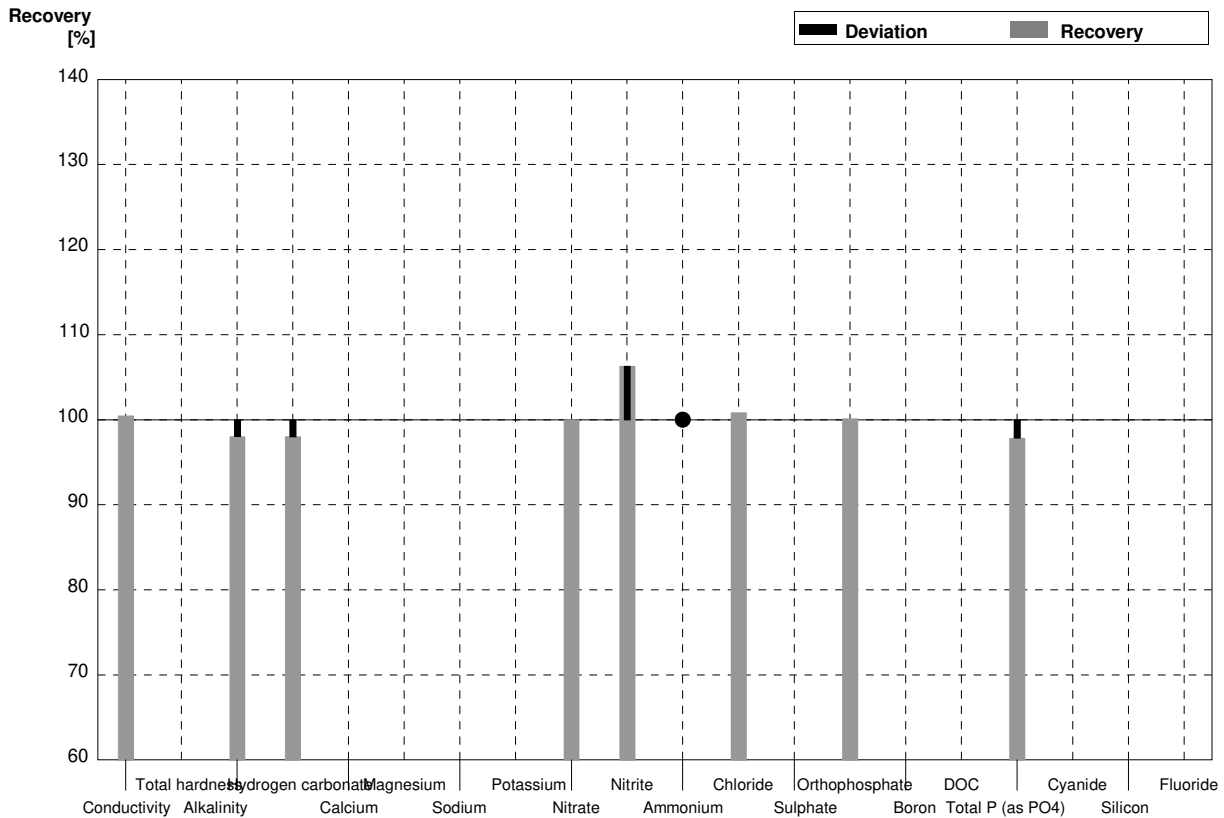
Sample N168A
Laboratory AS

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	619	4,4	µS/cm	101%
Total hardness	2,60	0,03			mmol/l	
Alkalinity	3,33	0,04	3,25	0,092	mmol/l	98%
Hydrogen carbonate	200	3	196	2,83	mg/l	98%
Calcium	73,9	1,2			mg/l	
Magnesium	18,4	0,3			mg/l	
Sodium	18,14	0,13			mg/l	
Potassium	8,07	0,05			mg/l	
Nitrate	43,8	1,1	42,3	2,90	mg/l	97%
Nitrite	0,0448	0,0004	0,0467	0,0047	mg/l	104%
Ammonium	0,0303	0,0047	0,0380	0,0057	mg/l	125%
Chloride	41,0	1,5	41,8	0,42	mg/l	102%
Sulphate	46,6	0,9			mg/l	
Orthophosphate	<0,009		<0,006	0	mg/l	•
Boron	0,1403	0,0013			mg/l	
DOC	5,06	0,05			mg/l	
Total P (as PO4)	<0,009		<0,006	0	mg/l	•
Cyanide	0,0397	0,0016			mg/l	
Silicon	4,49	0,03			mg/l	
Fluoride	0,701	0,018			mg/l	



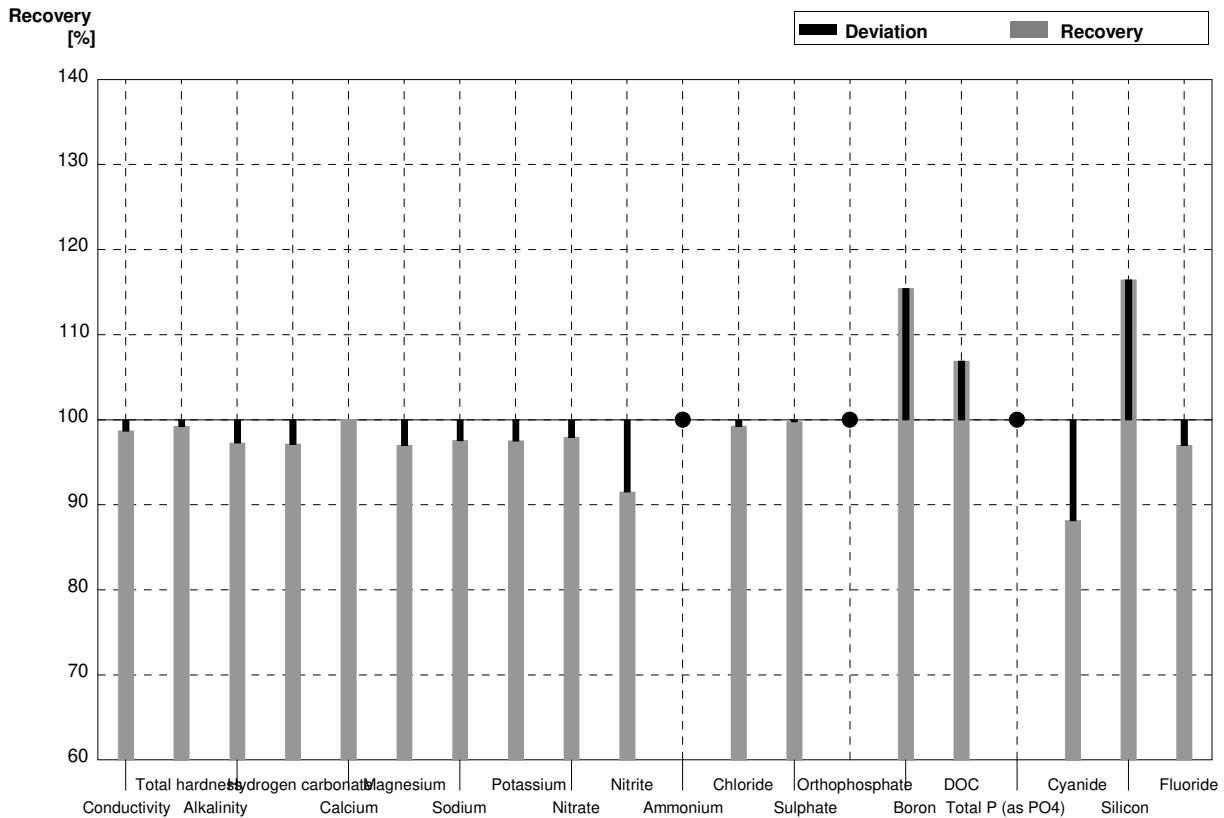
Sample N168B
Laboratory AS

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	411	2,9	µS/cm	100%
Total hardness	1,285	0,015			mmol/l	
Alkalinity	2,04	0,03	2,00	0,056	mmol/l	98%
Hydrogen carbonate	121,4	1,5	119	1,71	mg/l	98%
Calcium	35,8	0,5			mg/l	
Magnesium	9,54	0,18			mg/l	
Sodium	29,2	0,3			mg/l	
Potassium	5,76	0,03			mg/l	
Nitrate	11,0	0,3	11,0	0,75	mg/l	100%
Nitrite	0,0254	0,0003	0,0270	0,0027	mg/l	106%
Ammonium	<0,01		<0,005	0	mg/l	•
Chloride	35,1	0,5	35,4	0,36	mg/l	101%
Sulphate	34,9	0,7			mg/l	
Orthophosphate	0,0829	0,0009	0,083	0,010	mg/l	100%
Boron	0,1010	0,0007			mg/l	
DOC	8,14	0,06			mg/l	
Total P (as PO4)	0,1216	0,0010	0,119	0,016	mg/l	98%
Cyanide	0,0704	0,0017			mg/l	
Silicon	5,99	0,03			mg/l	
Fluoride	0,270	0,007			mg/l	



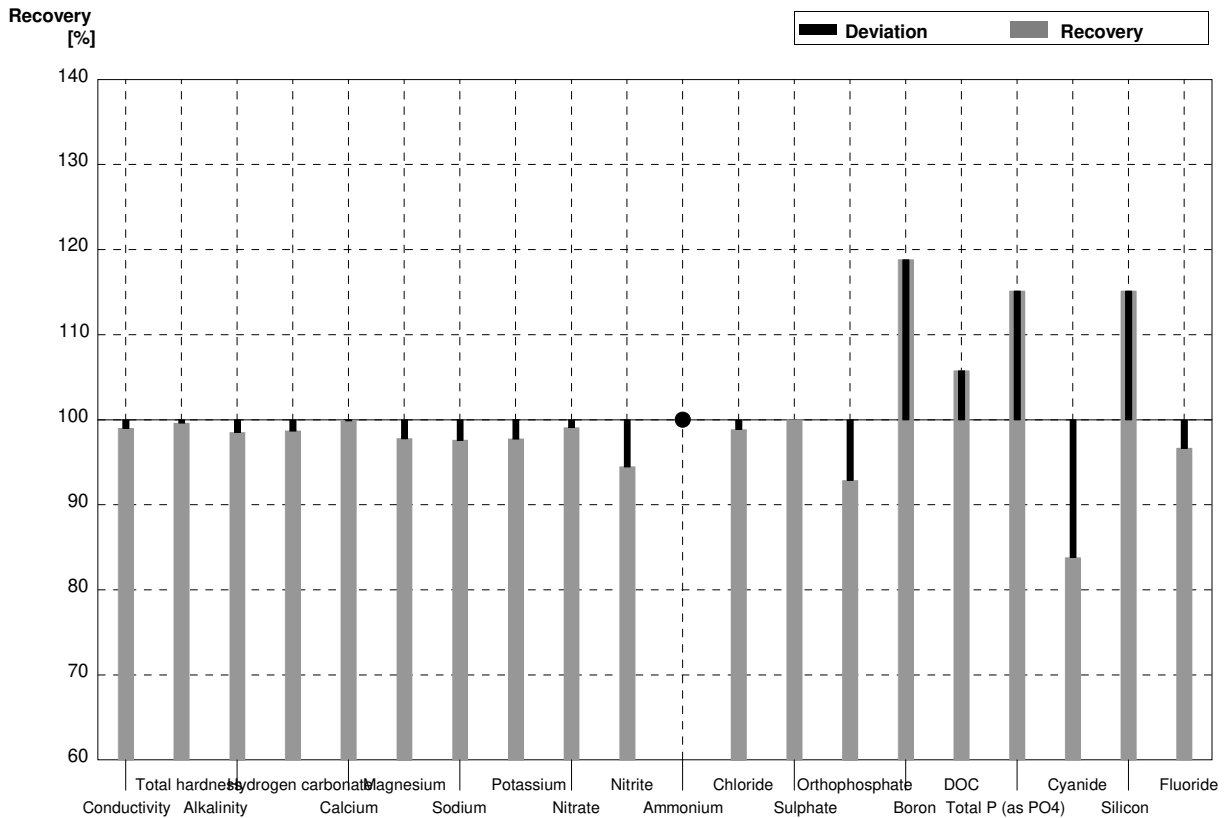
Sample N168A
Laboratory AT

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	606	12	µS/cm	99%
Total hardness	2,60	0,03	2,58	0,129	mmol/l	99%
Alkalinity	3,33	0,04	3,24	0,29	mmol/l	97%
Hydrogen carbonate	200	3	194,3	17,5	mg/l	97%
Calcium	73,9	1,2	73,95	3,70	mg/l	100%
Magnesium	18,4	0,3	17,85	0,89	mg/l	97%
Sodium	18,14	0,13	17,7	0,9	mg/l	98%
Potassium	8,07	0,05	7,87	0,4	mg/l	98%
Nitrate	43,8	1,1	42,9	1,3	mg/l	98%
Nitrite	0,0448	0,0004	0,0410	0,004	mg/l	92%
Ammonium	0,0303	0,0047	<0,040		mg/l	•
Chloride	41,0	1,5	40,7	1,2	mg/l	99%
Sulphate	46,6	0,9	46,5	1,4	mg/l	100%
Orthophosphate	<0,009		<0,040		mg/l	•
Boron	0,1403	0,0013	0,162	0,0162	mg/l	115%
DOC	5,06	0,05	5,41	1,08	mg/l	107%
Total P (as PO4)	<0,009		<0,06		mg/l	•
Cyanide	0,0397	0,0016	0,0350		mg/l	88%
Silicon	4,49	0,03	5,229	0,5229	mg/l	116%
Fluoride	0,701	0,018	0,68	0,05	mg/l	97%



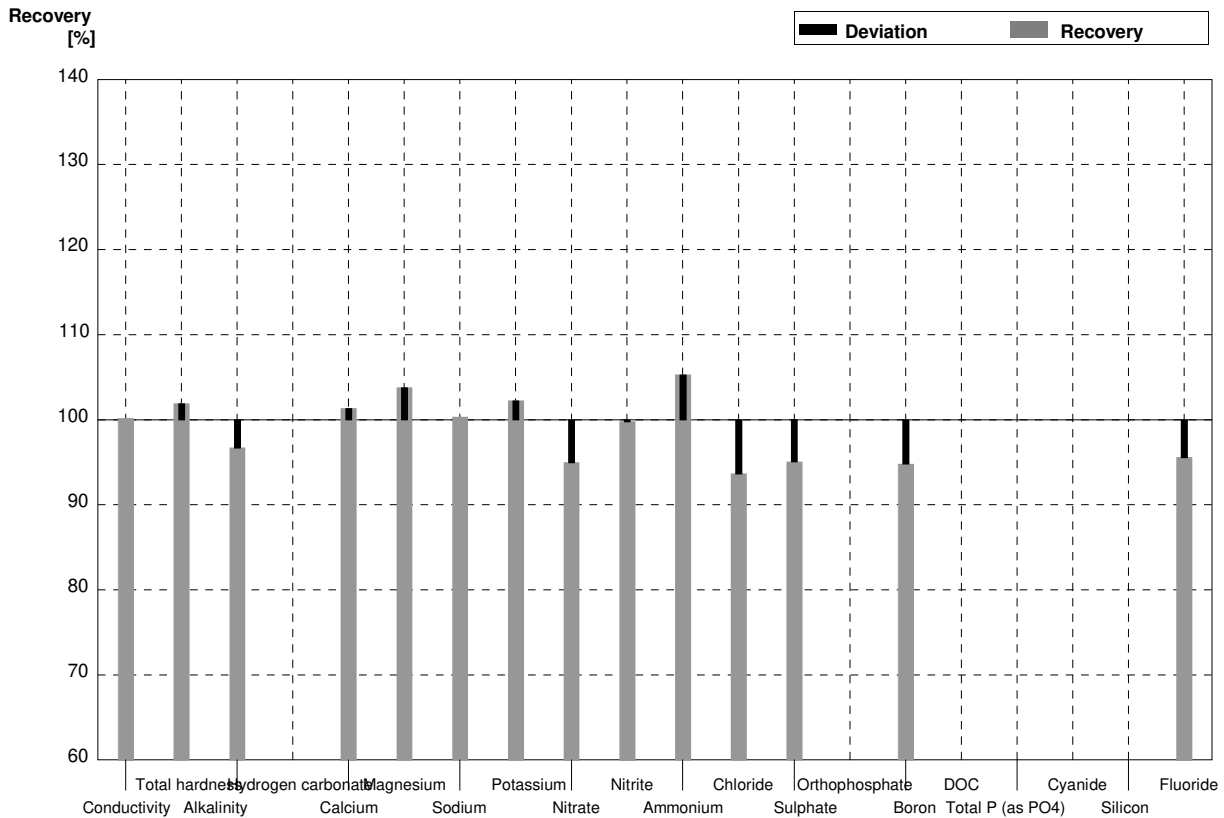
Sample N168B
Laboratory AT

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	405	8	µS/cm	99%
Total hardness	1,285	0,015	1,28	0,064	mmol/l	100%
Alkalinity	2,04	0,03	2,01	0,18	mmol/l	99%
Hydrogen carbonate	121,4	1,5	119,8	10,8	mg/l	99%
Calcium	35,8	0,5	35,76	1,79	mg/l	100%
Magnesium	9,54	0,18	9,33	0,47	mg/l	98%
Sodium	29,2	0,3	28,5	1,4	mg/l	98%
Potassium	5,76	0,03	5,63	0,3	mg/l	98%
Nitrate	11,0	0,3	10,9	0,3	mg/l	99%
Nitrite	0,0254	0,0003	0,0240	0,002	mg/l	94%
Ammonium	<0,01		<0,040		mg/l	•
Chloride	35,1	0,5	34,7	0,7	mg/l	99%
Sulphate	34,9	0,7	34,9	1,1	mg/l	100%
Orthophosphate	0,0829	0,0009	0,077	0,008	mg/l	93%
Boron	0,1010	0,0007	0,120	0,0120	mg/l	119%
DOC	8,14	0,06	8,61	1,72	mg/l	106%
Total P (as PO4)	0,1216	0,0010	0,140	0,021	mg/l	115%
Cyanide	0,0704	0,0017	0,059		mg/l	84%
Silicon	5,99	0,03	6,897	0,6897	mg/l	115%
Fluoride	0,270	0,007	0,261	0,021	mg/l	97%



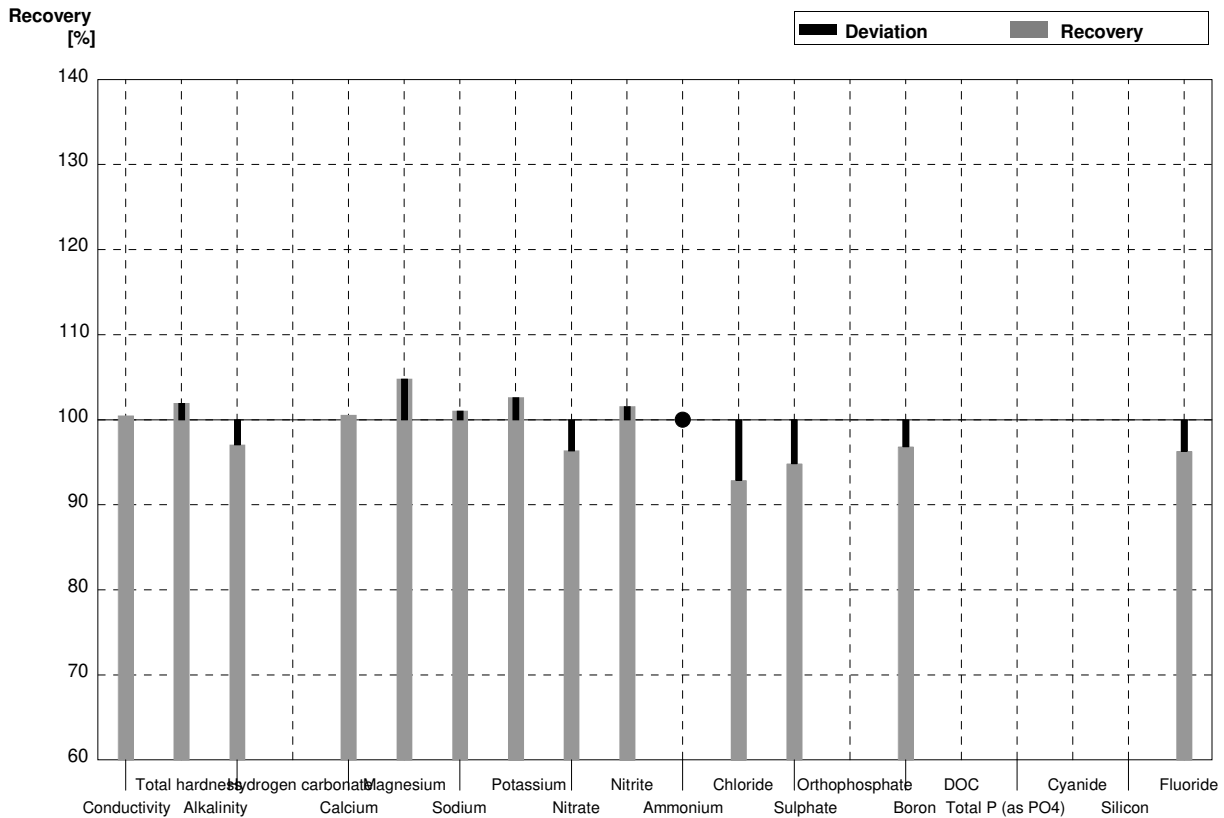
Sample N168A
Laboratory AU

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	615	10	µS/cm	100%
Total hardness	2,60	0,03	2,65	0,5	mmol/l	102%
Alkalinity	3,33	0,04	3,22	0,5	mmol/l	97%
Hydrogen carbonate	200	3			mg/l	
Calcium	73,9	1,2	74,9	15	mg/l	101%
Magnesium	18,4	0,3	19,1	3,8	mg/l	104%
Sodium	18,14	0,13	18,2	2,7	mg/l	100%
Potassium	8,07	0,05	8,25	1,7	mg/l	102%
Nitrate	43,8	1,1	41,6	4,2	mg/l	95%
Nitrite	0,0448	0,0004	0,0447	0,015	mg/l	100%
Ammonium	0,0303	0,0047	0,0319	0,015	mg/l	105%
Chloride	41,0	1,5	38,4	3,9	mg/l	94%
Sulphate	46,6	0,9	44,3	4,5	mg/l	95%
Orthophosphate	<0,009				mg/l	
Boron	0,1403	0,0013	0,133	0,033	mg/l	95%
DOC	5,06	0,05			mg/l	
Total P (as PO4)	<0,009				mg/l	
Cyanide	0,0397	0,0016			mg/l	
Silicon	4,49	0,03			mg/l	
Fluoride	0,701	0,018	0,67	0,25	mg/l	96%



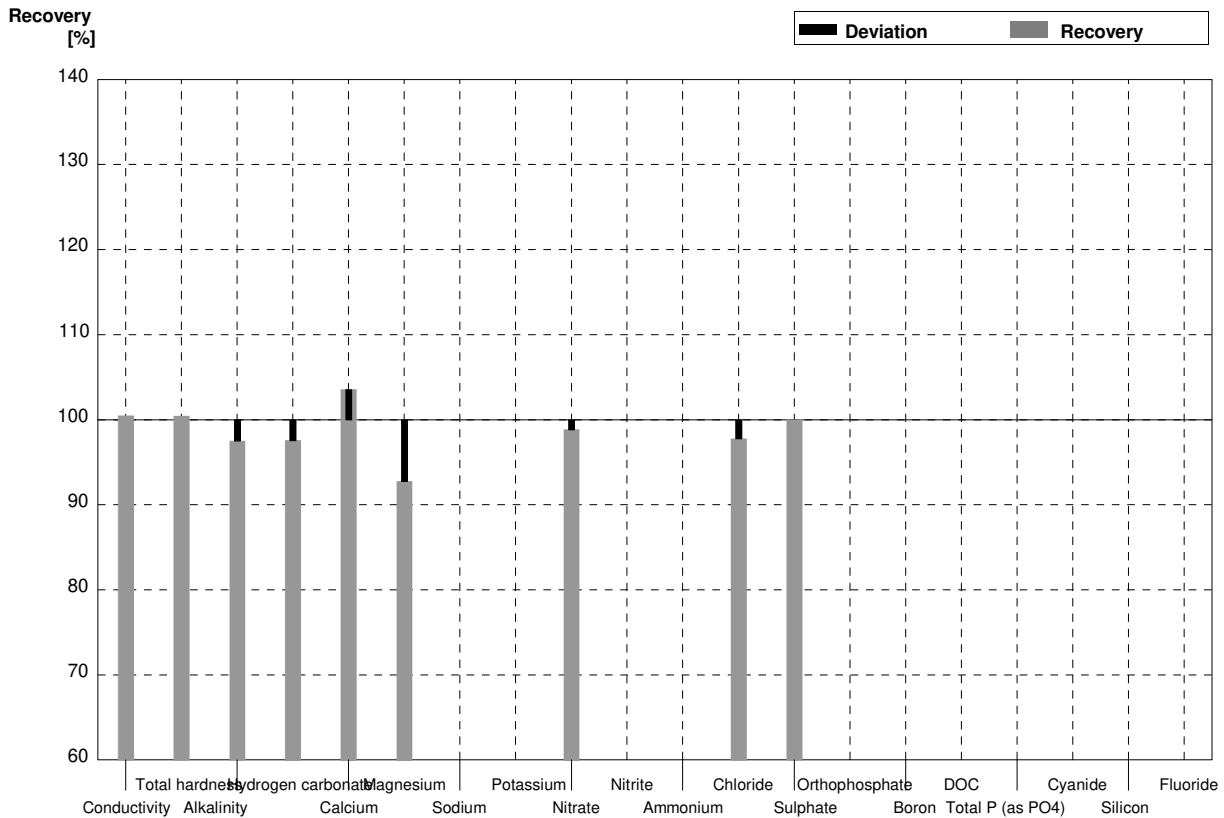
Sample N168B
Laboratory AU

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	411	10	µS/cm	100%
Total hardness	1,285	0,015	1,31	0,27	mmol/l	102%
Alkalinity	2,04	0,03	1,98	0,5	mmol/l	97%
Hydrogen carbonate	121,4	1,5			mg/l	
Calcium	35,8	0,5	36,0	7,2	mg/l	101%
Magnesium	9,54	0,18	10,0	2,0	mg/l	105%
Sodium	29,2	0,3	29,5	4,4	mg/l	101%
Potassium	5,76	0,03	5,91	1,2	mg/l	103%
Nitrate	11,0	0,3	10,6	1,5	mg/l	96%
Nitrite	0,0254	0,0003	0,0258	0,015	mg/l	102%
Ammonium	<0,01		<0,010		mg/l	•
Chloride	35,1	0,5	32,6	3,3	mg/l	93%
Sulphate	34,9	0,7	33,1	3,4	mg/l	95%
Orthophosphate	0,0829	0,0009			mg/l	
Boron	0,1010	0,0007	0,0978	0,024	mg/l	97%
DOC	8,14	0,06			mg/l	
Total P (as PO4)	0,1216	0,0010			mg/l	
Cyanide	0,0704	0,0017			mg/l	
Silicon	5,99	0,03			mg/l	
Fluoride	0,270	0,007	0,260	0,1	mg/l	96%



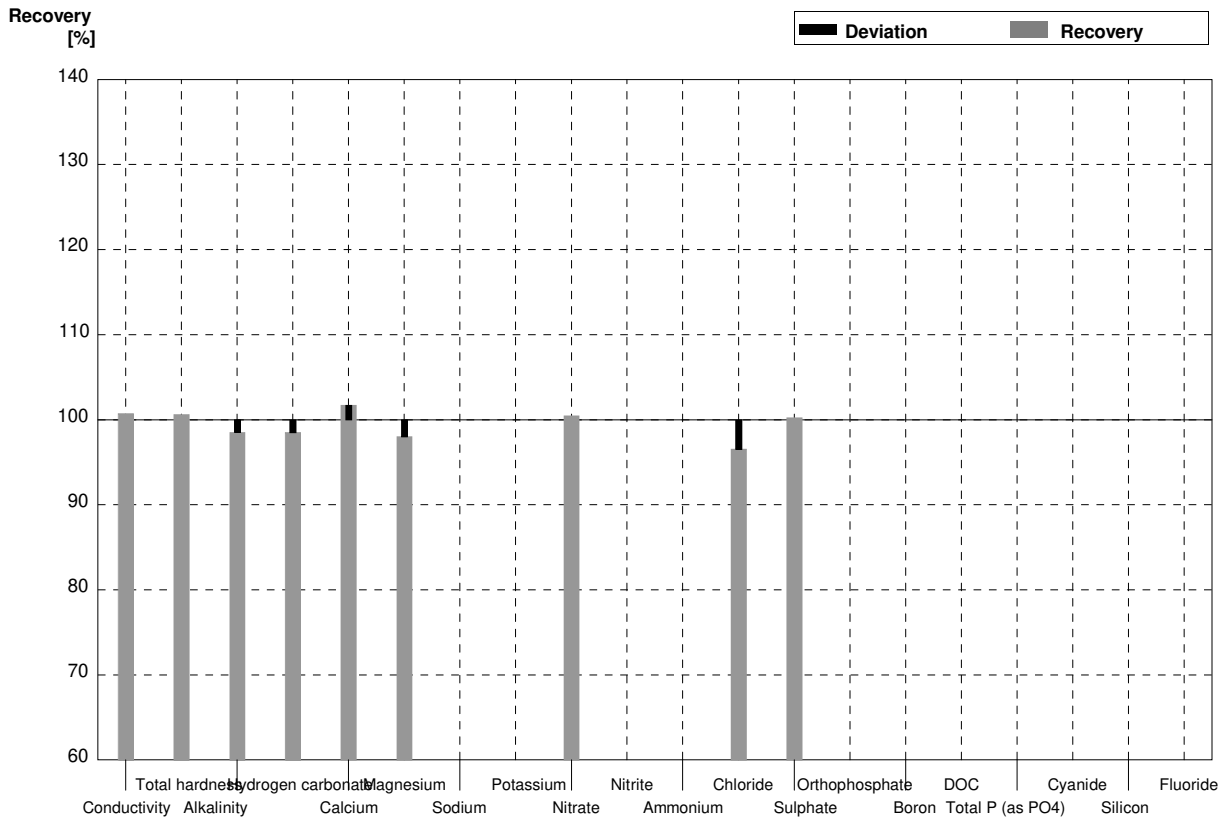
Sample N168A
Laboratory AV

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	617	7,65	µS/cm	100%
Total hardness	2,60	0,03	2,611	0,134	mmol/l	100%
Alkalinity	3,33	0,04	3,247	0,032	mmol/l	98%
Hydrogen carbonate	200	3	195,1	1,95	mg/l	98%
Calcium	73,9	1,2	76,53	3,94	mg/l	104%
Magnesium	18,4	0,3	17,07	1,94	mg/l	93%
Sodium	18,14	0,13			mg/l	
Potassium	8,07	0,05			mg/l	
Nitrate	43,8	1,1	43,29	2,02	mg/l	99%
Nitrite	0,0448	0,0004			mg/l	
Ammonium	0,0303	0,0047			mg/l	
Chloride	41,0	1,5	40,09	4,37	mg/l	98%
Sulphate	46,6	0,9	46,60	1,82	mg/l	100%
Orthophosphate	<0,009				mg/l	
Boron	0,1403	0,0013			mg/l	
DOC	5,06	0,05			mg/l	
Total P (as PO4)	<0,009				mg/l	
Cyanide	0,0397	0,0016			mg/l	
Silicon	4,49	0,03			mg/l	
Fluoride	0,701	0,018			mg/l	



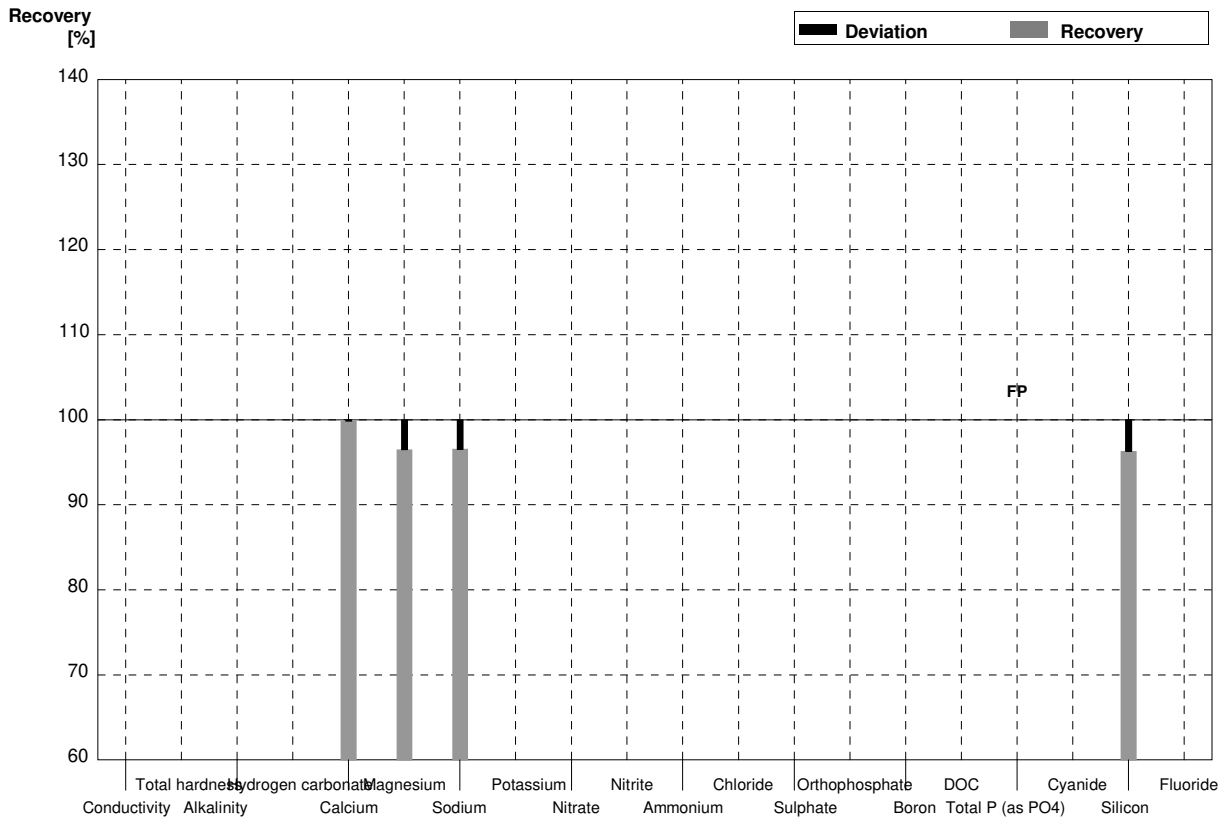
Sample N168B
Laboratory AV

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	412	5,11	µS/cm	101%
Total hardness	1,285	0,015	1,293	0,066	mmol/l	101%
Alkalinity	2,04	0,03	2,010	0,020	mmol/l	99%
Hydrogen carbonate	121,4	1,5	119,6	1,20	mg/l	99%
Calcium	35,8	0,5	36,42	1,88	mg/l	102%
Magnesium	9,54	0,18	9,35	1,06	mg/l	98%
Sodium	29,2	0,3			mg/l	
Potassium	5,76	0,03			mg/l	
Nitrate	11,0	0,3	11,05	0,515	mg/l	100%
Nitrite	0,0254	0,0003			mg/l	
Ammonium	<0,01				mg/l	
Chloride	35,1	0,5	33,89	3,69	mg/l	97%
Sulphate	34,9	0,7	34,99	1,37	mg/l	100%
Orthophosphate	0,0829	0,0009			mg/l	
Boron	0,1010	0,0007			mg/l	
DOC	8,14	0,06			mg/l	
Total P (as PO4)	0,1216	0,0010			mg/l	
Cyanide	0,0704	0,0017			mg/l	
Silicon	5,99	0,03			mg/l	
Fluoride	0,270	0,007			mg/l	



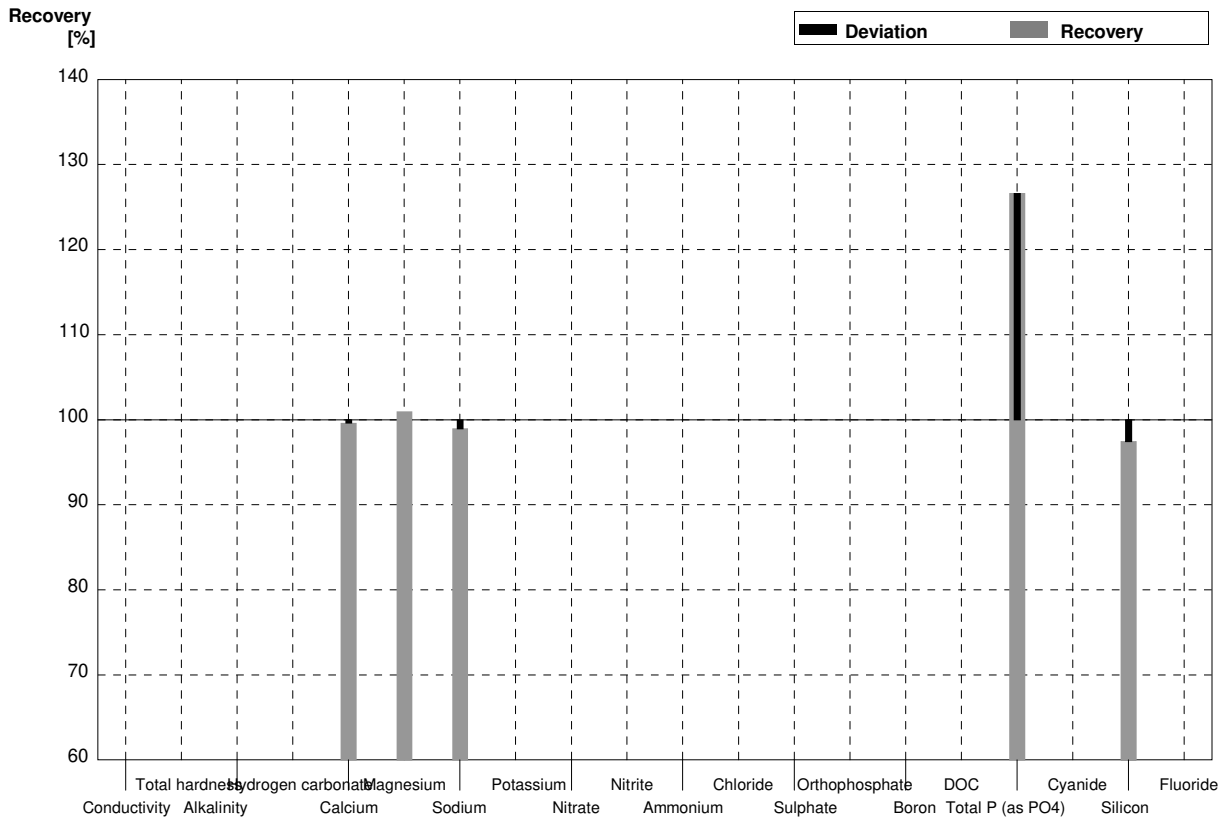
Sample N168A
Laboratory AW

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2			µS/cm	
Total hardness	2,60	0,03			mmol/l	
Alkalinity	3,33	0,04			mmol/l	
Hydrogen carbonate	200	3			mg/l	
Calcium	73,9	1,2	73,796	18,449	mg/l	100%
Magnesium	18,4	0,3	17,753	4,438	mg/l	96%
Sodium	18,14	0,13	17,515	4,380	mg/l	97%
Potassium	8,07	0,05			mg/l	
Nitrate	43,8	1,1			mg/l	
Nitrite	0,0448	0,0004			mg/l	
Ammonium	0,0303	0,0047			mg/l	
Chloride	41,0	1,5			mg/l	
Sulphate	46,6	0,9			mg/l	
Orthophosphate	<0,009				mg/l	
Boron	0,1403	0,0013			mg/l	
DOC	5,06	0,05			mg/l	
Total P (as PO4)	<0,009		0,0317	0,00951	mg/l	FP
Cyanide	0,0397	0,0016			mg/l	
Silicon	4,49	0,03	4,324	1,081	mg/l	96%
Fluoride	0,701	0,018			mg/l	



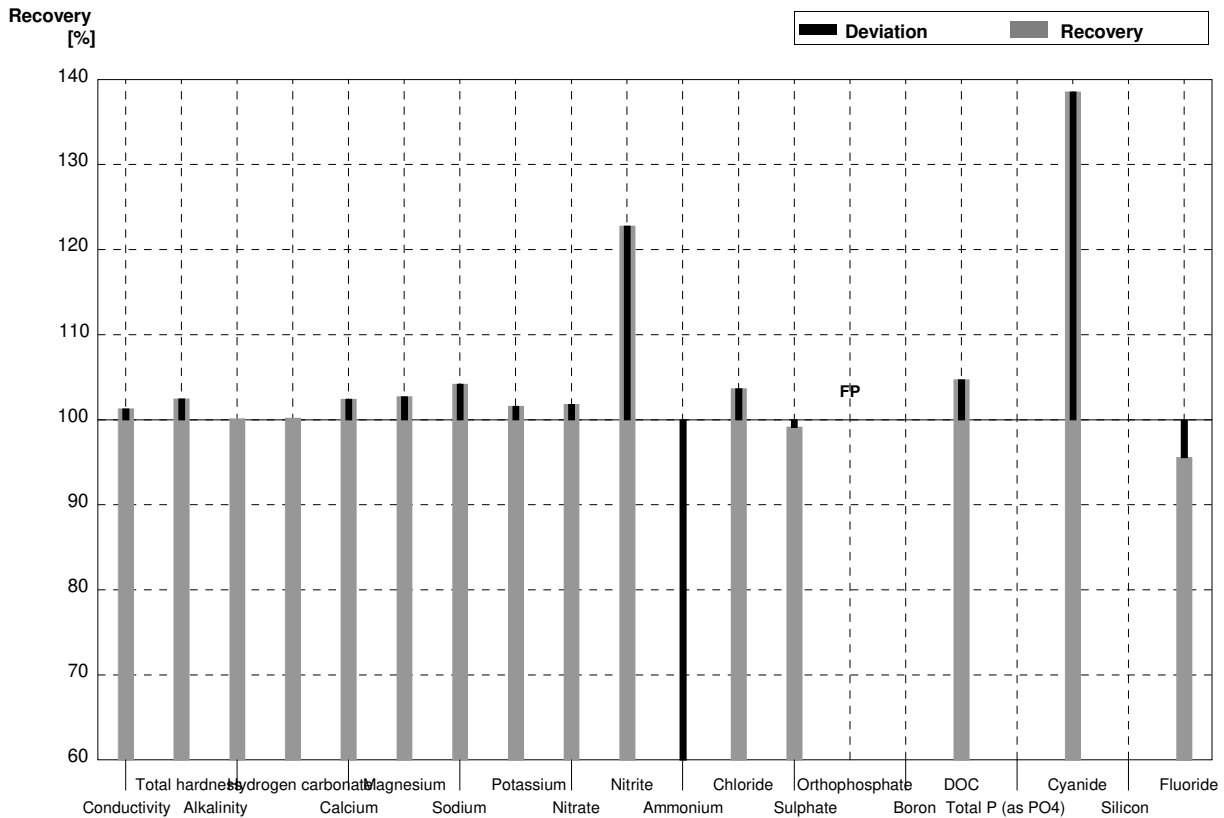
Sample N168B
Laboratory AW

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1			µS/cm	
Total hardness	1,285	0,015			mmol/l	
Alkalinity	2,04	0,03			mmol/l	
Hydrogen carbonate	121,4	1,5			mg/l	
Calcium	35,8	0,5	35,659	8,915	mg/l	100%
Magnesium	9,54	0,18	9,632	2,408	mg/l	101%
Sodium	29,2	0,3	28,899	7,225	mg/l	99%
Potassium	5,76	0,03			mg/l	
Nitrate	11,0	0,3			mg/l	
Nitrite	0,0254	0,0003			mg/l	
Ammonium	<0,01				mg/l	
Chloride	35,1	0,5			mg/l	
Sulphate	34,9	0,7			mg/l	
Orthophosphate	0,0829	0,0009			mg/l	
Boron	0,1010	0,0007			mg/l	
DOC	8,14	0,06			mg/l	
Total P (as PO4)	0,1216	0,0010	0,154	0,0462	mg/l	127%
Cyanide	0,0704	0,0017			mg/l	
Silicon	5,99	0,03	5,838	1,460	mg/l	97%
Fluoride	0,270	0,007			mg/l	



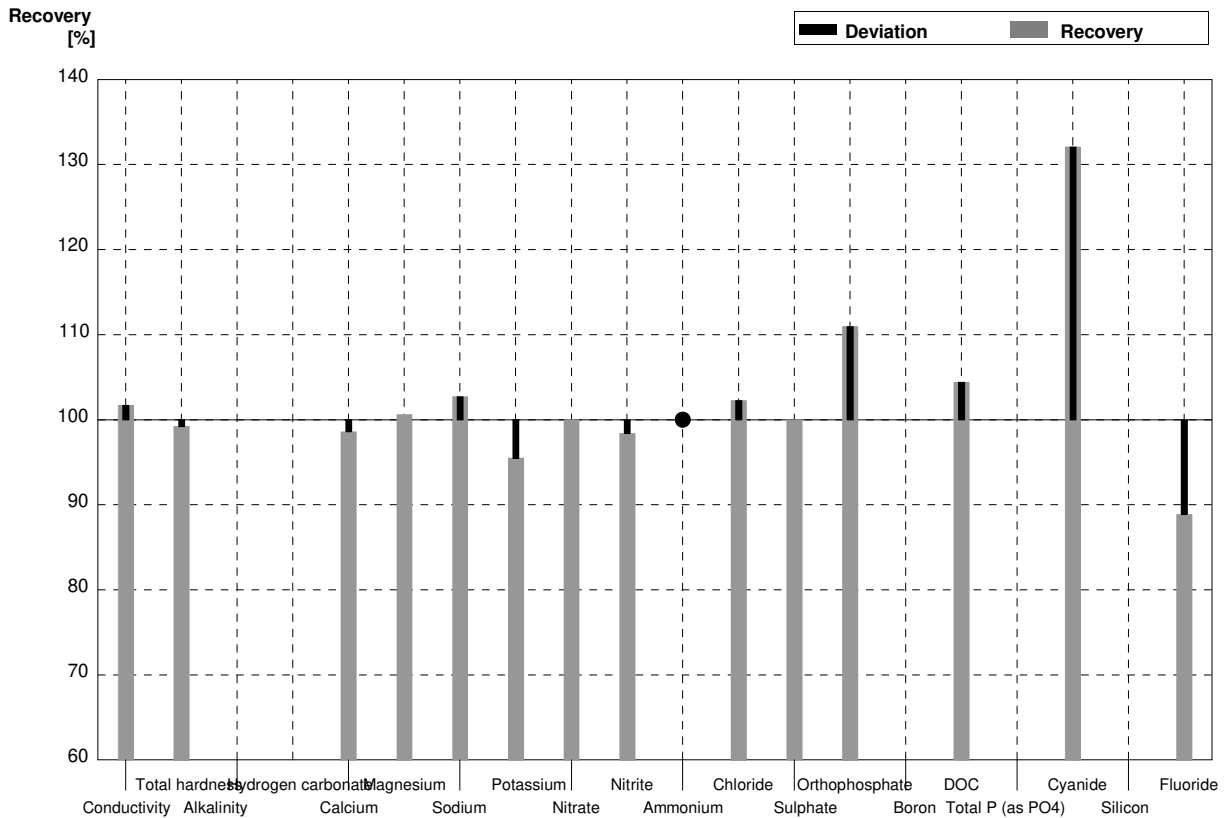
Sample N168A
Laboratory AX

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	622	32,3	µS/cm	101%
Total hardness	2,60	0,03	2,664	0,354	mmol/l	102%
Alkalinity	3,33	0,04	3,335		mmol/l	100%
Hydrogen carbonate	200	3	200,4		mg/l	100%
Calcium	73,9	1,2	75,7	10,1	mg/l	102%
Magnesium	18,4	0,3	18,9	2,5	mg/l	103%
Sodium	18,14	0,13	18,9	3,34	mg/l	104%
Potassium	8,07	0,05	8,2	1,35	mg/l	102%
Nitrate	43,8	1,1	44,6	3,76	mg/l	102%
Nitrite	0,0448	0,0004	0,055	0,006	mg/l	123%
Ammonium	0,0303	0,0047	0,0140	0,003	mg/l	46%
Chloride	41,0	1,5	42,5	3,54	mg/l	104%
Sulphate	46,6	0,9	46,2	2,98	mg/l	99%
Orthophosphate	<0,009		0,0120	0,003	mg/l	FP
Boron	0,1403	0,0013			mg/l	
DOC	5,06	0,05	5,3	0,99	mg/l	105%
Total P (as PO4)	<0,009				mg/l	
Cyanide	0,0397	0,0016	0,055	0,020	mg/l	139%
Silicon	4,49	0,03			mg/l	
Fluoride	0,701	0,018	0,67	0,144	mg/l	96%



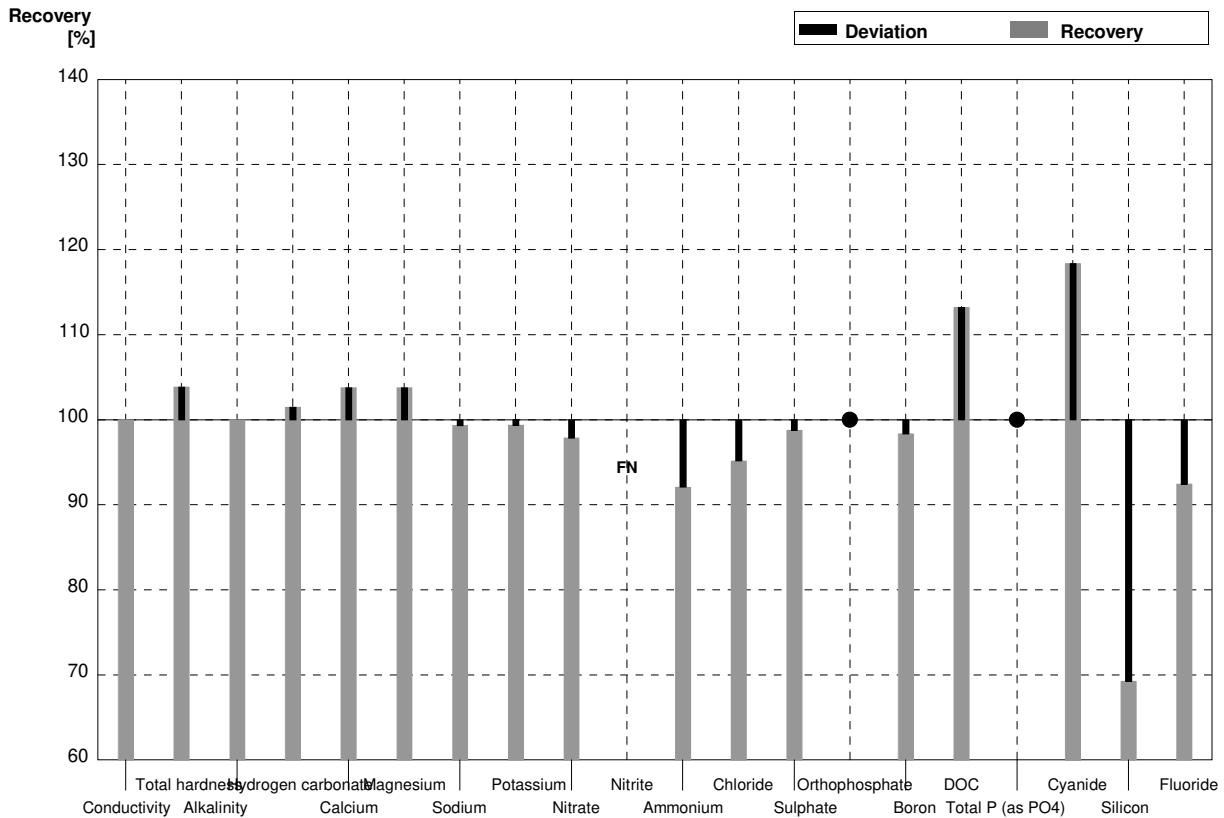
Sample N168B
Laboratory AX

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	416	23,6	µS/cm	102%
Total hardness	1,285	0,015	1,275	0,17	mmol/l	99%
Alkalinity	2,04	0,03			mmol/l	
Hydrogen carbonate	121,4	1,5			mg/l	
Calcium	35,8	0,5	35,3	4,71	mg/l	99%
Magnesium	9,54	0,18	9,6	1,27	mg/l	101%
Sodium	29,2	0,3	30,0	5,31	mg/l	103%
Potassium	5,76	0,03	5,5	0,91	mg/l	95%
Nitrate	11,0	0,3	11,0	0,93	mg/l	100%
Nitrite	0,0254	0,0003	0,0250	0,003	mg/l	98%
Ammonium	<0,01		0,0080	0,002	mg/l	•
Chloride	35,1	0,5	35,9	2,99	mg/l	102%
Sulphate	34,9	0,7	34,9	2,25	mg/l	100%
Orthophosphate	0,0829	0,0009	0,092	0,025	mg/l	111%
Boron	0,1010	0,0007			mg/l	
DOC	8,14	0,06	8,5	1,59	mg/l	104%
Total P (as PO4)	0,1216	0,0010			mg/l	
Cyanide	0,0704	0,0017	0,093	0,034	mg/l	132%
Silicon	5,99	0,03			mg/l	
Fluoride	0,270	0,007	0,240	0,05	mg/l	89%



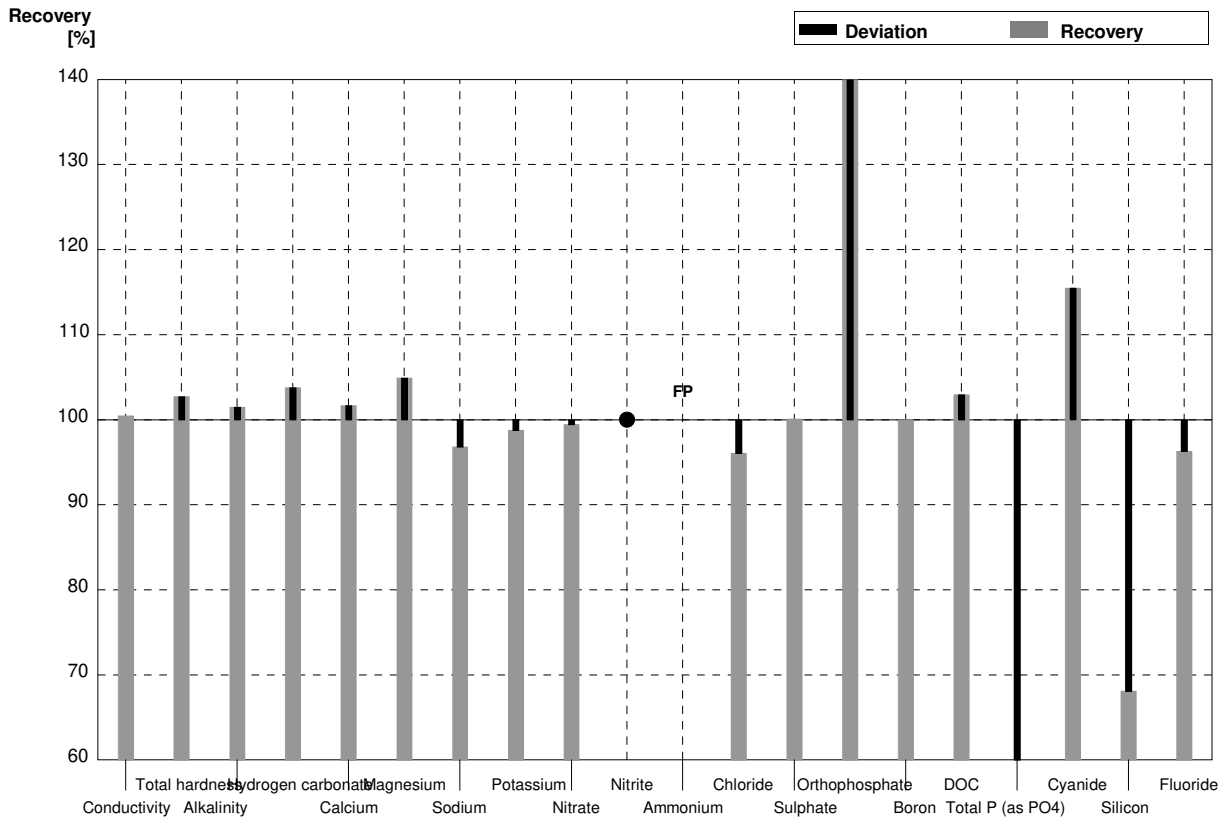
Sample N168A
Laboratory AY

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	614		µS/cm	100%
Total hardness	2,60	0,03	2,70		mmol/l	104%
Alkalinity	3,33	0,04	3,33		mmol/l	100%
Hydrogen carbonate	200	3	203		mg/l	102%
Calcium	73,9	1,2	76,7		mg/l	104%
Magnesium	18,4	0,3	19,10		mg/l	104%
Sodium	18,14	0,13	18,02		mg/l	99%
Potassium	8,07	0,05	8,02		mg/l	99%
Nitrate	43,8	1,1	42,87		mg/l	98%
Nitrite	0,0448	0,0004	<0,03		mg/l	FN
Ammonium	0,0303	0,0047	0,0279		mg/l	92%
Chloride	41,0	1,5	39,02		mg/l	95%
Sulphate	46,6	0,9	46,03		mg/l	99%
Orthophosphate	<0,009		<0,10		mg/l	•
Boron	0,1403	0,0013	0,138		mg/l	98%
DOC	5,06	0,05	5,73		mg/l	113%
Total P (as PO4)	<0,009		<0,01		mg/l	•
Cyanide	0,0397	0,0016	0,0470		mg/l	118%
Silicon	4,49	0,03	3,11		mg/l	69%
Fluoride	0,701	0,018	0,648		mg/l	92%



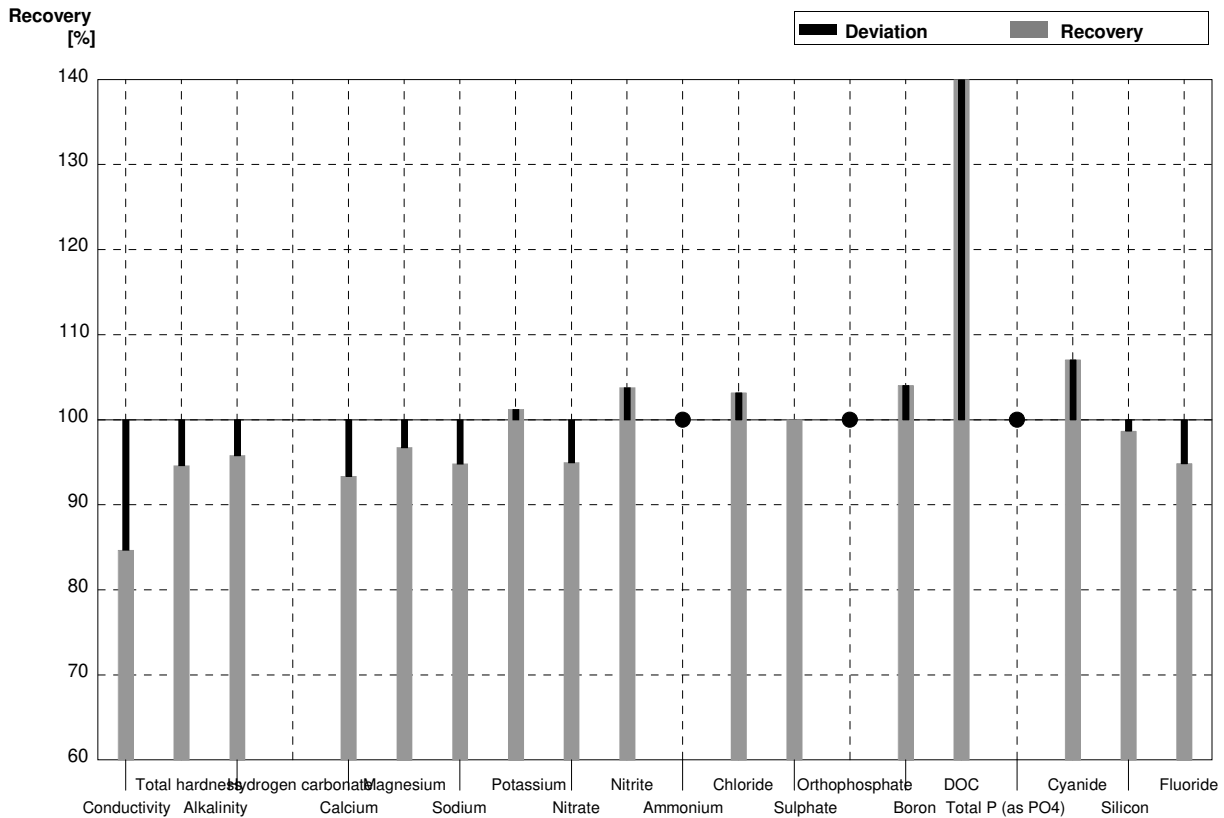
Sample N168B
Laboratory AY

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	411		µS/cm	100%
Total hardness	1,285	0,015	1,32		mmol/l	103%
Alkalinity	2,04	0,03	2,07		mmol/l	101%
Hydrogen carbonate	121,4	1,5	126		mg/l	104%
Calcium	35,8	0,5	36,4		mg/l	102%
Magnesium	9,54	0,18	10,01		mg/l	105%
Sodium	29,2	0,3	28,27		mg/l	97%
Potassium	5,76	0,03	5,69		mg/l	99%
Nitrate	11,0	0,3	10,94		mg/l	99%
Nitrite	0,0254	0,0003	<0,03		mg/l	•
Ammonium	<0,01		0,0101		mg/l	FP
Chloride	35,1	0,5	33,72		mg/l	96%
Sulphate	34,9	0,7	34,94		mg/l	100%
Orthophosphate	0,0829	0,0009	0,1206		mg/l	145%
Boron	0,1010	0,0007	0,101		mg/l	100%
DOC	8,14	0,06	8,38		mg/l	103%
Total P (as PO4)	0,1216	0,0010	0,0398		mg/l	33%
Cyanide	0,0704	0,0017	0,0813		mg/l	115%
Silicon	5,99	0,03	4,08		mg/l	68%
Fluoride	0,270	0,007	0,260		mg/l	96%



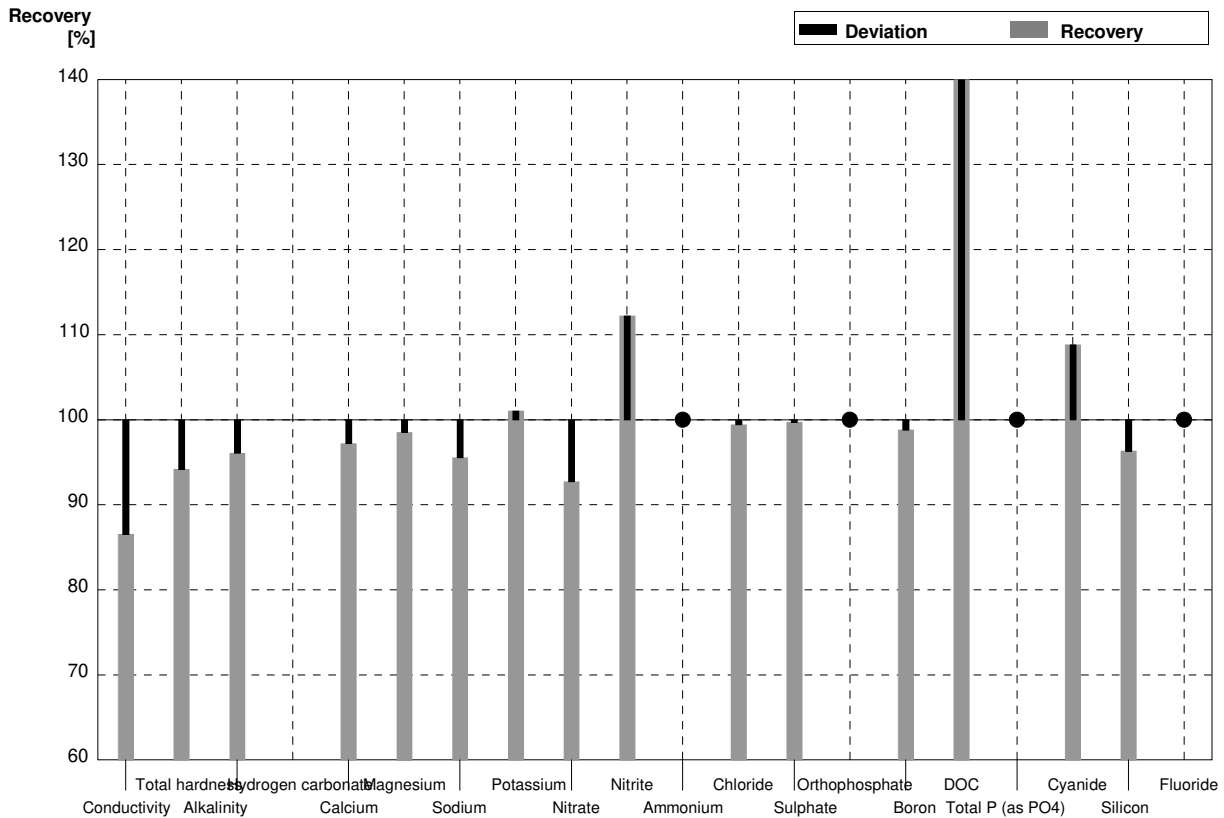
Sample N168A
Laboratory AZ

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	520	21	µS/cm	85%
Total hardness	2,60	0,03	2,46	0,49	mmol/l	95%
Alkalinity	3,33	0,04	3,19	0,57	mmol/l	96%
Hydrogen carbonate	200	3			mg/l	
Calcium	73,9	1,2	69,0	13,8	mg/l	93%
Magnesium	18,4	0,3	17,8	3,6	mg/l	97%
Sodium	18,14	0,13	17,2	3,4	mg/l	95%
Potassium	8,07	0,05	8,17	1,63	mg/l	101%
Nitrate	43,8	1,1	41,6	4,6	mg/l	95%
Nitrite	0,0448	0,0004	0,0465	0,005	mg/l	104%
Ammonium	0,0303	0,0047	<0,13		mg/l	•
Chloride	41,0	1,5	42,3	3,4	mg/l	103%
Sulphate	46,6	0,9	46,6	4,7	mg/l	100%
Orthophosphate	<0,009		<0,15		mg/l	•
Boron	0,1403	0,0013	0,146	0,022	mg/l	104%
DOC	5,06	0,05	15,2	5,3	mg/l	300%
Total P (as PO4)	<0,009		<0,61		mg/l	•
Cyanide	0,0397	0,0016	0,0425	0,006	mg/l	107%
Silicon	4,49	0,03	4,43	0,89	mg/l	99%
Fluoride	0,701	0,018	0,665	0,07	mg/l	95%



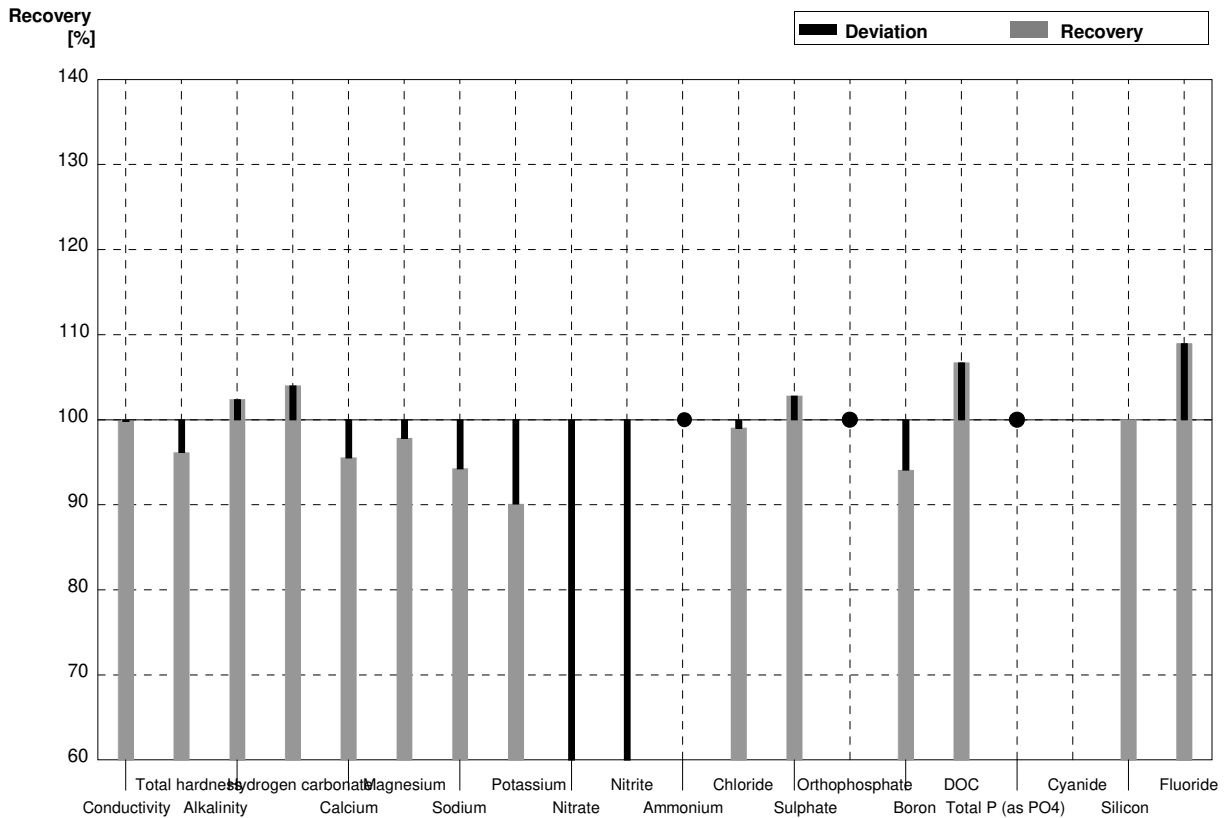
Sample N168B
Laboratory AZ

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	354	14	µS/cm	87%
Total hardness	1,285	0,015	1,21	0,24	mmol/l	94%
Alkalinity	2,04	0,03	1,96	0,35	mmol/l	96%
Hydrogen carbonate	121,4	1,5			mg/l	
Calcium	35,8	0,5	34,8	7,0	mg/l	97%
Magnesium	9,54	0,18	9,40	1,88	mg/l	99%
Sodium	29,2	0,3	27,9	5,6	mg/l	96%
Potassium	5,76	0,03	5,82	1,16	mg/l	101%
Nitrate	11,0	0,3	10,2	1,1	mg/l	93%
Nitrite	0,0254	0,0003	0,0285	0,003	mg/l	112%
Ammonium	<0,01		<0,13		mg/l	•
Chloride	35,1	0,5	34,9	2,8	mg/l	99%
Sulphate	34,9	0,7	34,8	3,5	mg/l	100%
Orthophosphate	0,0829	0,0009	<0,15		mg/l	•
Boron	0,1010	0,0007	0,0998	0,015	mg/l	99%
DOC	8,14	0,06	17,4	6,1	mg/l	214%
Total P (as PO4)	0,1216	0,0010	<0,61		mg/l	•
Cyanide	0,0704	0,0017	0,0766	0,010	mg/l	109%
Silicon	5,99	0,03	5,77	1,15	mg/l	96%
Fluoride	0,270	0,007	<0,50		mg/l	•



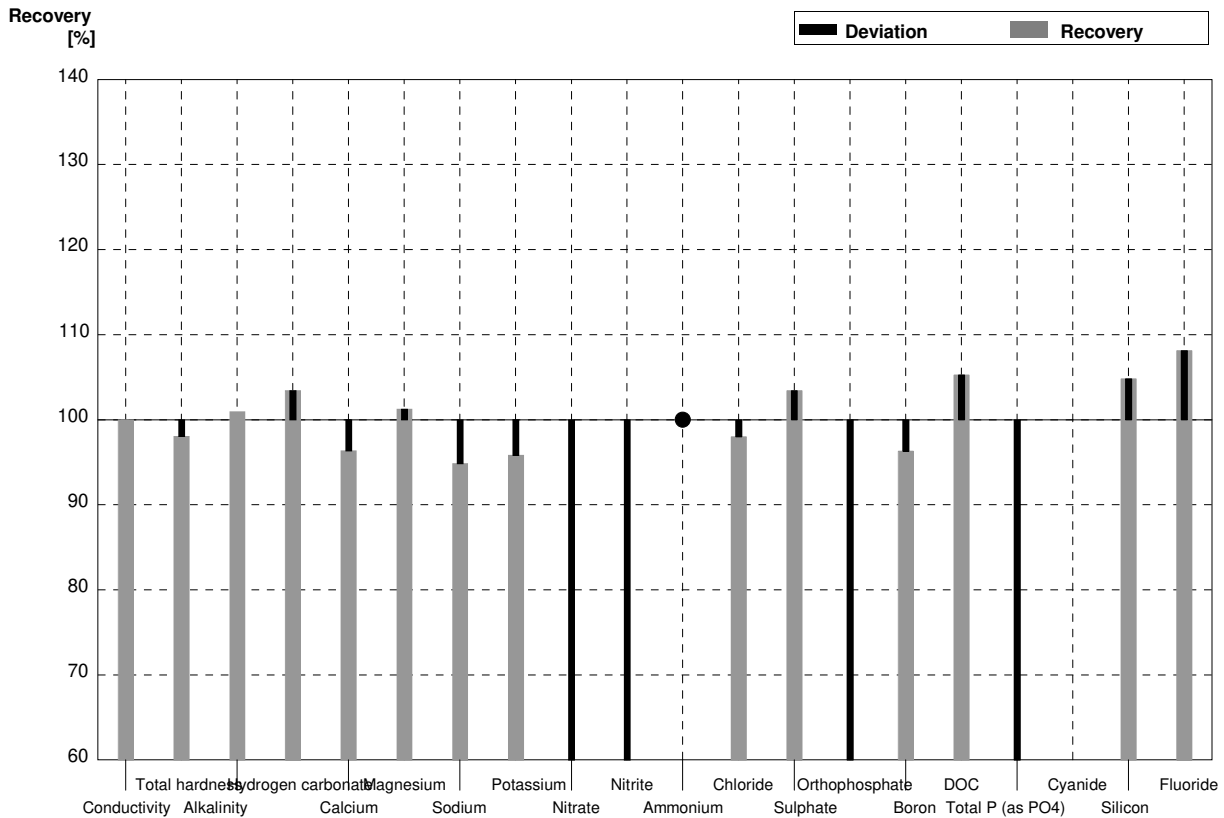
Sample N168A
Laboratory BA

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	613	123	µS/cm	100%
Total hardness	2,60	0,03	2,50	0,5	mmol/l	96%
Alkalinity	3,33	0,04	3,41	0,68	mmol/l	102%
Hydrogen carbonate	200	3	208	41	mg/l	104%
Calcium	73,9	1,2	70,6	10	mg/l	96%
Magnesium	18,4	0,3	18,0	3,6	mg/l	98%
Sodium	18,14	0,13	17,1	2,6	mg/l	94%
Potassium	8,07	0,05	7,27	1,7	mg/l	90%
Nitrate	43,8	1,1	9,72	0,97	mg/l	22%
Nitrite	0,0448	0,0004	0,0130	0,0013	mg/l	29%
Ammonium	0,0303	0,0047	<0,03	0,003	mg/l	•
Chloride	41,0	1,5	40,6	6,1	mg/l	99%
Sulphate	46,6	0,9	47,9	7,2	mg/l	103%
Orthophosphate	<0,009		<0,01	0,002	mg/l	•
Boron	0,1403	0,0013	0,132	0,03	mg/l	94%
DOC	5,06	0,05	5,40	2,2	mg/l	107%
Total P (as PO4)	<0,009		<0,02	0,008	mg/l	•
Cyanide	0,0397	0,0016			mg/l	
Silicon	4,49	0,03	4,49	0,67	mg/l	100%
Fluoride	0,701	0,018	0,764	0,15	mg/l	109%



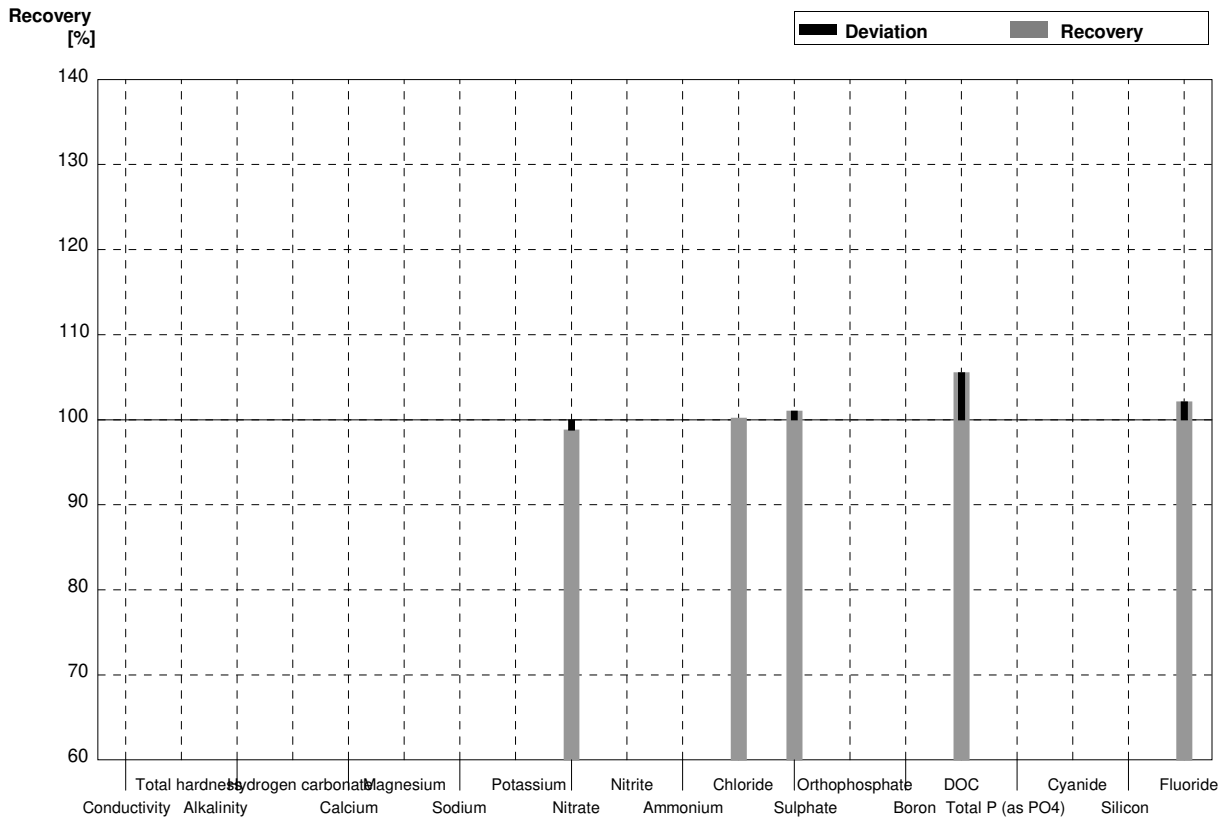
Sample N168B
Laboratory BA

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	409	82	µS/cm	100%
Total hardness	1,285	0,015	1,26	0,25	mmol/l	98%
Alkalinity	2,04	0,03	2,06	0,41	mmol/l	101%
Hydrogen carbonate	121,4	1,5	125,6	25,1	mg/l	103%
Calcium	35,8	0,5	34,5	5,1	mg/l	96%
Magnesium	9,54	0,18	9,66	1,93	mg/l	101%
Sodium	29,2	0,3	27,7	4,2	mg/l	95%
Potassium	5,76	0,03	5,52	1,3	mg/l	96%
Nitrate	11,0	0,3	2,45	0,24	mg/l	22%
Nitrite	0,0254	0,0003	0,00700	0,0007	mg/l	28%
Ammonium	<0,01		<0,03	0,003	mg/l	•
Chloride	35,1	0,5	34,4	5,2	mg/l	98%
Sulphate	34,9	0,7	36,1	5,4	mg/l	103%
Orthophosphate	0,0829	0,0009	0,0260	0,0052	mg/l	31%
Boron	0,1010	0,0007	0,0973	0,022	mg/l	96%
DOC	8,14	0,06	8,57	3,5	mg/l	105%
Total P (as PO4)	0,1216	0,0010	0,0483	0,021	mg/l	40%
Cyanide	0,0704	0,0017			mg/l	
Silicon	5,99	0,03	6,28	0,94	mg/l	105%
Fluoride	0,270	0,007	0,292	0,044	mg/l	108%



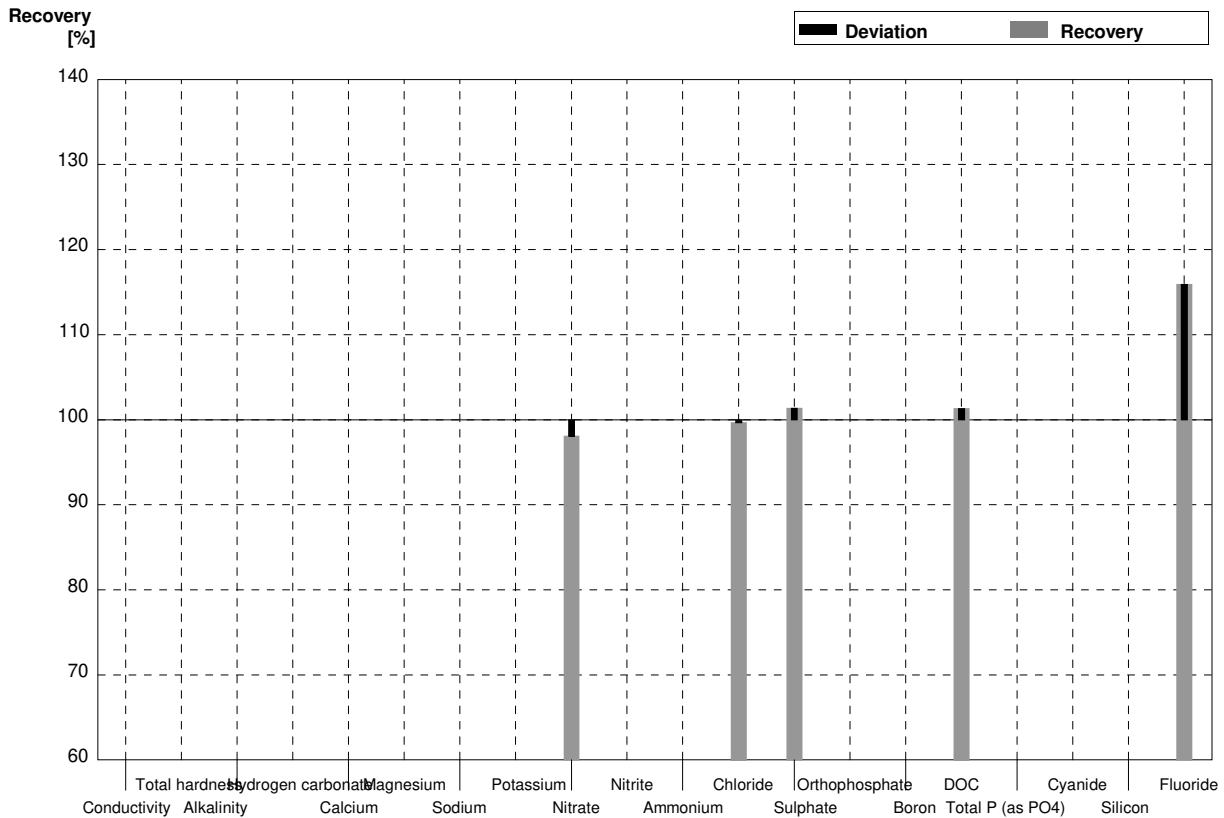
Sample N168A
Laboratory BB

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2			µS/cm	
Total hardness	2,60	0,03			mmol/l	
Alkalinity	3,33	0,04			mmol/l	
Hydrogen carbonate	200	3			mg/l	
Calcium	73,9	1,2			mg/l	
Magnesium	18,4	0,3			mg/l	
Sodium	18,14	0,13			mg/l	
Potassium	8,07	0,05			mg/l	
Nitrate	43,8	1,1	43,280	0,065	mg/l	99%
Nitrite	0,0448	0,0004			mg/l	
Ammonium	0,0303	0,0047			mg/l	
Chloride	41,0	1,5	41,093	0,100	mg/l	100%
Sulphate	46,6	0,9	47,085	0,096	mg/l	101%
Orthophosphate	<0,009				mg/l	
Boron	0,1403	0,0013			mg/l	
DOC	5,06	0,05	5,341	0,117	mg/l	106%
Total P (as PO4)	<0,009				mg/l	
Cyanide	0,0397	0,0016			mg/l	
Silicon	4,49	0,03			mg/l	
Fluoride	0,701	0,018	0,716	0,001	mg/l	102%



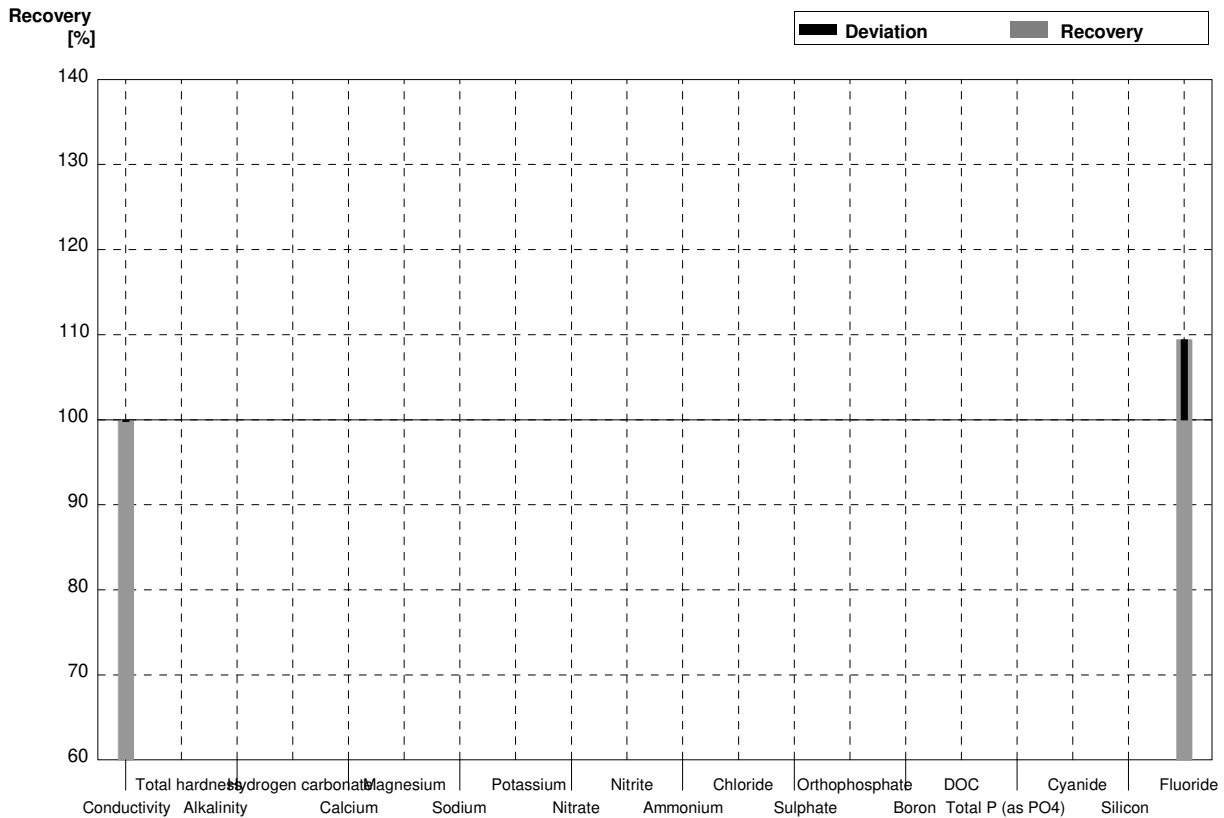
Sample N168B
Laboratory BB

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1			µS/cm	
Total hardness	1,285	0,015			mmol/l	
Alkalinity	2,04	0,03			mmol/l	
Hydrogen carbonate	121,4	1,5			mg/l	
Calcium	35,8	0,5			mg/l	
Magnesium	9,54	0,18			mg/l	
Sodium	29,2	0,3			mg/l	
Potassium	5,76	0,03			mg/l	
Nitrate	11,0	0,3	10,790	0,010	mg/l	98%
Nitrite	0,0254	0,0003			mg/l	
Ammonium	<0,01				mg/l	
Chloride	35,1	0,5	34,987	0,074	mg/l	100%
Sulphate	34,9	0,7	35,376	0,07	mg/l	101%
Orthophosphate	0,0829	0,0009			mg/l	
Boron	0,1010	0,0007			mg/l	
DOC	8,14	0,06	8,25	0,18	mg/l	101%
Total P (as PO4)	0,1216	0,0010			mg/l	
Cyanide	0,0704	0,0017			mg/l	
Silicon	5,99	0,03			mg/l	
Fluoride	0,270	0,007	0,313	0,001	mg/l	116%



Sample N168A
Laboratory BC

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	614	2	613	3	µS/cm	100%
Total hardness	2,60	0,03			mmol/l	
Alkalinity	3,33	0,04			mmol/l	
Hydrogen carbonate	200	3			mg/l	
Calcium	73,9	1,2			mg/l	
Magnesium	18,4	0,3			mg/l	
Sodium	18,14	0,13			mg/l	
Potassium	8,07	0,05			mg/l	
Nitrate	43,8	1,1			mg/l	
Nitrite	0,0448	0,0004			mg/l	
Ammonium	0,0303	0,0047			mg/l	
Chloride	41,0	1,5			mg/l	
Sulphate	46,6	0,9			mg/l	
Orthophosphate	<0,009				mg/l	
Boron	0,1403	0,0013			mg/l	
DOC	5,06	0,05			mg/l	
Total P (as PO4)	<0,009				mg/l	
Cyanide	0,0397	0,0016			mg/l	
Silicon	4,49	0,03			mg/l	
Fluoride	0,701	0,018	0,767	0,07	mg/l	109%



Sample N168B
Laboratory BC

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	409	1	409	2	µS/cm	100%
Total hardness	1,285	0,015			mmol/l	
Alkalinity	2,04	0,03			mmol/l	
Hydrogen carbonate	121,4	1,5			mg/l	
Calcium	35,8	0,5			mg/l	
Magnesium	9,54	0,18			mg/l	
Sodium	29,2	0,3			mg/l	
Potassium	5,76	0,03			mg/l	
Nitrate	11,0	0,3			mg/l	
Nitrite	0,0254	0,0003			mg/l	
Ammonium	<0,01				mg/l	
Chloride	35,1	0,5			mg/l	
Sulphate	34,9	0,7			mg/l	
Orthophosphate	0,0829	0,0009			mg/l	
Boron	0,1010	0,0007			mg/l	
DOC	8,14	0,06			mg/l	
Total P (as PO4)	0,1216	0,0010			mg/l	
Cyanide	0,0704	0,0017			mg/l	
Silicon	5,99	0,03			mg/l	
Fluoride	0,270	0,007	0,283	0,03	mg/l	105%

