

# **IFA-Proficiency Testing Scheme for Water Analysis**

**Round N158  
Major Ions**

**Sample Dispatch: 6 September 2021**



University of Natural Resources and Life Sciences Vienna, Department of Agrobiotechnology  
Institute of Bioanalytics and Agro-Metabolomics, IFA-Proficiency Testing Scheme  
3430 Tulln, Konrad-Lorenz-Straße 20, [www.ifatest.eu](http://www.ifatest.eu)  
tel.: +43 (0)1 47654 ext. 97306 or 97361, fax.: +43 (0)1 47654 97309



**University of Natural Resources  
and Life Sciences, Vienna**

**Address:**

**University of Natural Resources  
and Life Sciences, Vienna**  
Department of Agrobiotechnology, IFA-Tulln  
Institute of Bioanalytics and Agro-Metabolomics  
Head: Prof. DI Dr. Rudolf Krska  
Konrad-Lorenz-Str. 20  
3430 Tulln  
Austria

**Website:**

[www.ifatest.eu](http://www.ifatest.eu)  
[www.ifa-tulln.boku.ac.at](http://www.ifa-tulln.boku.ac.at)

**Telephone/Fax:**

+43(0) 1 47654 - Ext  
+43(0) 1 47654 - 97309

**IFA-Proficiency Testing Scheme:**

Technical manager:

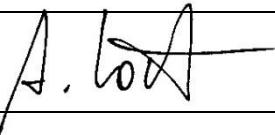
Dipl.-HTL-Ing. Andrea Koutnik      Ext 97306    [andrea.koutnik@boku.ac.at](mailto:andrea.koutnik@boku.ac.at)

Quality assurance representative:

Dr. Wolfgang Kandler      Ext 97308    [wolfgang.kandler@boku.ac.at](mailto:wolfgang.kandler@boku.ac.at)

Method specialists:

Ing. Uta Kachelmeier      Ext 97361    [uta.kachelmeier@boku.ac.at](mailto:uta.kachelmeier@boku.ac.at)  
Ing. Caroline Stadlmann      Ext 97306    [caroline.stadlmann@boku.ac.at](mailto:caroline.stadlmann@boku.ac.at)

Approved by:	Dipl.-HTL-Ing. Andrea Koutnik	
Round: N158	Date / Signature:	08.10.2021 

Report: 1<sup>st</sup> edition, created on 7 October 2021 by Ing. Uta Kachelmeier  
199 pages

This report summarises the results of round N158 (major ions) within the IFA-Proficiency Testing Scheme for Water Analysis. The samples N158A and N158B were distributed to 50 participants on Monday, 6 September 2021. 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, 1 October 2021. 49 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<sub>3</sub>, CaCl<sub>2</sub>, Ca(NO<sub>3</sub>)<sub>2</sub>, MgSO<sub>4</sub>, Mg(NO<sub>3</sub>)<sub>2</sub>, NaHCO<sub>3</sub>, Na<sub>2</sub>SO<sub>4</sub>, KHCO<sub>3</sub>, K<sub>2</sub>SO<sub>4</sub>, diethyl ethylphosphonate (C<sub>6</sub>H<sub>15</sub>PO<sub>3</sub>, for total-P), potassium hydrogen phthalate (for DOC) and certified standard solutions of NaNO<sub>2</sub>, NH<sub>4</sub>Cl, NH<sub>4</sub>H<sub>2</sub>PO<sub>4</sub>, H<sub>3</sub>BO<sub>3</sub> and Zn(CN)<sub>2</sub>/KCN. Both samples, N158A and N158B, contained free CO<sub>2</sub>, which was used for dissolution of CaCO<sub>3</sub>. No other substances (e.g. preservatives) were added. The samples were stabilised by sterile filtration and low temperature.

No phosphorus substances were added to sample N158B in order to check the analytical blank values.

## 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<sub>4</sub><sup>+</sup>, NO<sub>2</sub><sup>-</sup>, o-PO<sub>4</sub><sup>3-</sup> and CN<sup>-</sup> of samples N158A and N158B were determined in several samples about 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 (N159).

According to our experience, the samples remain stable up to 18 months for the parameters conductivity, total hardness, alkalinity, Ca<sup>2+</sup>, Mg<sup>2+</sup>, Na<sup>+</sup>, K<sup>+</sup>, NO<sub>3</sub><sup>-</sup>, Cl<sup>-</sup>, SO<sub>4</sub><sup>2-</sup>, boron and HCO<sub>3</sub><sup>-</sup> when stored at 4°C in the dark. For the parameters CN<sup>-</sup>, NH<sub>4</sub><sup>+</sup>, NO<sub>2</sub><sup>-</sup>, o-PO<sub>4</sub><sup>3-</sup>, total-P and DOC the samples remain stable several weeks, whereas the first changes normally are observed for NH<sub>4</sub><sup>+</sup> 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, 3<sup>rd</sup> 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 484 µS/cm in sample N158A and 435 µS/cm in sample N158B.

For the pH no target values can be assigned. The results can be compared on the tables. In this kind of samples containing CO<sub>2</sub>, 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 ammonium dihydrogen phosphate ( $NH_4H_2PO_4$ ) 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 o- $PO_4^{3-}$ .

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<sup>-</sup>.

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 %).

In order to check the analytical blank values, target concentrations were set to <0.009 mg/L o- $PO_4^{3-}$  and <0.009 mg/L total-P (as  $PO_4^{3-}$ ) in N158B, 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.

The recoveries of the target concentrations, calculated from outlier-corrected data mean values ranged between 89.5 % (cyanide in sample N158A) and 107.3 % (ammonium in sample N158A).

The between laboratory CVs covered the range between 0.9 % (conductivity in sample N158B) and 19.5 % (cyanide in sample N158B).

All confidence intervals of the outlier-corrected laboratory mean values except cyanide in sample N158A ( $89.5\% \pm 6.0\%$ ) and DOC in sample N158B ( $104.5\% \pm 2.5\%$ ) 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<sub>i</sub>    result of laboratory  
X      target value or mean value („consensus value“)  
 $\sigma_{PT}$    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 2010 to 2020. 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](http://www.ifatest.eu)) by 5.9 %, which is 0.36 mg/L DOC, when based on the target value.

$$z = \frac{x_i - X}{\sigma_{pt}} = \frac{7.00 \text{ mg/L} - 6.02 \text{ mg/L}}{0.36 \text{ mg/L}} \approx 2.7 \quad \text{or} \quad \frac{116\% - 100\%}{5.9\%} \approx 2.7$$

$z$  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)

$\sigma_{pt}$  0.36 mg/L equivalent to 5.9 % (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.

Parameter	standard deviation for proficiency assessment	Lower limit
Alkalinity K <sub>S4.3</sub>	2.0 %	0.2 mmol/L
Ammonium	12 %	0.01 mg/L
Boron	7.8 %	0.012 mg/L
Calcium	3.3 %	9 mg/L
Chloride	3.0 %	2 mg/L
el. Conductivity	1.3 %	50 µS/cm
Cyanide	16 %	0.01 mg/L
DOC	5.9 %	1 mg/L
Hydrogen carbonate	2.4 %	20 mg/L
Magnesium	3.7 %	1 mg/L
Nitrate	3.3 %	2 mg/L
Nitrite	6.1 %	0.01 mg/L
Orthophosphate	10 %	0.015 mg/L
Potassium	4.5 %	0.5 mg/L
Sodium	3.4 %	1 mg/L
Sulphate	3.1 %	3 mg/L
Total hardness	2.9 %	0.1 mmol/L
Total-P (as PO <sub>4</sub> <sup>3-</sup> )	10 %	0.015 mg/L

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

z-Score	Classification
$\leq 2$	satisfactory
$2 <  z  < 3$	questionable
$\geq 3$	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.

### 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", 3<sup>rd</sup> 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
- “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, 8 October 2021

## EXPLANATION

### Sample M106A

#### Parameter Copper

Target value  $\pm U$  ( $k=2$ )  $4,79 \mu\text{g/l} \pm 0,13 \mu\text{g/l}$

IFA result  $\pm U$  ( $k=2$ )  $4,79 \mu\text{g/l} \pm 0,38 \mu\text{g/l}$

Stability test  $\pm U$  ( $k=2$ )  $4,69 \mu\text{g/l} \pm 0,38 \mu\text{g/l}$

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	$\pm$	Unit	Recovery	z-Score
A	5.16	0.4128	$\mu\text{g/l}$	108%	0.90
B	4.22	0.42	$\mu\text{g/l}$	88%	-1.38
C	4.45	0.13	$\mu\text{g/l}$	93%	-0.83
D			$\mu\text{g/l}$		
E			$\mu\text{g/l}$		
F	4.10	0.08	$\mu\text{g/l}$	86%	-1.68
G			$\mu\text{g/l}$		
H			$\mu\text{g/l}$		
I	4.75	0.74	$\mu\text{g/l}$	99%	-0.10
J	<5		$\mu\text{g/l}$	*	
K	4.76		$\mu\text{g/l}$	99%	-0.07
L	<10		$\mu\text{g/l}$	*	
M	4.8	0.5	$\mu\text{g/l}$	100%	0.02
N	3.7	0.4	$\mu\text{g/l}$	77%	-2.65
O	4.47	0.447	$\mu\text{g/l}$	93%	-0.78
P	6.0		$\mu\text{g/l}$	125%	2.94
Q	4.17	0.2	$\mu\text{g/l}$	87%	-1.51
R	4.6	0.8	$\mu\text{g/l}$	96%	-0.46
S	4.44	0.67	$\mu\text{g/l}$	93%	-0.85
T			$\mu\text{g/l}$		
U	4.675	0.935	$\mu\text{g/l}$	98%	-0.28
V	5.0	0.50	$\mu\text{g/l}$	104%	0.51
W	3.54	0.3	$\mu\text{g/l}$	74%	-3.03
X	7.108	*	$\mu\text{g/l}$	148%	5.63
Y	<10		$\mu\text{g/l}$	*	
Z			$\mu\text{g/l}$		
AA	<3.0		$\mu\text{g/l}$	FN	
AB	3.775	0.107	$\mu\text{g/l}$	79%	-2.46
AC	<10.0		$\mu\text{g/l}$	*	

An asterisk 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 $\pm$ CI(99%)	$4,65 \pm 0,57$	$4,51 \pm 0,42$	$\mu\text{g/l}$
Recov. $\pm$ CI(99%)	$97,1 \pm 12,0$	$94,1 \pm 8,8$	%
SD between labs	0.84	0.59	$\mu\text{g/l}$
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

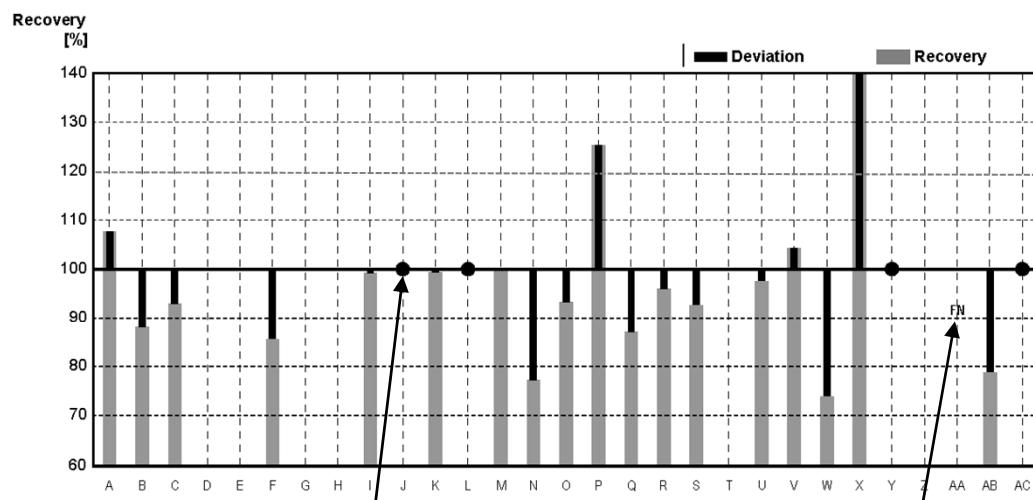


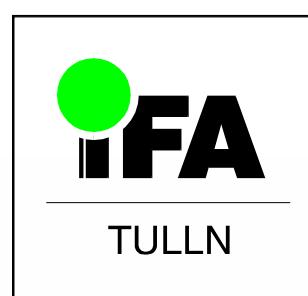
Diagram 2: Recoveries and deviations from target values



# **Illustration of Results Tables and Parameter Oriented Part**

Round N158  
Major Ions

Sample Dispatch: 6 September 2021



## Results Sample N158A

	pH	Cond.	total-Hardn.	K <sub>S 4.3</sub>	HCO <sub>3</sub> <sup>-</sup>	Ca <sup>2+</sup>	Mg <sup>2+</sup>	Na <sup>+</sup>	K <sup>+</sup>	NO <sub>3</sub> <sup>-</sup>
Unit		µS/cm	mmol/L	mmol/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		489	2.04	1.71	101	57.9	14.5	11.7	2.30	39.9
IFA result	6.43	492	2.11	1.67	99.1	60.5	14.6	11.8	2.32	39.4
Stability test										
A	6.56	493	2.18			60.28	15.055	11.981	2.273	40.36
B	6.08	482	2.079	1.607	98	60.0	15.1	12.45	5.45	40.7
C	6.06	492		1.73	103					41.0
D										
E	6.33	489		1.81		61.5	14.9	11.3	2.37	39.2
F										
G										
H	6.4	485	2.05	1.74	106	57.64	14.97	12.08	2.43	40.0
I	6.0	485	2.01	1.667	98.6	56.8	14.3	11.6	2.37	39.7
J	6.74	507	2.03	1.55	94.6	58.3	14.2	11.7	2.30	38.7
K						51.1	13.5	11.9	2.41	39.8
L	6.10	488	2.05	1.69	99.8	57.8	14.7	11.7	2.19	39.7
M	6.2	494.4	1.987	1.733	102.7	56.1	14.3	12.1	2.20	38.9
N	6.3	497	1.67	1.67	102	57.3	14.4	11.9	2.28	40.5
O	6.23	484	2.01	1.71	101	56.8	14.5	10.8	2.24	40.3
P	6.35	491	2.004	1.702	103.9	56.52	14.43	11.82	2.270	38.71
Q	6.12	495	2.10	1.68	101.7	59.6	14.9	11.9	2.40	39.5
R										42.3
S										>30
T	6.28	483	2.04	1.725	102	57.9	14.4	12.0	2.31	38.6
U	6.30	487	1.93	1.67	100	54.4	13.9	11.0	2.34	39.6
V	6.1	488	2.043	1.67		65.7	15.7	15.5	2.63	
W	6.67	497	2.04	1.70	100.66	57.800	14.436	11.487	2.119	38.918
X	6.09	491	2.03	1.67	99.1	57.7	14.3	11.6	2.36	40.3
Y	6.04	498		1.68		57.3	14.9	13.0	3.02	40.0
Z			1.99	1.72						

### Measurement Uncertainties Sample N158A

	pH ±	Cond. ±	total- Hardn. ±	K <sub>S 4.3</sub> ±	HCO <sub>3</sub> <sup>-</sup> ±	Ca <sup>2+</sup> ±	Mg <sup>2+</sup> ±	Na <sup>+</sup> ±	K <sup>+</sup> ±	NO <sub>3</sub> <sup>-</sup> ±
Unit		µS/cm	mmol/L	mmol/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		2	0.02	0.02	1	0.7	0.2	0.3	0.04	0.6
IFA result	0.20	7	0.08	0.07	4.0	2.4	0.7	0.9	0.16	2.0
Stability test										
A	0.1	14	0.2			3.19	1.2	0.83	0.13	1.89
B	0.04	14.0	0.025	0.025	10	2	0.4	1	0.2	1
C	0.04	3.48		0.05	1.49					2.81
D										
E										
F										
G										
H	0.32	24	0.2	0.095	5.3	5.8	1.5	1.2	0.24	2.0
I	0.1	19	0.11	0.131	8.0	2.7	0.9	0.6	0.13	2.4
J	0.5	15	0.28	0.06	3.78	8.2	1.3	1.1	0.18	3.5
K						0.5	0.2	0.1	0.08	0.3
L	0.30	15	0.16	0.07	4.0	2.9	0.9	0.5	0.17	2.4
M		27.9	0.264			7.48	1.89	2.14	0.36	3.28
N	0.1	8	0.14	0.05	3	3.3	0.9	1.3	0.09	1.8
O	0.010	6.0	0.035	0.006	0.200	0.208	0.231	0.458	0.006	0.231
P	0.0622	2.70	0.094	0.164		1.87	0.48	0.40	0.068	1.26
Q	0.1	49.5	0.17			4.77	1.19	0.95	0.26	4.75
R										3
S										
T	0.25	19	0.37	0.07	4	10.4	2.59	2.16	0.42	3.47
U	0.03	15	0.16	0.08	5	2.5	1.1	0.8	0.17	1.3
V						3.36	0.59	1.04	0.58	
W	0.1	4.51		0.17		5.7	1.4	1.1	0.2	3.9
X	0.0609	0.226	0.0374	0.0825	1.981	0.756	0.787	0.153	0.0378	0.425
Y	0.013	0.225		0.018		1.66	0.072	0.858	0.185	4.20
Z			0.01	0.02						

## Results Sample N158A

	pH	Cond.	total-Hardn.	K <sub>S 4.3</sub>	HCO <sub>3</sub> <sup>-</sup>	Ca <sup>2+</sup>	Mg <sup>2+</sup>	Na <sup>+</sup>	K <sup>+</sup>	NO <sub>3</sub> <sup>-</sup>
Unit		µS/cm	mmol/L	mmol/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		489	2.04	1.71	101	57.9	14.5	11.7	2.30	39.9
IFA result	6.43	492	2.11	1.67	99.1	60.5	14.6	11.8	2.32	39.4
Stability test										
AA	6.34	472	2.00	1.68	99.3	56.4	14.5	10.74	2.11	38.7
AB						61.9	14.63	13.05	2.18	36.4
AC	6.1	483	2.11	1.68	99.5	60.1	14.8	11.8	2.26	39.4
AD	6.1	493	2.10	1.745	106.5	60.1	14.7	12.0	2.36	39.3
AE		493	20.4	1.62	98.9	58.0	14.5	10.8	2.15	41.6
AF	6.1	475	2.08	1.62	99	59.6	14.4	10.9	2.33	39.8
AG	6.09	490	10.9	1.65	100	54.8	14.1	11.1	2.31	39.2
AH		495				57.7	14.6	12.0	2.23	8.67
AI	6.5	492	2.04	1.69	100.1	57.6	14.6	11.7	2.29	39.2
AJ			1.973	1.66	100.55					
AK			2.07			58.1	15.0			
AL	6.1	486.000	1.98	1.6300	99.5000	56.54	13.80	12.01	2.39	40.629
AM	6.53	491	2.04	1.71	102.2	57.5	14.6	11.68	2.24	39.26
AN				1.73	105.6					
AO										
AP	6.64		1.652			62.082	16.420	12.853	2.936	43.281
AQ	6.42	482	2.05	1.67	98.6	59.1	13.9	11.0	2.29	39.3
AR	6.1	488	2.02	1.75	107	57	14.3	11.4	2.30	38.8
AS	6.54	486	2.10	1.70	101	60.1	14.6	11.6	2.14	40.1
AT	6.2	490	2.02	1.67	98.9	57.4	14.4	11.4	2.17	40.2
AU	6.08	472	2.12	1.65	100.7	57.0	14.8			41.6
AV				1.67						
AW	6.0	491	2.04	1.66		57.4	14.8	11.8	2.29	39.1
AX	6.2	503	2.11	1.70	102.4	60	15.0	12.0	2.00	41.0

### Measurement Uncertainties Sample N158A

	pH ±	Cond. ±	total- Hardn. ±	K <sub>S 4.3</sub> ±	HCO <sub>3</sub> <sup>-</sup> ±	Ca <sup>2+</sup> ±	Mg <sup>2+</sup> ±	Na <sup>+</sup> ±	K <sup>+</sup> ±	NO <sub>3</sub> <sup>-</sup> ±
Unit		µS/cm	mmol/L	mmol/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		2	0.02	0.02	1	0.7	0.2	0.3	0.04	0.6
IFA result	0.20	7	0.08	0.07	4.0	2.4	0.7	0.9	0.16	2.0
Stability test										
AA		9	0.08	0.08	4.97	2.3	0.7	0.54	0.11	1.2
AB						3.09	0.732	0.653	0.109	1.82
AC	0.1	2.3		0.12	0.8	1.6	0.1	0.2	0.2	0.4
AD						1.14	0.18	0.05	0.02	
AE		14		0.08	5	8.12	1.16	1.73	0.22	1.7
AF	0.1	19	0.17			4.2	1.2	1.2	0.4	2.8
AG		14.2		0.0346	2.11	1.76	0.460	1.0	0.159	1.10
AH		25				2.9	0.7	0.6	0.11	0.9
AI	0.1	5	0.2	0.17	10	11.5	2.9	1.8	0.46	3.9
AJ			0.19	0.15	10					
AK			0.060			4.31	0.88			
AL	0.3700	19.4000		0.24500	14.9200	5.654	1.380	1.201	0.239	1.6252
AM										
AN										
AO										
AP						6.208	1.642	1.285	0.294	8.656
AQ	0.20	12	0.21	0.17	9.9	5.9	1.4	1.1	0.23	3.9
AR	0.1	3	0.18	0.10	4	2	1	1	0.5	2
AS	0.20	49	0.21	0.17	10	6.0	1.5	1.2	0.21	4.0
AT	0.3	20	0.1	0.1	4	5	1.8	1.8	0.3	4
AU	0.01	2.4	0.07	0.01	0.61	1.9	0.2			0.25
AV				0.03						
AW	0.1	10	0.41	0.2		11.5	3.0	1.8	0.46	4.0
AX	0.2	10	0.14	0.1	8.2	4.8	1.20	0.72	0.22	2.05

## Results Sample N158A

	<b>NO<sub>2</sub><sup>-</sup></b>	<b>NH<sub>4</sub><sup>+</sup></b>	<b>Cl<sup>-</sup></b>	<b>SO<sub>4</sub><sup>2-</sup></b>	<b>o-PO<sub>4</sub><sup>3-</sup></b>	<b>Boron</b>	<b>DOC</b>	<b>total-P (as PO<sub>4</sub><sup>3-</sup>)</b>	<b>CN<sup>-</sup></b>
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value	0.0468	0.0251	47.6	45.3	0.132	0.0431	5.62	0.184	0.0469
IFA result	0.0459	0.0255	47.0	45.0	0.133	0.0407	5.58	0.190	0.0459
Stability test	0.0469	0.0246			0.132		5.67		0.0458
A	0.0482	0.0266	48.88	46.41	0.1311	0.04318	5.65	0.1848	0.0417
B	0.0490	0.0250	48.9	43.1		0.050		0.2000	
C	0.0466	0.0268	48.5		0.142			0.194	
D					0.139				
E	0.050	0.0300	47.9	46.1	0.131	0.0480	5.49		
F					0.1245			0.4879	
G						0.04099		0.17747	
H	0.0489	0.0270	46.1	44.33	0.130	0.0450	5.653	0.184	0.0440
I	0.0453	0.0309	47.6	45.3	0.154	0.0439	5.81	0.175	
J	0.0490	0.0310	47.2	44.1	0.132	0.0410	5.27	0.178	0.0440
K			45.0	44.0					
L	0.0492	0.0269	48.2	45.5	0.134	0.0454	5.58	0.191	0.0431
M	0.0450	0.0400	48.6	45.9	0.135	0.0440	6.00	0.184	0.0380
N	0.0354	0.0200	48.2	46.5			5.91		
O	0.0499	0.0266	48.1	47.4	0.129	0.0420	5.04	0.165	0.0354
P	0.0487	0.0245	46.98	44.43	0.129	0.04037	10.29	0.172	0.0430
Q	0.0480	0.0280	49.7	45.4	0.1196	0.0430	5.52	0.184	0.0420
R									
S		0.0349			0.138		>4	0.194	
T	0.0465	0.0344	47.0	44.1	0.127	0.0425	6.10	0.188	0.0453
U	0.0495	0.0198	47.6	45.8	0.127	0.0425	5.66	0.188	0.0340
V					<0.2	0.0431			
W	0.0476	0.0241	47.248	44.212	0.1275	0.0466	5.662	0.168	
X	0.0465	0.0267	51.4	45.9	0.133	0.0438	5.703	0.0594	44.65
Y	0.0465	0.0375	46.7	44.3	0.133	0.0413	6.22	0.185	0.0444
Z					0.130				

### Measurement Uncertainties Sample N158A

	<b>NO<sub>2</sub><sup>-</sup> ±</b>	<b>NH<sub>4</sub><sup>+</sup> ±</b>	<b>Cl<sup>-</sup> ±</b>	<b>SO<sub>4</sub><sup>2-</sup> ±</b>	<b>o-PO<sub>4</sub><sup>3-</sup> ±</b>	<b>Boron ±</b>	<b>DOC ±</b>	<b>total-P (as PO<sub>4</sub><sup>3-</sup>) ±</b>	<b>CN<sup>-</sup> ±</b>
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value	0.0010	0.0044	0.9	0.5	0.001	0.0002	0.03	0.001	0.0003
IFA result	0.0023	0.0020	1.9	0.9	0.001	0.0033	0.11	0.023	0.0041
Stability test	0.0023	0.0020			0.001		0.11		0.0041
A	0.0052	0.0071	1.81	2.18	0.0343	0.0093	0.63	0.0364	0.0125
B	0.01	0.01	1	1.5		0.01		0.05	
C	0.0047	0.0040	0.49		0.017			0.026	
D					0.010				
E									
F					0.0082			0.0334	
G									
H	0.0049	0.003	4.61	4.43	0.013	0.005	1.023	0.018	0.004
I	0.0052	0.0071	3.8	4.2	0.020	0.0048	1.08	0.028	
J	0.0020	0.0020	3.8	2.6	0.012	0.007	0.63	0.016	0.004
K			0.2	0.1					
L	0.0039	0.0026	2.4	2.7	0.007	0.0045	0.56	0.013	0.013
M	0.005	0.01	4.05	2.96	0.037	0.001	1.12	0.0295	0.0038
N	0.005	0.005	3.3	3			1.23		
O	0.0001	0.001	0.289	0.265	0.001	0.002	0.265	0.001	0.002
P	0.00284	0.00141	1.01	1.12	0.00286	0.00238	2.028	0.00382	0.00965
Q	0.0096	0.005	4.47	4.5	0.0120	0.008	0.66	0.066	
R									
S		0.0079			0.018			0.007	
T	0.004	0.003	4.23	3.97	0.011	0.008	0.55	0.008	0.004
U	0.005	0.001	3.2	1.5	0.01	0.005	0.91	0.013	0.01
V						0.005			
W	0.005	0.0024	4.7	4.4	0.013	0.005	0.57	0.017	
X	0.00103	0.00245	0.998	0.388	0.00251	0.00101	0.0881	0.00044	0.598
Y	0.0026	0.0016	4.32	4.56	0.0007	0.0013	0.030	0.0010	0.0042
Z					0.001				

## Results Sample N158A

	<b>NO<sub>2</sub><sup>-</sup></b>	<b>NH<sub>4</sub><sup>+</sup></b>	<b>Cl<sup>-</sup></b>	<b>SO<sub>4</sub><sup>2-</sup></b>	<b>o-PO<sub>4</sub><sup>3-</sup></b>	<b>Boron</b>	<b>DOC</b>	<b>total-P (as PO<sub>4</sub><sup>3-</sup>)</b>	<b>CN<sup>-</sup></b>
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value	0.0468	0.0251	47.6	45.3	0.132	0.0431	5.62	0.184	0.0469
IFA result	0.0459	0.0255	47.0	45.0	0.133	0.0407	5.58	0.190	0.0459
Stability test	0.0469	0.0246			0.132		5.67		0.0458
AA	0.0480	0.0310	47.0	45.4	0.127	<0.050	5.29	0.2027	
AB			39.1	43.6					
AC	0.051	0.0279	49.8	46.5	0.124	0.0412	5.73	0.193	
AD	0.460		48.0	45.2		0.0469		0.218	
AE	0.0487	0.0239	48.3	45.7		0.0474	5.65		
AF	0.0460	<0.040	48.4	46.6	0.123	0.0412	5.62	0.135	0.0420
AG	0.0493	<0.02	48.3	44.8	0.126	<0.05	5.50	0.166	0.0320
AH		<0.02	48.8	46.0		0.0382			36.3
AI	0.0466	0.0256	46.6	45.0	0.131	0.0324	5.59	0.182	
AJ					0.130		5.83		
AK	0.056				0.132				
AL	0.04600	0.02700	47.36	47.26	0.11300	0.04900	5.500	0.17783	48.2900
AM	0.0490	0.0200	47.24	45.14	0.126		5.56	0.172	
AN					0.064				
AO									
AP			58.610	51.320					
AQ	0.0517	0.0279	50.3	47.0	0.129	0.0429	5.67	0.174	0.0400
AR	0.0457	0.0294	48.2	44.5		0.0458	5.5	0.189	0.056
AS	0.0490	0.0263	48.5	45.2	0.109	0.0390	5.51	0.141	0.0420
AT	0.0460	0.0270	47.9	45.3	0.124		5.77	0.180	
AU			46.7	43.7		0.0479	6.0	0.071	0.050
AV									
AW	0.0466	0.0267	46.8	44.9	0.130	0.0339		0.182	0.0427
AX	0.0470	0.0250	49.0	47.0	0.137	0.0400	5.6	0.177	

### Measurement Uncertainties Sample N158A

	<b>NO<sub>2</sub><sup>-</sup> ±</b>	<b>NH<sub>4</sub><sup>+</sup> ±</b>	<b>Cl<sup>-</sup> ±</b>	<b>SO<sub>4</sub><sup>2-</sup> ±</b>	<b>o-PO<sub>4</sub><sup>3-</sup> ±</b>	<b>Boron ±</b>	<b>DOC ±</b>	<b>total-P (as PO<sub>4</sub><sup>3-</sup>) ±</b>	<b>CN<sup>-</sup> ±</b>
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value	0.0010	0.0044	0.9	0.5	0.001	0.0002	0.03	0.001	0.0003
IFA result	0.0023	0.0020	1.9	0.9	0.001	0.0033	0.11	0.023	0.0041
Stability test	0.0023	0.0020			0.001		0.11		0.0041
AA	0.005	0.003	1.4	1.4	0.013		0.53	0.0304	
AB			1.96	2.18					
AC	0.001	0.002	1.4	3.1	0.003	0.0025	0.08	0.002	
AD						0.0003		0.005	
AE	0.010	0.002	12.1	2.7		0.0119	1.41		
AF	0.007		2.4	2.8		0.007	0.56		
AG	0.0031		0.941	1.16	0.010		0.670	0.0138	0.0040
AH			4.9	4.6		0.0019			4
AI	0.0111	0.0045	4.7	4.5	0.027	0.0081	0.56	0.037	
AJ					0.013		0.5		
AK	0.008				0.021				
AL	0.00370	0.00270	2.368	2.363	0.01360	0.00590	0.44000	0.02667	4.82900
AM									
AN									
AO									
AP			8.791	10.264					
AQ	0.0052	0.0028	5.0	4.7	0.013	0.0043	0.57	0.017	0.004
AR	0.01	0.01	2	2		0.01	0.4	0.02	0.02
AS	0.0049	0.0026	4.9	4.5	0.011	0.0039	0.55	0.028	0.0042
AT	0.004	0.004	3	4	0.02		0.9	0.02	
AU			0.35	0.79		0.0021	0.26	0.002	0.013
AV									
AW	0.01	0.01	4.7	4.5	0.027	0.0085		0.037	0.011
AX	0.006	0.007	3.92	2.82	0.012	0.0068	0.672	0.044	

## Results Sample N158B

	pH	Cond.	total-Hardn.	K <sub>S 4.3</sub>	HCO <sub>3</sub> <sup>-</sup>	Ca <sup>2+</sup>	Mg <sup>2+</sup>	Na <sup>+</sup>	K <sup>+</sup>	NO <sub>3</sub> <sup>-</sup>
Unit		μS/cm	mmol/L	mmol/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		435	1.25	1.19	69.5	39.4	6.41	32.5	5.52	73.3
IFA result	6.81	438	1.28	1.18	68.8	40.6	6.38	32.5	5.53	70.2
Stability test										
A	7.01	438	1.28			40.713	6.508	32.423	5.600	71.81
B	6.29	429	1.291	1.130	69	41.8	7.1	32.4	5.60	74.6
C	6.38	436		1.22	71.5					72.2
D										
E	6.53	434		1.32		41.5	6.54	30.9	5.55	72.3
F										
G										
H	6.67	430	1.26	1.23	75.1	39.3	6.68	32.8	5.79	75.32
I	6.4	433	1.22	1.174	68.6	38.2	6.4	31.5	5.54	71.9
J	6.78	433	1.26	1.25	76.3	39.9	6.51	31.1	5.34	70.8
K						36.8	5.83	31.5	5.49	72.5
L	6.33	436	1.25	1.19	69.3	39.2	6.60	32.5	5.57	72.9
M	6.5	439.7	1.229	1.212	70.9	38.1	6.80	33.3	5.40	73.2
N	6.7	442	1.23	1.19	73	38.9	6.4	33.0	5.51	73.8
O	6.44	430	1.23	1.19	70.6	38.9	6.25	29.9	5.30	75.3
P	6.63	435	1.234	1.183	72.19	38.69	6.510	32.43	5.559	71.62
Q	6.40	444	1.29	1.17	72.3	40.6	6.6	33.1	5.6	75.9
R										76.23
S										>30
T	6.65	429	1.24	1.20	70.2	39.0	6.58	32.9	5.56	71.3
U	6.60	433	1.18	1.15	70.2	36.9	6.17	31.0	5.25	70.6
V	6.4	432	1.250	1.19		42.6	7.12	38.5	6.13	
W	6.88	437	1.24	1.19	69.551	39.254	6.484	32.553	5.425	74.555
X	6.38	436	1.22	1.17	68.3	38.6	6.20	32.3	5.72	74.1
Y	6.34	437		1.17		40.2	7.02	34.6	6.63	70.9
Z			1.21	1.21						

### Measurement Uncertainties Sample N158B

	pH ±	Cond. ±	total- Hardn.±	K <sub>S 4.3</sub> ±	HCO <sub>3</sub> ±	Ca <sup>2+</sup> ±	Mg <sup>2+</sup> ±	Na <sup>+</sup> ±	K <sup>+</sup> ±	NO <sub>3</sub> ±
Unit		µS/cm	mmol/L	mmol/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		1	0.02	0.01	0.4	0.6	0.09	0.2	0.04	1.7
IFA result	0.20	6	0.05	0.05	2.8	2.0	0.32	1.6	0.28	3.5
Stability test										
A	0.1	13	0.1			2.16	0.52	2.24	0.32	3.38
B	0.04	14.0	0.025	0.025	10	2	0.4	1	0.2	1
C	0.04	3.09		0.03	1.03					4.95
D										
E										
F										
G										
H	0.34	21.5	0.13	0.067	3.8	3.9	0.7	3.3	0.58	3.77
I	0.1	17	0.06	0.100	6.1	1.9	0.4	1.6	0.2	4.4
J	0.5	13	0.18	0.05	3.05	1.6	0.59	2.8	0.43	6.4
K						0.4	0.10	0.2	0.10	0.3
L	0.30	13	0.10	0.05	2.8	2.0	0.40	1.3	0.44	4.4
M		24.9	0.164			5.08	0.90	5.89	0.89	6.18
N	0.1	7	0.1	0.03	2	2.2	0.4	3.7	0.21	3.4
O	0.023	5.3	0.020	0.005	0.100	0.794	0.091	0.964	0.040	0.100
P	0.0650	2.39	0.058	0.114		1.28	0.215	1.10	0.167	2.33
Q	0.1	44.4	0.10			3.25	0.53	2.65	0.62	9.11
R										3
S										
T	0.27	17	0.22	0.05	2.81	7.02	1.18	5.92	1	6.42
U	0.03	13	0.10	0.06	3.4	1.7	0.51	2.2	0.38	2.3
V						1.77	0.29	2.61	0.57	
W	0.1	4.51		0.12		3.9	0.65	3.2	0.5	7.5
X	0.0638	0.152	0.0191	0.0724	1.367	0.762	0.0415	0.156	0.406	0.805
Y	0.014	0.256		0.013		1.17	0.034	2.28	0.406	7.44
Z			0.03	0.02						

## Results Sample N158B

	pH	Cond.	total-Hardn.	K <sub>S 4.3</sub>	HCO <sub>3</sub> <sup>-</sup>	Ca <sup>2+</sup>	Mg <sup>2+</sup>	Na <sup>+</sup>	K <sup>+</sup>	NO <sub>3</sub> <sup>-</sup>
Unit		µS/cm	mmol/L	mmol/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		435	1.25	1.19	69.5	39.4	6.41	32.5	5.52	73.3
IFA result	6.81	438	1.28	1.18	68.8	40.6	6.38	32.5	5.53	70.2
Stability test										
AA	6.62	417	1.22	1.21	71.0	37.4	7.2	29.69	5.06	71.7
AB						41.6	6.39	36.4	5.65	69.9
AC	6.5	419	1.32	1.16	67.7	42.1	6.66	31.3	5.49	71.1
AD	6.3	438	1.27	1.184	72.2	40.1	6.53	32.2	5.65	71.7
AE		437	13.01	1.14	69.6	41.6	6.37	27.7	5.45	73.6
AF	6.4	421	1.26	1.16	71	40.2	6.3	31.4	5.6	73.1
AG	6.42	435	6.75	1.15	70.2	38.0	6.21	32.3	5.63	70.4
AH		440				39.1	6.45	33.5	5.38	16.4
AI	6.7	437	1.24	1.18	68.9	38.6	6.63	32.5	5.81	71.8
AJ			1.199	1.17	69.19					
AK			1.24			38.9	6.59			
AL	6.3	432.000	1.22	1.17000	71.4000	38.65	6.20	31.85	5.39	73.069
AM	6.72	436	1.25	1.21	71.1	38.9	6.7	32.25	5.45	71.03
AN				1.23	75.05					
AO										
AP	6.84		0.993			39.582	6.444	33.803	5.663	74.257
AQ	6.70	433	1.25	1.16	67.7	39.8	6.23	32.6	5.48	71.1
AR	6.3	434	1.23	1.20	73	38.6	6.3	31.5	5.5	71
AS	6.77	429	1.28	1.14	66.5	40.7	6.48	32.3	5.55	72.7
AT	6.5	435	1.23	1.18	68.7	38.9	6.36	33.0	5.49	73.1
AU	6.30	430	1.19	1.15	70.2	35.8	6.07			76.3
AV				1.17						
AW	6.3	436	1.24	1.19		38.6	6.67	32.3	5.83	71.8
AX	6.4	440	1.27	1.20	71.55	41.0	6.0	33.0	5.0	74.0

### Measurement Uncertainties Sample N158B

	pH ±	Cond. ±	total- Hardn.±	K <sub>S 4.3</sub> ±	HCO <sub>3</sub> ±	Ca <sup>2+</sup> ±	Mg <sup>2+</sup> ±	Na <sup>+</sup> ±	K <sup>+</sup> ±	NO <sub>3</sub> ±
Unit		µS/cm	mmol/L	mmol/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		1	0.02	0.01	0.4	0.6	0.09	0.2	0.04	1.7
IFA result	0.20	6	0.05	0.05	2.8	2.0	0.32	1.6	0.28	3.5
Stability test										
AA		8	0.05	0.06	3.6	1.5	0.4	1.49	0.25	2.2
AB						2.08	0.319	1.82	0.283	3.49
AC	0.1			0.1	0.4	1.5	0.07	1.0	0.06	1.2
AD						0.76	0.08	0.14	0.04	
AE		13		0.06	3.45	5.8	0.5	4.4	0.55	2.9
AF	0.1	17	0.10			2.8	0.5	3.5	0.9	5.1
AG		12.6		0.0242	1.47	1.22	0.202	1.48	0.386	1.97
AH		22				2	0.32	1.7	0.27	1.6
AI	0.1	5	0.1	0.12	7	7.7	1.3	4.9	1.2	7.2
AJ			0.12	0.11	7					
AK			0.037			6.51	0.47			
AL	0.38000	17.3000		0.17600	10.7100	3.865	0.620	3.185	0.539	2.9228
AM										
AN										
AO										
AP						3.958	0.644	3.380	0.566	14.851
AQ	0.20	11	0.12	0.12	6.8	4.0	0.62	3.3	0.55	7.1
AR	0.1	3	0.15	0.10	3	2	1	2	0.5	3
AS	0.20	43	0.13	0.11	6.7	4.1	0.65	3.2	0.55	7.3
AT	0.3	18	0.1	0.1	3	4	0.8	5	0.8	6
AU	0.01	2.2	0.10	0.01	0.61	2.9	0.10			0.45
AV				0.01						
AW	0.1	10	0.25	0.12		7.7	1.3	4.8	1.2	7.2
AX	0.2	9	0.09	0.1	5.7	3.28	0.48	1.98	0.55	3.7

## Results Sample N158B

	<b>NO<sub>2</sub><sup>-</sup></b>	<b>NH<sub>4</sub><sup>+</sup></b>	<b>Cl<sup>-</sup></b>	<b>SO<sub>4</sub><sup>2-</sup></b>	<b>o-PO<sub>4</sub><sup>3-</sup></b>	<b>Boron</b>	<b>DOC</b>	<b>total-P (as PO<sub>4</sub><sup>3-</sup>)</b>	<b>CN<sup>-</sup></b>
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value	0.063	0.070	14.7	62.6	<0.009	0.0244	1.56	<0.009	0.0165
IFA result	0.063	0.071	14.4	61.9	<0.009	0.0230	1.58	<0.009	0.0160
Stability test	0.064	0.069			<0.009		1.63		0.0158
A	0.0645	0.0712	15.02	64.40	<0.015	0.02435	1.69	<0.015	0.0132
B	0.0640	0.0700	14.3	58.8		0.0300		0.0100	
C	0.0630	0.0743	14.7		0.0105			0.0120	
D					<0.05				
E	0.070	0.080	14.7	63.8	0.0200	0.0290	1.55		
F					<0.01			<0.01	
G						0.02271		<0.0300	
H	0.0657	0.070	15.0	62.21	<0.01	0.0270	1.723	<0.01	0.0150
I	0.064	0.080	14.7	62.1	<0.010	0.0250	1.63	<0.010	
J	0.066	0.081	14.5	61.4	<0.015	0.0210	1.74	<0.015	0.0150
K			13.5	58.5					
L	0.066	0.075	15.0	62.7	<0.006	0.0253	1.58	<0.006	0.0141
M	0.060	0.080	15.3	65.9	<0.03	0.0260	1.80	0.153	0.0150
N	0.053	0.063	14.7	64.7			1.74		
O	0.0659	0.0677	14.6	65.5	<0.015	0.0274	1.26	<0.015	0.0119
P	0.0625	0.0618	14.21	61.28	<0.0307	0.01954	4.288	<0.0153	0.0150
Q	0.065	0.070	14.3	63.4	<0.030	0.0250	1.65	<0.015	0.0130
R									
S		0.0746			<0.019		1.540	<0.02	
T	0.0610	0.0761	14.3	61.4	<0.01	0.0243	1.56	<0.05	0.0158
U	0.0678	0.0648	14.7	64.1	<0.015	0.0247	1.57	<0.015	0.0103
V					<0.2	0.0236			
W	0.0643	0.0631	14.672	65.365	<0.0055	0.0267	1.661	<0.001	
X	0.0634	0.0736	15.4	63.4	<0.0150	0.0243	1.622	<0.0049	15.402
Y	0.0620	0.100	14.4	61.3	<0.050	0.0226	1.98	<0.050	0.0162
Z					<0.015				

### Measurement Uncertainties Sample N158B

	<b>NO<sub>2</sub><sup>-</sup> ±</b>	<b>NH<sub>4</sub><sup>+</sup> ±</b>	<b>Cl<sup>-</sup> ±</b>	<b>SO<sub>4</sub><sup>2-</sup> ±</b>	<b>o-PO<sub>4</sub><sup>3-</sup> ±</b>	<b>Boron ±</b>	<b>DOC ±</b>	<b>total-P (as PO<sub>4</sub><sup>3-</sup>) ±</b>	<b>CN<sup>-</sup> ±</b>
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Target value	0.003	0.003	0.3	0.4		0.0001	0.01		0.0001
IFA result	0.003	0.002	0.6	1.2		0.0018	0.09		0.0014
Stability test	0.003	0.002					0.10		0.0014
A	0.0069	0.0191	0.56	3.02		0.0052	0.19		0.0040
B	0.01	0.01	1	1.5		0.01		0.05	
C	0.0063	0.0112	0.15		0.0012			0.0016	
D					0.005				
E									
F									
G									
H	0.0066	0.007	1.5	6.22		0.003	0.312		0.002
I	0.006	0.01	1.4	5.7		0.0031	0.41		
J	0.003	0.006	1.1	3.7	0.002	0.004	0.21	0.002	0.001
K			0.1	0.1					
L	0.005	0.007	0.8	3.8		0.0025	0.16		0.005
M	0.006	0.018	1.28	4.25	0.01	0.001	0.34	0.0246	0.0015
N	0.008	0.015	1	4.2			0.36		
O	0.0001	0.001	0.058	0.364		0.001	0.087		0.0004
P	0.00365	0.00356	0.307	1.55	0.00066	0.00115	0.304	0.00034	0.00337
Q	0.013	0.011	1.3	6.3		0.005	0.38		
R									
S		0.01820					0.505		
T	0.005	0.007	1.29	5.53		0.004	0.14		0.001
U	0.007	0.005	1.0	2.1		0.003	0.25		0.002
V						0.005			
W	0.0064	0.0063	1.5	6.5		0.003	0.17		
X	0.00102	0.00233	0.480	0.618		0.00117	0.0826		0.594
Y	0.0034	0.0044	1.33	6.31		0.0007	0.0095		0.00153
Z									

## Results Sample N158B

	<b>NO<sub>2</sub><sup>-</sup></b>	<b>NH<sub>4</sub><sup>+</sup></b>	<b>Cl<sup>-</sup></b>	<b>SO<sub>4</sub><sup>2-</sup></b>	<b>o-PO<sub>4</sub><sup>3-</sup></b>	<b>Boron</b>	<b>DOC</b>	<b>total-P (as PO<sub>4</sub><sup>3-</sup>)</b>	<b>CN<sup>-</sup></b>
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value	0.063	0.070	14.7	62.6	<0.009	0.0244	1.56	<0.009	0.0165
IFA result	0.063	0.071	14.4	61.9	<0.009	0.0230	1.58	<0.009	0.0160
Stability test	0.064	0.069			<0.009		1.63		0.0158
AA	0.066	0.074	14.5	63.3	<0.020	<0.050	1.51	<0.031	
AB			12.62	61.0					
AC	0.0698	0.0730	15.1	63.7	0.0104	0.0227	1.60	<0.03	
AD	0.0631		14.9	63.4		0.0257		<0.05	
AE	0.0656	0.0667	13.7	62.7		0.0268	1.65		
AF	0.0619	0.074	14.6	63.3	<0.06	0.0252	1.61	<0.06	0.0130
AG	0.0631	0.0552	14.0	60.8	<0.01	<0.05	1.60	<0.016	0.0237
AH		0.061	14.9	63.5		0.0199			12.6
AI	0.0640	0.0686	14.3	63.0	<0.015	<0.020	1.62	<0.015	
AJ					<0.031		1.65		
AK	0.074				<0.01				
AL	0.06600	0.07600	14.80	65.08	0.00900	0.02800	1.600	<0.0153	17.7600
AM	0.0660	0.0660	14.02	61.26	<0.009		1.64	<0.009	
AN					<0.096				
AO									
AP			15.358	65.026					
AQ	0.0702	0.0722	15.3	63.2	<0.02	0.0236	1.69	<0.05	0.0130
AR	0.062	0.077	14.4	62		0.0378	1.54	0.0198	0.0180
AS	0.0694	0.0696	14.9	62.5	<0.008	0.0228	1.49	<0.015	0.0150
AT	0.062	0.072	14.8	62.8	<0.01		1.59	<0.013	
AU			15.0	62.2		0.0276	1.75	<0.005	0.0300
AV									
AW	0.0640	0.0684	14.2	62.9	<0.015	<0.020		<0.015	0.0162
AX	0.063	0.0780	15.0	64.0	<0.009	0.0200	1.70	<0.009	

### Measurement Uncertainties Sample N158B

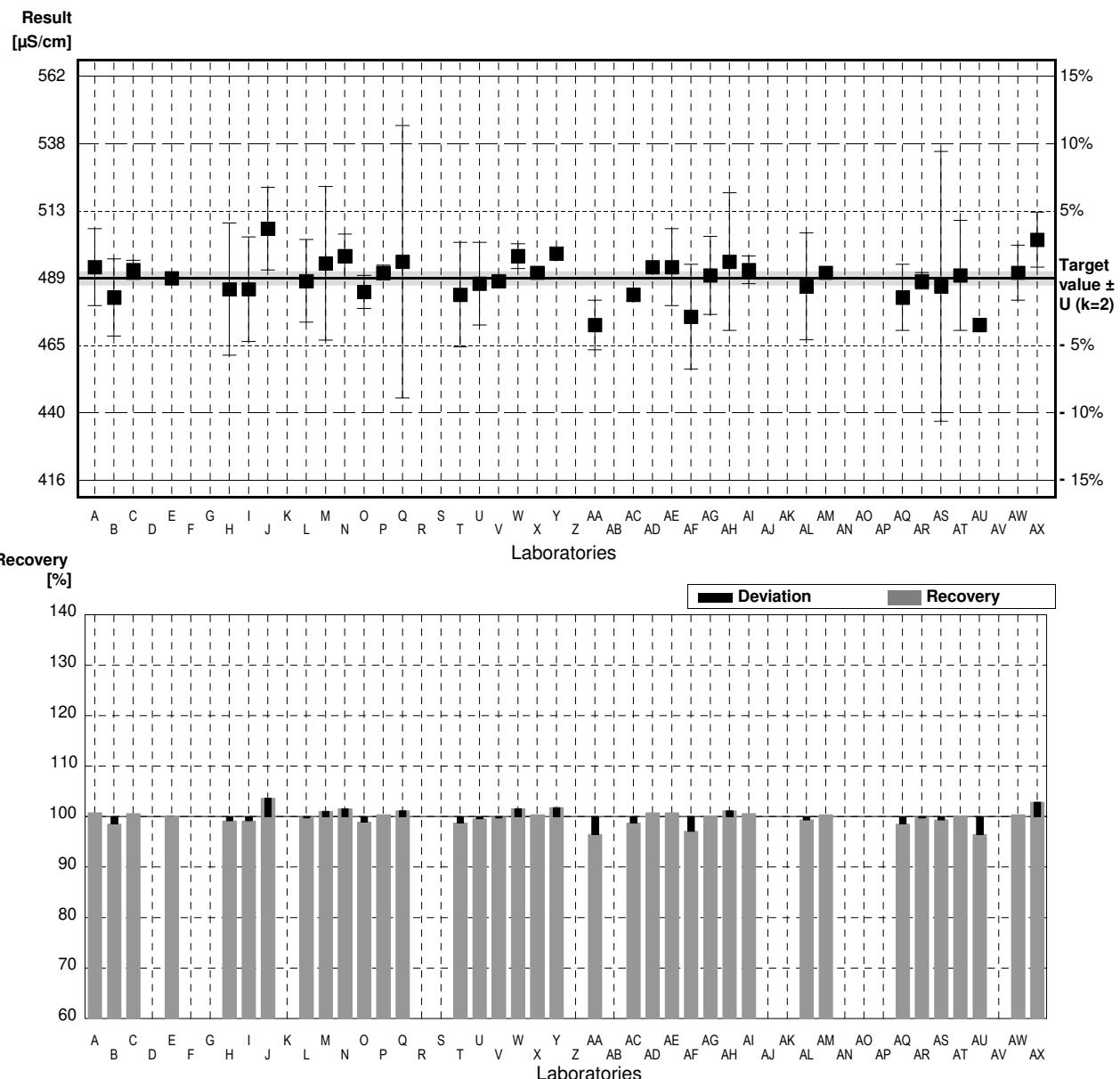
	$\text{NO}_2^-$ ±	$\text{NH}_4^+$ ±	$\text{Cl}^-$ ±	$\text{SO}_4^{2-}$ ±	$\text{o-PO}_4^{3-}$ ±	Boron ±	DOC ±	total-P (as $\text{PO}_4^{3-}$ ) ±	$\text{CN}^-$ ±
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Target value	0.003	0.003	0.3	0.4		0.0001	0.01		0.0001
IFA result	0.003	0.002	0.6	1.2		0.0018	0.09		0.0014
Stability test	0.003	0.002					0.10		0.0014
AA	0.007	0.007	0.4	1.9			0.15		
AB			0.631	3.05					
AC	0.001	0.002	0.5	0.1	0.003	0.0027	0.03		
AD						0.0002			
AE	0.013	0.007	3.4	3.8		0.0067	0.41		
AF	0.01	0.01	0.7	3.8		0.004	0.16		
AG	0.0039	0.010	0.274	1.58			0.670		0.0040
AH		0.006	1.5	6.3		0.0010			1.5
AI	0.0153	0.0121	1.4	6.3			0.16		
AJ							0.15		
AK	0.011								
AL	0.00530	0.00760	0.740	3.254	0.00110	0.00340	0.13000		1.77600
AM									
AN									
AO									
AP			2.304	13.005					
AQ	0.0070	0.0072	1.5	6.3		0.0024	0.17		0.0013
AR	0.01	0.01	2	3		0.01	0.2	0.02	0.01
AS	0.0069	0.0070	1.5	6.3		0.0023	0.15		0.0015
AT	0.005	0.011	0.9	5			0.3		
AU			0.11	1.12		0.0033	0.08	0.002	0.008
AV									
AW	0.013	0.014	1.5	6.5					0.005
AX	0.008	0.020	1.20	3.84		0.0034	0.425		

## Sample N158A

### Parameter Conductivity

Target value  $\pm U$  ( $k=2$ )      489  $\mu\text{S}/\text{cm}$   $\pm$       2  $\mu\text{S}/\text{cm}$   
 IFA result  $\pm U$  ( $k=2$ )      492  $\mu\text{S}/\text{cm}$   $\pm$       7  $\mu\text{S}/\text{cm}$

Stability test					
Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	493	14	$\mu\text{S}/\text{cm}$	101%	0,63
B	482	14,0	$\mu\text{S}/\text{cm}$	99%	-1,10
C	492	3,48	$\mu\text{S}/\text{cm}$	101%	0,47
D			$\mu\text{S}/\text{cm}$		
E	489		$\mu\text{S}/\text{cm}$	100%	0,00
F			$\mu\text{S}/\text{cm}$		
G			$\mu\text{S}/\text{cm}$		
H	485	24	$\mu\text{S}/\text{cm}$	99%	-0,63
I	485	19	$\mu\text{S}/\text{cm}$	99%	-0,63
J	507	15	$\mu\text{S}/\text{cm}$	104%	2,83
K			$\mu\text{S}/\text{cm}$		
L	488	15	$\mu\text{S}/\text{cm}$	100%	-0,16
M	494,4	27,9	$\mu\text{S}/\text{cm}$	101%	0,85
N	497	8	$\mu\text{S}/\text{cm}$	102%	1,26
O	484	6,0	$\mu\text{S}/\text{cm}$	99%	-0,79
P	491	2,70	$\mu\text{S}/\text{cm}$	100%	0,31
Q	495	49,5	$\mu\text{S}/\text{cm}$	101%	0,94
R			$\mu\text{S}/\text{cm}$		
S			$\mu\text{S}/\text{cm}$		
T	483	19	$\mu\text{S}/\text{cm}$	99%	-0,94
U	487	15	$\mu\text{S}/\text{cm}$	100%	-0,31
V	488		$\mu\text{S}/\text{cm}$	100%	-0,16
W	497	4,51	$\mu\text{S}/\text{cm}$	102%	1,26
X	491	0,226	$\mu\text{S}/\text{cm}$	100%	0,31
Y	498	0,225	$\mu\text{S}/\text{cm}$	102%	1,42
Z			$\mu\text{S}/\text{cm}$		
AA	472	9	$\mu\text{S}/\text{cm}$	97%	-2,67
AB			$\mu\text{S}/\text{cm}$		
AC	483	2,3	$\mu\text{S}/\text{cm}$	99%	-0,94
AD	493		$\mu\text{S}/\text{cm}$	101%	0,63
AE	493	14	$\mu\text{S}/\text{cm}$	101%	0,63
AF	475	19	$\mu\text{S}/\text{cm}$	97%	-2,20
AG	490	14,2	$\mu\text{S}/\text{cm}$	100%	0,16
AH	495	25	$\mu\text{S}/\text{cm}$	101%	0,94
AI	492	5	$\mu\text{S}/\text{cm}$	101%	0,47
AJ			$\mu\text{S}/\text{cm}$		
AK			$\mu\text{S}/\text{cm}$		
AL	486,000	19,4000	$\mu\text{S}/\text{cm}$	99%	-0,47
AM	491		$\mu\text{S}/\text{cm}$	100%	0,31
AN			$\mu\text{S}/\text{cm}$		
AO			$\mu\text{S}/\text{cm}$		



AP			$\mu\text{S}/\text{cm}$		
AQ	482	12	$\mu\text{S}/\text{cm}$	99%	-1,10
AR	488	3	$\mu\text{S}/\text{cm}$	100%	-0,16
AS	486	49	$\mu\text{S}/\text{cm}$	99%	-0,47
AT	490	20	$\mu\text{S}/\text{cm}$	100%	0,16
AU	472	2,4	$\mu\text{S}/\text{cm}$	97%	-2,67
AV			$\mu\text{S}/\text{cm}$		
AW	491	10	$\mu\text{S}/\text{cm}$	100%	0,31
AX	503	10	$\mu\text{S}/\text{cm}$	103%	2,20

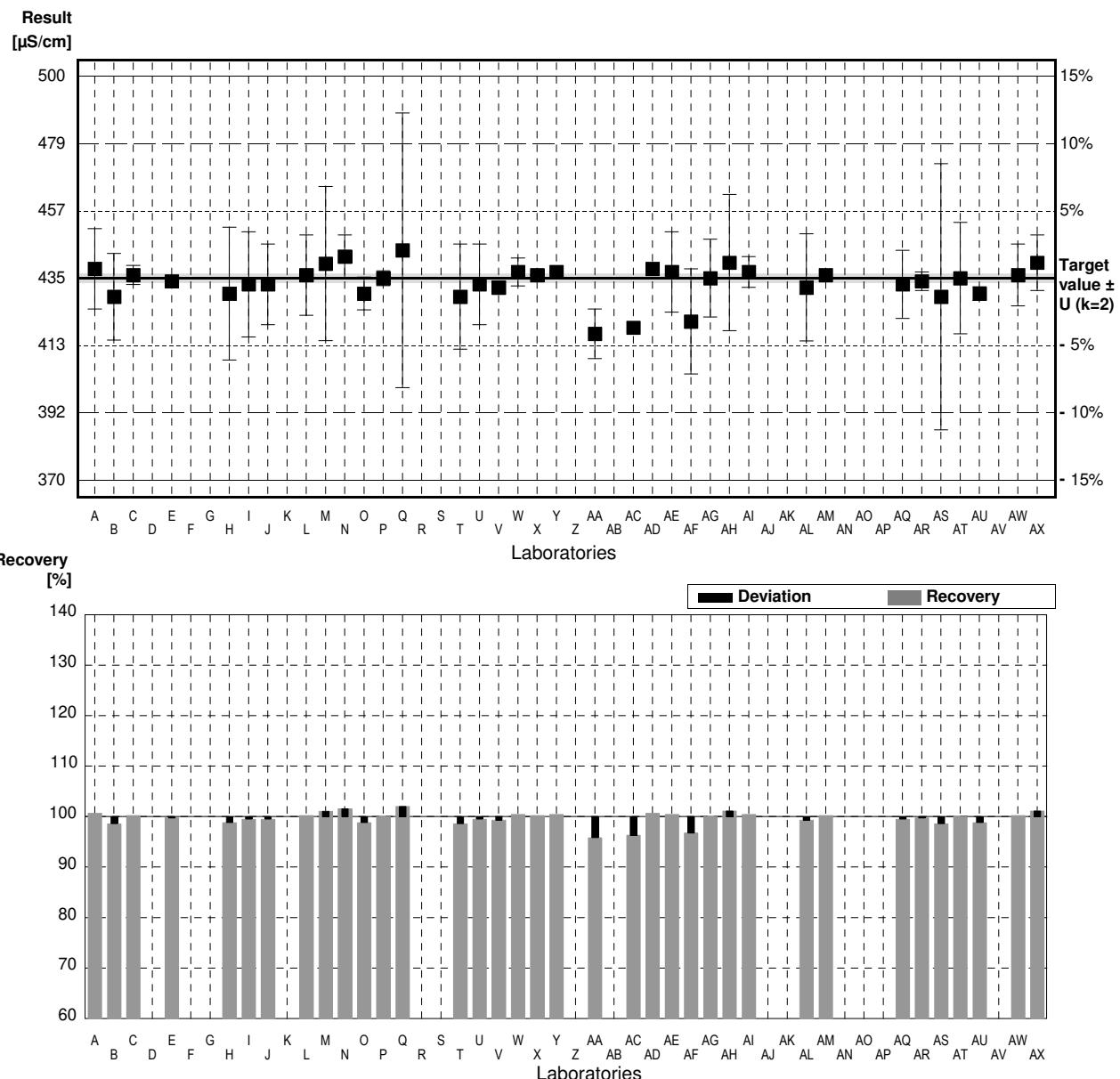
	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	489 $\pm$ 3	489 $\pm$ 3	$\mu\text{S}/\text{cm}$
Recov. $\pm$ CI(99%)	100,0 $\pm$ 0,7	100,0 $\pm$ 0,7	%
SD between labs	7	7	$\mu\text{S}/\text{cm}$
RSD between labs	1,5	1,5	%
n for calculation	36	36	

# Sample N158B

## Parameter Conductivity

Target value  $\pm U$  ( $k=2$ )      435  $\mu\text{S}/\text{cm}$   $\pm$       1  $\mu\text{S}/\text{cm}$   
 IFA result  $\pm U$  ( $k=2$ )      438  $\mu\text{S}/\text{cm}$   $\pm$       6  $\mu\text{S}/\text{cm}$

Stability test					
Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	438	13	$\mu\text{S}/\text{cm}$	101%	0,53
B	429	14,0	$\mu\text{S}/\text{cm}$	99%	-1,06
C	436	3,09	$\mu\text{S}/\text{cm}$	100%	0,18
D			$\mu\text{S}/\text{cm}$		
E	434		$\mu\text{S}/\text{cm}$	100%	-0,18
F			$\mu\text{S}/\text{cm}$		
G			$\mu\text{S}/\text{cm}$		
H	430	21,5	$\mu\text{S}/\text{cm}$	99%	-0,88
I	433	17	$\mu\text{S}/\text{cm}$	100%	-0,35
J	433	13	$\mu\text{S}/\text{cm}$	100%	-0,35
K			$\mu\text{S}/\text{cm}$		
L	436	13	$\mu\text{S}/\text{cm}$	100%	0,18
M	439,7	24,9	$\mu\text{S}/\text{cm}$	101%	0,83
N	442	7	$\mu\text{S}/\text{cm}$	102%	1,24
O	430	5,3	$\mu\text{S}/\text{cm}$	99%	-0,88
P	435	2,39	$\mu\text{S}/\text{cm}$	100%	0,00
Q	444	44,4	$\mu\text{S}/\text{cm}$	102%	1,59
R			$\mu\text{S}/\text{cm}$		
S			$\mu\text{S}/\text{cm}$		
T	429	17	$\mu\text{S}/\text{cm}$	99%	-1,06
U	433	13	$\mu\text{S}/\text{cm}$	100%	-0,35
V	432		$\mu\text{S}/\text{cm}$	99%	-0,53
W	437	4,51	$\mu\text{S}/\text{cm}$	100%	0,35
X	436	0,152	$\mu\text{S}/\text{cm}$	100%	0,18
Y	437	0,256	$\mu\text{S}/\text{cm}$	100%	0,35
Z			$\mu\text{S}/\text{cm}$		
AA	417 *	8	$\mu\text{S}/\text{cm}$	96%	-3,18
AB			$\mu\text{S}/\text{cm}$		
AC	419 *		$\mu\text{S}/\text{cm}$	96%	-2,83
AD	438		$\mu\text{S}/\text{cm}$	101%	0,53
AE	437	13	$\mu\text{S}/\text{cm}$	100%	0,35
AF	421 *	17	$\mu\text{S}/\text{cm}$	97%	-2,48
AG	435	12,6	$\mu\text{S}/\text{cm}$	100%	0,00
AH	440	22	$\mu\text{S}/\text{cm}$	101%	0,88
AI	437	5	$\mu\text{S}/\text{cm}$	100%	0,35
AJ			$\mu\text{S}/\text{cm}$		
AK			$\mu\text{S}/\text{cm}$		
AL	432,000	17,3000	$\mu\text{S}/\text{cm}$	99%	-0,53
AM	436		$\mu\text{S}/\text{cm}$	100%	0,18
AN			$\mu\text{S}/\text{cm}$		
AO			$\mu\text{S}/\text{cm}$		



AP			$\mu\text{S}/\text{cm}$		
AQ	433	11	$\mu\text{S}/\text{cm}$	100%	-0,35
AR	434	3	$\mu\text{S}/\text{cm}$	100%	-0,18
AS	429	43	$\mu\text{S}/\text{cm}$	99%	-1,06
AT	435	18	$\mu\text{S}/\text{cm}$	100%	0,00
AU	430	2,2	$\mu\text{S}/\text{cm}$	99%	-0,88
AV			$\mu\text{S}/\text{cm}$		
AW	436	10	$\mu\text{S}/\text{cm}$	100%	0,18
AX	440	9	$\mu\text{S}/\text{cm}$	101%	0,88

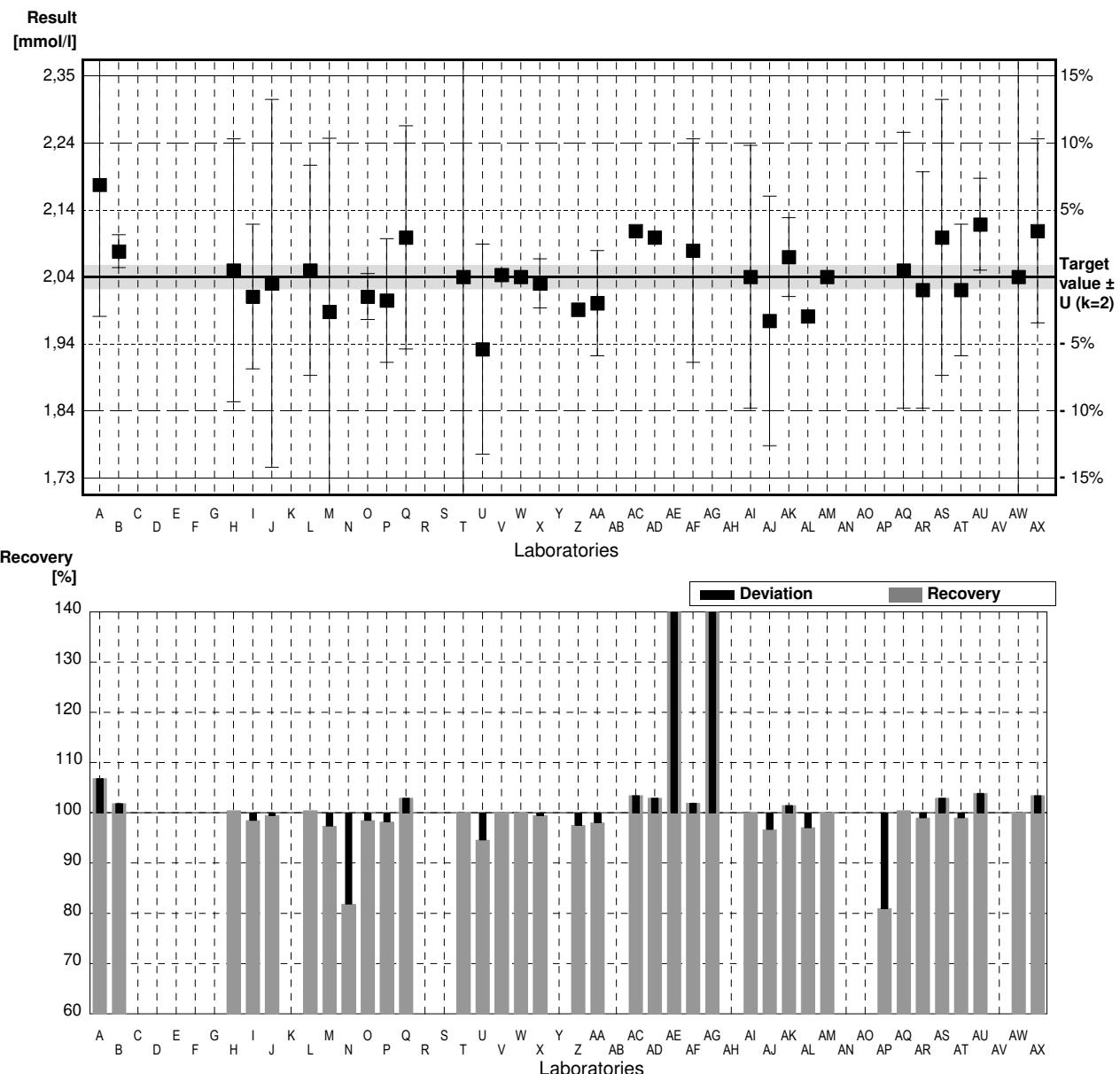
	All results	Outliers excl.	Unit
Mean $\pm$ CI(99%)	434 $\pm$ 3	435 $\pm$ 2	$\mu\text{S}/\text{cm}$
Recov. $\pm$ CI(99%)	99,7 $\pm$ 0,6	100,0 $\pm$ 0,4	%
SD between labs	6	4	$\mu\text{S}/\text{cm}$
RSD between labs	1,3	0,9	%
n for calculation	36	33	

## Sample N158A

### Parameter Total hardness

Target value  $\pm U$  ( $k=2$ ) 2,04 mmol/l  $\pm$  0,02 mmol/l  
 IFA result  $\pm U$  ( $k=2$ ) 2,11 mmol/l  $\pm$  0,08 mmol/l

Stability test					
Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	2,18	0,2	mmol/l	107%	2,37
B	2,079	0,025	mmol/l	102%	0,66
C			mmol/l		
D			mmol/l		
E			mmol/l		
F			mmol/l		
G			mmol/l		
H	2,05	0,2	mmol/l	100%	0,17
I	2,01	0,11	mmol/l	99%	-0,51
J	2,03	0,28	mmol/l	100%	-0,17
K			mmol/l		
L	2,05	0,16	mmol/l	100%	0,17
M	1,987	0,264	mmol/l	97%	-0,90
N	1,67 *	0,14	mmol/l	82%	-6,25
O	2,01	0,035	mmol/l	99%	-0,51
P	2,004	0,094	mmol/l	98%	-0,61
Q	2,10	0,17	mmol/l	103%	1,01
R			mmol/l		
S			mmol/l		
T	2,04	0,37	mmol/l	100%	0,00
U	1,93	0,16	mmol/l	95%	-1,86
V	2,043		mmol/l	100%	0,05
W	2,04		mmol/l	100%	0,00
X	2,03	0,0374	mmol/l	100%	-0,17
Y			mmol/l		
Z	1,99	0,01	mmol/l	98%	-0,85
AA	2,00	0,08	mmol/l	98%	-0,68
AB			mmol/l		
AC	2,11		mmol/l	103%	1,18
AD	2,10		mmol/l	103%	1,01
AE	20,4 *		mmol/l	1000%	310,34
AF	2,08	0,17	mmol/l	102%	0,68
AG	10,9 *		mmol/l	534%	149,76
AH			mmol/l		
AI	2,04	0,2	mmol/l	100%	0,00
AJ	1,973	0,19	mmol/l	97%	-1,13
AK	2,07	0,060	mmol/l	101%	0,51
AL	1,98		mmol/l	97%	-1,01
AM	2,04		mmol/l	100%	0,00
AN			mmol/l		
AO			mmol/l		



AP	1,652 *		mmol/l	81%	-6,56
AQ	2,05	0,21	mmol/l	100%	0,17
AR	2,02	0,18	mmol/l	99%	-0,34
AS	2,10	0,21	mmol/l	103%	1,01
AT	2,02	0,1	mmol/l	99%	-0,34
AU	2,12	0,07	mmol/l	104%	1,35
AV			mmol/l		
AW	2,04	0,41	mmol/l	100%	0,00
AX	2,11	0,14	mmol/l	103%	1,18

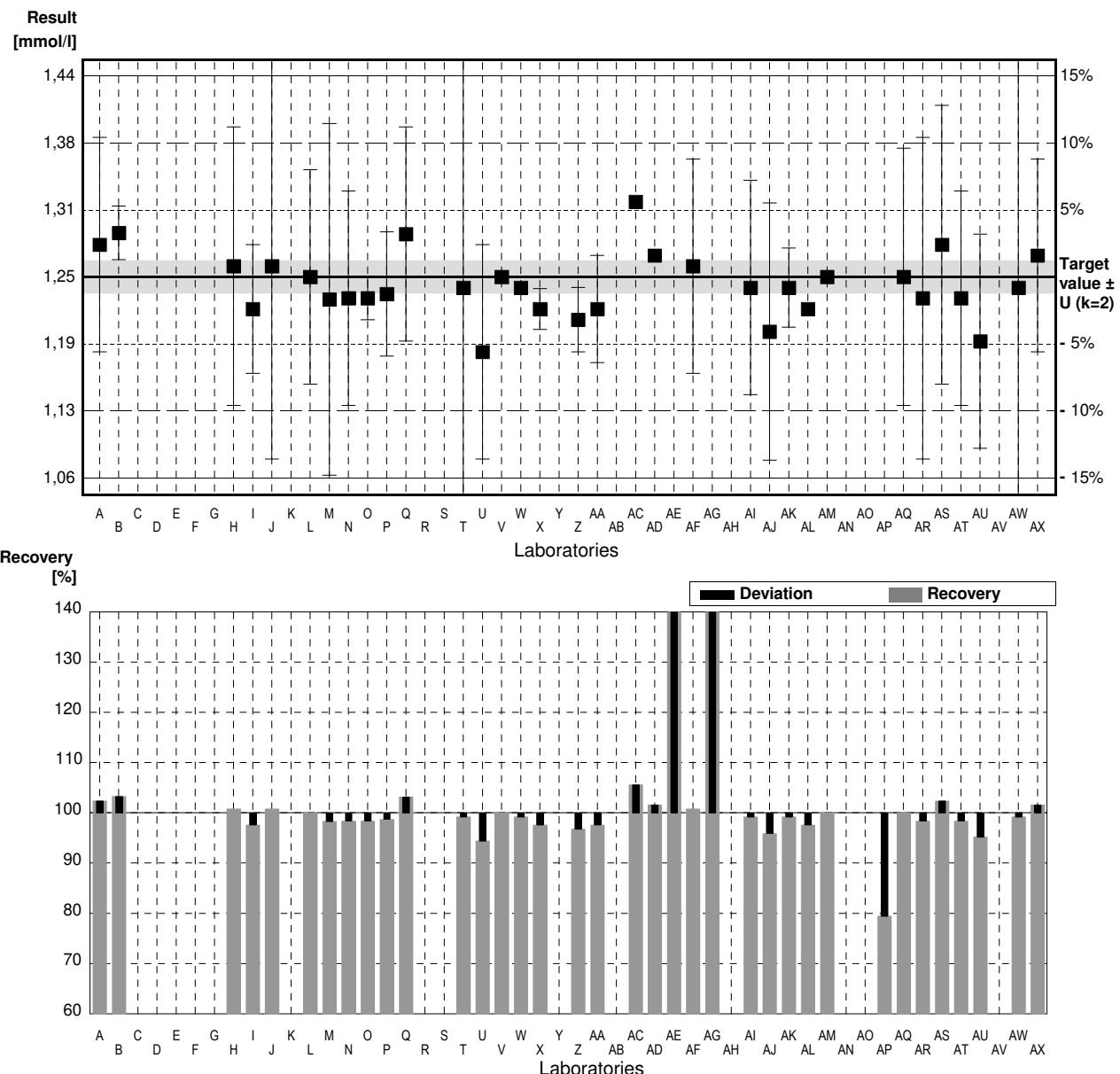
	All results	Outliers excl.	Unit
Mean ± CI(99%)	2,78 ± 1,53	2,04 ± 0,02	mmol/l
Recov. ± CI(99%)	136,2 ± 75,1	100,2 ± 1,2	%
SD between labs	3,36	0,05	mmol/l
RSD between labs	121,1	2,5	%
n for calculation	36	32	

## Sample N158B

### Parameter Total hardness

Target value  $\pm U$  ( $k=2$ ) 1,25 mmol/l  $\pm$  0,02 mmol/l  
 IFA result  $\pm U$  ( $k=2$ ) 1,28 mmol/l  $\pm$  0,05 mmol/l

Stability test					
Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	1,28	0,1	mmol/l	102%	0,83
B	1,291	0,025	mmol/l	103%	1,13
C			mmol/l		
D			mmol/l		
E			mmol/l		
F			mmol/l		
G			mmol/l		
H	1,26	0,13	mmol/l	101%	0,28
I	1,22	0,06	mmol/l	98%	-0,83
J	1,26	0,18	mmol/l	101%	0,28
K			mmol/l		
L	1,25	0,10	mmol/l	100%	0,00
M	1,229	0,164	mmol/l	98%	-0,58
N	1,23	0,1	mmol/l	98%	-0,55
O	1,23	0,020	mmol/l	98%	-0,55
P	1,234	0,058	mmol/l	99%	-0,44
Q	1,29	0,10	mmol/l	103%	1,10
R			mmol/l		
S			mmol/l		
T	1,24	0,22	mmol/l	99%	-0,28
U	1,18	0,10	mmol/l	94%	-1,93
V	1,250		mmol/l	100%	0,00
W	1,24		mmol/l	99%	-0,28
X	1,22	0,0191	mmol/l	98%	-0,83
Y			mmol/l		
Z	1,21	0,03	mmol/l	97%	-1,10
AA	1,22	0,05	mmol/l	98%	-0,83
AB			mmol/l		
AC	1,32		mmol/l	106%	1,93
AD	1,27		mmol/l	102%	0,55
AE	13,01 *		mmol/l	1041%	324,41
AF	1,26	0,10	mmol/l	101%	0,28
AG	6,75 *		mmol/l	540%	151,72
AH			mmol/l		
AI	1,24	0,1	mmol/l	99%	-0,28
AJ	1,199	0,12	mmol/l	96%	-1,41
AK	1,24	0,037	mmol/l	99%	-0,28
AL	1,22		mmol/l	98%	-0,83
AM	1,25		mmol/l	100%	0,00
AN			mmol/l		
AO			mmol/l		



AP	0,993 *		mmol/l	79%	-7,09
AQ	1,25	0,12	mmol/l	100%	0,00
AR	1,23	0,15	mmol/l	98%	-0,55
AS	1,28	0,13	mmol/l	102%	0,83
AT	1,23	0,1	mmol/l	98%	-0,55
AU	1,19	0,10	mmol/l	95%	-1,66
AV			mmol/l		
AW	1,24	0,25	mmol/l	99%	-0,28
AX	1,27	0,09	mmol/l	102%	0,55

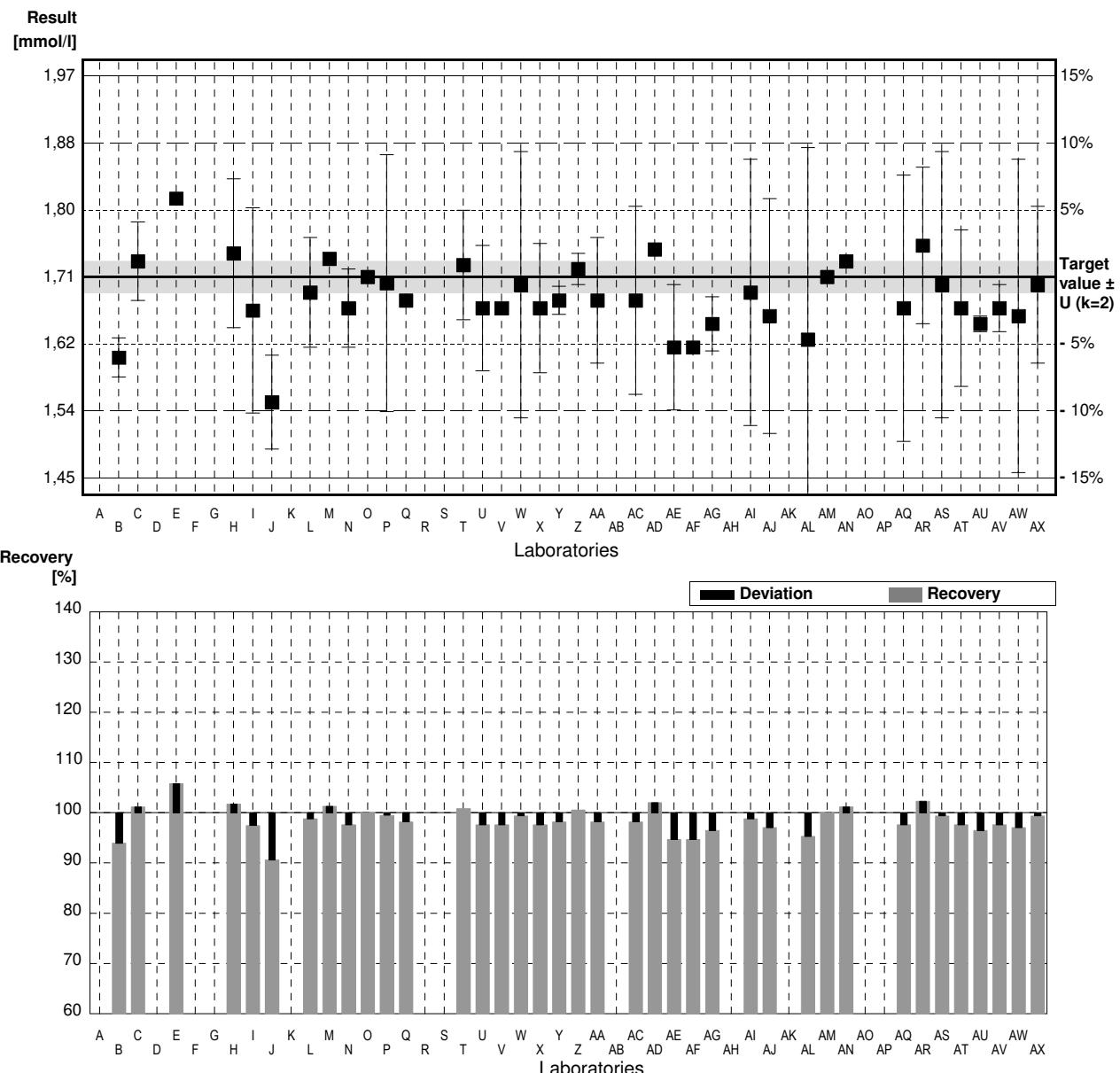
	All results	Outliers excl.	Unit
Mean ± CI(99%)	1,72 ± 0,98	1,24 ± 0,01	mmol/l
Recov. ± CI(99%)	137,3 ± 78,0	99,4 ± 1,1	%
SD between labs	2,14	0,03	mmol/l
RSD between labs	124,9	2,4	%
n for calculation	36	33	

## Sample N158A

### Parameter Alkalinity

Target value  $\pm U$  ( $k=2$ ) 1,71 mmol/l  $\pm$  0,02 mmol/l  
 IFA result  $\pm U$  ( $k=2$ ) 1,67 mmol/l  $\pm$  0,07 mmol/l

Stability test					
Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A			mmol/l		
B	1,607	0,025	mmol/l	94%	-3,01
C	1,73	0,05	mmol/l	101%	0,58
D			mmol/l		
E	1,81 *		mmol/l	106%	2,92
F			mmol/l		
G			mmol/l		
H	1,74	0,095	mmol/l	102%	0,88
I	1,667	0,131	mmol/l	97%	-1,26
J	1,55 *	0,06	mmol/l	91%	-4,68
K			mmol/l		
L	1,69	0,07	mmol/l	99%	-0,58
M	1,733		mmol/l	101%	0,67
N	1,67	0,05	mmol/l	98%	-1,17
O	1,71	0,006	mmol/l	100%	0,00
P	1,702	0,164	mmol/l	100%	-0,23
Q	1,68		mmol/l	98%	-0,88
R			mmol/l		
S			mmol/l		
T	1,725	0,07	mmol/l	101%	0,44
U	1,67	0,08	mmol/l	98%	-1,17
V	1,67		mmol/l	98%	-1,17
W	1,70	0,17	mmol/l	99%	-0,29
X	1,67	0,0825	mmol/l	98%	-1,17
Y	1,68	0,018	mmol/l	98%	-0,88
Z	1,72	0,02	mmol/l	101%	0,29
AA	1,68	0,08	mmol/l	98%	-0,88
AB			mmol/l		
AC	1,68	0,12	mmol/l	98%	-0,88
AD	1,745		mmol/l	102%	1,02
AE	1,62	0,08	mmol/l	95%	-2,63
AF	1,62		mmol/l	95%	-2,63
AG	1,65	0,0346	mmol/l	96%	-1,75
AH			mmol/l		
AI	1,69	0,17	mmol/l	99%	-0,58
AJ	1,66	0,15	mmol/l	97%	-1,46
AK			mmol/l		
AL	1,6300	0,24500	mmol/l	95%	-2,34
AM	1,71		mmol/l	100%	0,00
AN	1,73		mmol/l	101%	0,58
AO			mmol/l		



AP			mmol/l		
AQ	1,67	0,17	mmol/l	98%	-1,17
AR	1,75	0,10	mmol/l	102%	1,17
AS	1,70	0,17	mmol/l	99%	-0,29
AT	1,67	0,1	mmol/l	98%	-1,17
AU	1,65	0,01	mmol/l	96%	-1,75
AV	1,67	0,03	mmol/l	98%	-1,17
AW	1,66	0,2	mmol/l	97%	-1,46
AX	1,70	0,1	mmol/l	99%	-0,29

	All results	Outliers excl.	Unit
Mean ± CI(99%)	1,68 ± 0,02	1,68 ± 0,02	mmol/l
Recov. ± CI(99%)	98,5 ± 1,2	98,5 ± 1,0	%
SD between labs	0,05	0,04	mmol/l
RSD between labs	2,7	2,1	%
n for calculation	38	36	

## Sample N158B

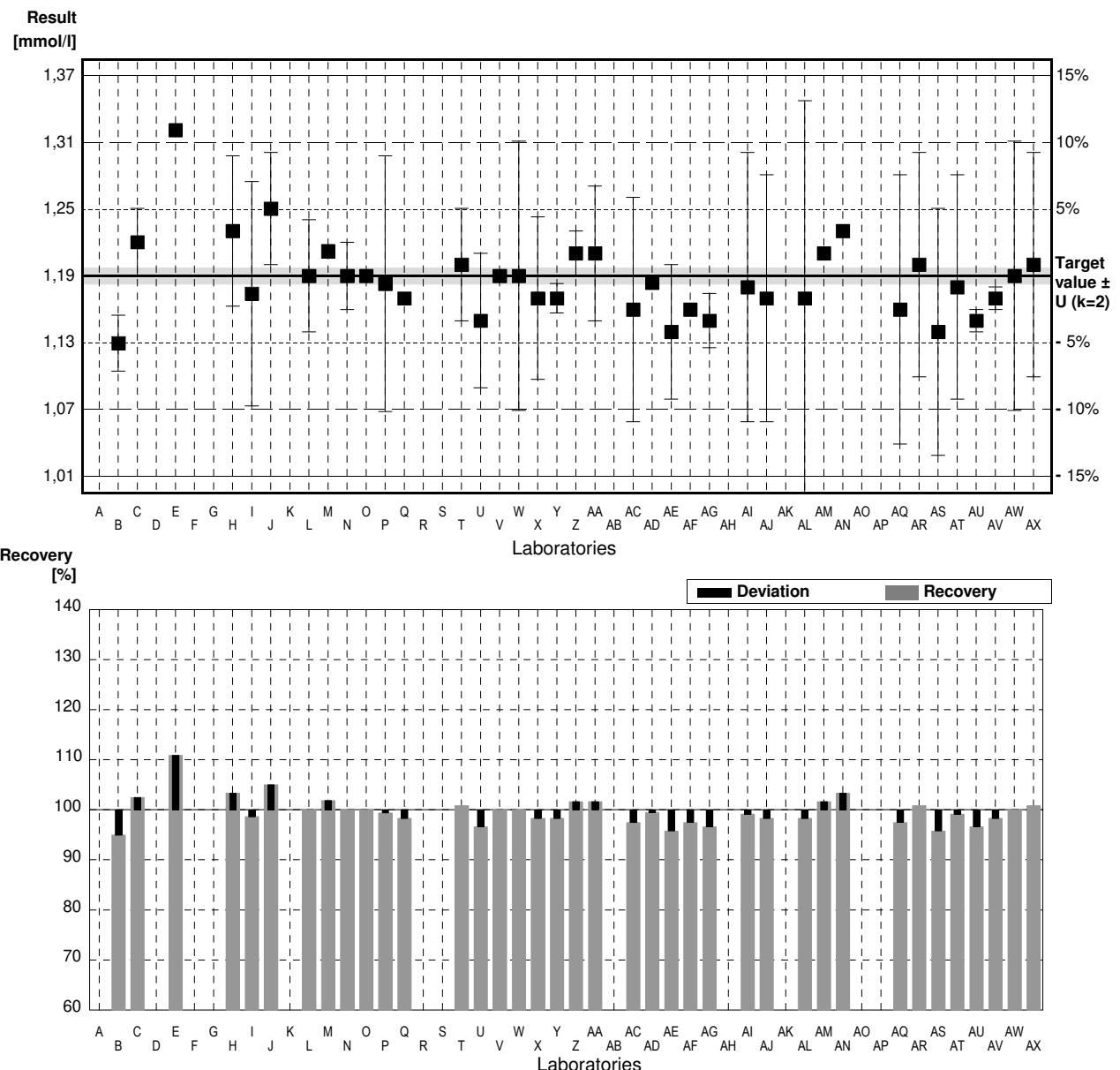
### Parameter Alkalinity

Target value  $\pm U$  ( $k=2$ ) 1,19 mmol/l  $\pm$  0,01 mmol/l

IFA result  $\pm U$  ( $k=2$ ) 1,18 mmol/l  $\pm$  0,05 mmol/l

#### Stability test

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A			mmol/l		
B	1,130	0,025	mmol/l	95%	-2,52
C	1,22	0,03	mmol/l	103%	1,26
D			mmol/l		
E	1,32 *		mmol/l	111%	5,46
F			mmol/l		
G			mmol/l		
H	1,23	0,067	mmol/l	103%	1,68
I	1,174	0,100	mmol/l	99%	-0,67
J	1,25	0,05	mmol/l	105%	2,52
K			mmol/l		
L	1,19	0,05	mmol/l	100%	0,00
M	1,212		mmol/l	102%	0,92
N	1,19	0,03	mmol/l	100%	0,00
O	1,19	0,005	mmol/l	100%	0,00
P	1,183	0,114	mmol/l	99%	-0,29
Q	1,17		mmol/l	98%	-0,84
R			mmol/l		
S			mmol/l		
T	1,20	0,05	mmol/l	101%	0,42
U	1,15	0,06	mmol/l	97%	-1,68
V	1,19		mmol/l	100%	0,00
W	1,19	0,12	mmol/l	100%	0,00
X	1,17	0,0724	mmol/l	98%	-0,84
Y	1,17	0,013	mmol/l	98%	-0,84
Z	1,21	0,02	mmol/l	102%	0,84
AA	1,21	0,06	mmol/l	102%	0,84
AB			mmol/l		
AC	1,16	0,1	mmol/l	97%	-1,26
AD	1,184		mmol/l	99%	-0,25
AE	1,14	0,06	mmol/l	96%	-2,10
AF	1,16		mmol/l	97%	-1,26
AG	1,15	0,0242	mmol/l	97%	-1,68
AH			mmol/l		
AI	1,18	0,12	mmol/l	99%	-0,42
AJ	1,17	0,11	mmol/l	98%	-0,84
AK			mmol/l		
AL	1,17000	0,17600	mmol/l	98%	-0,84
AM	1,21		mmol/l	102%	0,84
AN	1,23		mmol/l	103%	1,68
AO			mmol/l		



AP			mmol/l		
AQ	1,16	0,12	mmol/l	97%	-1,26
AR	1,20	0,10	mmol/l	101%	0,42
AS	1,14	0,11	mmol/l	96%	-2,10
AT	1,18	0,1	mmol/l	99%	-0,42
AU	1,15	0,01	mmol/l	97%	-1,68
AV	1,17	0,01	mmol/l	98%	-0,84
AW	1,19	0,12	mmol/l	100%	0,00
AX	1,20	0,1	mmol/l	101%	0,42

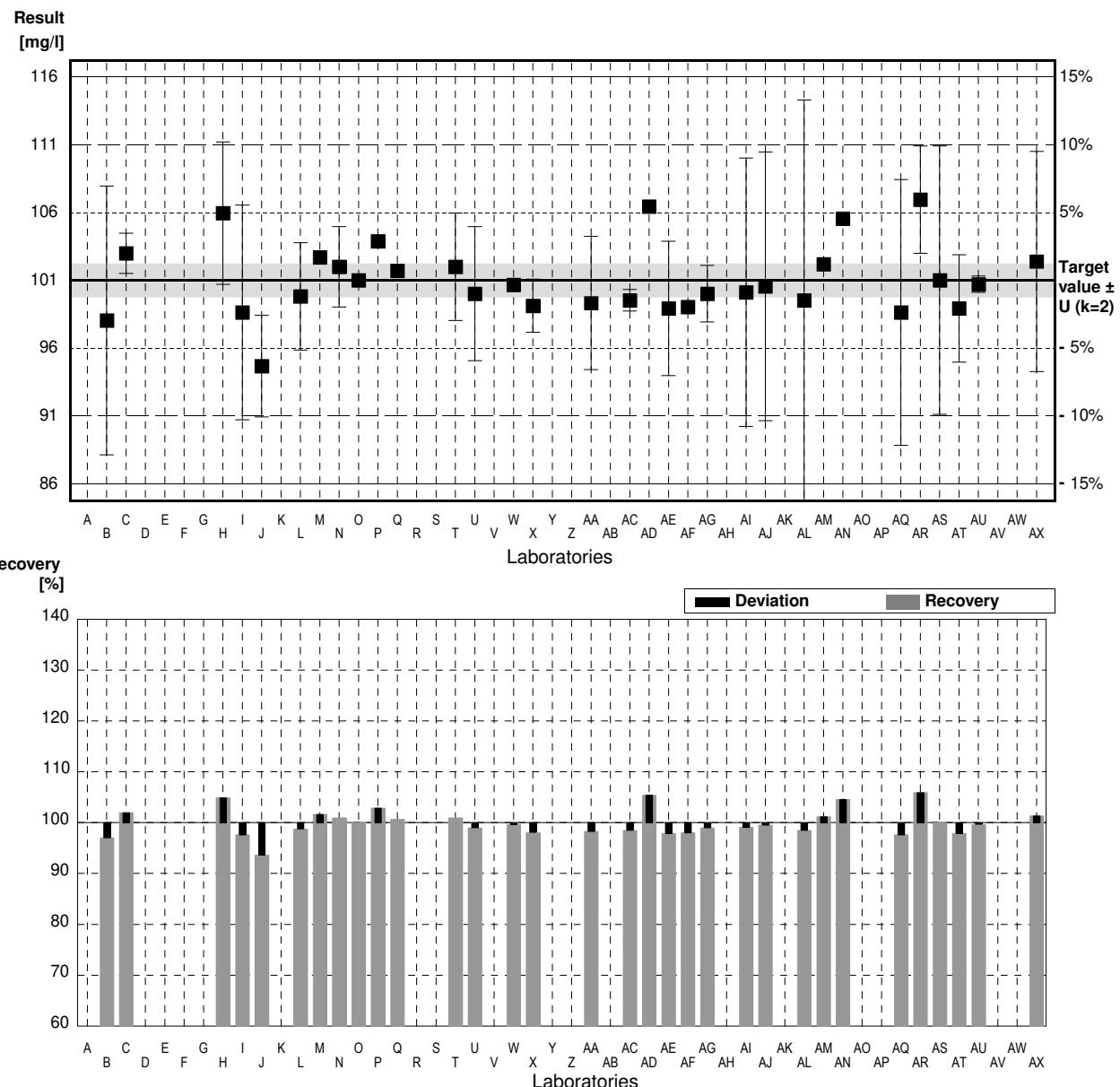
	All results	Outliers excl.	Unit
Mean ± CI(99%)	1,19 ± 0,02	1,18 ± 0,01	mmol/l
Recov. ± CI(99%)	99,7 ± 1,3	99,4 ± 1,0	%
SD between labs	0,03	0,03	mmol/l
RSD between labs	2,9	2,3	%
n for calculation	38	37	

# Sample N158A

## Parameter Hydrogen carbonate

Target value  $\pm U$  ( $k=2$ ) 101 mg/l  $\pm$  1 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 99,1 mg/l  $\pm$  4,0 mg/l

Stability test					
Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A			mg/l		
B	98	10	mg/l	97%	-1,24
C	103	1,49	mg/l	102%	0,83
D			mg/l		
E			mg/l		
F			mg/l		
G			mg/l		
H	106	5,3	mg/l	105%	2,06
I	98,6	8,0	mg/l	98%	-0,99
J	94,6	3,78	mg/l	94%	-2,64
K			mg/l		
L	99,8	4,0	mg/l	99%	-0,50
M	102,7		mg/l	102%	0,70
N	102	3	mg/l	101%	0,41
O	101	0,200	mg/l	100%	0,00
P	103,9		mg/l	103%	1,20
Q	101,7		mg/l	101%	0,29
R			mg/l		
S			mg/l		
T	102	4	mg/l	101%	0,41
U	100	5	mg/l	99%	-0,41
V			mg/l		
W	100,66		mg/l	100%	-0,14
X	99,1	1,981	mg/l	98%	-0,78
Y			mg/l		
Z			mg/l		
AA	99,3	4,97	mg/l	98%	-0,70
AB			mg/l		
AC	99,5	0,8	mg/l	99%	-0,62
AD	106,5		mg/l	105%	2,27
AE	98,9	5	mg/l	98%	-0,87
AF	99		mg/l	98%	-0,83
AG	100	2,11	mg/l	99%	-0,41
AH			mg/l		
AI	100,1	10	mg/l	99%	-0,37
AJ	100,55	10	mg/l	100%	-0,19
AK			mg/l		
AL	99,5000	14,9200	mg/l	99%	-0,62
AM	102,2		mg/l	101%	0,50
AN	105,6		mg/l	105%	1,90
AO			mg/l		



AP			mg/l	
AQ	98,6	9,9	mg/l	98% -0,99
AR	107	4	mg/l	106% 2,48
AS	101	10	mg/l	100% 0,00
AT	98,9	4	mg/l	98% -0,87
AU	100,7	0,61	mg/l	100% -0,12
AV			mg/l	
AW			mg/l	
AX	102,4	8,2	mg/l	101% 0,58

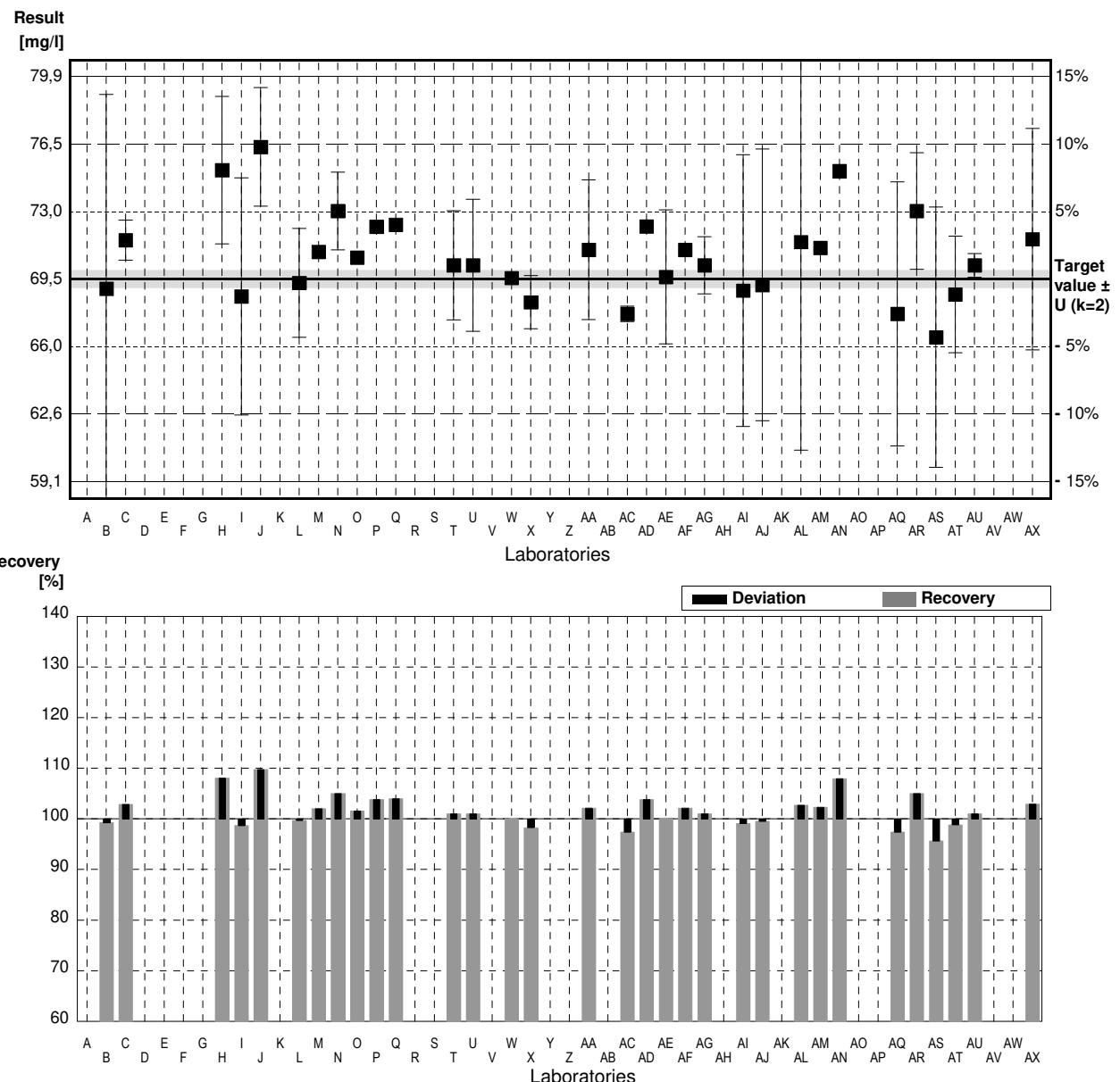
	All results	Outliers excl.	Unit
Mean ± CI(99%)	101 ± 1	101 ± 1	mg/l
Recov. ± CI(99%)	100,0 ± 1,3	100,0 ± 1,3	%
SD between labs	3	3	mg/l
RSD between labs	2,7	2,7	%
n for calculation	32	32	

## Sample N158B

### Parameter Hydrogen carbonate

Target value  $\pm U$  ( $k=2$ ) 69,5 mg/l  $\pm$  0,4 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 68,8 mg/l  $\pm$  2,8 mg/l

Stability test					
Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A			mg/l		
B	69	10	mg/l	99%	-0,30
C	71,5	1,03	mg/l	103%	1,20
D			mg/l		
E			mg/l		
F			mg/l		
G			mg/l		
H	75,1	3,8	mg/l	108%	3,36
I	68,6	6,1	mg/l	99%	-0,54
J	76,3	3,05	mg/l	110%	4,08
K			mg/l		
L	69,3	2,8	mg/l	100%	-0,12
M	70,9		mg/l	102%	0,84
N	73	2	mg/l	105%	2,10
O	70,6	0,100	mg/l	102%	0,66
P	72,19		mg/l	104%	1,61
Q	72,3		mg/l	104%	1,68
R			mg/l		
S			mg/l		
T	70,2	2,81	mg/l	101%	0,42
U	70,2	3,4	mg/l	101%	0,42
V			mg/l		
W	69,551		mg/l	100%	0,03
X	68,3	1,367	mg/l	98%	-0,72
Y			mg/l		
Z			mg/l		
AA	71,0	3,6	mg/l	102%	0,90
AB			mg/l		
AC	67,7	0,4	mg/l	97%	-1,08
AD	72,2		mg/l	104%	1,62
AE	69,6	3,45	mg/l	100%	0,06
AF	71		mg/l	102%	0,90
AG	70,2	1,47	mg/l	101%	0,42
AH			mg/l		
AI	68,9	7	mg/l	99%	-0,36
AJ	69,19	7	mg/l	100%	-0,19
AK			mg/l		
AL	71,4000	10,7100	mg/l	103%	1,14
AM	71,1		mg/l	102%	0,96
AN	75,05		mg/l	108%	3,33
AO			mg/l		



AP			mg/l		
AQ	67,7	6,8	mg/l	97%	-1,08
AR	73	3	mg/l	105%	2,10
AS	66,5	6,7	mg/l	96%	-1,80
AT	68,7	3	mg/l	99%	-0,48
AU	70,2	0,61	mg/l	101%	0,42
AV			mg/l		
AW			mg/l		
AX	71,55	5,7	mg/l	103%	1,23

	All results	Outliers excl.	Unit
Mean ± CI(99%)	70,7 ± 1,1	70,7 ± 1,1	mg/l
Recov. ± CI(99%)	101,7 ± 1,6	101,7 ± 1,6	%
SD between labs	2,2	2,2	mg/l
RSD between labs	3,1	3,1	%
n for calculation	32	32	

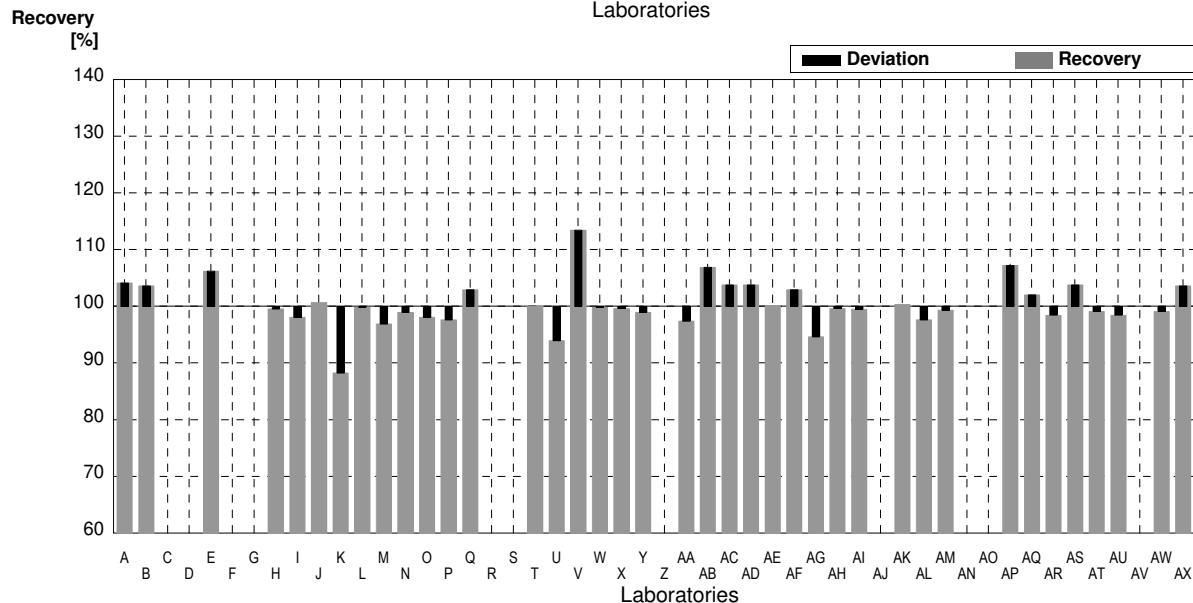
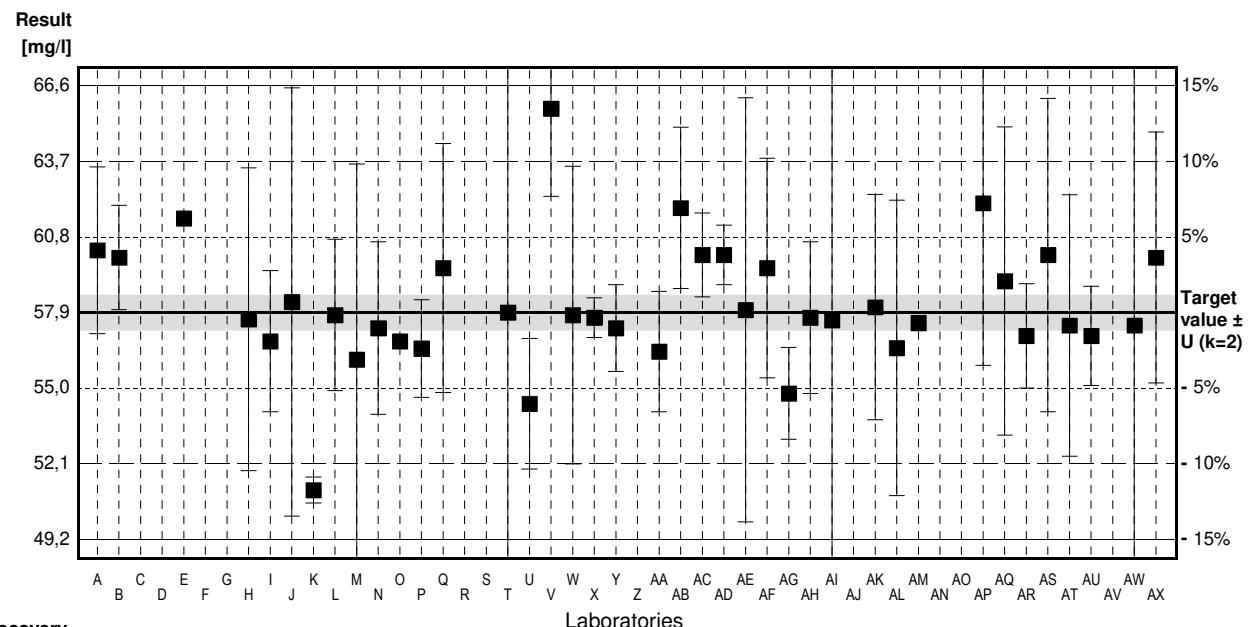
## Sample N158A

### Parameter Calcium

Target value  $\pm U$  ( $k=2$ ) 57,9 mg/l  $\pm$  0,7 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 60,5 mg/l  $\pm$  2,4 mg/l

#### Stability test mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	60,28	3,19	mg/l	104%	1,25
B	60,0	2	mg/l	104%	1,10
C			mg/l		
D			mg/l		
E	61,5		mg/l	106%	1,88
F			mg/l		
G			mg/l		
H	57,64	5,8	mg/l	100%	-0,14
I	56,8	2,7	mg/l	98%	-0,58
J	58,3	8,2	mg/l	101%	0,21
K	51,1 *	0,5	mg/l	88%	-3,56
L	57,8	2,9	mg/l	100%	-0,05
M	56,1	7,48	mg/l	97%	-0,94
N	57,3	3,3	mg/l	99%	-0,31
O	56,8	0,208	mg/l	98%	-0,58
P	56,52	1,87	mg/l	98%	-0,72
Q	59,6	4,77	mg/l	103%	0,89
R			mg/l		
S			mg/l		
T	57,9	10,4	mg/l	100%	0,00
U	54,4	2,5	mg/l	94%	-1,83
V	65,7 *	3,36	mg/l	113%	4,08
W	57,800	5,7	mg/l	100%	-0,05
X	57,7	0,756	mg/l	100%	-0,10
Y	57,3	1,66	mg/l	99%	-0,31
Z			mg/l		
AA	56,4	2,3	mg/l	97%	-0,79
AB	61,9	3,09	mg/l	107%	2,09
AC	60,1	1,6	mg/l	104%	1,15
AD	60,1	1,14	mg/l	104%	1,15
AE	58,0	8,12	mg/l	100%	0,05
AF	59,6	4,2	mg/l	103%	0,89
AG	54,8	1,76	mg/l	95%	-1,62
AH	57,7	2,9	mg/l	100%	-0,10
AI	57,6	11,5	mg/l	99%	-0,16
AJ			mg/l		
AK	58,1	4,31	mg/l	100%	0,10
AL	56,54	5,654	mg/l	98%	-0,71
AM	57,5		mg/l	99%	-0,21
AN			mg/l		
AO			mg/l		



AP	62,082	6,208	mg/l	107%	2,19
AQ	59,1	5,9	mg/l	102%	0,63
AR	57	2	mg/l	98%	-0,47
AS	60,1	6,0	mg/l	104%	1,15
AT	57,4	5	mg/l	99%	-0,26
AU	57,0	1,9	mg/l	98%	-0,47
AV			mg/l		
AW	57,4	11,5	mg/l	99%	-0,26
AX	60	4,8	mg/l	104%	1,10

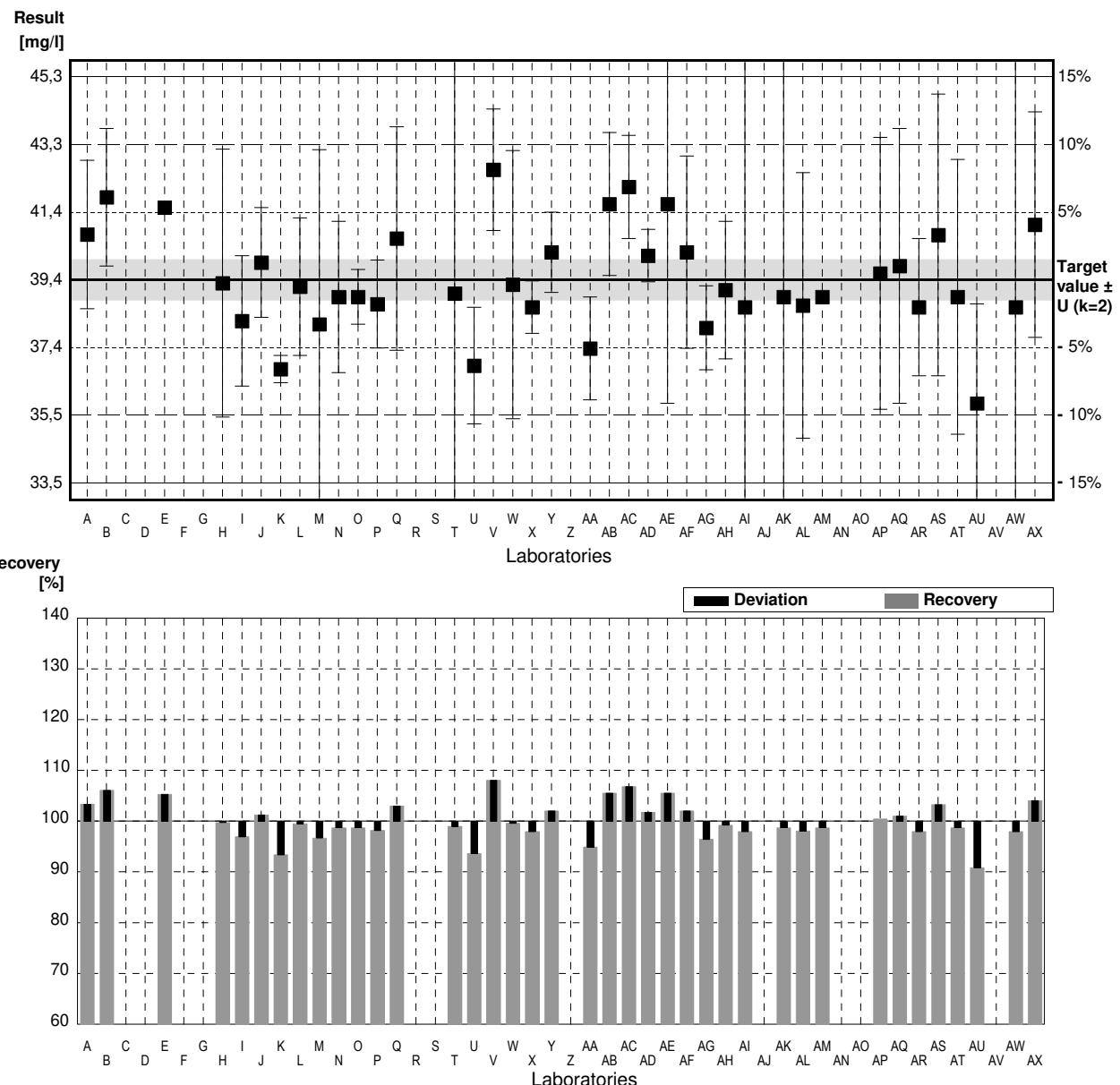
	All results	Outliers excl.	Unit
Mean ± CI(99%)	58,2 ± 1,1	58,2 ± 0,8	mg/l
Recov. ± CI(99%)	100,5 ± 1,8	100,5 ± 1,4	%
SD between labs	2,4	1,8	mg/l
RSD between labs	4,2	3,1	%
n for calculation	39	37	

## Sample N158B

### Parameter Calcium

Target value  $\pm U$  ( $k=2$ ) 39,4 mg/l  $\pm$  0,6 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 40,6 mg/l  $\pm$  2,0 mg/l

Stability test					
Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	40,713	2,16	mg/l	103%	1,01
B	41,8	2	mg/l	106%	1,85
C			mg/l		
D			mg/l		
E	41,5		mg/l	105%	1,62
F			mg/l		
G			mg/l		
H	39,3	3,9	mg/l	100%	-0,08
I	38,2	1,9	mg/l	97%	-0,92
J	39,9	1,6	mg/l	101%	0,38
K	36,8	0,4	mg/l	93%	-2,00
L	39,2	2,0	mg/l	99%	-0,15
M	38,1	5,08	mg/l	97%	-1,00
N	38,9	2,2	mg/l	99%	-0,38
O	38,9	0,794	mg/l	99%	-0,38
P	38,69	1,28	mg/l	98%	-0,55
Q	40,6	3,25	mg/l	103%	0,92
R			mg/l		
S			mg/l		
T	39,0	7,02	mg/l	99%	-0,31
U	36,9	1,7	mg/l	94%	-1,92
V	42,6	1,77	mg/l	108%	2,46
W	39,254	3,9	mg/l	100%	-0,11
X	38,6	0,762	mg/l	98%	-0,62
Y	40,2	1,17	mg/l	102%	0,62
Z			mg/l		
AA	37,4	1,5	mg/l	95%	-1,54
AB	41,6	2,08	mg/l	106%	1,69
AC	42,1	1,5	mg/l	107%	2,08
AD	40,1	0,76	mg/l	102%	0,54
AE	41,6	5,8	mg/l	106%	1,69
AF	40,2	2,8	mg/l	102%	0,62
AG	38,0	1,22	mg/l	96%	-1,08
AH	39,1	2	mg/l	99%	-0,23
AI	38,6	7,7	mg/l	98%	-0,62
AJ			mg/l		
AK	38,9	6,51	mg/l	99%	-0,38
AL	38,65	3,865	mg/l	98%	-0,58
AM	38,9		mg/l	99%	-0,38
AN			mg/l		
AO			mg/l		



AP	39,582	3,958	mg/l	100%	0,14
AQ	39,8	4,0	mg/l	101%	0,31
AR	38,6	2	mg/l	98%	-0,62
AS	40,7	4,1	mg/l	103%	1,00
AT	38,9	4	mg/l	99%	-0,38
AU	35,8	2,9	mg/l	91%	-2,77
AV			mg/l		
AW	38,6	7,7	mg/l	98%	-0,62
AX	41,0	3,28	mg/l	104%	1,23

	All results	Outliers excl.	Unit
Mean ± CI(99%)	39,4 ± 0,7	39,4 ± 0,7	mg/l
Recov. ± CI(99%)	100,0 ± 1,7	100,0 ± 1,7	%
SD between labs	1,5	1,5	mg/l
RSD between labs	3,8	3,8	%
n for calculation	39	39	

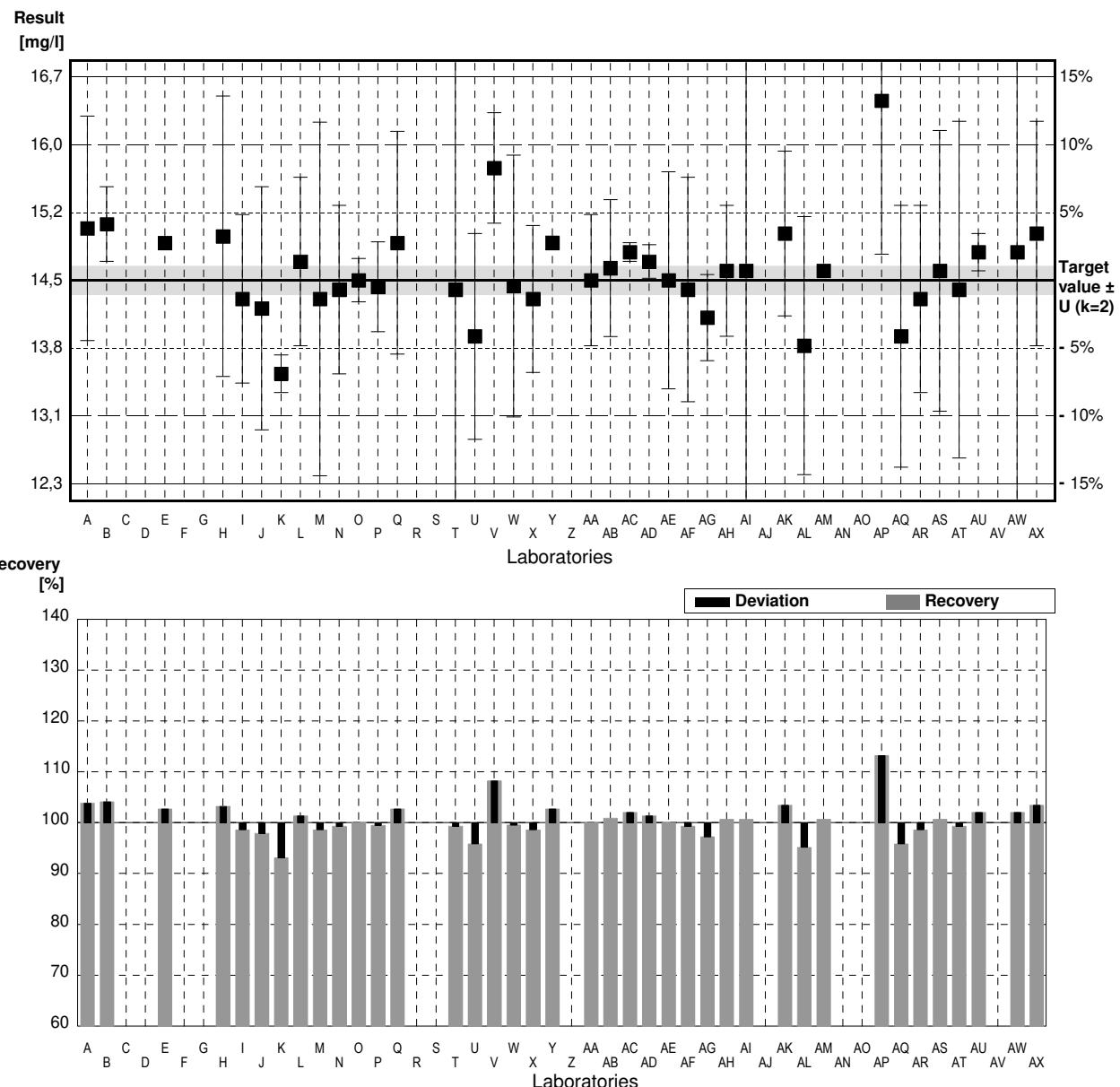
## Sample N158A

### Parameter Magnesium

Target value  $\pm U$  ( $k=2$ ) 14,5 mg/l  $\pm$  0,2 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 14,6 mg/l  $\pm$  0,7 mg/l

#### Stability test mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	15,055	1,2	mg/l	104%	1,03
B	15,1	0,4	mg/l	104%	1,12
C			mg/l		
D			mg/l		
E	14,9		mg/l	103%	0,75
F			mg/l		
G			mg/l		
H	14,97	1,5	mg/l	103%	0,88
I	14,3	0,9	mg/l	99%	-0,37
J	14,2	1,3	mg/l	98%	-0,56
K	13,5	0,2	mg/l	93%	-1,86
L	14,7	0,9	mg/l	101%	0,37
M	14,3	1,89	mg/l	99%	-0,37
N	14,4	0,9	mg/l	99%	-0,19
O	14,5	0,231	mg/l	100%	0,00
P	14,43	0,48	mg/l	100%	-0,13
Q	14,9	1,19	mg/l	103%	0,75
R			mg/l		
S			mg/l		
T	14,4	2,59	mg/l	99%	-0,19
U	13,9	1,1	mg/l	96%	-1,12
V	15,7	0,59	mg/l	108%	2,24
W	14,436	1,4	mg/l	100%	-0,12
X	14,3	0,787	mg/l	99%	-0,37
Y	14,9	0,072	mg/l	103%	0,75
Z			mg/l		
AA	14,5	0,7	mg/l	100%	0,00
AB	14,63	0,732	mg/l	101%	0,24
AC	14,8	0,1	mg/l	102%	0,56
AD	14,7	0,18	mg/l	101%	0,37
AE	14,5	1,16	mg/l	100%	0,00
AF	14,4	1,2	mg/l	99%	-0,19
AG	14,1	0,460	mg/l	97%	-0,75
AH	14,6	0,7	mg/l	101%	0,19
AI	14,6	2,9	mg/l	101%	0,19
AJ			mg/l		
AK	15,0	0,88	mg/l	103%	0,93
AL	13,80	1,380	mg/l	95%	-1,30
AM	14,6		mg/l	101%	0,19
AN			mg/l		
AO			mg/l		



AP	16,420 *	1,642	mg/l	113%	3,58
AQ	13,9	1,4	mg/l	96%	-1,12
AR	14,3	1	mg/l	99%	-0,37
AS	14,6	1,5	mg/l	101%	0,19
AT	14,4	1,8	mg/l	99%	-0,19
AU	14,8	0,2	mg/l	102%	0,56
AV			mg/l		
AW	14,8	3,0	mg/l	102%	0,56
AX	15,0	1,20	mg/l	103%	0,93

	All results	Outliers excl.	Unit
Mean ± CI(99%)	14,6 ± 0,2	14,6 ± 0,2	mg/l
Recov. ± CI(99%)	100,7 ± 1,5	100,3 ± 1,3	%
SD between labs	0,5	0,4	mg/l
RSD between labs	3,5	2,8	%
n for calculation	39	38	

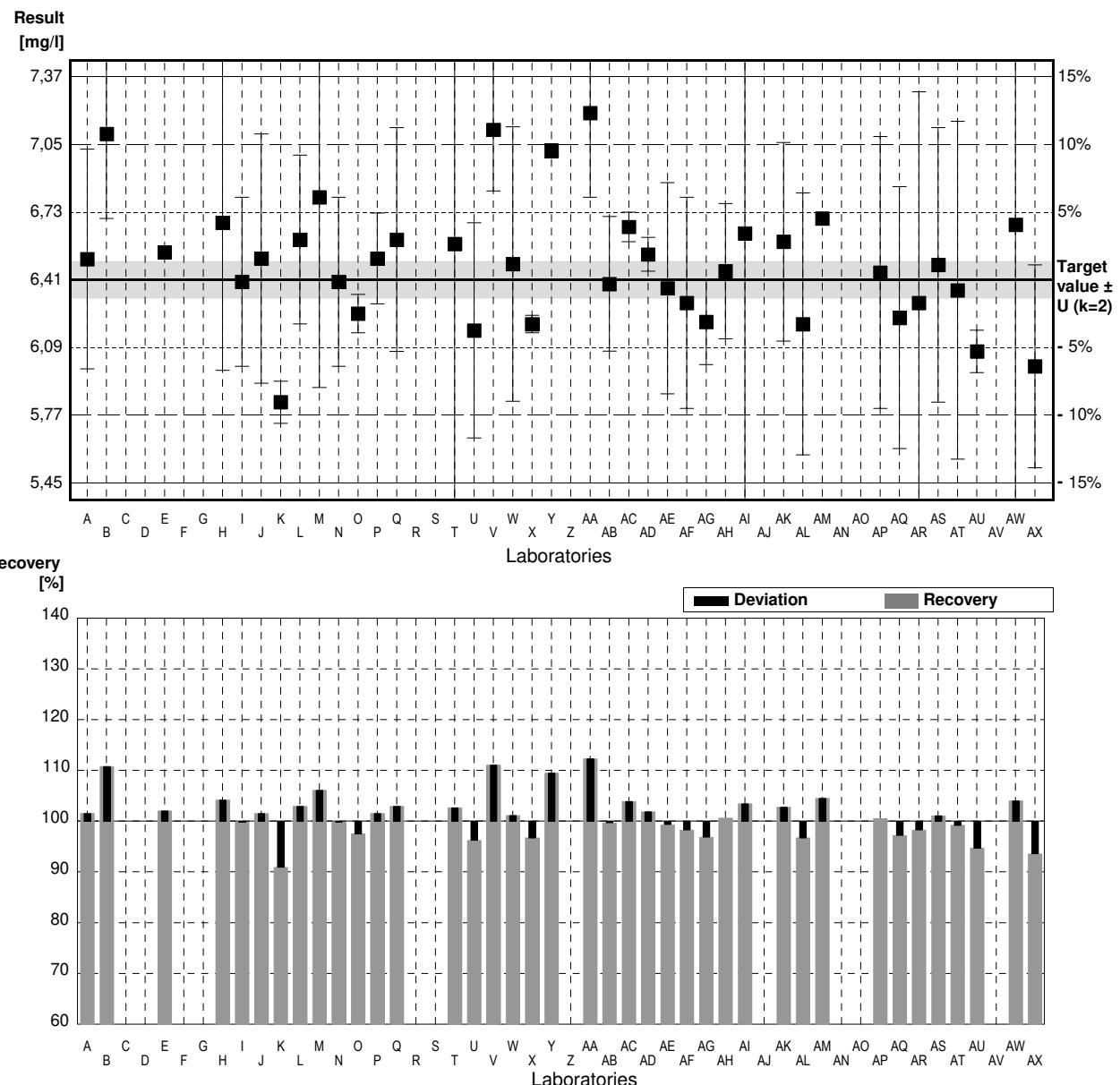
## Sample N158B

### Parameter Magnesium

Target value  $\pm U$  ( $k=2$ ) 6,41 mg/l  $\pm$  0,09 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 6,38 mg/l  $\pm$  0,32 mg/l

#### Stability test mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	6,508	0,52	mg/l	102%	0,41
B	7,1	0,4	mg/l	111%	2,91
C			mg/l		
D			mg/l		
E	6,54		mg/l	102%	0,55
F			mg/l		
G			mg/l		
H	6,68	0,7	mg/l	104%	1,14
I	6,4	0,4	mg/l	100%	-0,04
J	6,51	0,59	mg/l	102%	0,42
K	5,83	0,10	mg/l	91%	-2,45
L	6,60	0,40	mg/l	103%	0,80
M	6,80	0,90	mg/l	106%	1,64
N	6,4	0,4	mg/l	100%	-0,04
O	6,25	0,091	mg/l	98%	-0,67
P	6,510	0,215	mg/l	102%	0,42
Q	6,6	0,53	mg/l	103%	0,80
R			mg/l		
S			mg/l		
T	6,58	1,18	mg/l	103%	0,72
U	6,17	0,51	mg/l	96%	-1,01
V	7,12	0,29	mg/l	111%	2,99
W	6,484	0,65	mg/l	101%	0,31
X	6,20	0,0415	mg/l	97%	-0,89
Y	7,02	0,034	mg/l	110%	2,57
Z			mg/l		
AA	7,2	0,4	mg/l	112%	3,33
AB	6,39	0,319	mg/l	100%	-0,08
AC	6,66	0,07	mg/l	104%	1,05
AD	6,53	0,08	mg/l	102%	0,51
AE	6,37	0,5	mg/l	99%	-0,17
AF	6,3	0,5	mg/l	98%	-0,46
AG	6,21	0,202	mg/l	97%	-0,84
AH	6,45	0,32	mg/l	101%	0,17
AI	6,63	1,3	mg/l	103%	0,93
AJ			mg/l		
AK	6,59	0,47	mg/l	103%	0,76
AL	6,20	0,620	mg/l	97%	-0,89
AM	6,7		mg/l	105%	1,22
AN			mg/l		
AO			mg/l		



AP	6,444	0,644	mg/l	101%	0,14
AQ	6,23	0,62	mg/l	97%	-0,76
AR	6,3	1	mg/l	98%	-0,46
AS	6,48	0,65	mg/l	101%	0,30
AT	6,36	0,8	mg/l	99%	-0,21
AU	6,07	0,10	mg/l	95%	-1,43
AV			mg/l		
AW	6,67	1,3	mg/l	104%	1,10
AX	6,0	0,48	mg/l	94%	-1,73

	All results	Outliers excl.	Unit
Mean ± CI(99%)	6,49 ± 0,13	6,49 ± 0,13	mg/l
Recov. ± CI(99%)	101,2 ± 2,0	101,2 ± 2,0	%
SD between labs	0,30	0,30	mg/l
RSD between labs	4,6	4,6	%
n for calculation	39	39	

## Sample N158A

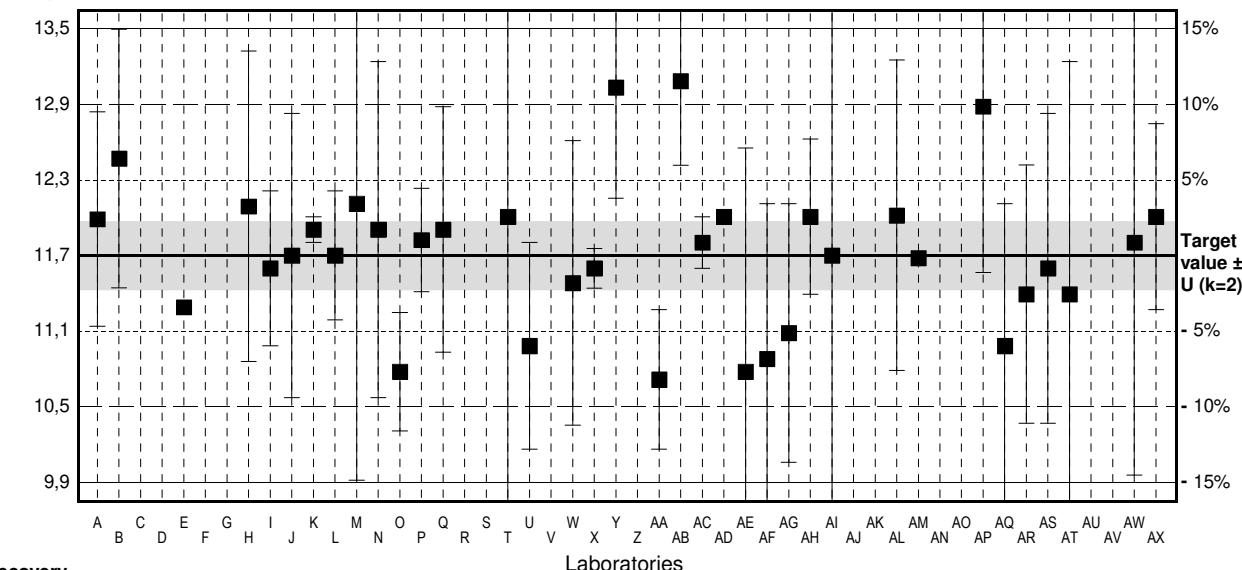
### Parameter Sodium

Target value  $\pm U$  ( $k=2$ ) 11,7 mg/l  $\pm$  0,3 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 11,8 mg/l  $\pm$  0,9 mg/l

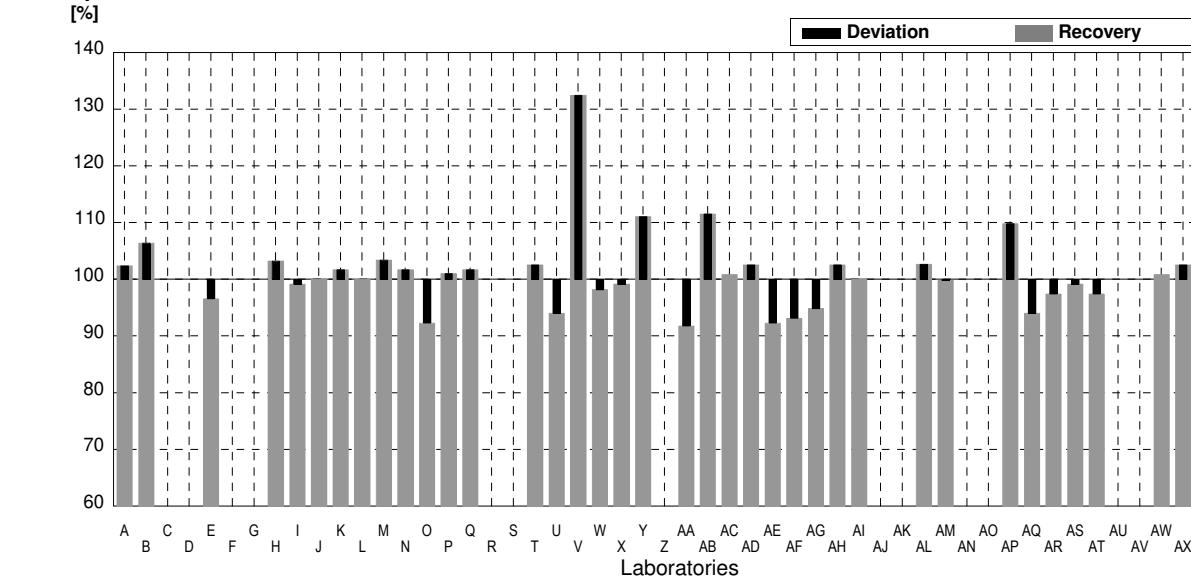
#### Stability test mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	11,981	0,83	mg/l	102%	0,71
B	12,45	1	mg/l	106%	1,89
C			mg/l		
D			mg/l		
E	11,3		mg/l	97%	-1,01
F			mg/l		
G			mg/l		
H	12,08	1,2	mg/l	103%	0,96
I	11,6	0,6	mg/l	99%	-0,25
J	11,7	1,1	mg/l	100%	0,00
K	11,9	0,1	mg/l	102%	0,50
L	11,7	0,5	mg/l	100%	0,00
M	12,1	2,14	mg/l	103%	1,01
N	11,9	1,3	mg/l	102%	0,50
O	10,8 *	0,458	mg/l	92%	-2,26
P	11,82	0,40	mg/l	101%	0,30
Q	11,9	0,95	mg/l	102%	0,50
R			mg/l		
S			mg/l		
T	12,0	2,16	mg/l	103%	0,75
U	11,0	0,8	mg/l	94%	-1,76
V	15,5 *	1,04	mg/l	132%	9,55
W	11,487	1,1	mg/l	98%	-0,54
X	11,6	0,153	mg/l	99%	-0,25
Y	13,0 *	0,858	mg/l	111%	3,27
Z			mg/l		
AA	10,74 *	0,54	mg/l	92%	-2,41
AB	13,05 *	0,653	mg/l	112%	3,39
AC	11,8	0,2	mg/l	101%	0,25
AD	12,0	0,05	mg/l	103%	0,75
AE	10,8 *	1,73	mg/l	92%	-2,26
AF	10,9	1,2	mg/l	93%	-2,01
AG	11,1	1,0	mg/l	95%	-1,51
AH	12,0	0,6	mg/l	103%	0,75
AI	11,7	1,8	mg/l	100%	0,00
AJ			mg/l		
AK			mg/l		
AL	12,01	1,201	mg/l	103%	0,78
AM	11,68		mg/l	100%	-0,05
AN			mg/l		
AO			mg/l		

#### Result [mg/l]



#### Recovery [%]



AP	12,853 *	1,285	mg/l	110%	2,90
AQ	11,0	1,1	mg/l	94%	-1,76
AR	11,4	1	mg/l	97%	-0,75
AS	11,6	1,2	mg/l	99%	-0,25
AT	11,4	1,8	mg/l	97%	-0,75
AU			mg/l		
AV			mg/l		
AW	11,8	1,8	mg/l	101%	0,25
AX	12,0	0,72	mg/l	103%	0,75

	All results	Outliers excl.	Unit
Mean ± CI(99%)	11,8 ± 0,4	11,7 ± 0,2	mg/l
Recov. ± CI(99%)	101,1 ± 3,2	100,0 ± 1,6	%
SD between labs	0,8	0,4	mg/l
RSD between labs	7,1	3,2	%
n for calculation	37	30	

## Sample N158B

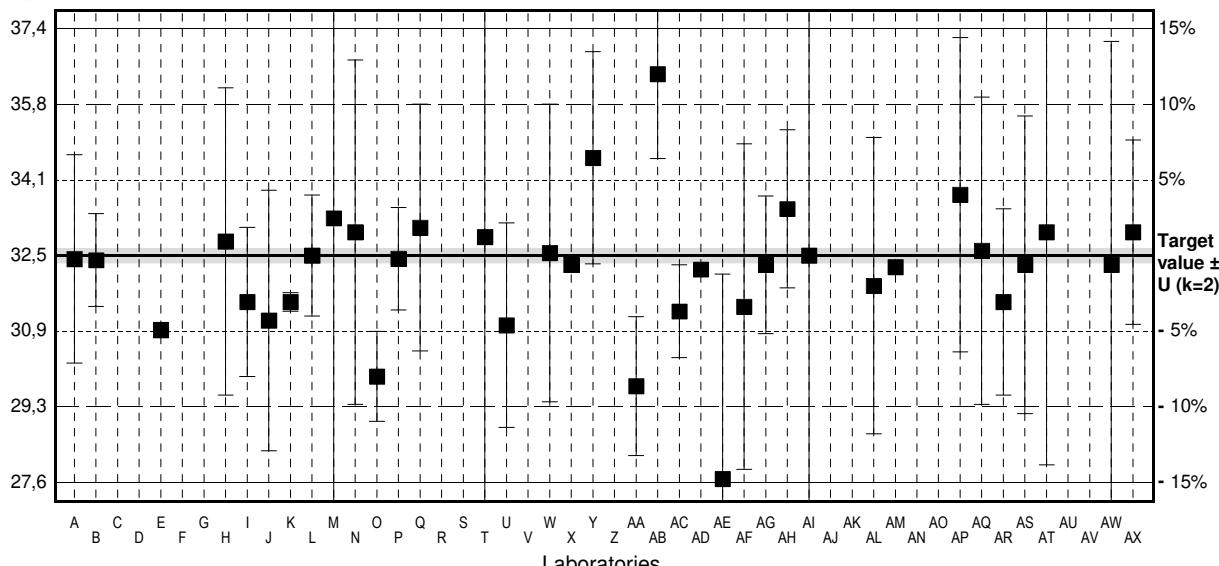
### Parameter Sodium

Target value  $\pm U$  ( $k=2$ ) 32,5 mg/l  $\pm$  0,2 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 32,5 mg/l  $\pm$  1,6 mg/l

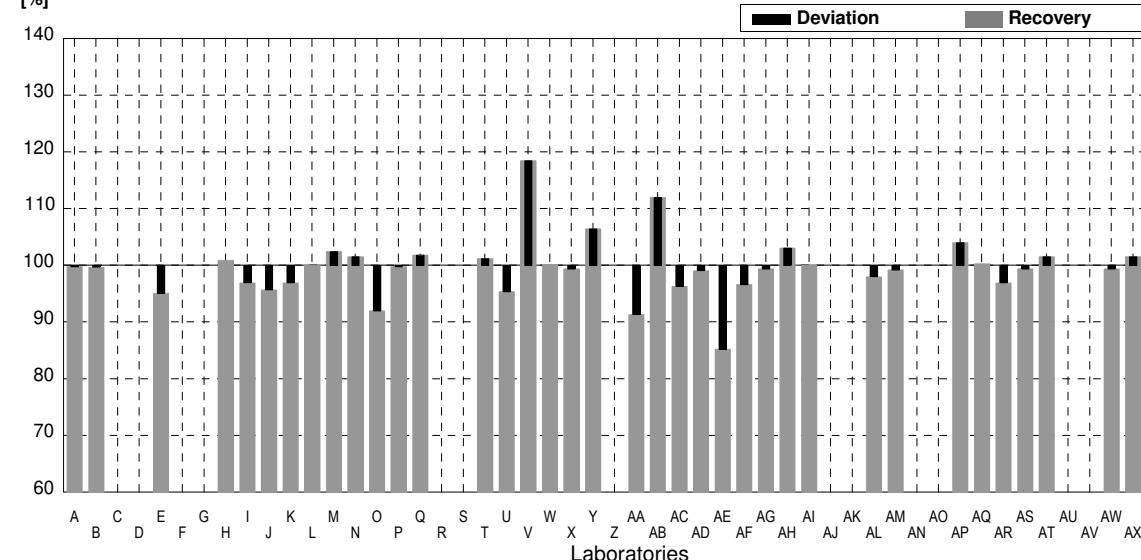
#### Stability test mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	32,423	2,24	mg/l	100%	-0,07
B	32,4	1	mg/l	100%	-0,09
C			mg/l		
D			mg/l		
E	30,9		mg/l	95%	-1,45
F			mg/l		
G			mg/l		
H	32,8	3,3	mg/l	101%	0,27
I	31,5	1,6	mg/l	97%	-0,90
J	31,1	2,8	mg/l	96%	-1,27
K	31,5	0,2	mg/l	97%	-0,90
L	32,5	1,3	mg/l	100%	0,00
M	33,3	5,89	mg/l	102%	0,72
N	33,0	3,7	mg/l	102%	0,45
O	29,9	0,964	mg/l	92%	-2,35
P	32,43	1,10	mg/l	100%	-0,06
Q	33,1	2,65	mg/l	102%	0,54
R			mg/l		
S			mg/l		
T	32,9	5,92	mg/l	101%	0,36
U	31,0	2,2	mg/l	95%	-1,36
V	38,5 *	2,61	mg/l	118%	5,43
W	32,553	3,2	mg/l	100%	0,05
X	32,3	0,156	mg/l	99%	-0,18
Y	34,6	2,28	mg/l	106%	1,90
Z			mg/l		
AA	29,69	1,49	mg/l	91%	-2,54
AB	36,4 *	1,82	mg/l	112%	3,53
AC	31,3	1,0	mg/l	96%	-1,09
AD	32,2	0,14	mg/l	99%	-0,27
AE	27,7 *	4,4	mg/l	85%	-4,34
AF	31,4	3,5	mg/l	97%	-1,00
AG	32,3	1,48	mg/l	99%	-0,18
AH	33,5	1,7	mg/l	103%	0,90
AI	32,5	4,9	mg/l	100%	0,00
AJ			mg/l		
AK			mg/l		
AL	31,85	3,185	mg/l	98%	-0,59
AM	32,25		mg/l	99%	-0,23
AN			mg/l		
AO			mg/l		

#### Result [mg/l]



#### Recovery [%]



AP	33,803	3,380	mg/l	104%	1,18
AQ	32,6	3,3	mg/l	100%	0,09
AR	31,5	2	mg/l	97%	-0,90
AS	32,3	3,2	mg/l	99%	-0,18
AT	33,0	5	mg/l	102%	0,45
AU			mg/l		
AV			mg/l		
AW	32,3	4,8	mg/l	99%	-0,18
AX	33,0	1,98	mg/l	102%	0,45

	All results	Outliers excl.	Unit
Mean ± CI(99%)	32,4 ± 0,8	32,2 ± 0,5	mg/l
Recov. ± CI(99%)	99,7 ± 2,4	99,2 ± 1,5	%
SD between labs	1,8	1,0	mg/l
RSD between labs	5,4	3,2	%
n for calculation	37	34	

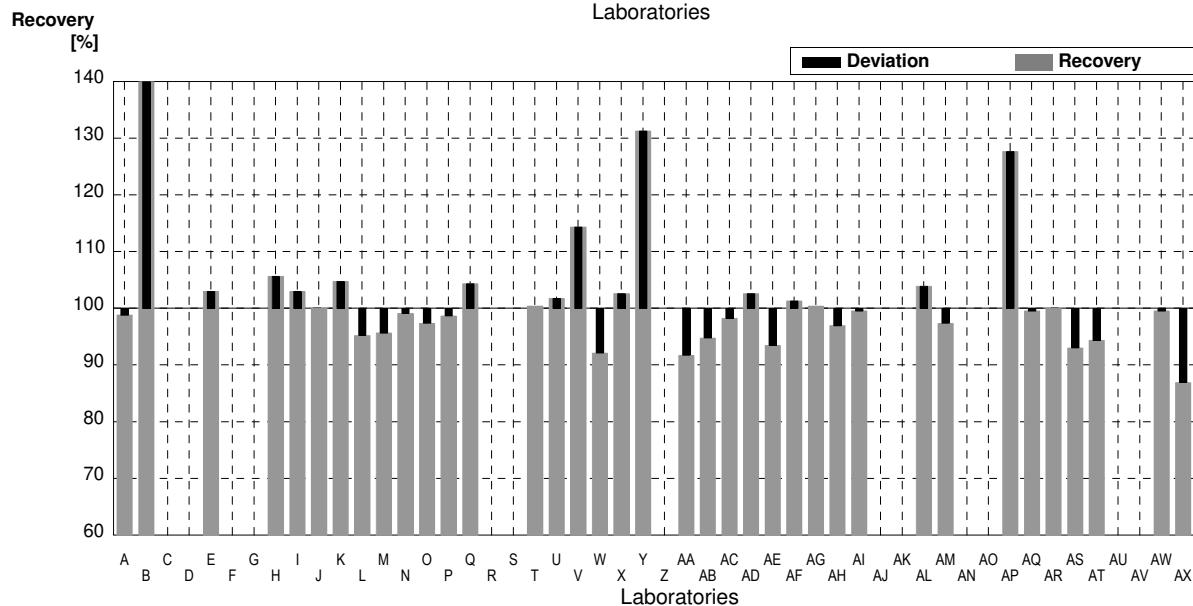
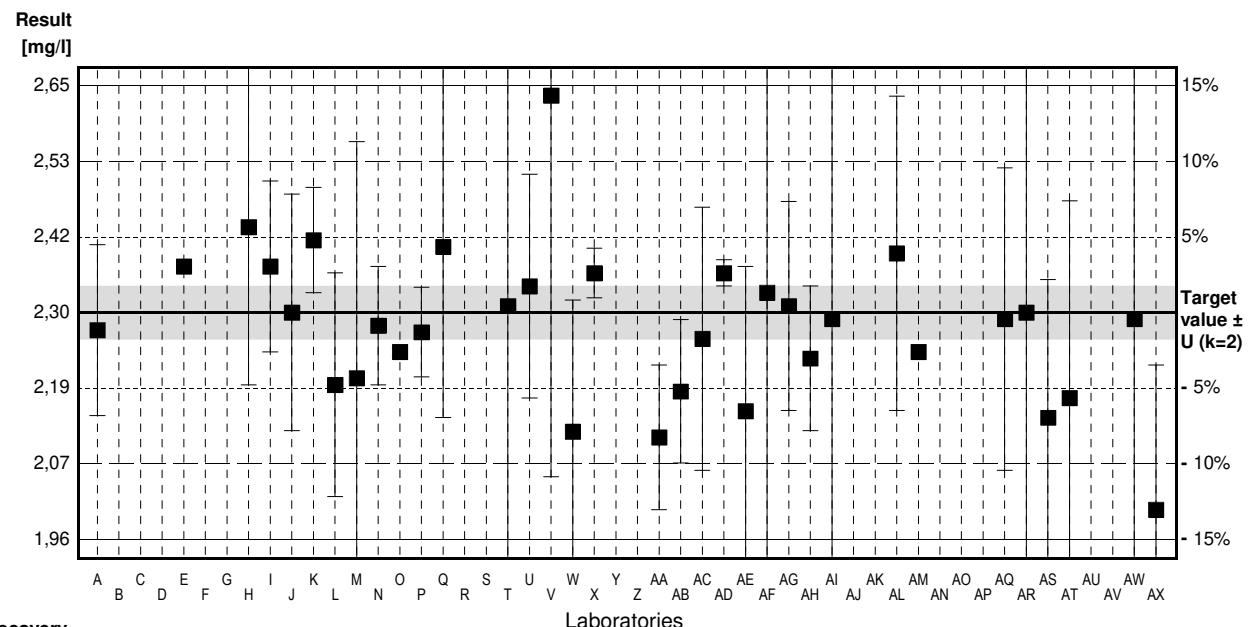
## Sample N158A

### Parameter Potassium

Target value  $\pm U$  ( $k=2$ ) 2,30 mg/l  $\pm$  0,04 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 2,32 mg/l  $\pm$  0,16 mg/l

#### Stability test mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	2,273	0,13	mg/l	99%	-0,26
B	5,45 *	0,2	mg/l	237%	30,43
C			mg/l		
D			mg/l		
E	2,37		mg/l	103%	0,68
F			mg/l		
G			mg/l		
H	2,43	0,24	mg/l	106%	1,26
I	2,37	0,13	mg/l	103%	0,68
J	2,30	0,18	mg/l	100%	0,00
K	2,41	0,08	mg/l	105%	1,06
L	2,19	0,17	mg/l	95%	-1,06
M	2,20	0,36	mg/l	96%	-0,97
N	2,28	0,09	mg/l	99%	-0,19
O	2,24	0,006	mg/l	97%	-0,58
P	2,270	0,068	mg/l	99%	-0,29
Q	2,40	0,26	mg/l	104%	0,97
R			mg/l		
S			mg/l		
T	2,31	0,42	mg/l	100%	0,10
U	2,34	0,17	mg/l	102%	0,39
V	2,63	0,58	mg/l	114%	3,19
W	2,119	0,2	mg/l	92%	-1,75
X	2,36	0,0378	mg/l	103%	0,58
Y	3,02 *	0,185	mg/l	131%	6,96
Z			mg/l		
AA	2,11	0,11	mg/l	92%	-1,84
AB	2,18	0,109	mg/l	95%	-1,16
AC	2,26	0,2	mg/l	98%	-0,39
AD	2,36	0,02	mg/l	103%	0,58
AE	2,15	0,22	mg/l	93%	-1,45
AF	2,33	0,4	mg/l	101%	0,29
AG	2,31	0,159	mg/l	100%	0,10
AH	2,23	0,11	mg/l	97%	-0,68
AI	2,29	0,46	mg/l	100%	-0,10
AJ			mg/l		
AK			mg/l		
AL	2,39	0,239	mg/l	104%	0,87
AM	2,24		mg/l	97%	-0,58
AN			mg/l		
AO			mg/l		



AP	2,936 *	0,294	mg/l	128%	6,14
AQ	2,29	0,23	mg/l	100%	-0,10
AR	2,30	0,5	mg/l	100%	0,00
AS	2,14	0,21	mg/l	93%	-1,55
AT	2,17	0,3	mg/l	94%	-1,26
AU			mg/l		
AV			mg/l		
AW	2,29	0,46	mg/l	100%	-0,10
AX	2,00	0,22	mg/l	87%	-2,90

	All results	Outliers excl.	Unit
Mean ± CI(99%)	2,40 ± 0,25	2,28 ± 0,05	mg/l
Recov. ± CI(99%)	104,5 ± 10,7	99,1 ± 2,4	%
SD between labs	0,55	0,12	mg/l
RSD between labs	22,9	5,1	%
n for calculation	37	34	

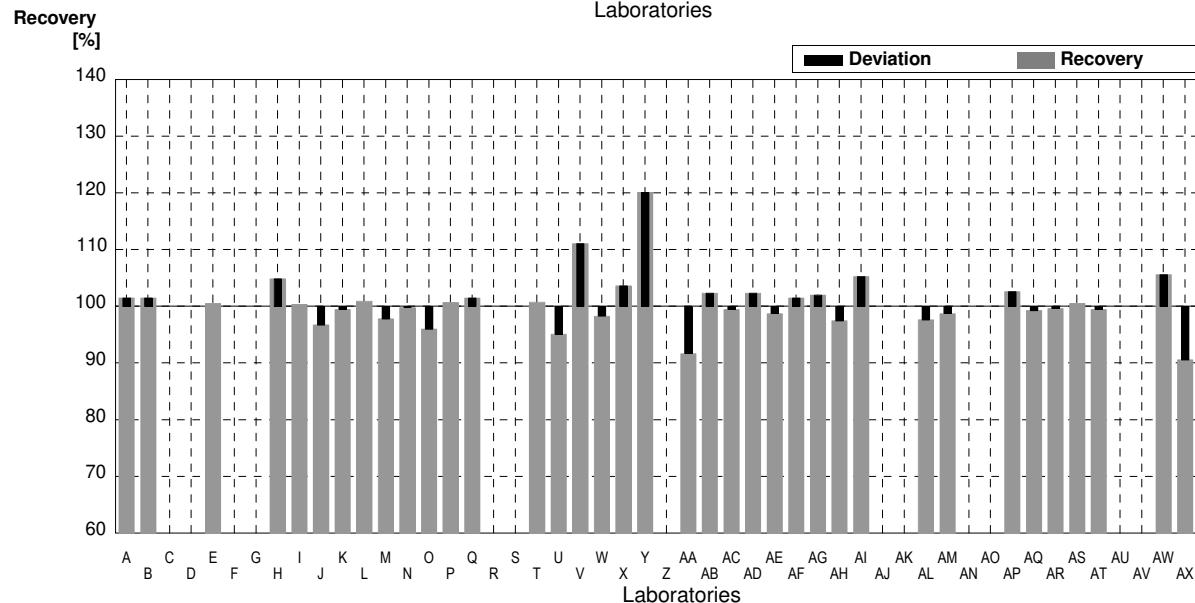
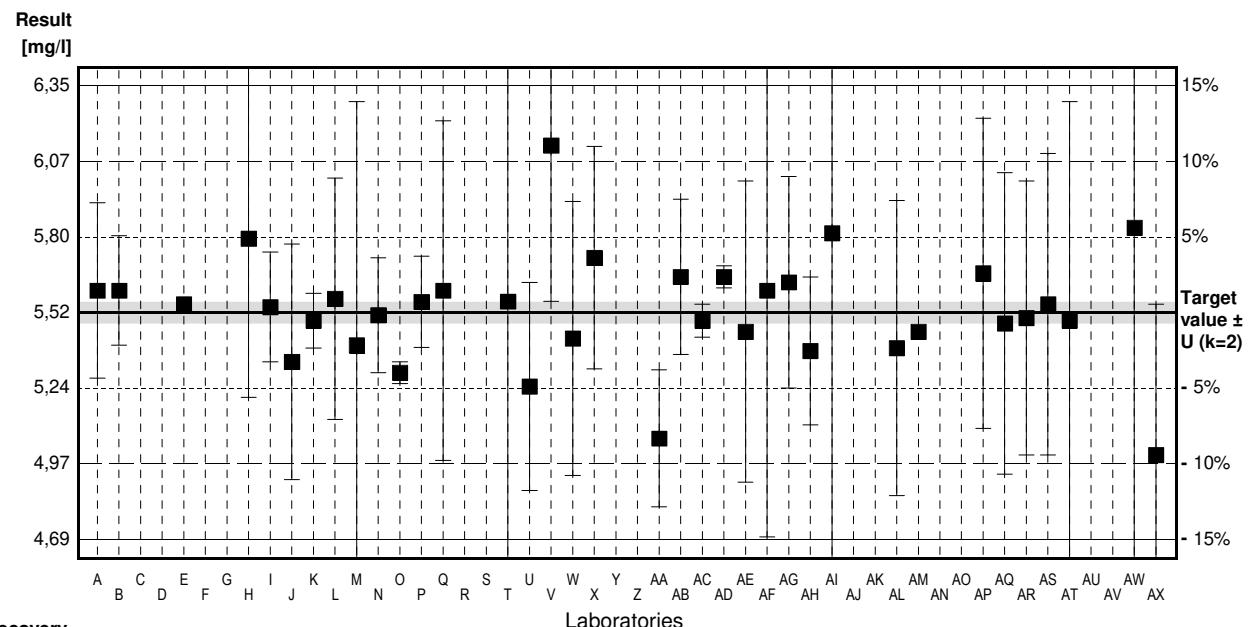
## Sample N158B

### Parameter Potassium

Target value  $\pm U$  ( $k=2$ ) 5,52 mg/l  $\pm$  0,04 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 5,53 mg/l  $\pm$  0,28 mg/l

Stability test mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	5,600	0,32	mg/l	101%	0,32
B	5,60	0,2	mg/l	101%	0,32
C			mg/l		
D			mg/l		
E	5,55		mg/l	101%	0,12
F			mg/l		
G			mg/l		
H	5,79	0,58	mg/l	105%	1,09
I	5,54	0,2	mg/l	100%	0,08
J	5,34	0,43	mg/l	97%	-0,72
K	5,49	0,10	mg/l	99%	-0,12
L	5,57	0,44	mg/l	101%	0,20
M	5,40	0,89	mg/l	98%	-0,48
N	5,51	0,21	mg/l	100%	-0,04
O	5,30	0,040	mg/l	96%	-0,89
P	5,559	0,167	mg/l	101%	0,16
Q	5,6	0,62	mg/l	101%	0,32
R			mg/l		
S			mg/l		
T	5,56	1	mg/l	101%	0,16
U	5,25	0,38	mg/l	95%	-1,09
V	6,13 *	0,57	mg/l	111%	2,46
W	5,425	0,5	mg/l	98%	-0,38
X	5,72	0,406	mg/l	104%	0,81
Y	6,63 *	0,406	mg/l	120%	4,47
Z			mg/l		
AA	5,06 *	0,25	mg/l	92%	-1,85
AB	5,65	0,283	mg/l	102%	0,52
AC	5,49	0,06	mg/l	99%	-0,12
AD	5,65	0,04	mg/l	102%	0,52
AE	5,45	0,55	mg/l	99%	-0,28
AF	5,6	0,9	mg/l	101%	0,32
AG	5,63	0,386	mg/l	102%	0,44
AH	5,38	0,27	mg/l	97%	-0,56
AI	5,81	1,2	mg/l	105%	1,17
AJ			mg/l		
AK			mg/l		
AL	5,39	0,539	mg/l	98%	-0,52
AM	5,45		mg/l	99%	-0,28
AN			mg/l		
AO			mg/l		



AP	5,663	0,566	mg/l	103%	0,58
AQ	5,48	0,55	mg/l	99%	-0,16
AR	5,5	0,5	mg/l	100%	-0,08
AS	5,55	0,55	mg/l	101%	0,12
AT	5,49	0,8	mg/l	99%	-0,12
AU			mg/l		
AV			mg/l		
AW	5,83	1,2	mg/l	106%	1,25
AX	5,0 *	0,55	mg/l	91%	-2,09

	All results	Outliers excl.	Unit
Mean ± CI(99%)	5,56 ± 0,12	5,54 ± 0,07	mg/l
Recov. ± CI(99%)	100,7 ± 2,2	100,4 ± 1,2	%
SD between labs	0,27	0,14	mg/l
RSD between labs	4,9	2,5	%
n for calculation	37	33	

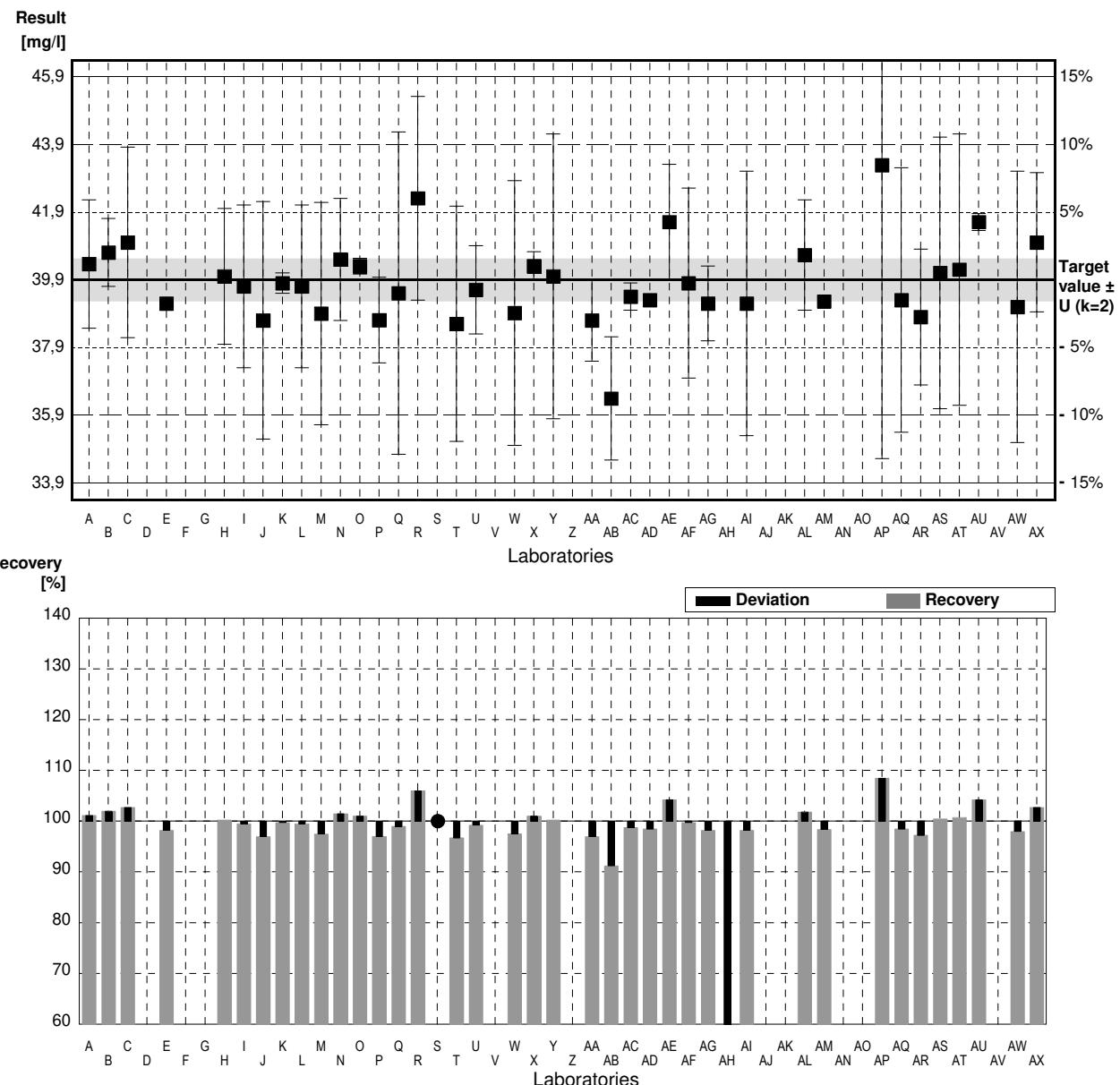
## Sample N158A

### Parameter Nitrate

Target value  $\pm U$  ( $k=2$ ) 39,9 mg/l  $\pm$  0,6 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 39,4 mg/l  $\pm$  2,0 mg/l

### Stability test mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	40,36	1,89	mg/l	101%	0,35
B	40,7	1	mg/l	102%	0,61
C	41,0	2,81	mg/l	103%	0,84
D			mg/l		
E	39,2		mg/l	98%	-0,53
F			mg/l		
G			mg/l		
H	40,0	2,0	mg/l	100%	0,08
I	39,7	2,4	mg/l	99%	-0,15
J	38,7	3,5	mg/l	97%	-0,91
K	39,8	0,3	mg/l	100%	-0,08
L	39,7	2,4	mg/l	99%	-0,15
M	38,9	3,28	mg/l	97%	-0,76
N	40,5	1,8	mg/l	102%	0,46
O	40,3	0,231	mg/l	101%	0,30
P	38,71	1,26	mg/l	97%	-0,90
Q	39,5	4,75	mg/l	99%	-0,30
R	42,3	3	mg/l	106%	1,82
S	>30		mg/l	*	
T	38,6	3,47	mg/l	97%	-0,99
U	39,6	1,3	mg/l	99%	-0,23
V			mg/l		
W	38,918	3,9	mg/l	98%	-0,75
X	40,3	0,425	mg/l	101%	0,30
Y	40,0	4,20	mg/l	100%	0,08
Z			mg/l		
AA	38,7	1,2	mg/l	97%	-0,91
AB	36,4 *	1,82	mg/l	91%	-2,66
AC	39,4	0,4	mg/l	99%	-0,38
AD	39,3		mg/l	98%	-0,46
AE	41,6	1,7	mg/l	104%	1,29
AF	39,8	2,8	mg/l	100%	-0,08
AG	39,2	1,10	mg/l	98%	-0,53
AH	8,67 *	0,9	mg/l	22%	-23,72
AI	39,2	3,9	mg/l	98%	-0,53
AJ			mg/l		
AK			mg/l		
AL	40,629	1,6252	mg/l	102%	0,55
AM	39,26		mg/l	98%	-0,49
AN			mg/l		
AO			mg/l		



AP	43,281 *	8,656	mg/l	108%	2,57
AQ	39,3	3,9	mg/l	98%	-0,46
AR	38,8	2	mg/l	97%	-0,84
AS	40,1	4,0	mg/l	101%	0,15
AT	40,2	4	mg/l	101%	0,23
AU	41,6	0,25	mg/l	104%	1,29
AV			mg/l		
AW	39,1	4,0	mg/l	98%	-0,61
AX	41,0	2,05	mg/l	103%	0,84

	All results	Outliers excl.	Unit
Mean ± CI(99%)	39,0 ± 2,2	39,8 ± 0,4	mg/l
Recov. ± CI(99%)	97,8 ± 5,6	99,8 ± 1,0	%
SD between labs	5,1	0,9	mg/l
RSD between labs	13,1	2,3	%
n for calculation	39	36	

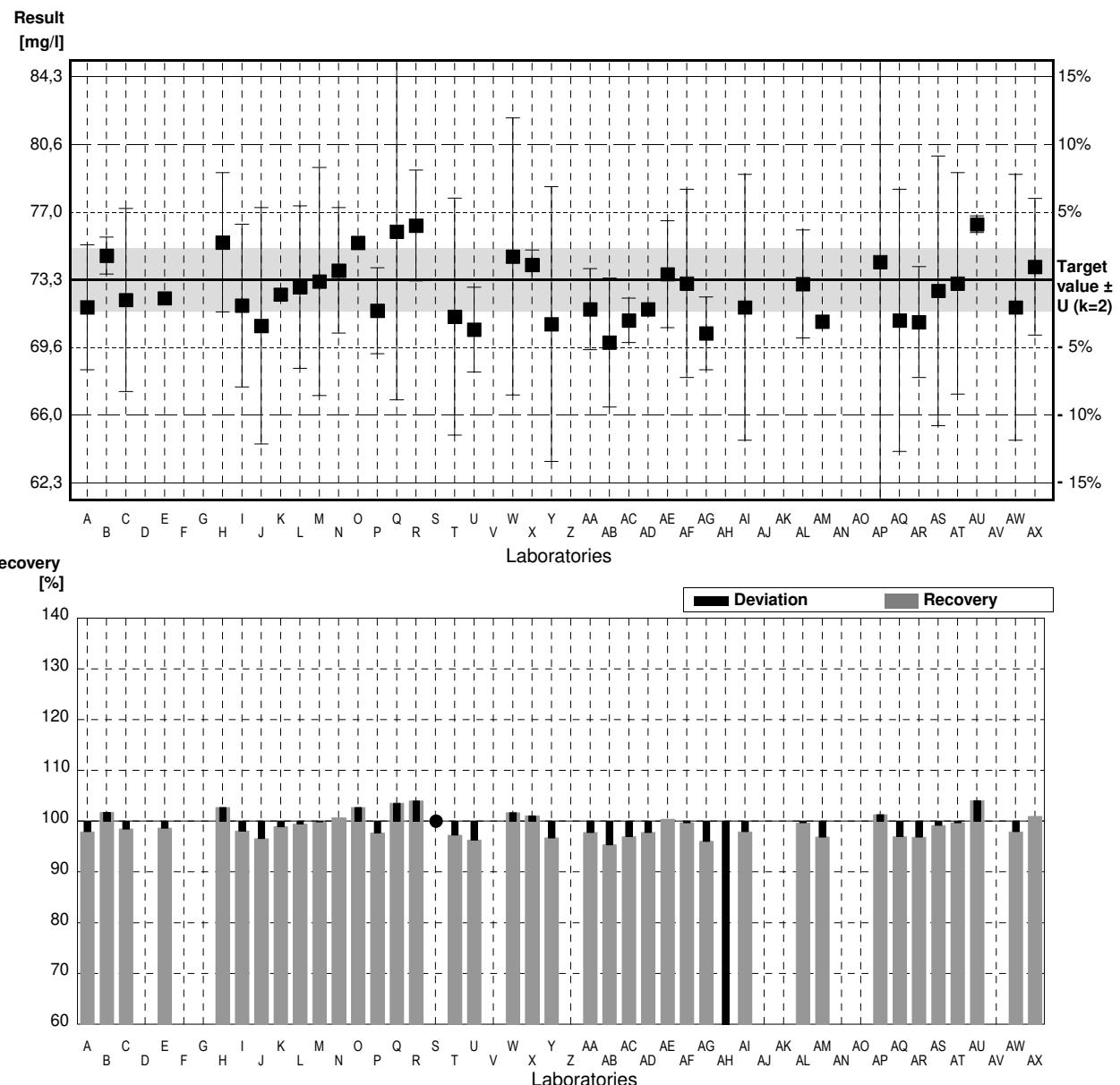
# Sample N158B

## Parameter Nitrate

Target value  $\pm U$  ( $k=2$ ) 73,3 mg/l  $\pm$  1,7 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 70,2 mg/l  $\pm$  3,5 mg/l

### Stability test mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	71,81	3,38	mg/l	98%	-0,62
B	74,6	1	mg/l	102%	0,54
C	72,2	4,95	mg/l	98%	-0,45
D			mg/l		
E	72,3		mg/l	99%	-0,41
F			mg/l		
G			mg/l		
H	75,32	3,77	mg/l	103%	0,84
I	71,9	4,4	mg/l	98%	-0,58
J	70,8	6,4	mg/l	97%	-1,03
K	72,5	0,3	mg/l	99%	-0,33
L	72,9	4,4	mg/l	99%	-0,17
M	73,2	6,18	mg/l	100%	-0,04
N	73,8	3,4	mg/l	101%	0,21
O	75,3	0,100	mg/l	103%	0,83
P	71,62	2,33	mg/l	98%	-0,69
Q	75,9	9,11	mg/l	104%	1,07
R	76,23	3	mg/l	104%	1,21
S	>30		mg/l	*	
T	71,3	6,42	mg/l	97%	-0,83
U	70,6	2,3	mg/l	96%	-1,12
V			mg/l		
W	74,555	7,5	mg/l	102%	0,52
X	74,1	0,805	mg/l	101%	0,33
Y	70,9	7,44	mg/l	97%	-0,99
Z			mg/l		
AA	71,7	2,2	mg/l	98%	-0,66
AB	69,9	3,49	mg/l	95%	-1,41
AC	71,1	1,2	mg/l	97%	-0,91
AD	71,7		mg/l	98%	-0,66
AE	73,6	2,9	mg/l	100%	0,12
AF	73,1	5,1	mg/l	100%	-0,08
AG	70,4	1,97	mg/l	96%	-1,20
AH	16,4 *	1,6	mg/l	22%	-23,52
AI	71,8	7,2	mg/l	98%	-0,62
AJ			mg/l		
AK			mg/l		
AL	73,069	2,9228	mg/l	100%	-0,10
AM	71,03		mg/l	97%	-0,94
AN			mg/l		
AO			mg/l		



AP	74,257	14,851	mg/l	101%	0,40
AQ	71,1	7,1	mg/l	97%	-0,91
AR	71	3	mg/l	97%	-0,95
AS	72,7	7,3	mg/l	99%	-0,25
AT	73,1	6	mg/l	100%	-0,08
AU	76,3	0,45	mg/l	104%	1,24
AV			mg/l		
AW	71,8	7,2	mg/l	98%	-0,62
AX	74,0	3,7	mg/l	101%	0,29

	All results	Outliers excl.	Unit
Mean ± CI(99%)	71,3 ± 4,0	72,7 ± 0,8	mg/l
Recov. ± CI(99%)	97,2 ± 5,4	99,2 ± 1,0	%
SD between labs	9,2	1,7	mg/l
RSD between labs	12,9	2,4	%
n for calculation	39	38	

## Sample N158A

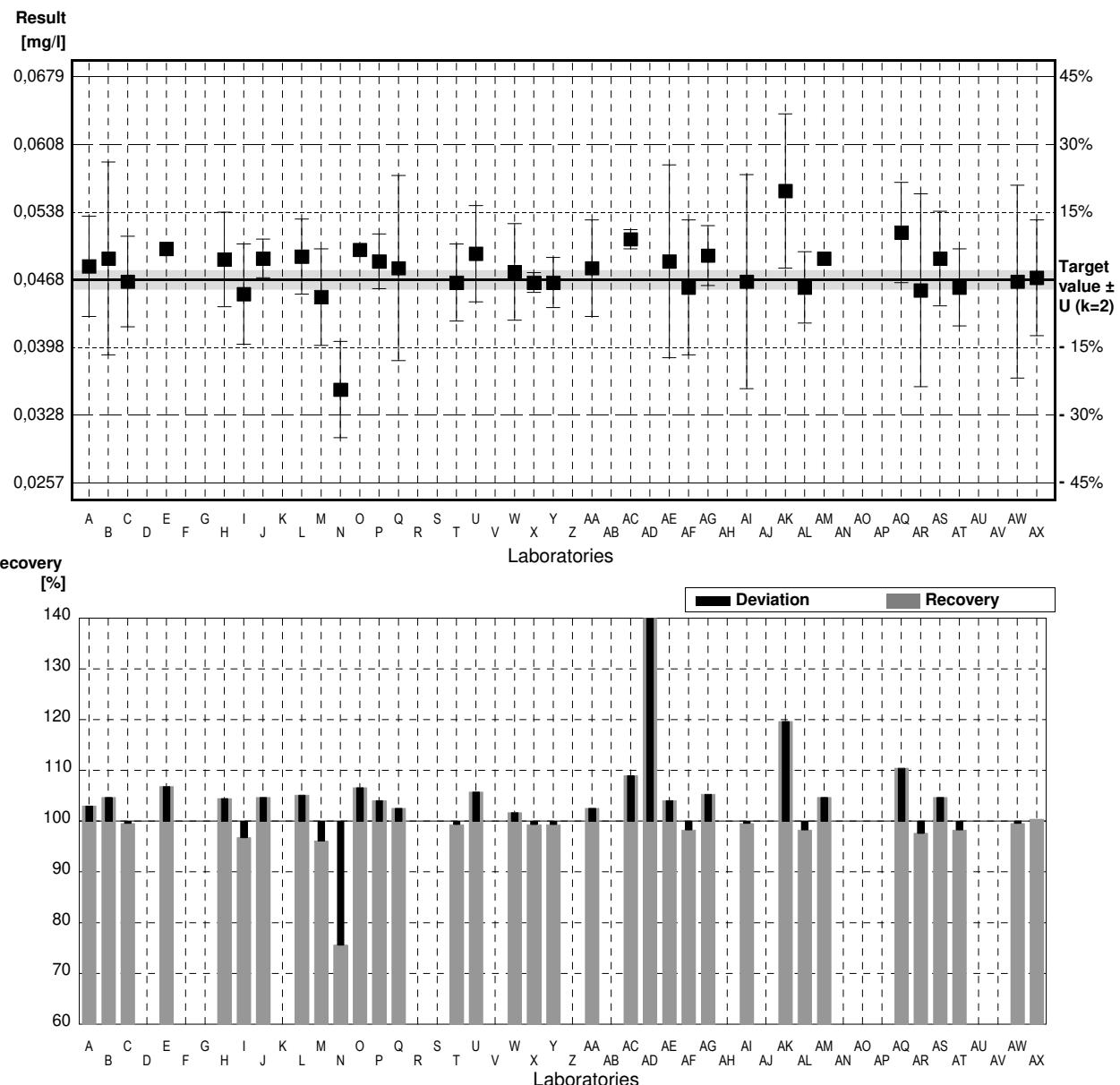
### Parameter Nitrite

Target value  $\pm U$  ( $k=2$ ) 0,0468 mg/l  $\pm$  0,0010 mg/l

IFA result  $\pm U$  ( $k=2$ ) 0,0459 mg/l  $\pm$  0,0023 mg/l

Stability test  $\pm U$  ( $k=2$ ) 0,0469 mg/l  $\pm$  0,0023 mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	0,0482	0,0052	mg/l	103%	0,49
B	0,0490	0,01	mg/l	105%	0,77
C	0,0466	0,0047	mg/l	100%	-0,07
D			mg/l		
E	0,050		mg/l	107%	1,12
F			mg/l		
G			mg/l		
H	0,0489	0,0049	mg/l	104%	0,74
I	0,0453	0,0052	mg/l	97%	-0,53
J	0,0490	0,0020	mg/l	105%	0,77
K			mg/l		
L	0,0492	0,0039	mg/l	105%	0,84
M	0,0450	0,005	mg/l	96%	-0,63
N	0,0354 *	0,005	mg/l	76%	-3,99
O	0,0499	0,0001	mg/l	107%	1,09
P	0,0487	0,00284	mg/l	104%	0,67
Q	0,0480	0,0096	mg/l	103%	0,42
R			mg/l		
S			mg/l		
T	0,0465	0,004	mg/l	99%	-0,11
U	0,0495	0,005	mg/l	106%	0,95
V			mg/l		
W	0,0476	0,005	mg/l	102%	0,28
X	0,0465	0,00103	mg/l	99%	-0,11
Y	0,0465	0,0026	mg/l	99%	-0,11
Z			mg/l		
AA	0,0480	0,005	mg/l	103%	0,42
AB			mg/l		
AC	0,051	0,001	mg/l	109%	1,47
AD	0,460 *		mg/l	983%	144,74
AE	0,0487	0,010	mg/l	104%	0,67
AF	0,0460	0,007	mg/l	98%	-0,28
AG	0,0493	0,0031	mg/l	105%	0,88
AH			mg/l		
AI	0,0466	0,0111	mg/l	100%	-0,07
AJ			mg/l		
AK	0,056 *	0,008	mg/l	120%	3,22
AL	0,04600	0,00370	mg/l	98%	-0,28
AM	0,0490		mg/l	105%	0,77
AN			mg/l		
AO			mg/l		



AP			mg/l		
AQ	0,0517	0,0052	mg/l	110%	1,72
AR	0,0457	0,01	mg/l	98%	-0,39
AS	0,0490	0,0049	mg/l	105%	0,77
AT	0,0460	0,004	mg/l	98%	-0,28
AU			mg/l		
AV			mg/l		
AW	0,0466	0,01	mg/l	100%	-0,07
AX	0,0470	0,006	mg/l	100%	0,07

	All results	Outliers excl.	Unit
Mean ± CI(99%)	$0,0599 \pm 0,0333$	$0,0479 \pm 0,0008$	mg/l
Recov. ± CI(99%)	$128,0 \pm 71,1$	$102,4 \pm 1,8$	%
SD between labs	0,0708	0,0017	mg/l
RSD between labs	118,1	3,6	%
n for calculation	34	31	

## Sample N158B

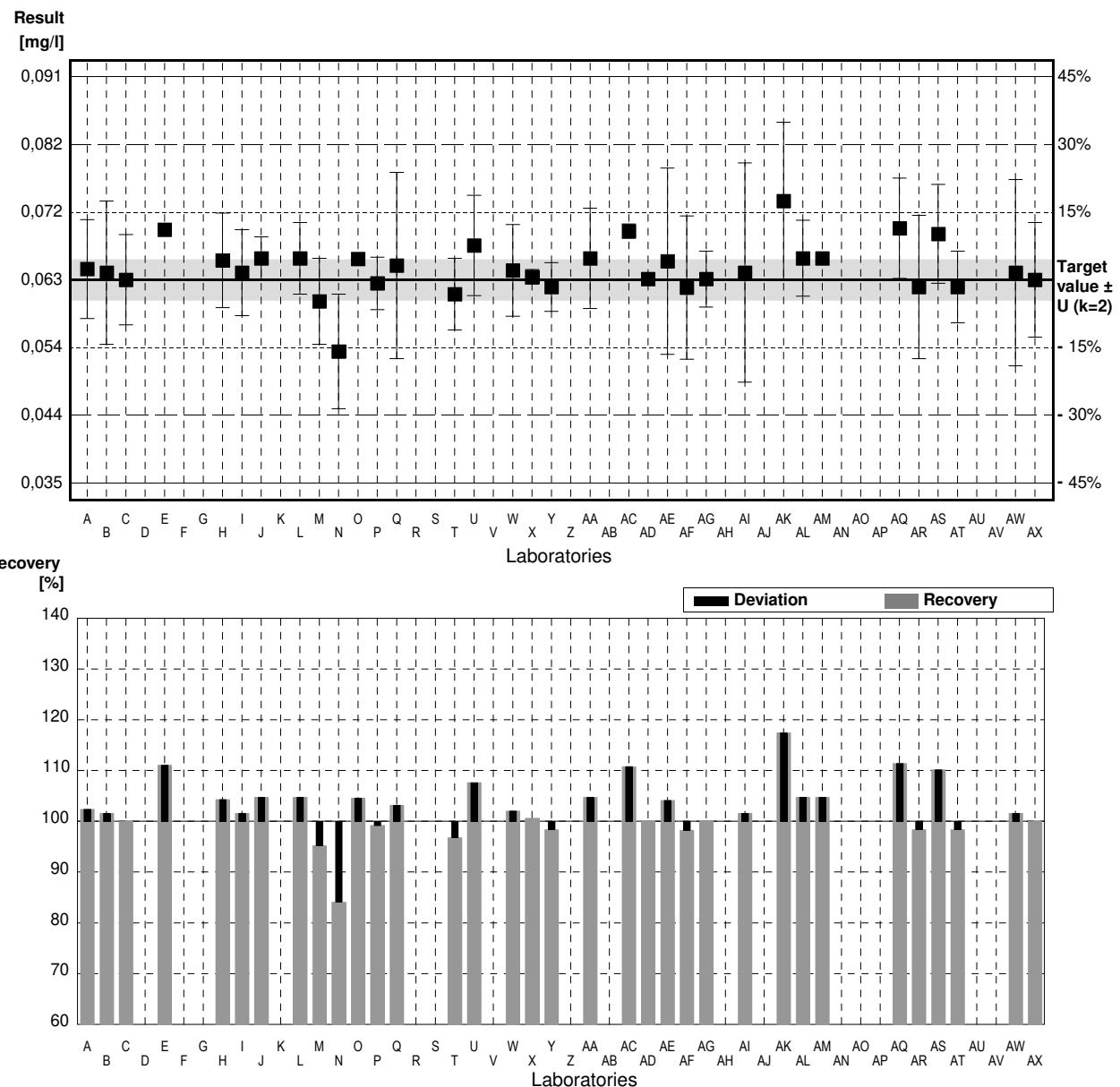
### Parameter Nitrite

Target value  $\pm U$  ( $k=2$ ) 0,063 mg/l  $\pm$  0,003 mg/l

IFA result  $\pm U$  ( $k=2$ ) 0,063 mg/l  $\pm$  0,003 mg/l

Stability test  $\pm U$  ( $k=2$ ) 0,064 mg/l  $\pm$  0,003 mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	0,0645	0,0069	mg/l	102%	0,39
B	0,0640	0,01	mg/l	102%	0,26
C	0,0630	0,0063	mg/l	100%	0,00
D			mg/l		
E	0,070		mg/l	111%	1,82
F			mg/l		
G			mg/l		
H	0,0657	0,0066	mg/l	104%	0,70
I	0,064	0,006	mg/l	102%	0,26
J	0,066	0,003	mg/l	105%	0,78
K			mg/l		
L	0,066	0,005	mg/l	105%	0,78
M	0,060	0,006	mg/l	95%	-0,78
N	0,053 *	0,008	mg/l	84%	-2,60
O	0,0659	0,0001	mg/l	105%	0,75
P	0,0625	0,00365	mg/l	99%	-0,13
Q	0,065	0,013	mg/l	103%	0,52
R			mg/l		
S			mg/l		
T	0,0610	0,005	mg/l	97%	-0,52
U	0,0678	0,007	mg/l	108%	1,25
V			mg/l		
W	0,0643	0,0064	mg/l	102%	0,34
X	0,0634	0,00102	mg/l	101%	0,10
Y	0,0620	0,0034	mg/l	98%	-0,26
Z			mg/l		
AA	0,066	0,007	mg/l	105%	0,78
AB			mg/l		
AC	0,0698	0,001	mg/l	111%	1,77
AD	0,0631		mg/l	100%	0,03
AE	0,0656	0,013	mg/l	104%	0,68
AF	0,0619	0,01	mg/l	98%	-0,29
AG	0,0631	0,0039	mg/l	100%	0,03
AH			mg/l		
AI	0,0640	0,0153	mg/l	102%	0,26
AJ			mg/l		
AK	0,074 *	0,011	mg/l	117%	2,86
AL	0,06600	0,00530	mg/l	105%	0,78
AM	0,0660		mg/l	105%	0,78
AN			mg/l		
AO			mg/l		



AP			mg/l		
AQ	0,0702	0,0070	mg/l	111%	1,87
AR	0,062	0,01	mg/l	98%	-0,26
AS	0,0694	0,0069	mg/l	110%	1,67
AT	0,062	0,005	mg/l	98%	-0,26
AU			mg/l		
AV			mg/l		
AW	0,0640	0,013	mg/l	102%	0,26
AX	0,063	0,008	mg/l	100%	0,00

	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,065 ± 0,002	0,065 ± 0,001	mg/l
Recov. ± CI(99%)	102,6 ± 2,7	102,7 ± 2,0	%
SD between labs	0,004	0,003	mg/l
RSD between labs	5,6	4,0	%
n for calculation	34	32	

## Sample N158A

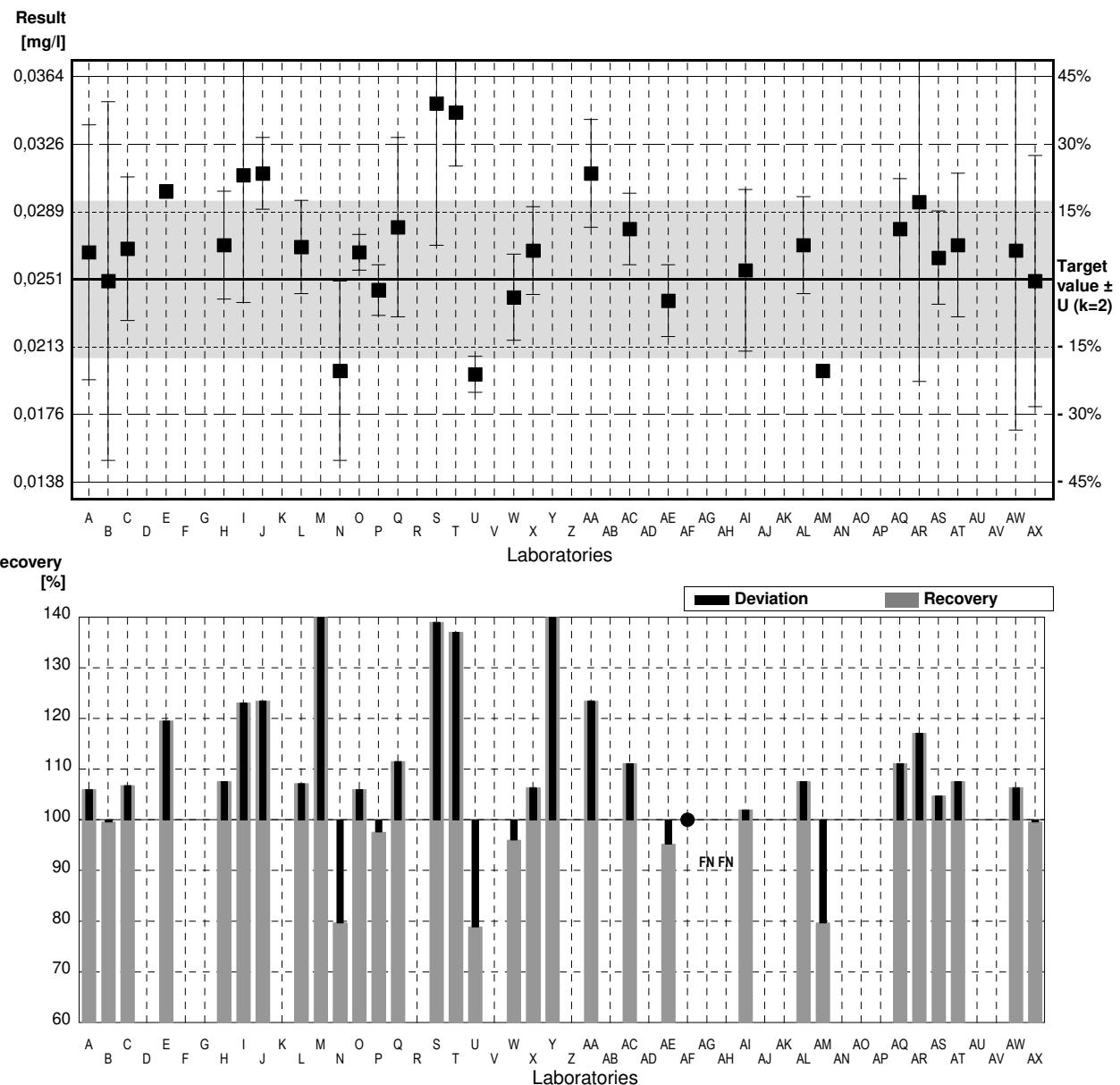
### Parameter Ammonium

Target value  $\pm U$  ( $k=2$ ) 0,0251 mg/l  $\pm$  0,0044 mg/l

IFA result  $\pm U$  ( $k=2$ ) 0,0255 mg/l  $\pm$  0,0020 mg/l

Stability test  $\pm U$  ( $k=2$ ) 0,0246 mg/l  $\pm$  0,0020 mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	0,0266	0,0071	mg/l	106%	0,50
B	0,0250	0,01	mg/l	100%	-0,03
C	0,0268	0,0040	mg/l	107%	0,56
D			mg/l		
E	0,0300		mg/l	120%	1,63
F			mg/l		
G			mg/l		
H	0,0270	0,003	mg/l	108%	0,63
I	0,0309	0,0071	mg/l	123%	1,93
J	0,0310	0,0020	mg/l	124%	1,96
K			mg/l		
L	0,0269	0,0026	mg/l	107%	0,60
M	0,0400 *	0,01	mg/l	159%	4,95
N	0,0200	0,005	mg/l	80%	-1,69
O	0,0266	0,001	mg/l	106%	0,50
P	0,0245	0,00141	mg/l	98%	-0,20
Q	0,0280	0,005	mg/l	112%	0,96
R			mg/l		
S	0,0349	0,0079	mg/l	139%	3,25
T	0,0344	0,003	mg/l	137%	3,09
U	0,0198	0,001	mg/l	79%	-1,76
V			mg/l		
W	0,0241	0,0024	mg/l	96%	-0,33
X	0,0267	0,00245	mg/l	106%	0,53
Y	0,0375 *	0,0016	mg/l	149%	4,12
Z			mg/l		
AA	0,0310	0,003	mg/l	124%	1,96
AB			mg/l		
AC	0,0279	0,002	mg/l	111%	0,93
AD			mg/l		
AE	0,0239	0,002	mg/l	95%	-0,40
AF	<0,040		mg/l	*	
AG	<0,02		mg/l	FN	
AH	<0,02		mg/l	FN	
AI	0,0256	0,0045	mg/l	102%	0,17
AJ			mg/l		
AK			mg/l		
AL	0,02700	0,00270	mg/l	108%	0,63
AM	0,0200		mg/l	80%	-1,69
AN			mg/l		
AO			mg/l		



AP			mg/l		
AQ	0,0279	0,0028	mg/l	111%	0,93
AR	0,0294	0,01	mg/l	117%	1,43
AS	0,0263	0,0026	mg/l	105%	0,40
AT	0,0270	0,004	mg/l	108%	0,63
AU			mg/l		
AV			mg/l		
AW	0,0267	0,01	mg/l	106%	0,53
AX	0,0250	0,007	mg/l	100%	-0,03

	All results	Outliers excl.	Unit
Mean ± CI(99%)	$0,0277 \pm 0,0023$	$0,0269 \pm 0,0019$	mg/l
Recov. ± CI(99%)	$110,3 \pm 9,0$	$107,3 \pm 7,4$	%
SD between labs	0,0046	0,0036	mg/l
RSD between labs	16,6	13,4	%
n for calculation	31	29	

## Sample N158B

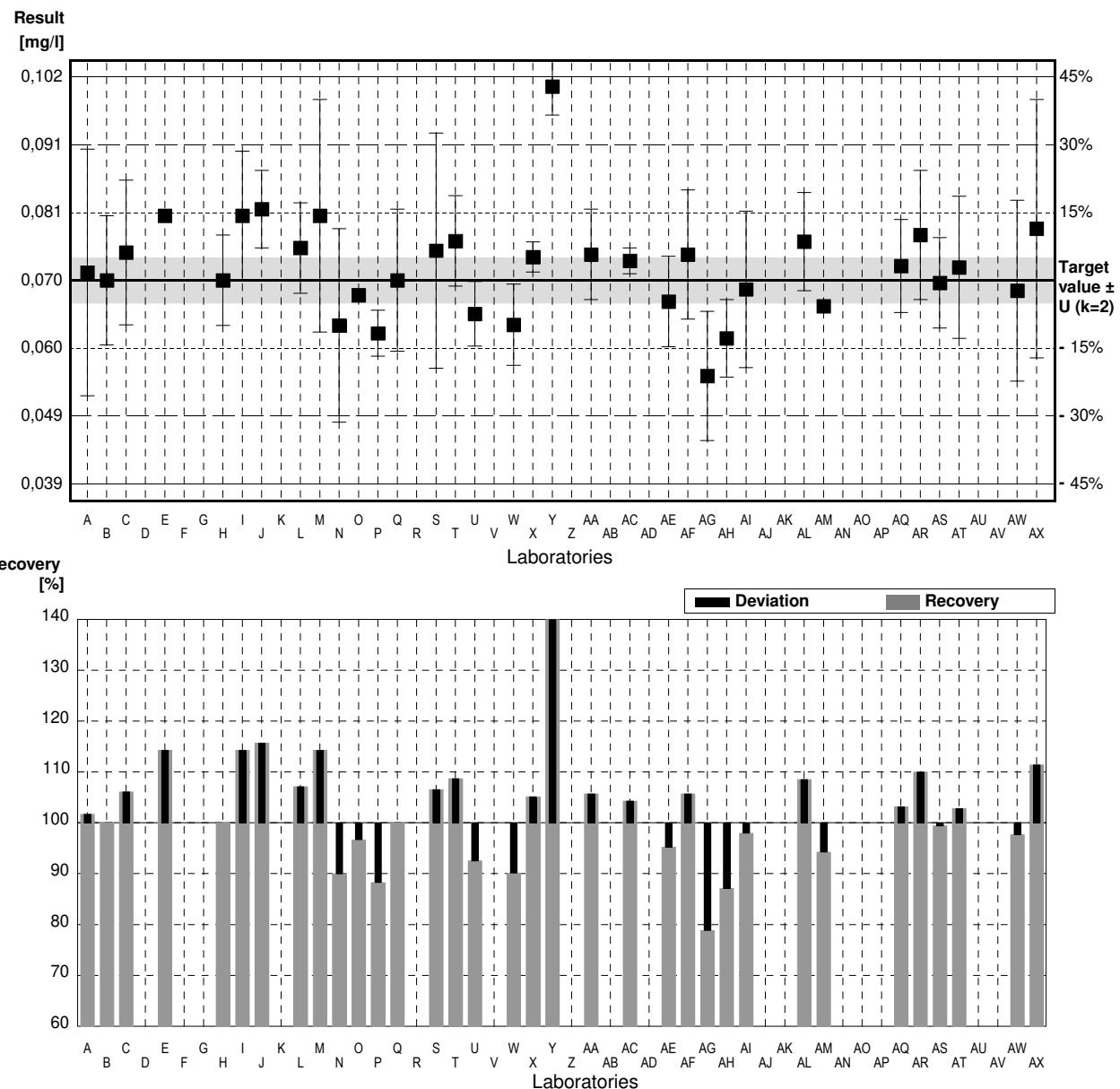
### Parameter Ammonium

Target value  $\pm U$  ( $k=2$ ) 0,070 mg/l  $\pm$  0,003 mg/l

IFA result  $\pm U$  ( $k=2$ ) 0,071 mg/l  $\pm$  0,002 mg/l

Stability test  $\pm U$  ( $k=2$ ) 0,069 mg/l  $\pm$  0,002 mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	0,0712	0,0191	mg/l	102%	0,14
B	0,0700	0,01	mg/l	100%	0,00
C	0,0743	0,0112	mg/l	106%	0,51
D			mg/l		
E	0,080		mg/l	114%	1,19
F			mg/l		
G			mg/l		
H	0,070	0,007	mg/l	100%	0,00
I	0,080	0,01	mg/l	114%	1,19
J	0,081	0,006	mg/l	116%	1,31
K			mg/l		
L	0,075	0,007	mg/l	107%	0,60
M	0,080	0,018	mg/l	114%	1,19
N	0,063	0,015	mg/l	90%	-0,83
O	0,0677	0,001	mg/l	97%	-0,27
P	0,0618	0,00356	mg/l	88%	-0,98
Q	0,070	0,011	mg/l	100%	0,00
R			mg/l		
S	0,0746	0,01820	mg/l	107%	0,55
T	0,0761	0,007	mg/l	109%	0,73
U	0,0648	0,005	mg/l	93%	-0,62
V			mg/l		
W	0,0631	0,0063	mg/l	90%	-0,82
X	0,0736	0,00233	mg/l	105%	0,43
Y	0,100 *	0,0044	mg/l	143%	3,57
Z			mg/l		
AA	0,074	0,007	mg/l	106%	0,48
AB			mg/l		
AC	0,0730	0,002	mg/l	104%	0,36
AD			mg/l		
AE	0,0667	0,007	mg/l	95%	-0,39
AF	0,074	0,01	mg/l	106%	0,48
AG	0,0552	0,010	mg/l	79%	-1,76
AH	0,061	0,006	mg/l	87%	-1,07
AI	0,0686	0,0121	mg/l	98%	-0,17
AJ			mg/l		
AK			mg/l		
AL	0,07600	0,00760	mg/l	109%	0,71
AM	0,0660		mg/l	94%	-0,48
AN			mg/l		
AO			mg/l		



AP			mg/l		
AQ	0,0722	0,0072	mg/l	103%	0,26
AR	0,077	0,01	mg/l	110%	0,83
AS	0,0696	0,0070	mg/l	99%	-0,05
AT	0,072	0,011	mg/l	103%	0,24
AU			mg/l		
AV			mg/l		
AW	0,0684	0,014	mg/l	98%	-0,19
AX	0,0780	0,020	mg/l	111%	0,95

	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,072 ± 0,004	0,071 ± 0,003	mg/l
Recov. ± CI(99%)	102,9 ± 5,3	101,6 ± 4,2	%
SD between labs	0,008	0,006	mg/l
RSD between labs	10,9	8,7	%
n for calculation	34	33	

# Sample N158A

## Parameter Chloride

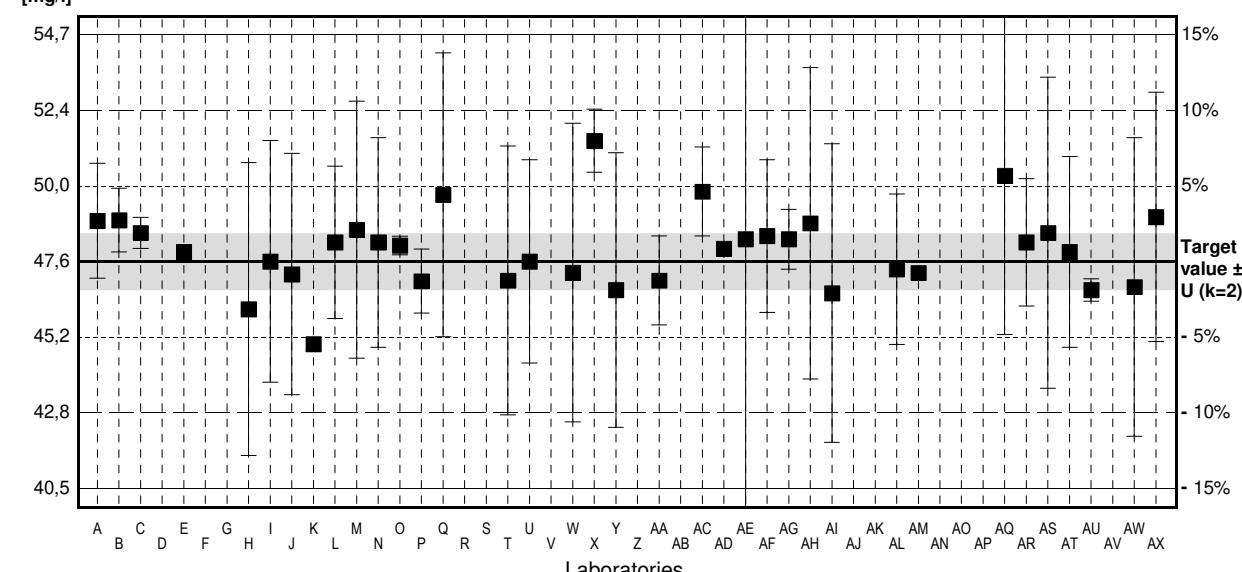
Target value  $\pm U$  ( $k=2$ ) 47,6 mg/l  $\pm$  0,9 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 47,0 mg/l  $\pm$  1,9 mg/l

### Stability test mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	48,88	1,81	mg/l	103%	0,90
B	48,9	1	mg/l	103%	0,91
C	48,5	0,49	mg/l	102%	0,63
D			mg/l		
E	47,9		mg/l	101%	0,21
F			mg/l		
G			mg/l		
H	46,1	4,61	mg/l	97%	-1,05
I	47,6	3,8	mg/l	100%	0,00
J	47,2	3,8	mg/l	99%	-0,28
K	45,0	0,2	mg/l	95%	-1,82
L	48,2	2,4	mg/l	101%	0,42
M	48,6	4,05	mg/l	102%	0,70
N	48,2	3,3	mg/l	101%	0,42
O	48,1	0,289	mg/l	101%	0,35
P	46,98	1,01	mg/l	99%	-0,43
Q	49,7	4,47	mg/l	104%	1,47
R			mg/l		
S			mg/l		
T	47,0	4,23	mg/l	99%	-0,42
U	47,6	3,2	mg/l	100%	0,00
V			mg/l		
W	47,248	4,7	mg/l	99%	-0,25
X	51,4	0,998	mg/l	108%	2,66
Y	46,7	4,32	mg/l	98%	-0,63
Z			mg/l		
AA	47,0	1,4	mg/l	99%	-0,42
AB	39,1 *	1,96	mg/l	82%	-5,95
AC	49,8	1,4	mg/l	105%	1,54
AD	48,0		mg/l	101%	0,28
AE	48,3	12,1	mg/l	101%	0,49
AF	48,4	2,4	mg/l	102%	0,56
AG	48,3	0,941	mg/l	101%	0,49
AH	48,8	4,9	mg/l	103%	0,84
AI	46,6	4,7	mg/l	98%	-0,70
AJ			mg/l		
AK			mg/l		
AL	47,36	2,368	mg/l	99%	-0,17
AM	47,24		mg/l	99%	-0,25
AN			mg/l		
AO			mg/l		

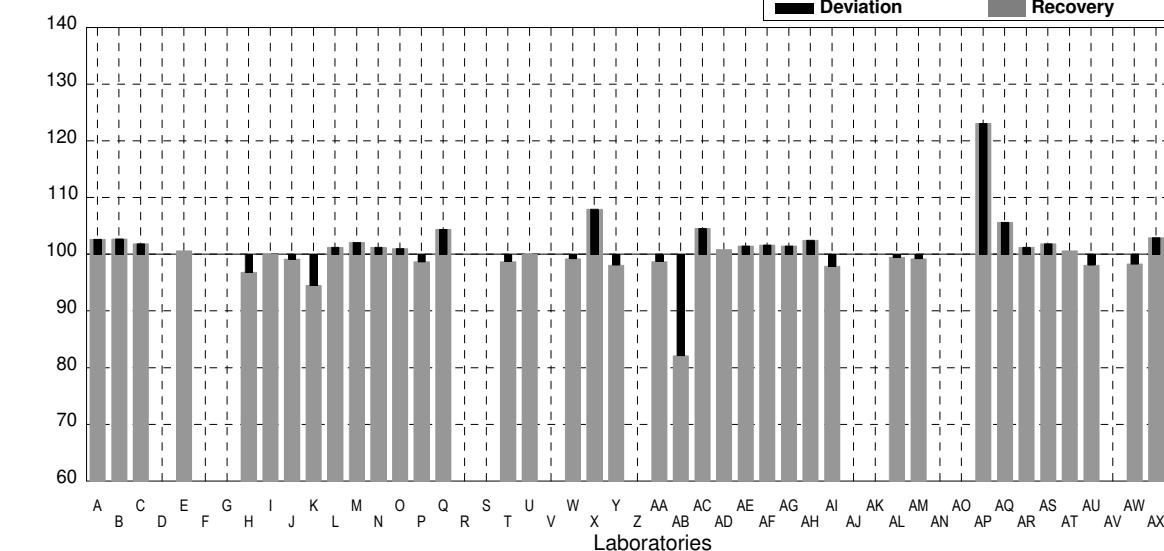
### Result

[mg/l]



### Recovery

[%]



AP	58,610 *	8,791	mg/l	123%	7,71
AQ	50,3	5,0	mg/l	106%	1,89
AR	48,2	2	mg/l	101%	0,42
AS	48,5	4,9	mg/l	102%	0,63
AT	47,9	3	mg/l	101%	0,21
AU	46,7	0,35	mg/l	98%	-0,63
AV			mg/l		
AW	46,8	4,7	mg/l	98%	-0,56
AX	49,0	3,92	mg/l	103%	0,98

	All results	Outliers excl.	Unit
Mean ± CI(99%)	48,0 ± 1,1	48,0 ± 0,6	mg/l
Recov. ± CI(99%)	100,9 ± 2,4	100,8 ± 1,2	%
SD between labs	2,6	1,2	mg/l
RSD between labs	5,4	2,6	%
n for calculation	38	36	

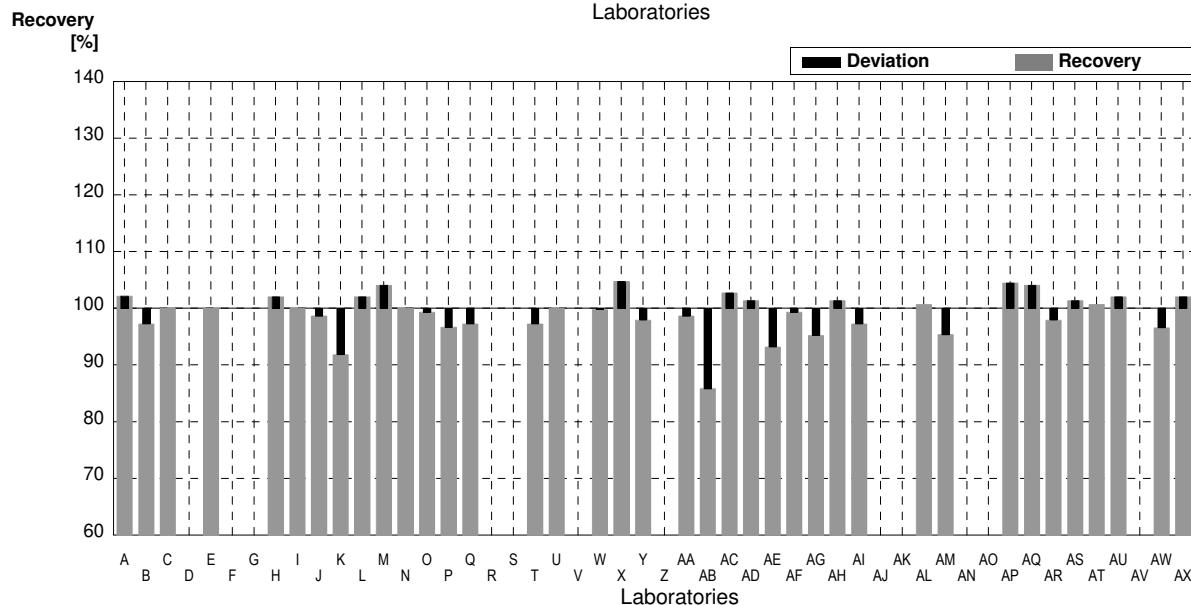
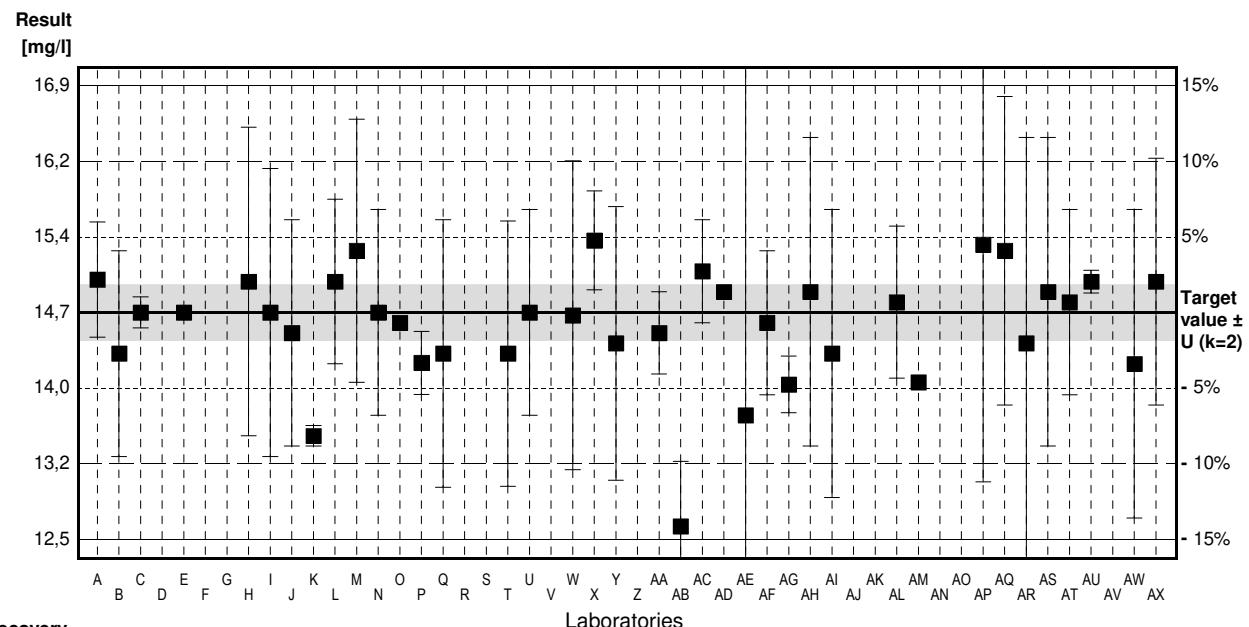
# Sample N158B

## Parameter Chloride

Target value  $\pm U$  ( $k=2$ ) 14,7 mg/l  $\pm$  0,3 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 14,4 mg/l  $\pm$  0,6 mg/l

### Stability test mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	15,02	0,56	mg/l	102%	0,73
B	14,3	1	mg/l	97%	-0,91
C	14,7	0,15	mg/l	100%	0,00
D			mg/l		
E	14,7		mg/l	100%	0,00
F			mg/l		
G			mg/l		
H	15,0	1,5	mg/l	102%	0,68
I	14,7	1,4	mg/l	100%	0,00
J	14,5	1,1	mg/l	99%	-0,45
K	13,5	0,1	mg/l	92%	-2,72
L	15,0	0,8	mg/l	102%	0,68
M	15,3	1,28	mg/l	104%	1,36
N	14,7	1	mg/l	100%	0,00
O	14,6	0,058	mg/l	99%	-0,23
P	14,21	0,307	mg/l	97%	-1,11
Q	14,3	1,3	mg/l	97%	-0,91
R			mg/l		
S			mg/l		
T	14,3	1,29	mg/l	97%	-0,91
U	14,7	1,0	mg/l	100%	0,00
V			mg/l		
W	14,672	1,5	mg/l	100%	-0,06
X	15,4	0,480	mg/l	105%	1,59
Y	14,4	1,33	mg/l	98%	-0,68
Z			mg/l		
AA	14,5	0,4	mg/l	99%	-0,45
AB	12,62 *	0,631	mg/l	86%	-4,72
AC	15,1	0,5	mg/l	103%	0,91
AD	14,9		mg/l	101%	0,45
AE	13,7	3,4	mg/l	93%	-2,27
AF	14,6	0,7	mg/l	99%	-0,23
AG	14,0	0,274	mg/l	95%	-1,59
AH	14,9	1,5	mg/l	101%	0,45
AI	14,3	1,4	mg/l	97%	-0,91
AJ			mg/l		
AK			mg/l		
AL	14,80	0,740	mg/l	101%	0,23
AM	14,02		mg/l	95%	-1,54
AN			mg/l		
AO			mg/l		



AP	15,358	2,304	mg/l	104%	1,49
AQ	15,3	1,5	mg/l	104%	1,36
AR	14,4	2	mg/l	98%	-0,68
AS	14,9	1,5	mg/l	101%	0,45
AT	14,8	0,9	mg/l	101%	0,23
AU	15,0	0,11	mg/l	102%	0,68
AV			mg/l		
AW	14,2	1,5	mg/l	97%	-1,13
AX	15,0	1,20	mg/l	102%	0,68

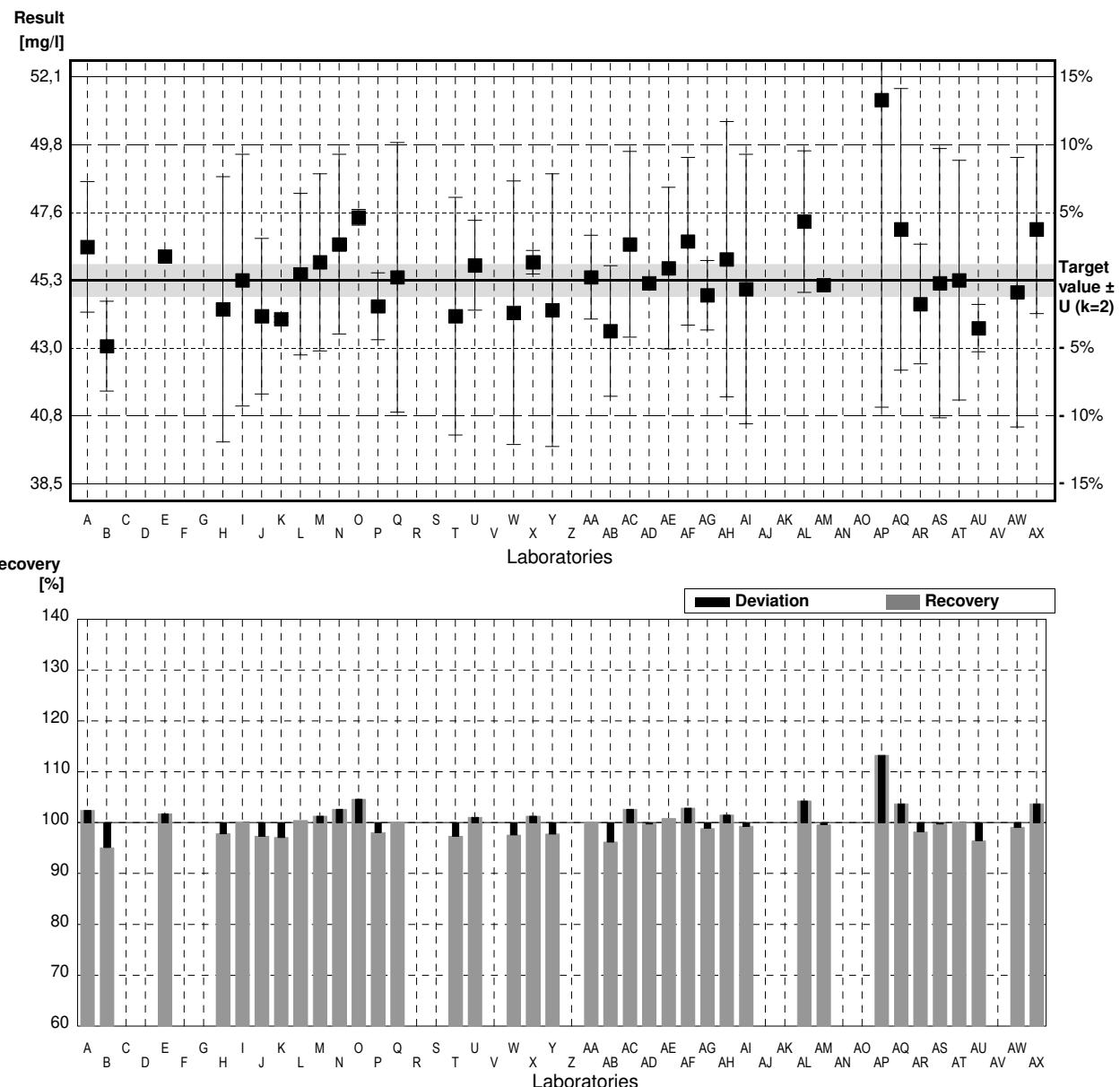
	All results	Outliers excl.	Unit
Mean ± CI(99%)	14,6 ± 0,2	14,6 ± 0,2	mg/l
Recov. ± CI(99%)	99,2 ± 1,6	99,6 ± 1,3	%
SD between labs	0,5	0,4	mg/l
RSD between labs	3,7	3,0	%
n for calculation	38	37	

## Sample N158A

### Parameter Sulphate

Target value  $\pm U$  ( $k=2$ ) 45,3 mg/l  $\pm$  0,5 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 45,0 mg/l  $\pm$  0,9 mg/l

Stability test					
Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	46,41	2,18	mg/l	102%	0,79
B	43,1	1,5	mg/l	95%	-1,57
C			mg/l		
D			mg/l		
E	46,1		mg/l	102%	0,57
F			mg/l		
G			mg/l		
H	44,33	4,43	mg/l	98%	-0,69
I	45,3	4,2	mg/l	100%	0,00
J	44,1	2,6	mg/l	97%	-0,85
K	44,0	0,1	mg/l	97%	-0,93
L	45,5	2,7	mg/l	100%	0,14
M	45,9	2,96	mg/l	101%	0,43
N	46,5	3	mg/l	103%	0,85
O	47,4	0,265	mg/l	105%	1,50
P	44,43	1,12	mg/l	98%	-0,62
Q	45,4	4,5	mg/l	100%	0,07
R			mg/l		
S			mg/l		
T	44,1	3,97	mg/l	97%	-0,85
U	45,8	1,5	mg/l	101%	0,36
V			mg/l		
W	44,212	4,4	mg/l	98%	-0,77
X	45,9	0,388	mg/l	101%	0,43
Y	44,3	4,56	mg/l	98%	-0,71
Z			mg/l		
AA	45,4	1,4	mg/l	100%	0,07
AB	43,6	2,18	mg/l	96%	-1,21
AC	46,5	3,1	mg/l	103%	0,85
AD	45,2		mg/l	100%	-0,07
AE	45,7	2,7	mg/l	101%	0,28
AF	46,6	2,8	mg/l	103%	0,93
AG	44,8	1,16	mg/l	99%	-0,36
AH	46,0	4,6	mg/l	102%	0,50
AI	45,0	4,5	mg/l	99%	-0,21
AJ			mg/l		
AK			mg/l		
AL	47,26	2,363	mg/l	104%	1,40
AM	45,14		mg/l	100%	-0,11
AN			mg/l		
AO			mg/l		



AP	51,320 *	10,264	mg/l	113%	4,29
AQ	47,0	4,7	mg/l	104%	1,21
AR	44,5	2	mg/l	98%	-0,57
AS	45,2	4,5	mg/l	100%	-0,07
AT	45,3	4	mg/l	100%	0,00
AU	43,7	0,79	mg/l	96%	-1,14
AV			mg/l		
AW	44,9	4,5	mg/l	99%	-0,28
AX	47,0	2,82	mg/l	104%	1,21

	All results	Outliers excl.	Unit
Mean ± CI(99%)	45,5 ± 0,7	45,3 ± 0,5	mg/l
Recov. ± CI(99%)	100,4 ± 1,4	100,0 ± 1,1	%
SD between labs	1,5	1,1	mg/l
RSD between labs	3,2	2,4	%
n for calculation	37	36	

## Sample N158B

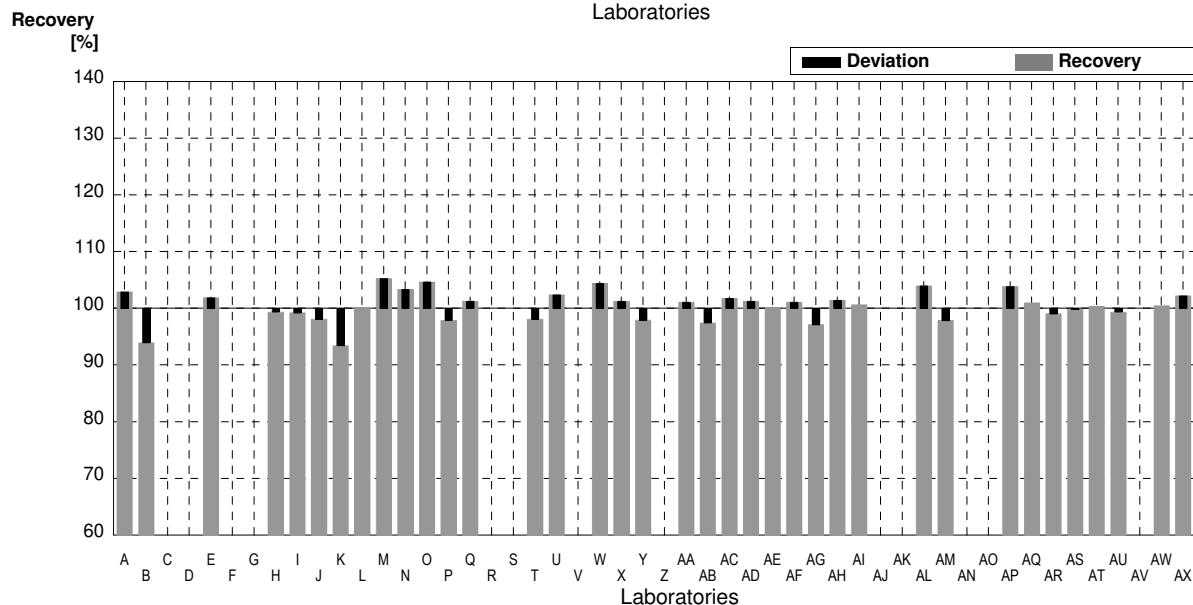
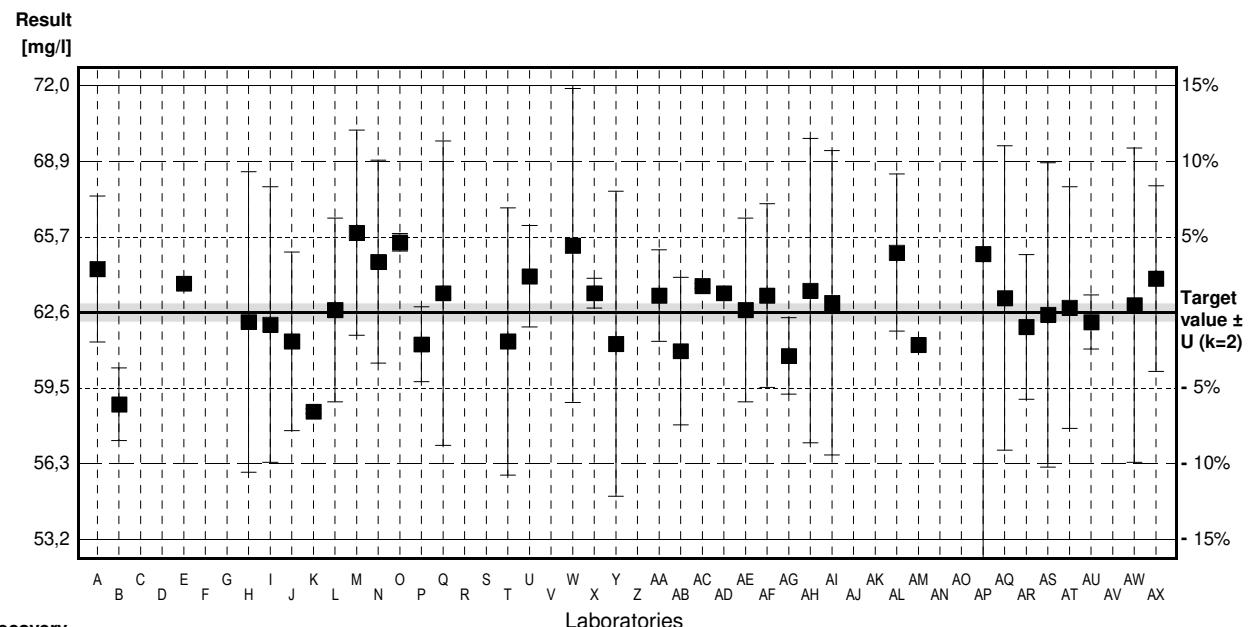
### Parameter Sulphate

Target value  $\pm U$  ( $k=2$ ) 62,6 mg/l  $\pm$  0,4 mg/l

IFA result  $\pm U$  ( $k=2$ ) 61,9 mg/l  $\pm$  1,2 mg/l

### Stability test mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	64,40	3,02	mg/l	103%	0,93
B	58,8	1,5	mg/l	94%	-1,96
C			mg/l		
D			mg/l		
E	63,8		mg/l	102%	0,62
F			mg/l		
G			mg/l		
H	62,21	6,22	mg/l	99%	-0,20
I	62,1	5,7	mg/l	99%	-0,26
J	61,4	3,7	mg/l	98%	-0,62
K	58,5	0,1	mg/l	93%	-2,11
L	62,7	3,8	mg/l	100%	0,05
M	65,9	4,25	mg/l	105%	1,70
N	64,7	4,2	mg/l	103%	1,08
O	65,5	0,364	mg/l	105%	1,49
P	61,28	1,55	mg/l	98%	-0,68
Q	63,4	6,3	mg/l	101%	0,41
R			mg/l		
S			mg/l		
T	61,4	5,53	mg/l	98%	-0,62
U	64,1	2,1	mg/l	102%	0,77
V			mg/l		
W	65,365	6,5	mg/l	104%	1,42
X	63,4	0,618	mg/l	101%	0,41
Y	61,3	6,31	mg/l	98%	-0,67
Z			mg/l		
AA	63,3	1,9	mg/l	101%	0,36
AB	61,0	3,05	mg/l	97%	-0,82
AC	63,7	0,1	mg/l	102%	0,57
AD	63,4		mg/l	101%	0,41
AE	62,7	3,8	mg/l	100%	0,05
AF	63,3	3,8	mg/l	101%	0,36
AG	60,8	1,58	mg/l	97%	-0,93
AH	63,5	6,3	mg/l	101%	0,46
AI	63,0	6,3	mg/l	101%	0,21
AJ			mg/l		
AK			mg/l		
AL	65,08	3,254	mg/l	104%	1,28
AM	61,26		mg/l	98%	-0,69
AN			mg/l		
AO			mg/l		



AP	65,026	13,005	mg/l	104%	1,25
AQ	63,2	6,3	mg/l	101%	0,31
AR	62	3	mg/l	99%	-0,31
AS	62,5	6,3	mg/l	100%	-0,05
AT	62,8	5	mg/l	100%	0,10
AU	62,2	1,12	mg/l	99%	-0,21
AV			mg/l		
AW	62,9	6,5	mg/l	100%	0,15
AX	64,0	3,84	mg/l	102%	0,72

	All results	Outliers excl.	Unit
Mean ± CI(99%)	62,9 ± 0,8	62,9 ± 0,8	mg/l
Recov. ± CI(99%)	100,4 ± 1,2	100,4 ± 1,2	%
SD between labs	1,7	1,7	mg/l
RSD between labs	2,7	2,7	%
n for calculation	37	37	

## Sample N158A

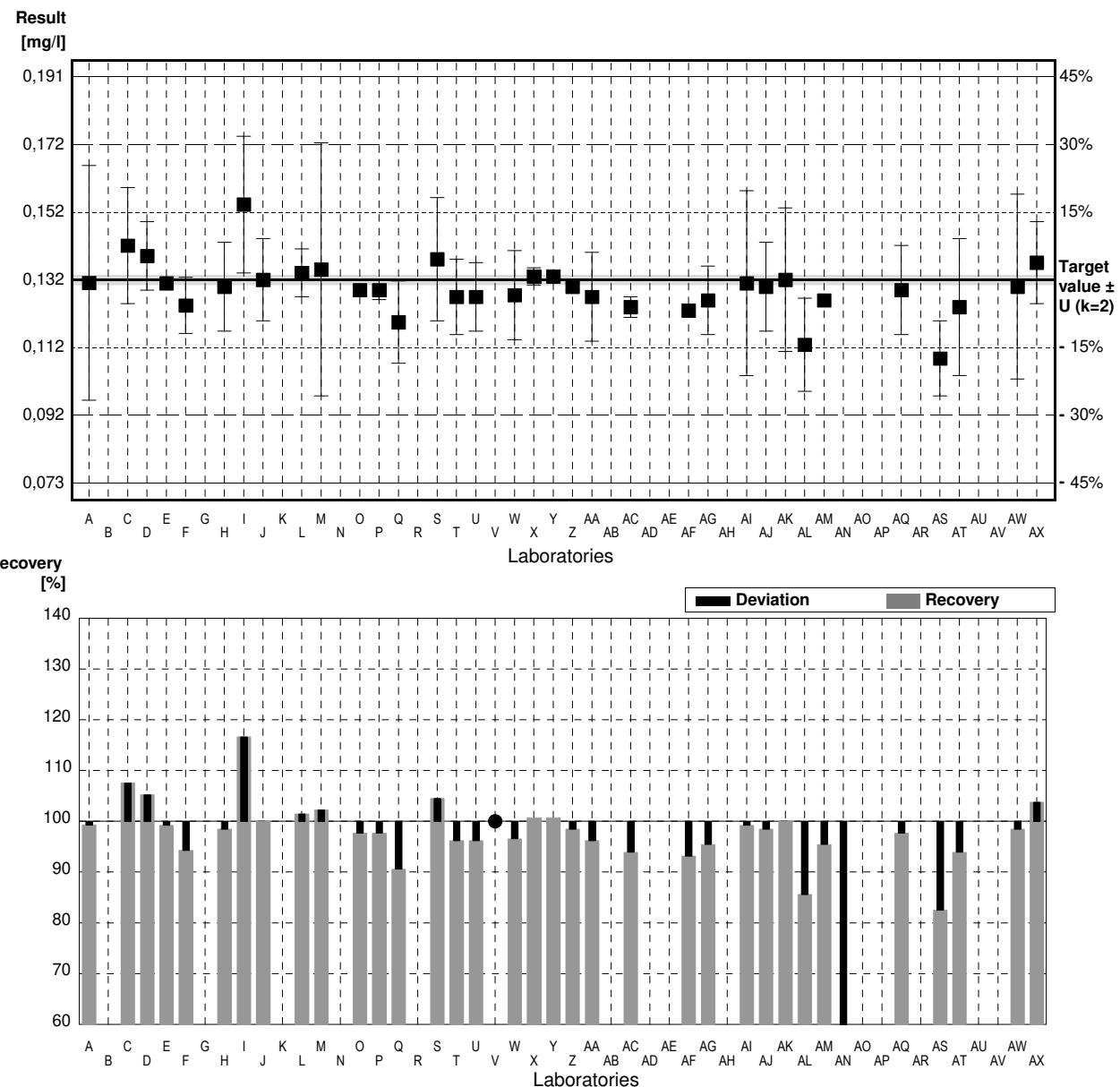
### Parameter Orthophosphate

Target value  $\pm U$  ( $k=2$ ) 0,132 mg/l  $\pm$  0,001 mg/l

IFA result  $\pm U$  ( $k=2$ ) 0,133 mg/l  $\pm$  0,001 mg/l

Stability test  $\pm U$  ( $k=2$ ) 0,132 mg/l  $\pm$  0,001 mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	0,1311	0,0343	mg/l	99%	-0,07
B			mg/l		
C	0,142	0,017	mg/l	108%	0,76
D	0,139	0,010	mg/l	105%	0,53
E	0,131		mg/l	99%	-0,08
F	0,1245	0,0082	mg/l	94%	-0,57
G			mg/l		
H	0,130	0,013	mg/l	98%	-0,15
I	0,154 *	0,020	mg/l	117%	1,67
J	0,132	0,012	mg/l	100%	0,00
K			mg/l		
L	0,134	0,007	mg/l	102%	0,15
M	0,135	0,037	mg/l	102%	0,23
N			mg/l		
O	0,129	0,001	mg/l	98%	-0,23
P	0,129	0,00286	mg/l	98%	-0,23
Q	0,1196	0,0120	mg/l	91%	-0,94
R			mg/l		
S	0,138	0,018	mg/l	105%	0,45
T	0,127	0,011	mg/l	96%	-0,38
U	0,127	0,01	mg/l	96%	-0,38
V	<0,2		mg/l	*	
W	0,1275	0,013	mg/l	97%	-0,34
X	0,133	0,00251	mg/l	101%	0,08
Y	0,133	0,0007	mg/l	101%	0,08
Z	0,130	0,001	mg/l	98%	-0,15
AA	0,127	0,013	mg/l	96%	-0,38
AB			mg/l		
AC	0,124	0,003	mg/l	94%	-0,61
AD			mg/l		
AE			mg/l		
AF	0,123		mg/l	93%	-0,68
AG	0,126	0,010	mg/l	95%	-0,45
AH			mg/l		
AI	0,131	0,027	mg/l	99%	-0,08
AJ	0,130	0,013	mg/l	98%	-0,15
AK	0,132	0,021	mg/l	100%	0,00
AL	0,11300 *	0,01360	mg/l	86%	-1,44
AM	0,126		mg/l	95%	-0,45
AN	0,064 *		mg/l	48%	-5,15
AO			mg/l		



AP			mg/l		
AQ	0,129	0,013	mg/l	98%	-0,23
AR			mg/l		
AS	0,109 *	0,011	mg/l	83%	-1,74
AT	0,124	0,02	mg/l	94%	-0,61
AU			mg/l		
AV			mg/l		
AW	0,130	0,027	mg/l	98%	-0,15
AX	0,137	0,012	mg/l	104%	0,38

	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,128 ± 0,006	0,130 ± 0,002	mg/l
Recov. ± CI(99%)	96,8 ± 4,7	98,5 ± 1,9	%
SD between labs	0,014	0,005	mg/l
RSD between labs	10,6	3,8	%
n for calculation	35	31	

## Sample N158B

### Parameter Orthophosphate

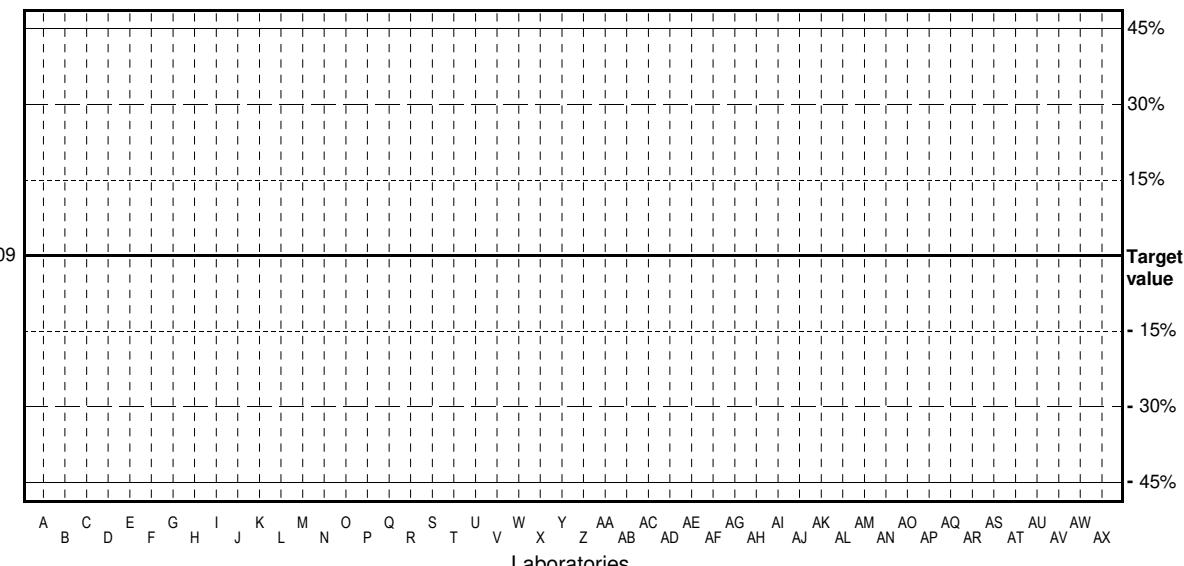
Target value <0,009 mg/l

IFA result <0,009 mg/l

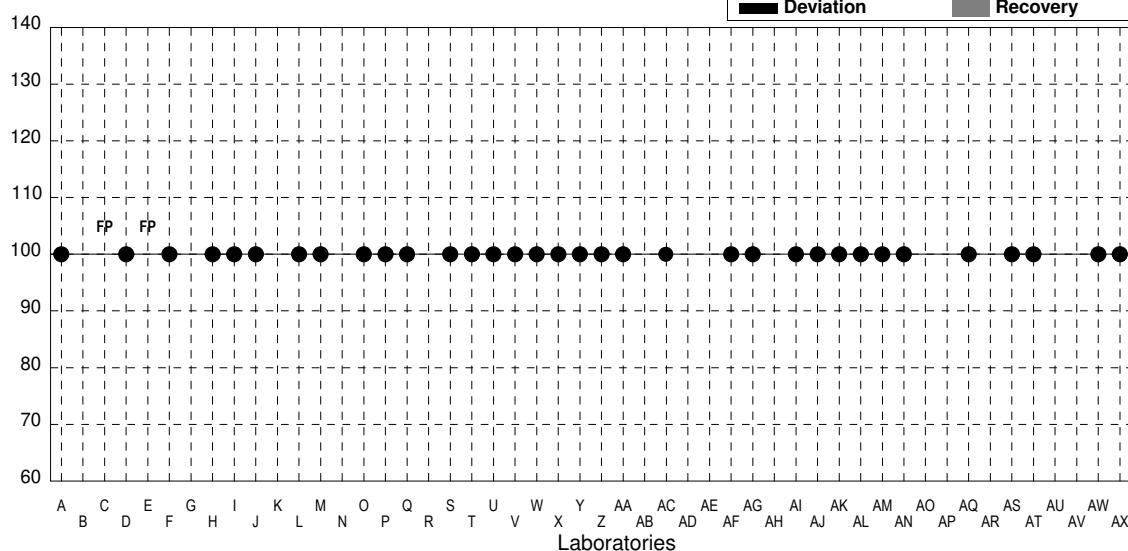
Stability test <0,009 mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	<0,015		mg/l	•	
B			mg/l		
C	0,0105	0,0012	mg/l	FP	
D	<0,05	0,005	mg/l	•	
E	0,0200		mg/l	FP	
F	<0,01		mg/l	•	
G			mg/l		
H	<0,01		mg/l	•	
I	<0,010		mg/l	•	
J	<0,015	0,002	mg/l	•	
K			mg/l		
L	<0,006		mg/l	•	
M	<0,03	0,01	mg/l	•	
N			mg/l		
O	<0,015		mg/l	•	
P	<0,0307	0,00066	mg/l	•	
Q	<0,030		mg/l	•	
R			mg/l		
S	<0,019		mg/l	•	
T	<0,01		mg/l	•	
U	<0,015		mg/l	•	
V	<0,2		mg/l	•	
W	<0,0055		mg/l	•	
X	<0,0150		mg/l	•	
Y	<0,050		mg/l	•	
Z	<0,015		mg/l	•	
AA	<0,020		mg/l	•	
AB			mg/l		
AC	'0,0104	0,003	mg/l	•	
AD			mg/l		
AE			mg/l		
AF	<0,06		mg/l	•	
AG	<0,01		mg/l	•	
AH			mg/l		
AI	<0,015		mg/l	•	
AJ	<0,031		mg/l	•	
AK	<0,01		mg/l	•	
AL	0,00900	0,00110	mg/l	•	
AM	<0,009		mg/l	•	
AN	<0,096		mg/l	•	
AO			mg/l		

Result  
[mg/l]



Recovery  
[%]



AP			mg/l		
AQ	<0,02		mg/l	•	
AR			mg/l		
AS	<0,008		mg/l	•	
AT	<0,01		mg/l	•	
AU			mg/l		
AV			mg/l		
AW	<0,015		mg/l	•	
AX	<0,009		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 N158A

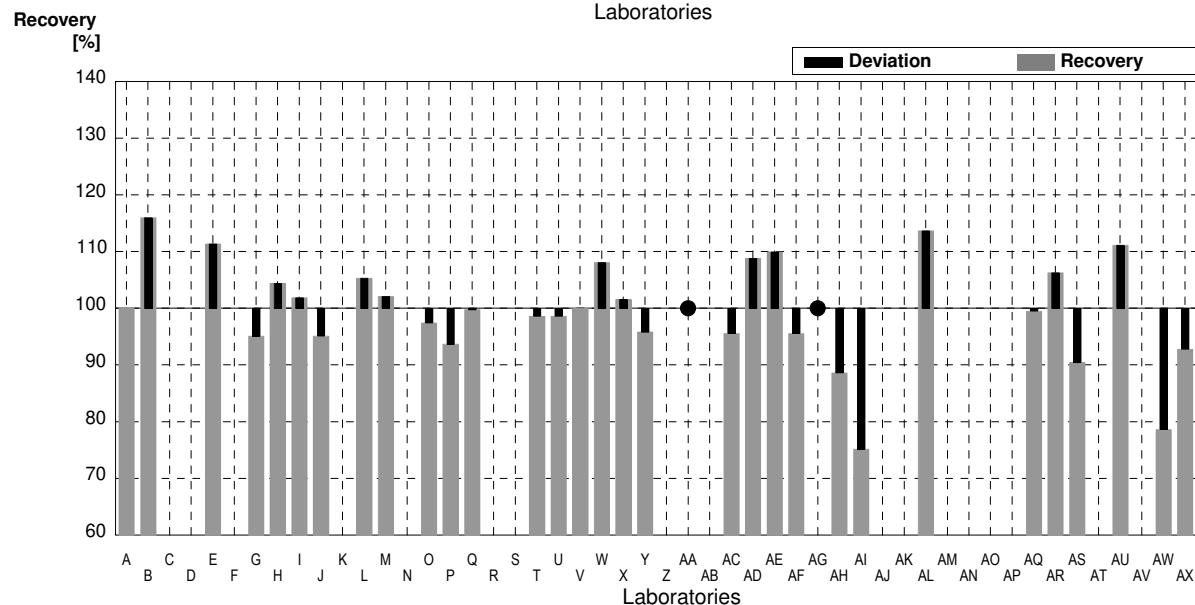
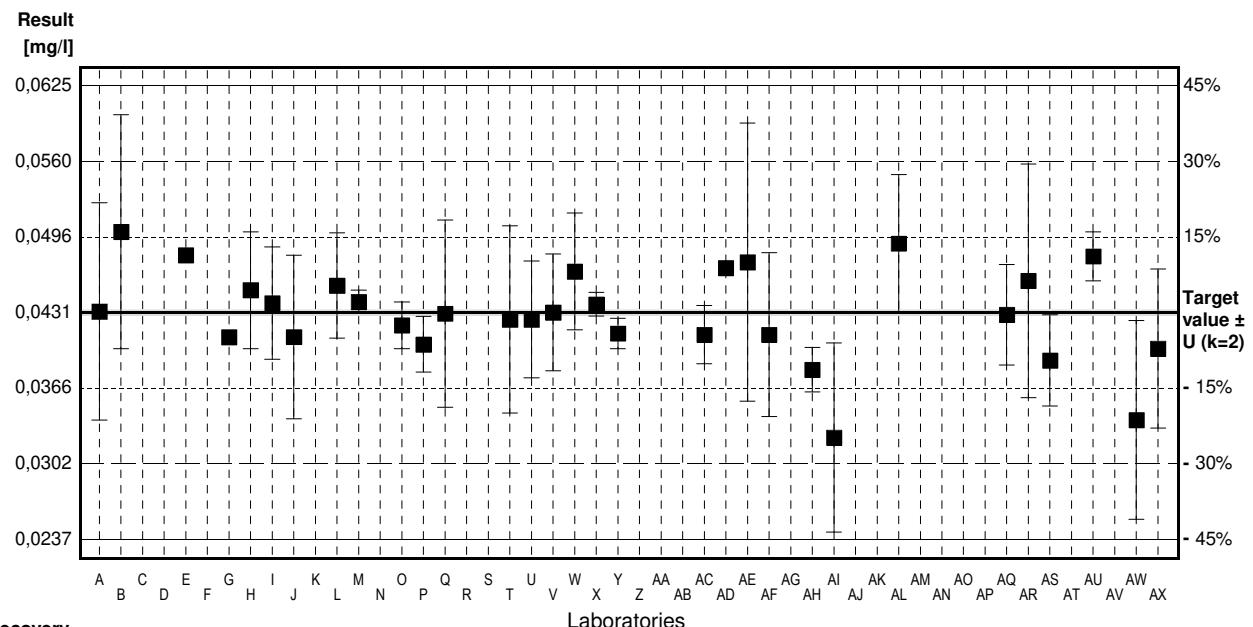
### Parameter Boron

Target value  $\pm U$  ( $k=2$ ) 0,0431 mg/l  $\pm$  0,0002 mg/l

IFA result  $\pm U$  ( $k=2$ ) 0,0407 mg/l  $\pm$  0,0033 mg/l

Stability test mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	0,04318	0,0093	mg/l	100%	0,02
B	0,050	0,01	mg/l	116%	2,05
C			mg/l		
D			mg/l		
E	0,0480		mg/l	111%	1,46
F			mg/l		
G	0,04099		mg/l	95%	-0,63
H	0,0450	0,005	mg/l	104%	0,57
I	0,0439	0,0048	mg/l	102%	0,24
J	0,0410	0,007	mg/l	95%	-0,62
K			mg/l		
L	0,0454	0,0045	mg/l	105%	0,68
M	0,0440	0,001	mg/l	102%	0,27
N			mg/l		
O	0,0420	0,002	mg/l	97%	-0,33
P	0,04037	0,00238	mg/l	94%	-0,81
Q	0,0430	0,008	mg/l	100%	-0,03
R			mg/l		
S			mg/l		
T	0,0425	0,008	mg/l	99%	-0,18
U	0,0425	0,005	mg/l	99%	-0,18
V	0,0431	0,005	mg/l	100%	0,00
W	0,0466	0,005	mg/l	108%	1,04
X	0,0438	0,00101	mg/l	102%	0,21
Y	0,0413	0,0013	mg/l	96%	-0,54
Z			mg/l		
AA	<0,050		mg/l	*	
AB			mg/l		
AC	0,0412	0,0025	mg/l	96%	-0,57
AD	0,0469	0,0003	mg/l	109%	1,13
AE	0,0474	0,0119	mg/l	110%	1,28
AF	0,0412	0,007	mg/l	96%	-0,57
AG	<0,05		mg/l	*	
AH	0,0382	0,0019	mg/l	89%	-1,46
AI	0,0324 *	0,0081	mg/l	75%	-3,18
AJ			mg/l		
AK			mg/l		
AL	0,04900	0,00590	mg/l	114%	1,76
AM			mg/l		
AN			mg/l		
AO			mg/l		



AP			mg/l		
AQ	0,0429	0,0043	mg/l	100%	-0,06
AR	0,0458	0,01	mg/l	106%	0,80
AS	0,0390	0,0039	mg/l	90%	-1,22
AT			mg/l		
AU	0,0479	0,0021	mg/l	111%	1,43
AV			mg/l		
AW	0,0339	0,0085	mg/l	79%	-2,74
AX	0,0400	0,0068	mg/l	93%	-0,92

	All results	Outliers excl.	Unit
Mean ± CI(99%)	$0,0430 \pm 0,0020$	$0,0433 \pm 0,0018$	mg/l
Recov. ± CI(99%)	$99,7 \pm 4,5$	$100,5 \pm 4,1$	%
SD between labs	0,0040	0,0035	mg/l
RSD between labs	9,2	8,1	%
n for calculation	31	30	

## Sample N158B

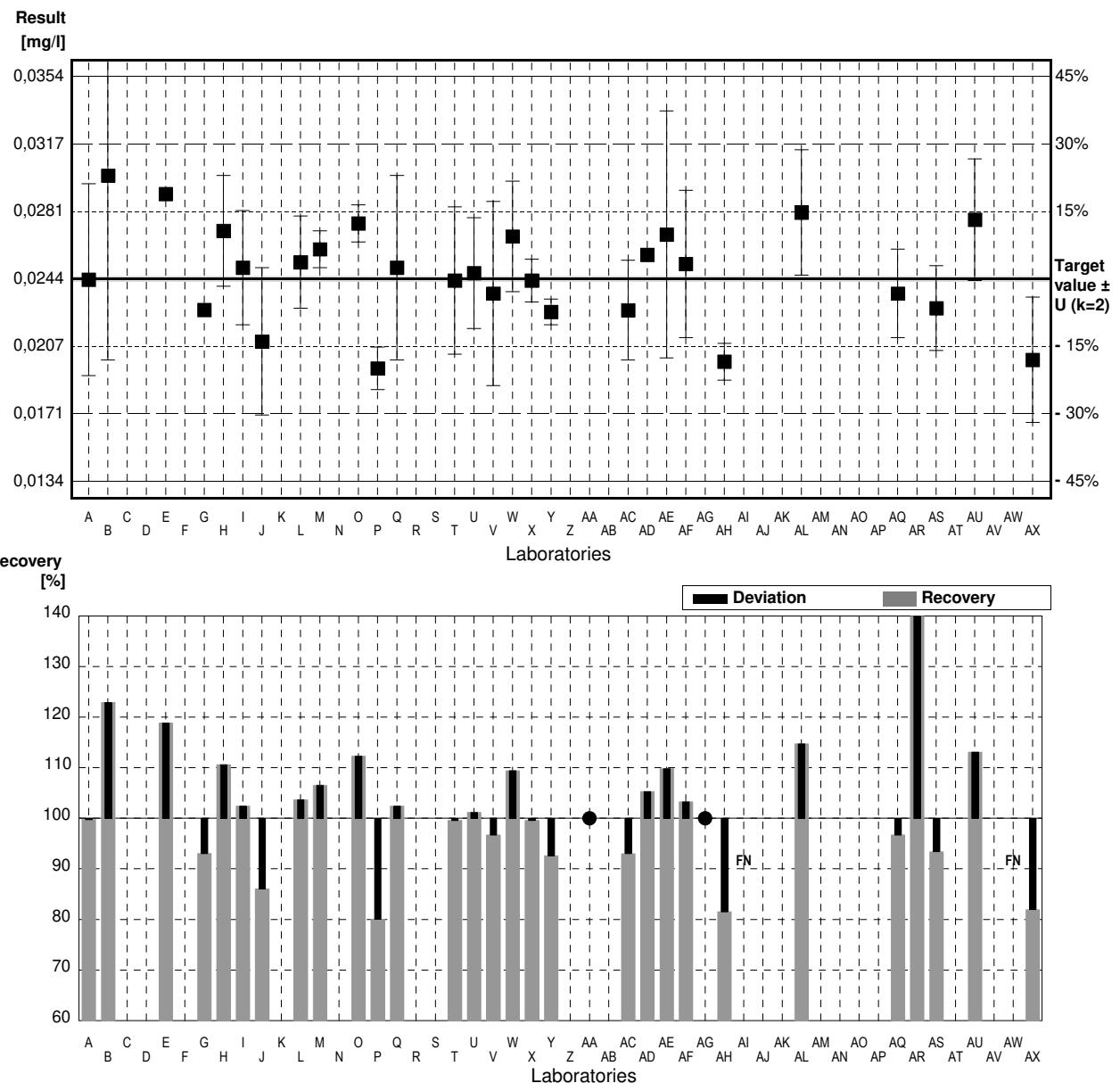
### Parameter Boron

Target value  $\pm U$  ( $k=2$ ) 0,0244 mg/l  $\pm$  0,0001 mg/l

IFA result  $\pm U$  ( $k=2$ ) 0,0230 mg/l  $\pm$  0,0018 mg/l

#### Stability test mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	0,02435	0,0052	mg/l	100%	-0,03
B	0,0300	0,01	mg/l	123%	2,94
C			mg/l		
D			mg/l		
E	0,0290		mg/l	119%	2,42
F			mg/l		
G	0,02271		mg/l	93%	-0,89
H	0,0270	0,003	mg/l	111%	1,37
I	0,0250	0,0031	mg/l	102%	0,32
J	0,0210	0,004	mg/l	86%	-1,79
K			mg/l		
L	0,0253	0,0025	mg/l	104%	0,47
M	0,0260	0,001	mg/l	107%	0,84
N			mg/l		
O	0,0274	0,001	mg/l	112%	1,58
P	0,01954	0,00115	mg/l	80%	-2,55
Q	0,0250	0,005	mg/l	102%	0,32
R			mg/l		
S			mg/l		
T	0,0243	0,004	mg/l	100%	-0,05
U	0,0247	0,003	mg/l	101%	0,16
V	0,0236	0,005	mg/l	97%	-0,42
W	0,0267	0,003	mg/l	109%	1,21
X	0,0243	0,00117	mg/l	100%	-0,05
Y	0,0226	0,0007	mg/l	93%	-0,95
Z			mg/l		
AA	<0,050		mg/l	*	
AB			mg/l		
AC	0,0227	0,0027	mg/l	93%	-0,89
AD	0,0257	0,0002	mg/l	105%	0,68
AE	0,0268	0,0067	mg/l	110%	1,26
AF	0,0252	0,004	mg/l	103%	0,42
AG	<0,05		mg/l	*	
AH	0,0199	0,0010	mg/l	82%	-2,36
AI	<0,020		mg/l	FN	
AJ			mg/l		
AK			mg/l		
AL	0,02800	0,00340	mg/l	115%	1,89
AM			mg/l		
AN			mg/l		
AO			mg/l		



AP			mg/l	
AQ	0,0236	0,0024	mg/l	97% -0,42
AR	0,0378 *	0,01	mg/l	155% 7,04
AS	0,0228	0,0023	mg/l	93% -0,84
AT			mg/l	
AU	0,0276	0,0033	mg/l	113% 1,68
AV			mg/l	
AW	<0,020		mg/l	FN
AX	0,0200	0,0034	mg/l	82% -2,31

	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,0251 ± 0,0018	0,0247 ± 0,0014	mg/l
Recov. ± CI(99%)	103,0 ± 7,5	101,1 ± 5,8	%
SD between labs	0,0036	0,0027	mg/l
RSD between labs	14,3	10,9	%
n for calculation	29	28	

## Sample N158A

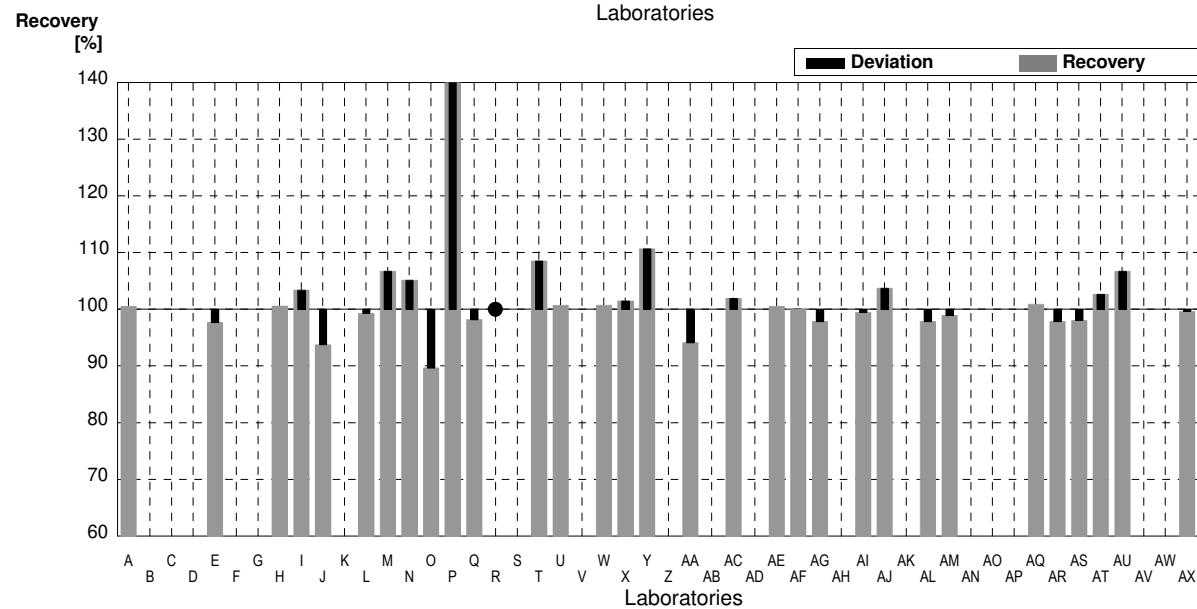
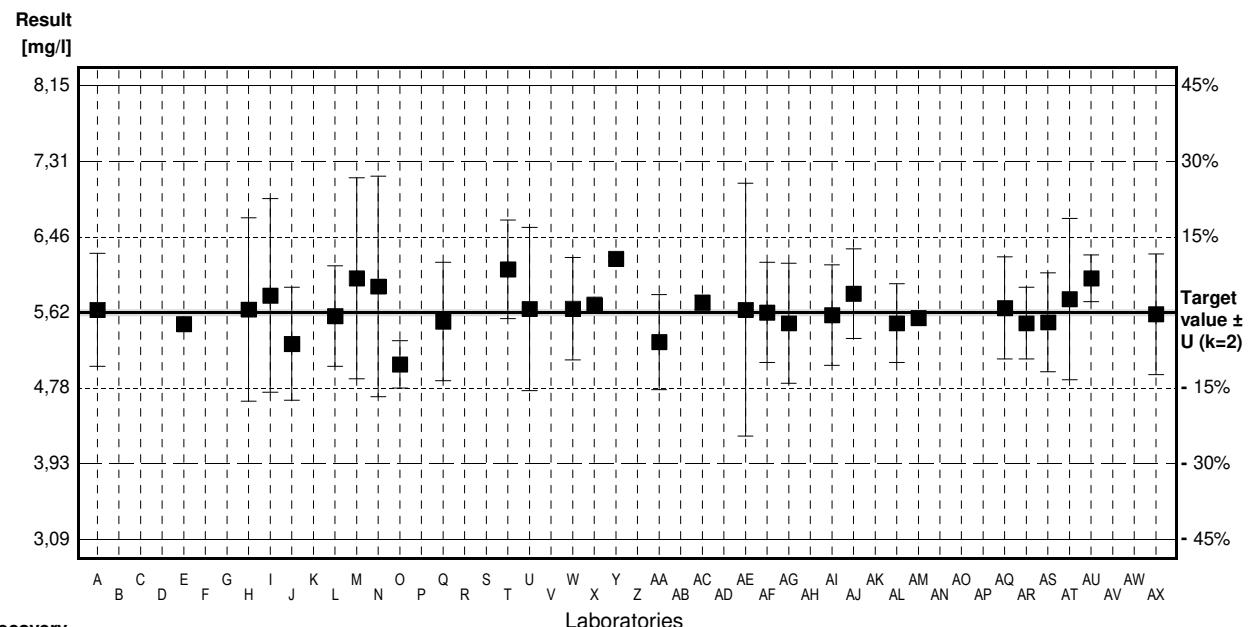
### Parameter DOC

Target value  $\pm U$  ( $k=2$ ) 5,62 mg/l  $\pm$  0,03 mg/l

IFA result  $\pm U$  ( $k=2$ ) 5,58 mg/l  $\pm$  0,11 mg/l

Stability test  $\pm U$  ( $k=2$ ) 5,67 mg/l  $\pm$  0,11 mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	5,65	0,63	mg/l	101%	0,09
B			mg/l		
C			mg/l		
D			mg/l		
E	5,49		mg/l	98%	-0,39
F			mg/l		
G			mg/l		
H	5,653	1,023	mg/l	101%	0,10
I	5,81	1,08	mg/l	103%	0,57
J	5,27	0,63	mg/l	94%	-1,06
K			mg/l		
L	5,58	0,56	mg/l	99%	-0,12
M	6,00	1,12	mg/l	107%	1,15
N	5,91	1,23	mg/l	105%	0,87
O	5,04	0,265	mg/l	90%	-1,75
P	10,29 *	2,028	mg/l	183%	14,08
Q	5,52	0,66	mg/l	98%	-0,30
R			mg/l		
S	>4		mg/l	*	
T	6,10	0,55	mg/l	109%	1,45
U	5,66	0,91	mg/l	101%	0,12
V			mg/l		
W	5,662	0,57	mg/l	101%	0,13
X	5,703	0,0881	mg/l	101%	0,25
Y	6,22	0,030	mg/l	111%	1,81
Z			mg/l		
AA	5,29	0,53	mg/l	94%	-1,00
AB			mg/l		
AC	5,73	0,08	mg/l	102%	0,33
AD			mg/l		
AE	5,65	1,41	mg/l	101%	0,09
AF	5,62	0,56	mg/l	100%	0,00
AG	5,50	0,670	mg/l	98%	-0,36
AH			mg/l		
AI	5,59	0,56	mg/l	99%	-0,09
AJ	5,83	0,5	mg/l	104%	0,63
AK			mg/l		
AL	5,500	0,44000	mg/l	98%	-0,36
AM	5,56		mg/l	99%	-0,18
AN			mg/l		
AO			mg/l		



AP			mg/l		
AQ	5,67	0,57	mg/l	101%	0,15
AR	5,5	0,4	mg/l	98%	-0,36
AS	5,51	0,55	mg/l	98%	-0,33
AT	5,77	0,9	mg/l	103%	0,45
AU	6,0	0,26	mg/l	107%	1,15
AV			mg/l		
AW			mg/l		
AX	5,6	0,672	mg/l	100%	-0,06

	All results	Outliers excl.	Unit
Mean ± CI(99%)	5,80 ± 0,43	5,65 ± 0,12	mg/l
Recov. ± CI(99%)	103,2 ± 7,6	100,6 ± 2,2	%
SD between labs	0,87	0,24	mg/l
RSD between labs	14,9	4,3	%
n for calculation	31	30	

## Sample N158B

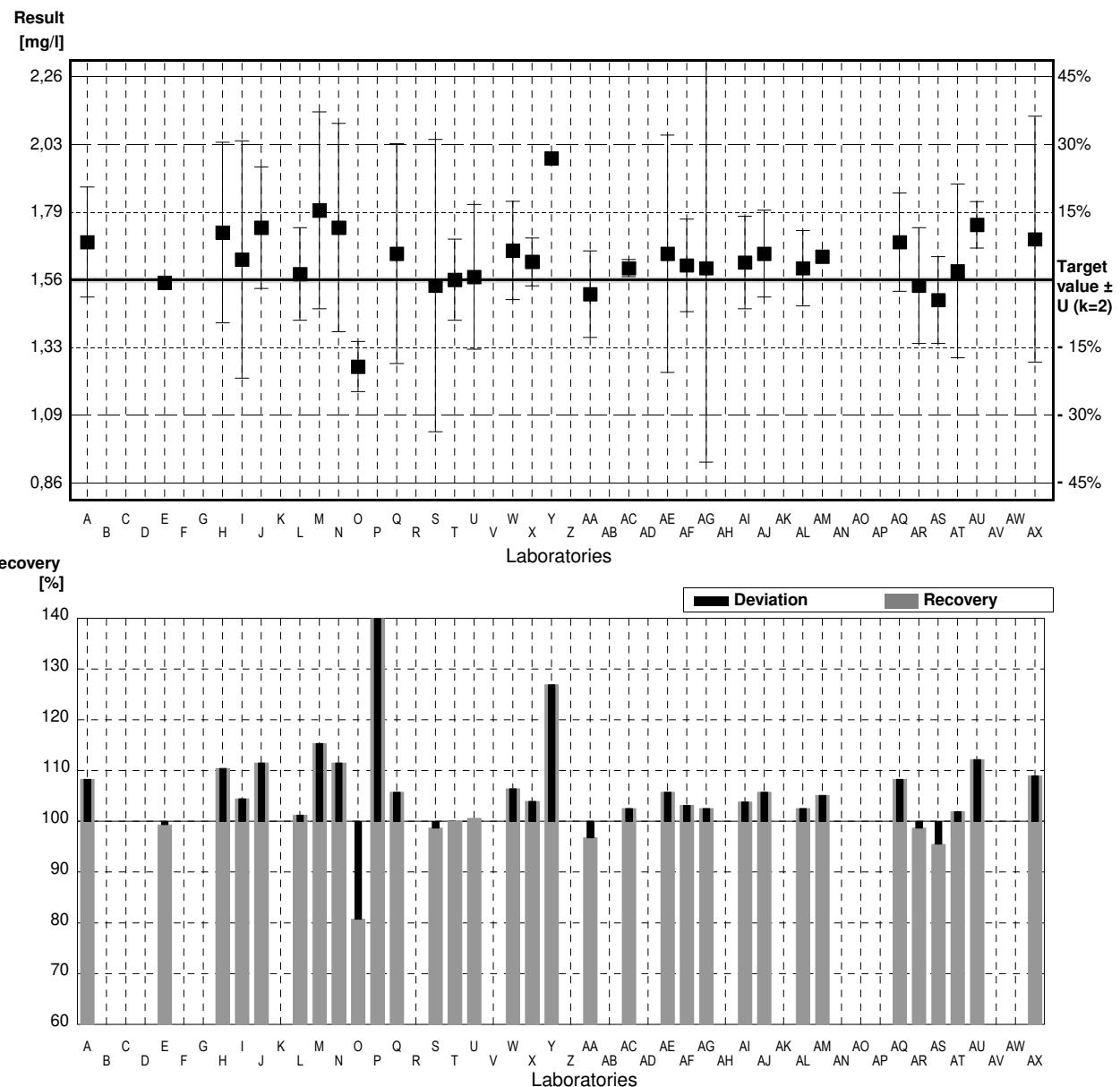
### Parameter DOC

Target value  $\pm U$  ( $k=2$ ) 1,56 mg/l  $\pm$  0,01 mg/l

IFA result  $\pm U$  ( $k=2$ ) 1,58 mg/l  $\pm$  0,09 mg/l

Stability test  $\pm U$  ( $k=2$ ) 1,63 mg/l  $\pm$  0,10 mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	1,69	0,19	mg/l	108%	1,41
B			mg/l		
C			mg/l		
D			mg/l		
E	1,55		mg/l	99%	-0,11
F			mg/l		
G			mg/l		
H	1,723	0,312	mg/l	110%	1,77
I	1,63	0,41	mg/l	104%	0,76
J	1,74	0,21	mg/l	112%	1,96
K			mg/l		
L	1,58	0,16	mg/l	101%	0,22
M	1,80	0,34	mg/l	115%	2,61
N	1,74	0,36	mg/l	112%	1,96
O	1,26 *	0,087	mg/l	81%	-3,26
P	4,288 *	0,304	mg/l	275%	29,64
Q	1,65	0,38	mg/l	106%	0,98
R			mg/l		
S	1,540	0,505	mg/l	99%	-0,22
T	1,56	0,14	mg/l	100%	0,00
U	1,57	0,25	mg/l	101%	0,11
V			mg/l		
W	1,661	0,17	mg/l	106%	1,10
X	1,622	0,0826	mg/l	104%	0,67
Y	1,98 *	0,0095	mg/l	127%	4,56
Z			mg/l		
AA	1,51	0,15	mg/l	97%	-0,54
AB			mg/l		
AC	1,60	0,03	mg/l	103%	0,43
AD			mg/l		
AE	1,65	0,41	mg/l	106%	0,98
AF	1,61	0,16	mg/l	103%	0,54
AG	1,60	0,670	mg/l	103%	0,43
AH			mg/l		
AI	1,62	0,16	mg/l	104%	0,65
AJ	1,65	0,15	mg/l	106%	0,98
AK			mg/l		
AL	1,600	0,13000	mg/l	103%	0,43
AM	1,64		mg/l	105%	0,87
AN			mg/l		
AO			mg/l		



AP			mg/l		
AQ	1,69	0,17	mg/l	108%	1,41
AR	1,54	0,2	mg/l	99%	-0,22
AS	1,49	0,15	mg/l	96%	-0,76
AT	1,59	0,3	mg/l	102%	0,33
AU	1,75	0,08	mg/l	112%	2,06
AV			mg/l		
AW			mg/l		
AX	1,70	0,425	mg/l	109%	1,52

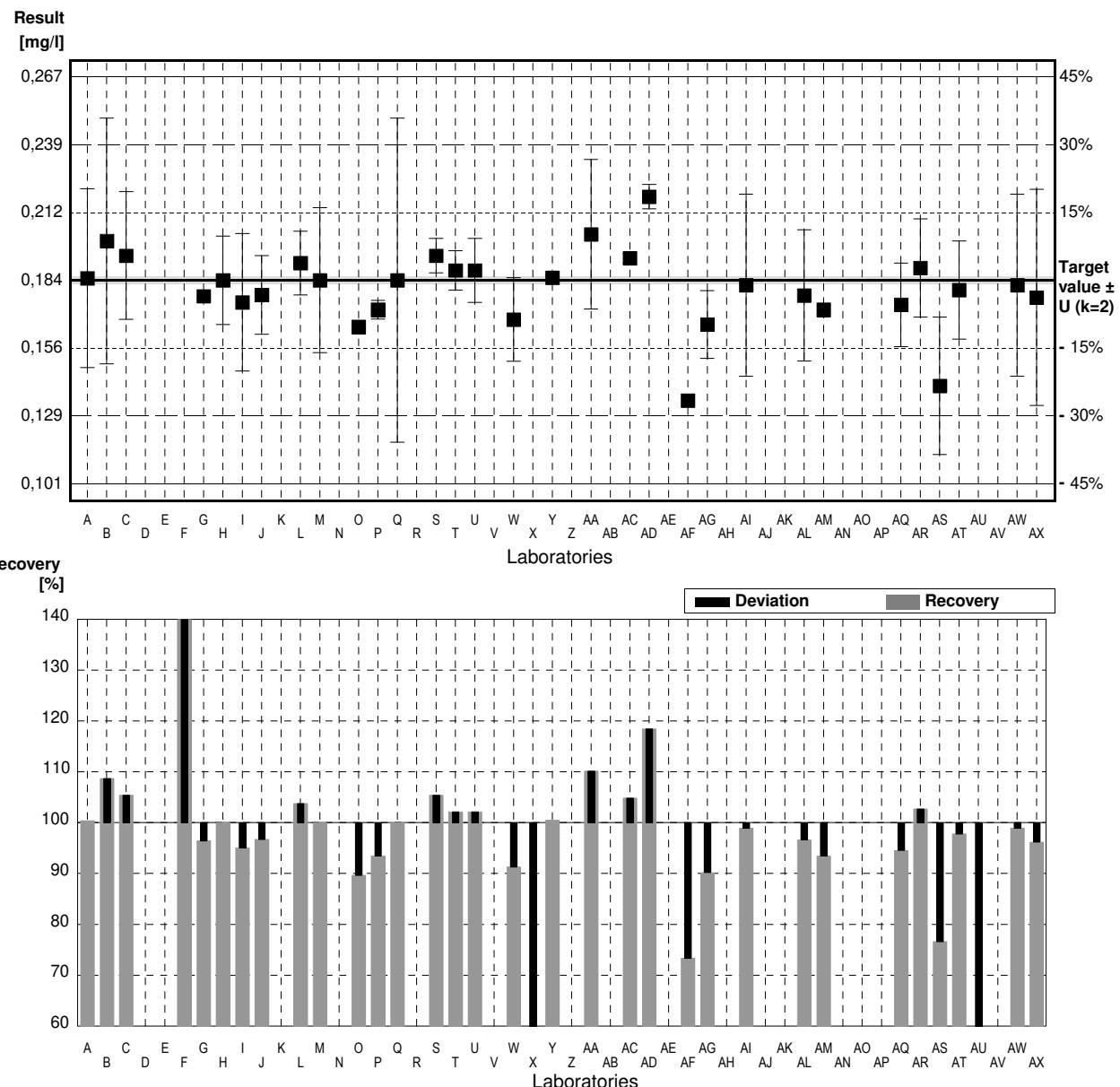
	All results	Outliers excl.	Unit
Mean ± CI(99%)	1,71 ± 0,24	1,63 ± 0,04	mg/l
Recov. ± CI(99%)	109,8 ± 15,1	104,5 ± 2,5	%
SD between labs	0,48	0,08	mg/l
RSD between labs	28,3	4,7	%
n for calculation	32	29	

## Sample N158A

### Parameter Total P (as PO<sub>4</sub>)

Target value  $\pm U$  ( $k=2$ ) 0,184 mg/l  $\pm$  0,001 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 0,190 mg/l  $\pm$  0,023 mg/l

Stability test					
Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	0,1848	0,0364	mg/l	100%	0,04
B	0,2000	0,05	mg/l	109%	0,87
C	0,194	0,026	mg/l	105%	0,54
D			mg/l		
E			mg/l		
F	0,4879 *	0,0334	mg/l	265%	16,52
G	0,17747		mg/l	96%	-0,35
H	0,184	0,018	mg/l	100%	0,00
I	0,175	0,028	mg/l	95%	-0,49
J	0,178	0,016	mg/l	97%	-0,33
K			mg/l		
L	0,191	0,013	mg/l	104%	0,38
M	0,184	0,0295	mg/l	100%	0,00
N			mg/l		
O	0,165	0,001	mg/l	90%	-1,03
P	0,172	0,00382	mg/l	93%	-0,65
Q	0,184	0,066	mg/l	100%	0,00
R			mg/l		
S	0,194	0,007	mg/l	105%	0,54
T	0,188	0,008	mg/l	102%	0,22
U	0,188	0,013	mg/l	102%	0,22
V			mg/l		
W	0,168	0,017	mg/l	91%	-0,87
X	0,0594 *	0,00044	mg/l	32%	-6,77
Y	0,185	0,0010	mg/l	101%	0,05
Z			mg/l		
AA	0,2027	0,0304	mg/l	110%	1,02
AB			mg/l		
AC	0,193	0,002	mg/l	105%	0,49
AD	0,218	0,005	mg/l	118%	1,85
AE			mg/l		
AF	0,135 *		mg/l	73%	-2,66
AG	0,166	0,0138	mg/l	90%	-0,98
AH			mg/l		
AI	0,182	0,037	mg/l	99%	-0,11
AJ			mg/l		
AK			mg/l		
AL	0,17783	0,02667	mg/l	97%	-0,34
AM	0,172		mg/l	93%	-0,65
AN			mg/l		
AO			mg/l		



AP			mg/l		
AQ	0,174	0,017	mg/l	95%	-0,54
AR	0,189	0,02	mg/l	103%	0,27
AS	0,141 *	0,028	mg/l	77%	-2,34
AT	0,180	0,02	mg/l	98%	-0,22
AU	0,071 *	0,002	mg/l	39%	-6,14
AV			mg/l		
AW	0,182	0,037	mg/l	99%	-0,11
AX	0,177	0,044	mg/l	96%	-0,38

	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,183 ± 0,029	0,184 ± 0,006	mg/l
Recov. ± CI(99%)	99,4 ± 15,9	99,8 ± 3,2	%
SD between labs	0,062	0,012	mg/l
RSD between labs	34,1	6,3	%
n for calculation	34	29	

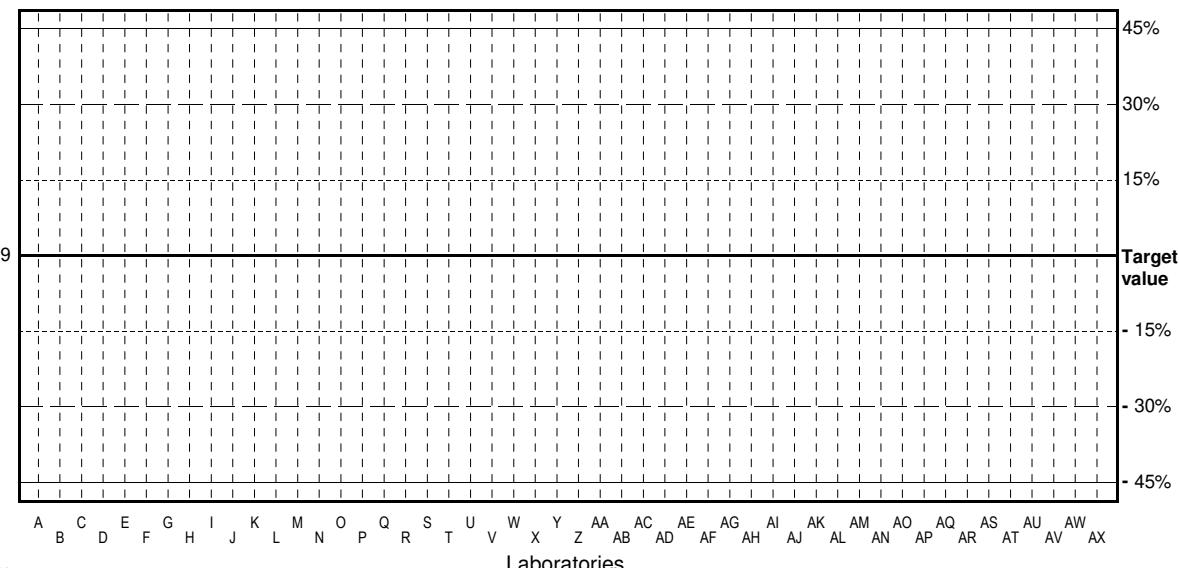
## Sample N158B

### Parameter Total P (as PO<sub>4</sub>)

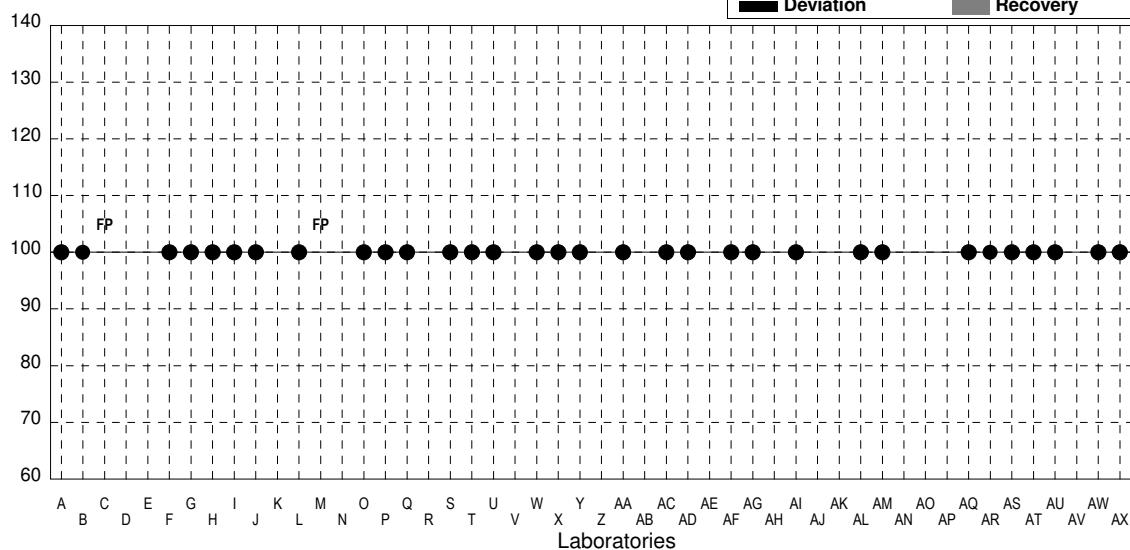
Target value <0,009 mg/l  
IFA result <0,009 mg/l

Stability test					
Lab Code	Result	±	Unit	Recovery	z-Score
A	<0,015		mg/l	•	
B	'0,0100	0,05	mg/l	•	
C	0,0120	0,0016	mg/l	FP	
D			mg/l		
E			mg/l		
F	<0,01		mg/l	•	
G	<0,0300		mg/l	•	
H	<0,01		mg/l	•	
I	<0,010		mg/l	•	
J	<0,015	0,002	mg/l	•	
K			mg/l		
L	<0,006		mg/l	•	
M	0,153	0,0246	mg/l	FP	
N			mg/l		
O	<0,015		mg/l	•	
P	<0,0153	0,00034	mg/l	•	
Q	<0,015		mg/l	•	
R			mg/l		
S	<0,02		mg/l	•	
T	<0,05		mg/l	•	
U	<0,015		mg/l	•	
V			mg/l		
W	<0,001		mg/l	•	
X	<0,0049		mg/l	•	
Y	<0,050		mg/l	•	
Z			mg/l		
AA	<0,031		mg/l	•	
AB			mg/l		
AC	<0,03		mg/l	•	
AD	<0,05		mg/l	•	
AE			mg/l		
AF	<0,06		mg/l	•	
AG	<0,016		mg/l	•	
AH			mg/l		
AI	<0,015		mg/l	•	
AJ			mg/l		
AK			mg/l		
AL	<0,0153		mg/l	•	
AM	<0,009		mg/l	•	
AN			mg/l		
AO			mg/l		

Result  
[mg/l]



Recovery  
[%]



AP			mg/l		
AQ	<0,05		mg/l	•	
AR	'0,0198	0,02	mg/l	•	
AS	<0,015		mg/l	•	
AT	<0,013		mg/l	•	
AU	<0,005	0,002	mg/l	•	
AV			mg/l		
AW	<0,015		mg/l	•	
AX	<0,009		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 N158A

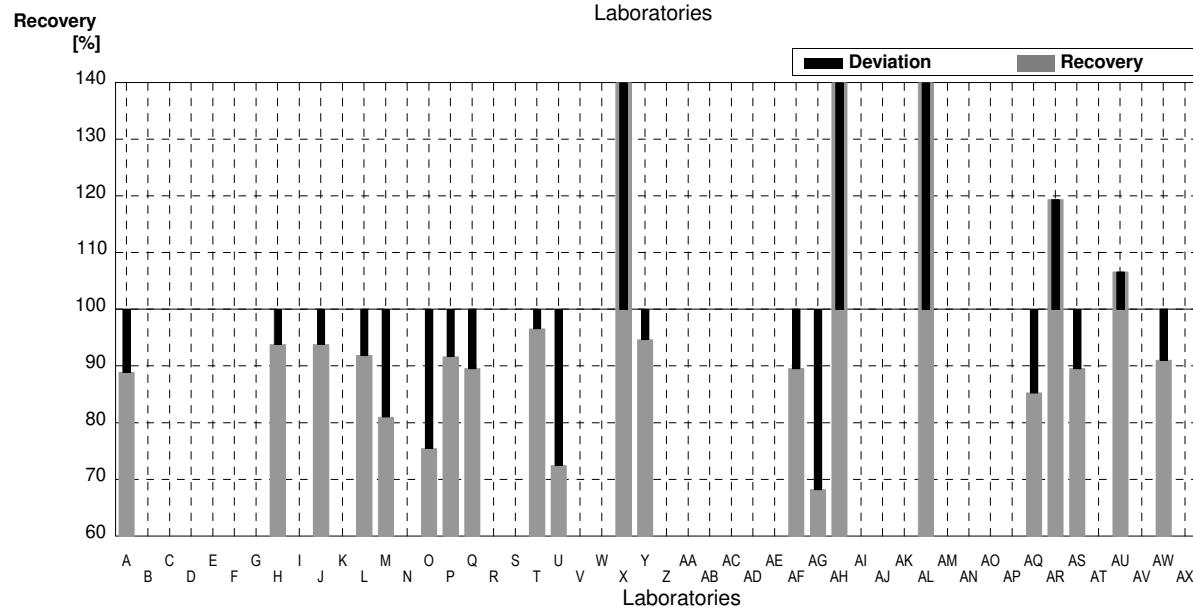
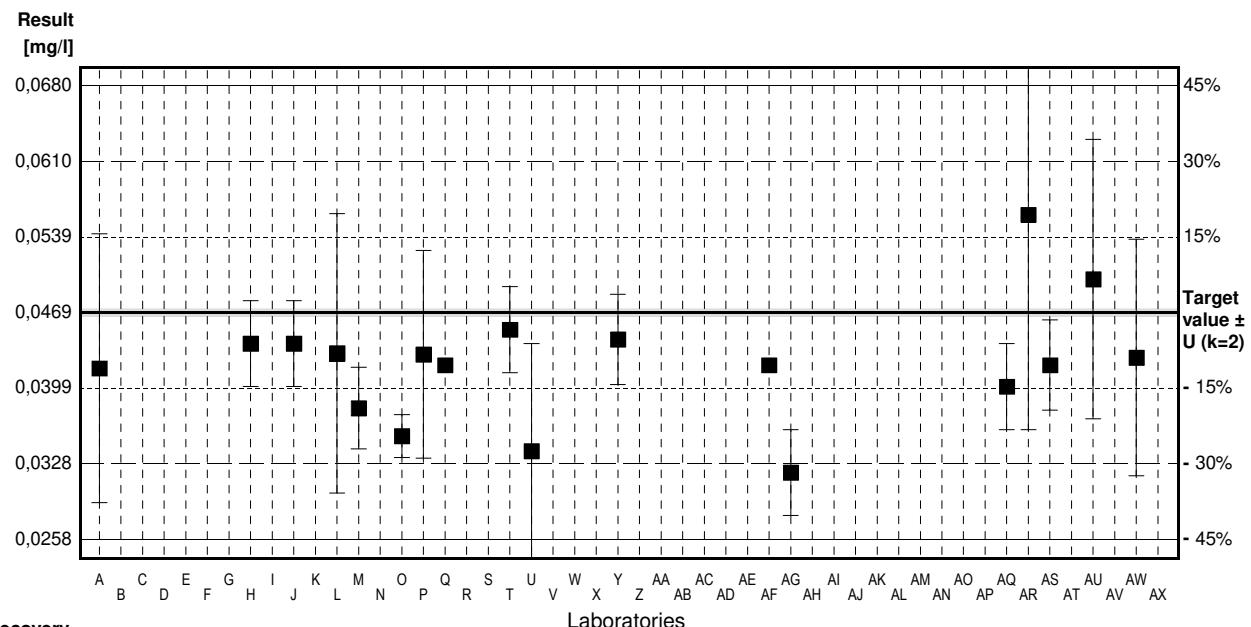
### Parameter Cyanide

Target value  $\pm U$  ( $k=2$ ) 0,0469 mg/l  $\pm$  0,0003 mg/l

IFA result  $\pm U$  ( $k=2$ ) 0,0459 mg/l  $\pm$  0,0041 mg/l

Stability test  $\pm U$  ( $k=2$ ) 0,0458 mg/l  $\pm$  0,0041 mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	0,0417	0,0125	mg/l	89%	-0,69
B			mg/l		
C			mg/l		
D			mg/l		
E			mg/l		
F			mg/l		
G			mg/l		
H	0,0440	0,004	mg/l	94%	-0,39
I			mg/l		
J	0,0440	0,004	mg/l	94%	-0,39
K			mg/l		
L	0,0431	0,013	mg/l	92%	-0,51
M	0,0380	0,0038	mg/l	81%	-1,19
N			mg/l		
O	0,0354	0,002	mg/l	75%	-1,53
P	0,0430	0,00965	mg/l	92%	-0,52
Q	0,0420		mg/l	90%	-0,65
R			mg/l		
S			mg/l		
T	0,0453	0,004	mg/l	97%	-0,21
U	0,0340	0,01	mg/l	72%	-1,72
V			mg/l		
W			mg/l		
X	44,65 * 0,598	mg/l	95203%	5943,91	
Y	0,0444	0,0042	mg/l	95%	-0,33
Z			mg/l		
AA			mg/l		
AB			mg/l		
AC			mg/l		
AD			mg/l		
AE			mg/l		
AF	0,0420		mg/l	90%	-0,65
AG	0,0320 * 0,0040	mg/l	68%	-1,99	
AH	36,3 * 4	mg/l	77399%	4831,17	
AI			mg/l		
AJ			mg/l		
AK			mg/l		
AL	48,2900 * 4,82900	mg/l	102964%	6428,98	
AM			mg/l		
AN			mg/l		
AO			mg/l		



AP			mg/l		
AQ	0,0400	0,004	mg/l	85%	-0,92
AR	0,056 *	0,02	mg/l	119%	1,21
AS	0,0420	0,0042	mg/l	90%	-0,65
AT			mg/l		
AU	0,050	0,013	mg/l	107%	0,41
AV			mg/l		
AW	0,0427	0,011	mg/l	91%	-0,56
AX			mg/l		

	All results	Outliers excl.	Unit
Mean ± CI(99%)	$6,1905 \pm 9,6733$	$0,0420 \pm 0,0028$	mg/l
Recov. ± CI(99%)	$13199,3 \pm 20625,$	$89,5 \pm 6,0$	%
SD between labs	15,5540	0,0038	mg/l
RSD between labs	251,3	9,1	%
n for calculation	21	16	

## Sample N158B

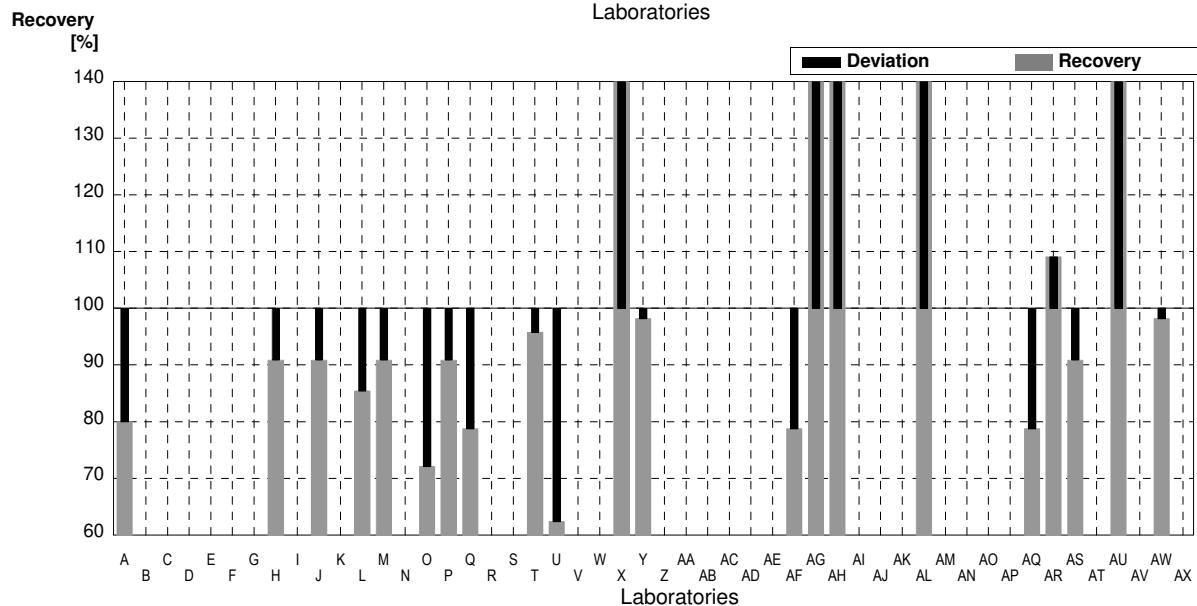
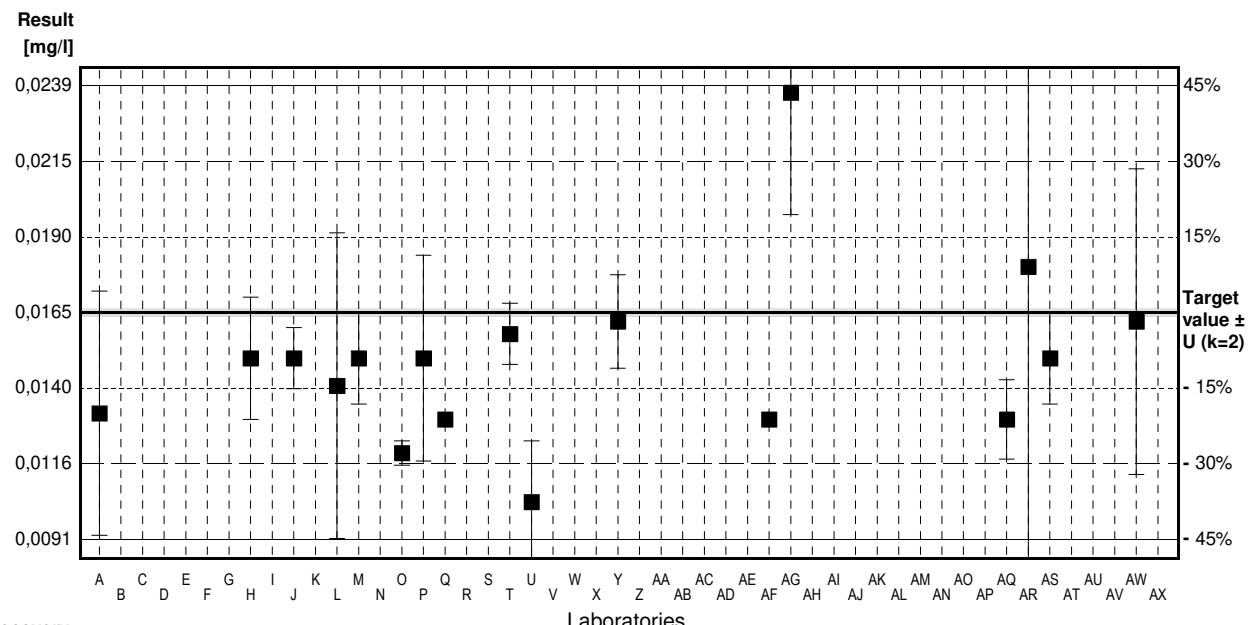
### Parameter Cyanide

Target value  $\pm U$  ( $k=2$ ) 0,0165 mg/l  $\pm$  0,0001 mg/l

IFA result  $\pm U$  ( $k=2$ ) 0,0160 mg/l  $\pm$  0,0014 mg/l

Stability test  $\pm U$  ( $k=2$ ) 0,0158 mg/l  $\pm$  0,0014 mg/l

Lab Code	Result	$\pm$	Unit	Recovery	z-Score
A	0,0132	0,0040	mg/l	80%	-1,25
B			mg/l		
C			mg/l		
D			mg/l		
E			mg/l		
F			mg/l		
G			mg/l		
H	0,0150	0,002	mg/l	91%	-0,57
I			mg/l		
J	0,0150	0,001	mg/l	91%	-0,57
K			mg/l		
L	0,0141	0,005	mg/l	85%	-0,91
M	0,0150	0,0015	mg/l	91%	-0,57
N			mg/l		
O	0,0119	0,0004	mg/l	72%	-1,74
P	0,0150	0,00337	mg/l	91%	-0,57
Q	0,0130		mg/l	79%	-1,33
R			mg/l		
S			mg/l		
T	0,0158	0,001	mg/l	96%	-0,27
U	0,0103	0,002	mg/l	62%	-2,35
V			mg/l		
W			mg/l		
X	15,402 *	0,594	mg/l	93345%	5827,84
Y	0,0162	0,00153	mg/l	98%	-0,11
Z			mg/l		
AA			mg/l		
AB			mg/l		
AC			mg/l		
AD			mg/l		
AE			mg/l		
AF	0,0130		mg/l	79%	-1,33
AG	0,0237	0,0040	mg/l	144%	2,73
AH	12,6 *	1,5	mg/l	76364%	4766,48
AI			mg/l		
AJ			mg/l		
AK			mg/l		
AL	17,7600 *	1,77600	mg/l	107636%	6721,02
AM			mg/l		
AN			mg/l		
AO			mg/l		



AP			mg/l	
AQ	0,0130	0,0013	mg/l	79% -1,33
AR	0,0180	0,01	mg/l	109% 0,57
AS	0,0150	0,0015	mg/l	91% -0,57
AT			mg/l	
AU	0,0300 *	0,008	mg/l	182% 5,11
AV			mg/l	
AW	0,0162	0,005	mg/l	98% -0,11
AX			mg/l	

	All results	Outliers excl.	Unit
Mean ± CI(99%)	2,1926 ± 3,4359	0,0149 ± 0,0021	mg/l
Recov. ± CI(99%)	13288,7 ± 20823,	90,3 ± 12,5	%
SD between labs	5,5247	0,0029	mg/l
RSD between labs	252,0	19,5	%
n for calculation	21	17	



# **Illustration of Results Laboratory Oriented Part**

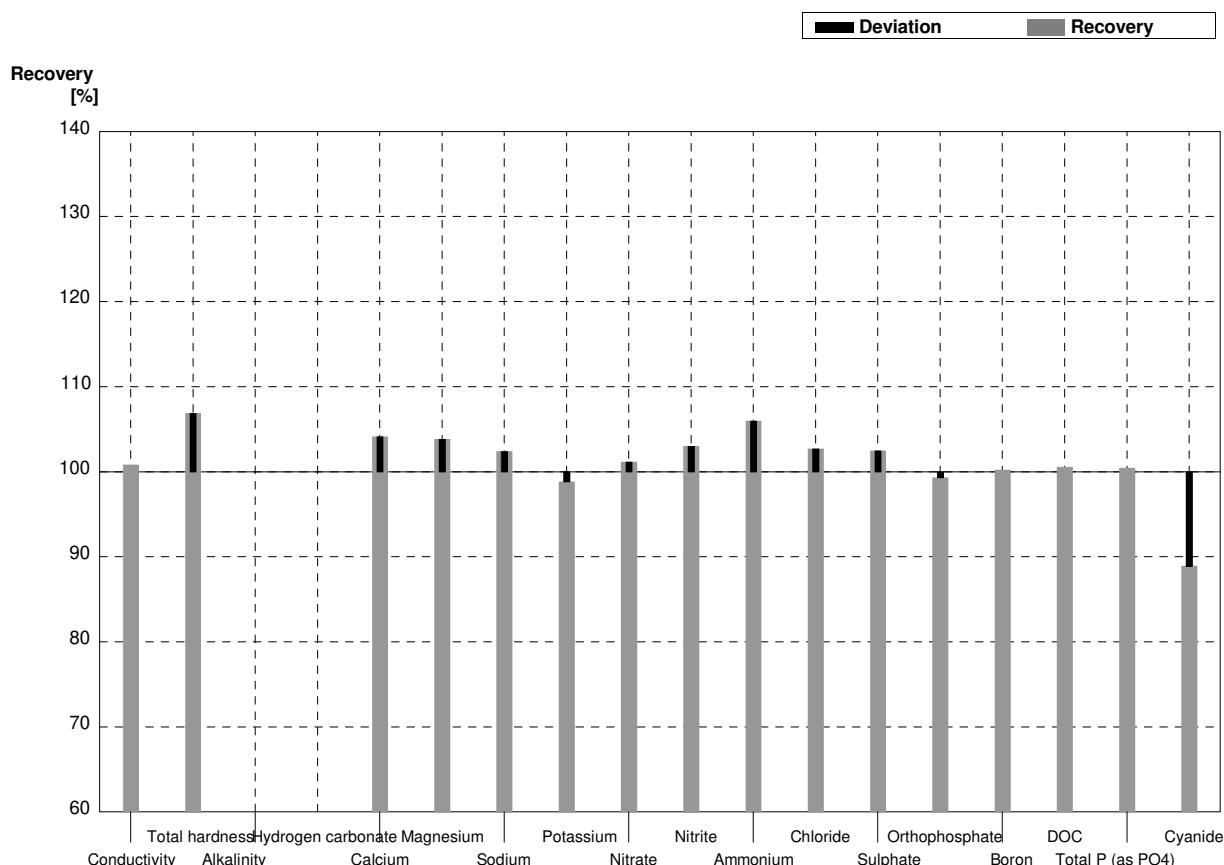
**Round N158  
Major Ions**

**Sample Dispatch: 6 September 2021**



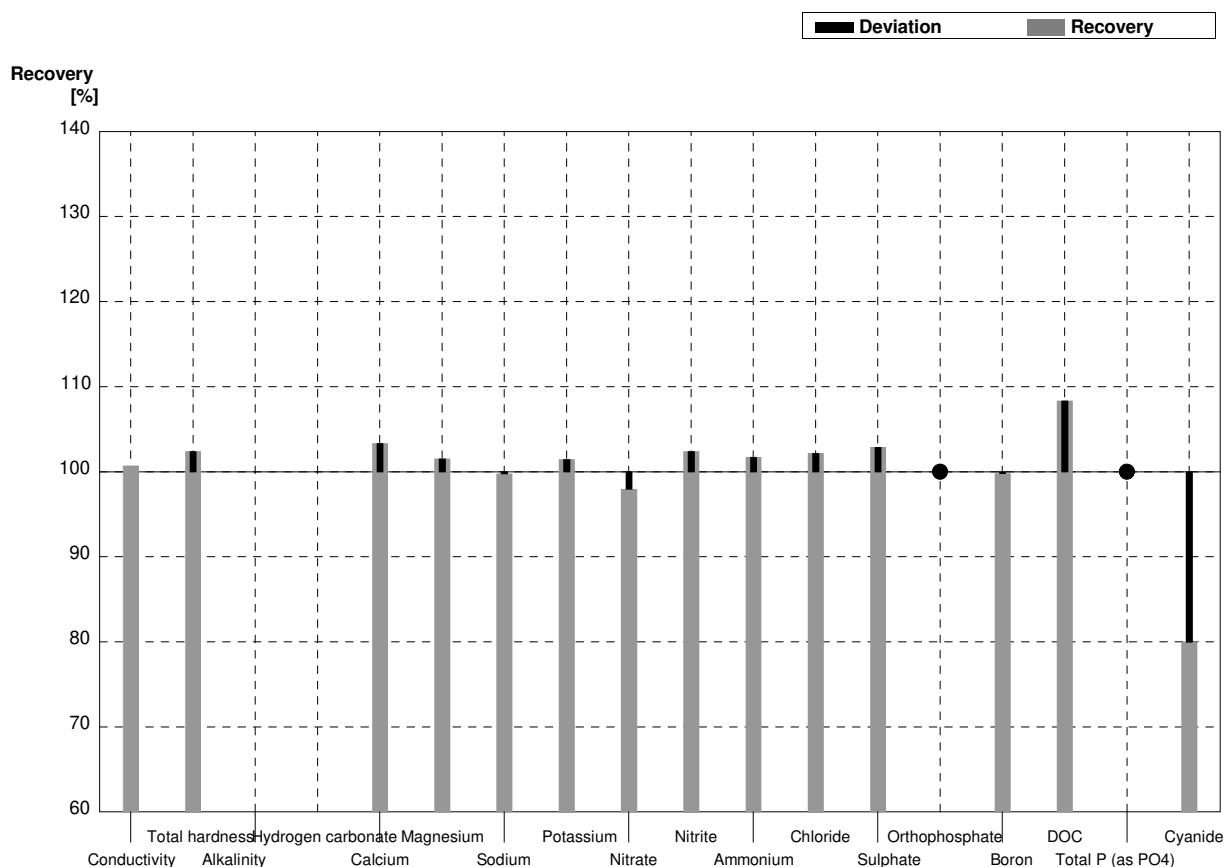
**Sample N158A**  
**Laboratory A**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2	493	14	$\mu\text{S}/\text{cm}$	101%
Total hardness	2,04	0,02	2,18	0,2	$\text{mmol/l}$	107%
Alkalinity	1,71	0,02			$\text{mmol/l}$	
Hydrogen carbonate	101	1			$\text{mg/l}$	
Calcium	57,9	0,7	60,28	3,19	$\text{mg/l}$	104%
Magnesium	14,5	0,2	15,055	1,2	$\text{mg/l}$	104%
Sodium	11,7	0,3	11,981	0,83	$\text{mg/l}$	102%
Potassium	2,30	0,04	2,273	0,13	$\text{mg/l}$	99%
Nitrate	39,9	0,6	40,36	1,89	$\text{mg/l}$	101%
Nitrite	0,0468	0,0010	0,0482	0,0052	$\text{mg/l}$	103%
Ammonium	0,0251	0,0044	0,0266	0,0071	$\text{mg/l}$	106%
Chloride	47,6	0,9	48,88	1,81	$\text{mg/l}$	103%
Sulphate	45,3	0,5	46,41	2,18	$\text{mg/l}$	102%
Orthophosphate	0,132	0,001	0,1311	0,0343	$\text{mg/l}$	99%
Boron	0,0431	0,0002	0,04318	0,0093	$\text{mg/l}$	100%
DOC	5,62	0,03	5,65	0,63	$\text{mg/l}$	101%
Total P (as PO <sub>4</sub> )	0,184	0,001	0,1848	0,0364	$\text{mg/l}$	100%
Cyanide	0,0469	0,0003	0,0417	0,0125	$\text{mg/l}$	89%



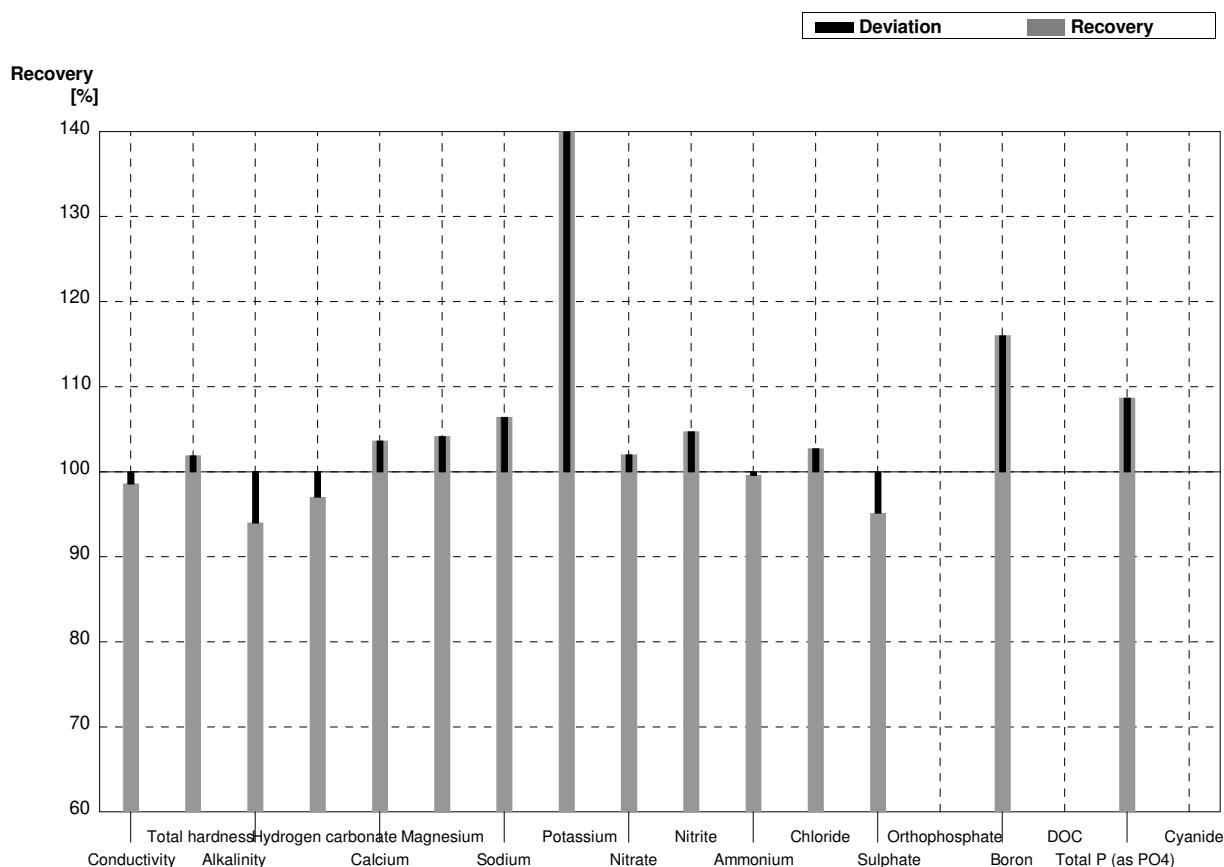
**Sample N158B**  
**Laboratory A**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1	438	13	$\mu\text{S}/\text{cm}$	101%
Total hardness	1,25	0,02	1,28	0,1	$\text{mmol/l}$	102%
Alkalinity	1,19	0,01			$\text{mmol/l}$	
Hydrogen carbonate	69,5	0,4			$\text{mg/l}$	
Calcium	39,4	0,6	40,713	2,16	$\text{mg/l}$	103%
Magnesium	6,41	0,09	6,508	0,52	$\text{mg/l}$	102%
Sodium	32,5	0,2	32,423	2,24	$\text{mg/l}$	100%
Potassium	5,52	0,04	5,600	0,32	$\text{mg/l}$	101%
Nitrate	73,3	1,7	71,81	3,38	$\text{mg/l}$	98%
Nitrite	0,063	0,003	0,0645	0,0069	$\text{mg/l}$	102%
Ammonium	0,070	0,003	0,0712	0,0191	$\text{mg/l}$	102%
Chloride	14,7	0,3	15,02	0,56	$\text{mg/l}$	102%
Sulphate	62,6	0,4	64,40	3,02	$\text{mg/l}$	103%
Orthophosphate	<0,009		<0,015		$\text{mg/l}$	•
Boron	0,0244	0,0001	0,02435	0,0052	$\text{mg/l}$	100%
DOC	1,56	0,01	1,69	0,19	$\text{mg/l}$	108%
Total P (as PO <sub>4</sub> )	<0,009		<0,015		$\text{mg/l}$	•
Cyanide	0,0165	0,0001	0,0132	0,0040	$\text{mg/l}$	80%



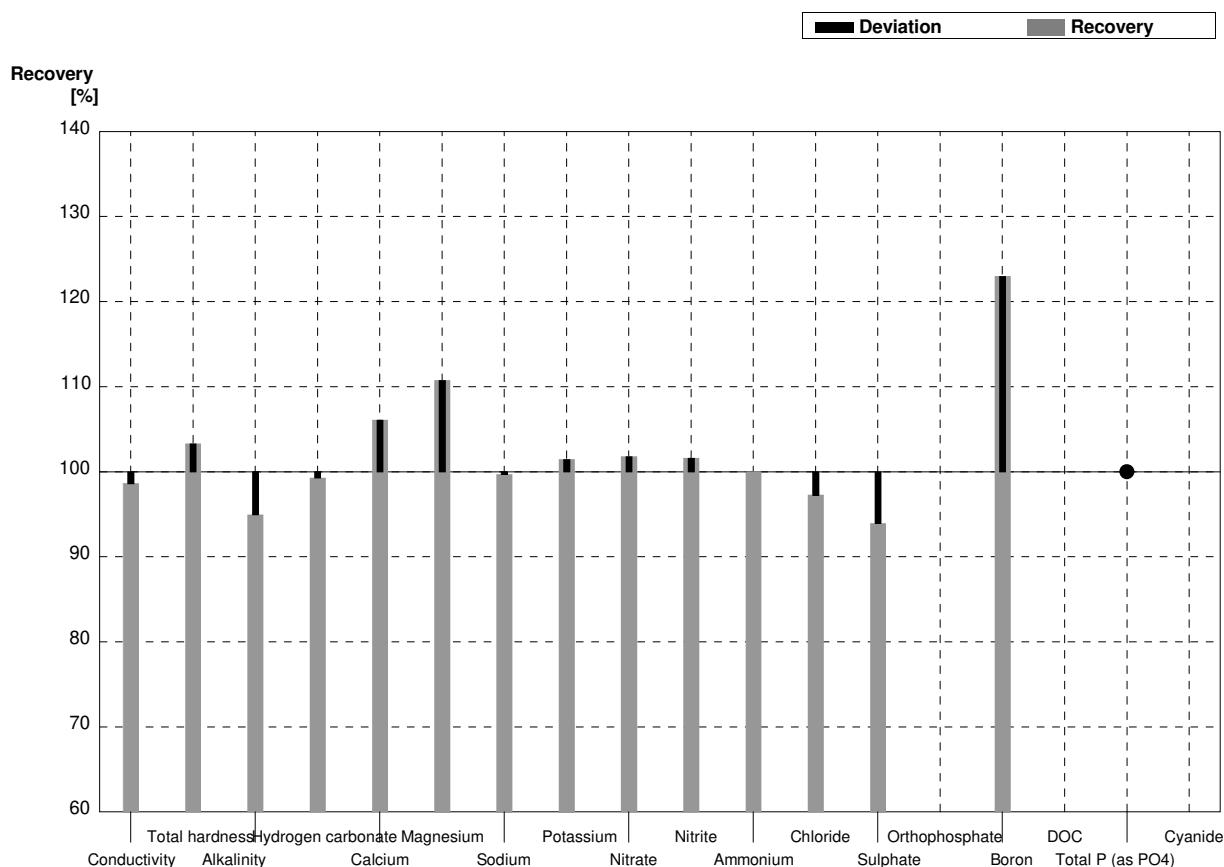
**Sample N158A**  
**Laboratory B**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2	482	14,0	$\mu\text{S}/\text{cm}$	99%
Total hardness	2,04	0,02	2,079	0,025	$\text{mmol/l}$	102%
Alkalinity	1,71	0,02	1,607	0,025	$\text{mmol/l}$	94%
Hydrogen carbonate	101	1	98	10	$\text{mg/l}$	97%
Calcium	57,9	0,7	60,0	2	$\text{mg/l}$	104%
Magnesium	14,5	0,2	15,1	0,4	$\text{mg/l}$	104%
Sodium	11,7	0,3	12,45	1	$\text{mg/l}$	106%
Potassium	2,30	0,04	5,45	0,2	$\text{mg/l}$	237%
Nitrate	39,9	0,6	40,7	1	$\text{mg/l}$	102%
Nitrite	0,0468	0,0010	0,0490	0,01	$\text{mg/l}$	105%
Ammonium	0,0251	0,0044	0,0250	0,01	$\text{mg/l}$	100%
Chloride	47,6	0,9	48,9	1	$\text{mg/l}$	103%
Sulphate	45,3	0,5	43,1	1,5	$\text{mg/l}$	95%
Orthophosphate	0,132	0,001			$\text{mg/l}$	
Boron	0,0431	0,0002	0,050	0,01	$\text{mg/l}$	116%
DOC	5,62	0,03			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	0,184	0,001	0,2000	0,05	$\text{mg/l}$	109%
Cyanide	0,0469	0,0003			$\text{mg/l}$	



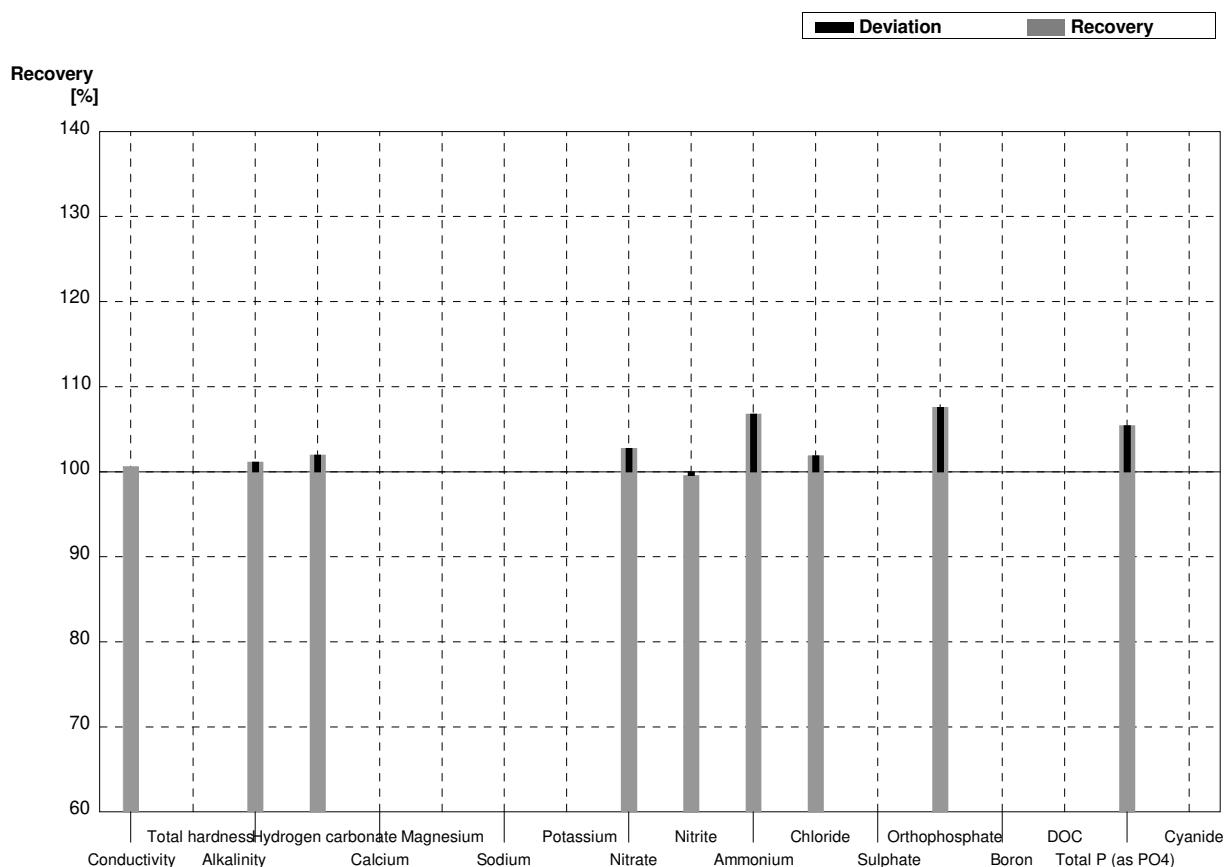
**Sample N158B**  
**Laboratory B**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1	429	14,0	$\mu\text{S}/\text{cm}$	99%
Total hardness	1,25	0,02	1,291	0,025	$\text{mmol/l}$	103%
Alkalinity	1,19	0,01	1,130	0,025	$\text{mmol/l}$	95%
Hydrogen carbonate	69,5	0,4	69	10	$\text{mg/l}$	99%
Calcium	39,4	0,6	41,8	2	$\text{mg/l}$	106%
Magnesium	6,41	0,09	7,1	0,4	$\text{mg/l}$	111%
Sodium	32,5	0,2	32,4	1	$\text{mg/l}$	100%
Potassium	5,52	0,04	5,60	0,2	$\text{mg/l}$	101%
Nitrate	73,3	1,7	74,6	1	$\text{mg/l}$	102%
Nitrite	0,063	0,003	0,0640	0,01	$\text{mg/l}$	102%
Ammonium	0,070	0,003	0,0700	0,01	$\text{mg/l}$	100%
Chloride	14,7	0,3	14,3	1	$\text{mg/l}$	97%
Sulphate	62,6	0,4	58,8	1,5	$\text{mg/l}$	94%
Orthophosphate	<0,009				$\text{mg/l}$	
Boron	0,0244	0,0001	0,0300	0,01	$\text{mg/l}$	123%
DOC	1,56	0,01			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	<0,009		'0,0100	0,05	$\text{mg/l}$	•
Cyanide	0,0165	0,0001			$\text{mg/l}$	



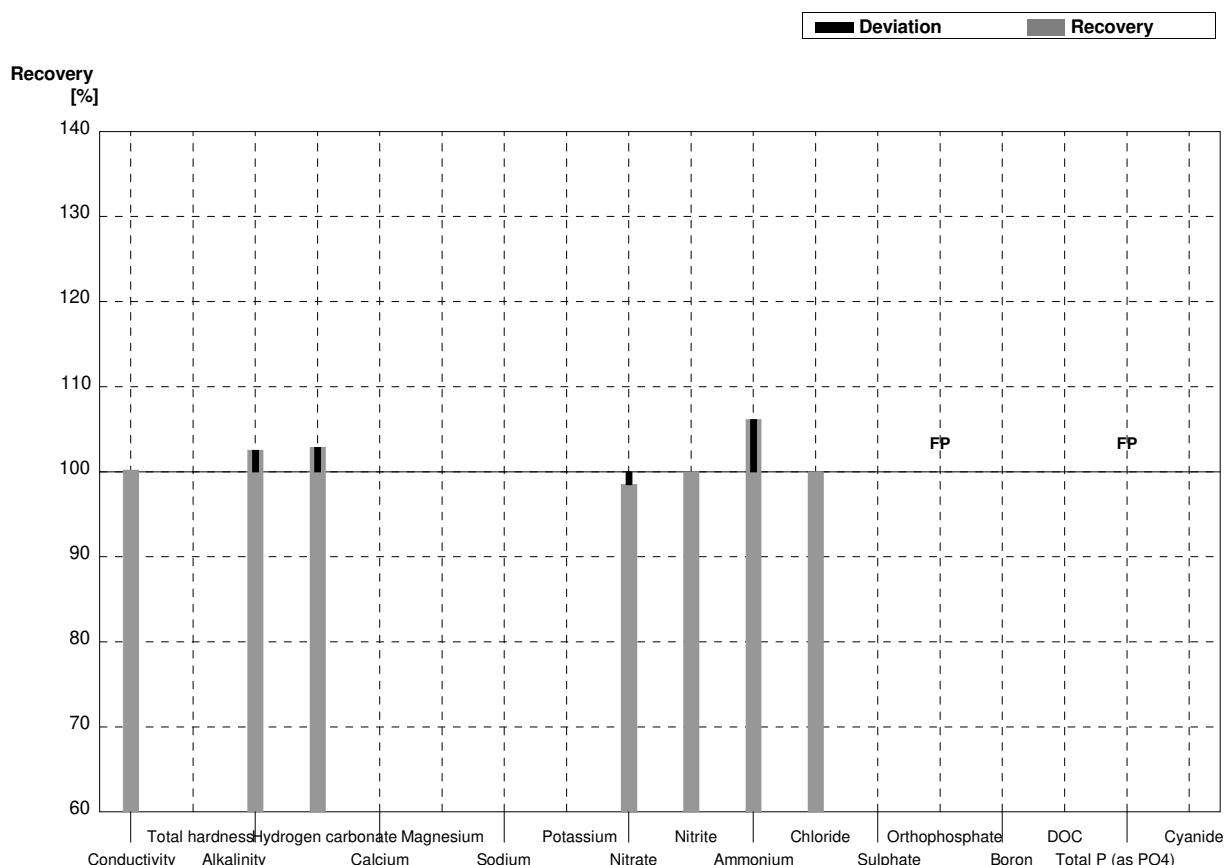
**Sample N158A**  
**Laboratory C**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2	492	3,48	$\mu\text{S}/\text{cm}$	101%
Total hardness	2,04	0,02			$\text{mmol/l}$	
Alkalinity	1,71	0,02	1,73	0,05	$\text{mmol/l}$	101%
Hydrogen carbonate	101	1	103	1,49	$\text{mg/l}$	102%
Calcium	57,9	0,7			$\text{mg/l}$	
Magnesium	14,5	0,2			$\text{mg/l}$	
Sodium	11,7	0,3			$\text{mg/l}$	
Potassium	2,30	0,04			$\text{mg/l}$	
Nitrate	39,9	0,6	41,0	2,81	$\text{mg/l}$	103%
Nitrite	0,0468	0,0010	0,0466	0,0047	$\text{mg/l}$	100%
Ammonium	0,0251	0,0044	0,0268	0,0040	$\text{mg/l}$	107%
Chloride	47,6	0,9	48,5	0,49	$\text{mg/l}$	102%
Sulphate	45,3	0,5			$\text{mg/l}$	
Orthophosphate	0,132	0,001	0,142	0,017	$\text{mg/l}$	108%
Boron	0,0431	0,0002			$\text{mg/l}$	
DOC	5,62	0,03			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	0,184	0,001	0,194	0,026	$\text{mg/l}$	105%
Cyanide	0,0469	0,0003			$\text{mg/l}$	



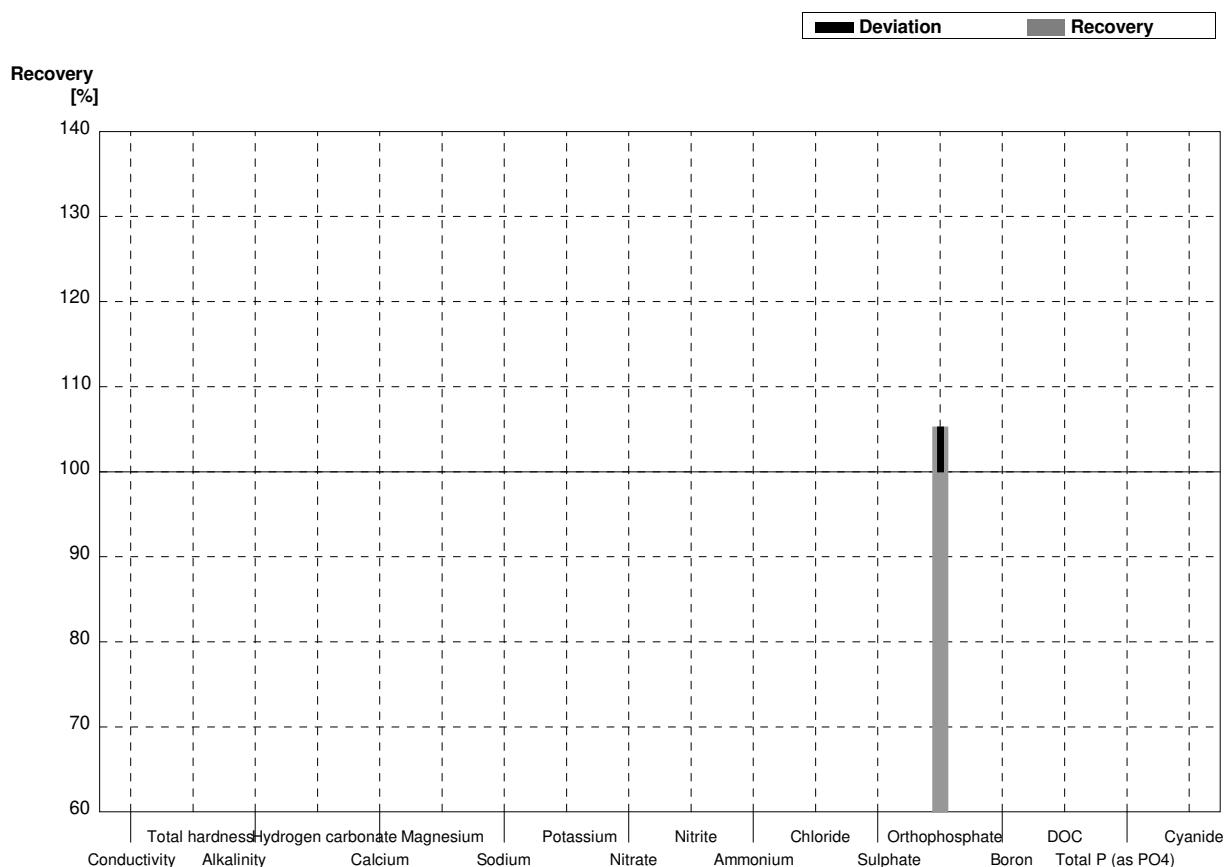
**Sample N158B**  
**Laboratory C**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1	436	3,09	$\mu\text{S}/\text{cm}$	100%
Total hardness	1,25	0,02			$\text{mmol/l}$	
Alkalinity	1,19	0,01	1,22	0,03	$\text{mmol/l}$	103%
Hydrogen carbonate	69,5	0,4	71,5	1,03	$\text{mg/l}$	103%
Calcium	39,4	0,6			$\text{mg/l}$	
Magnesium	6,41	0,09			$\text{mg/l}$	
Sodium	32,5	0,2			$\text{mg/l}$	
Potassium	5,52	0,04			$\text{mg/l}$	
Nitrate	73,3	1,7	72,2	4,95	$\text{mg/l}$	98%
Nitrite	0,063	0,003	0,0630	0,0063	$\text{mg/l}$	100%
Ammonium	0,070	0,003	0,0743	0,0112	$\text{mg/l}$	106%
Chloride	14,7	0,3	14,7	0,15	$\text{mg/l}$	100%
Sulphate	62,6	0,4			$\text{mg/l}$	
Orthophosphate	<0,009		0,0105	0,0012	$\text{mg/l}$	FP
Boron	0,0244	0,0001			$\text{mg/l}$	
DOC	1,56	0,01			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	<0,009		0,0120	0,0016	$\text{mg/l}$	FP
Cyanide	0,0165	0,0001			$\text{mg/l}$	



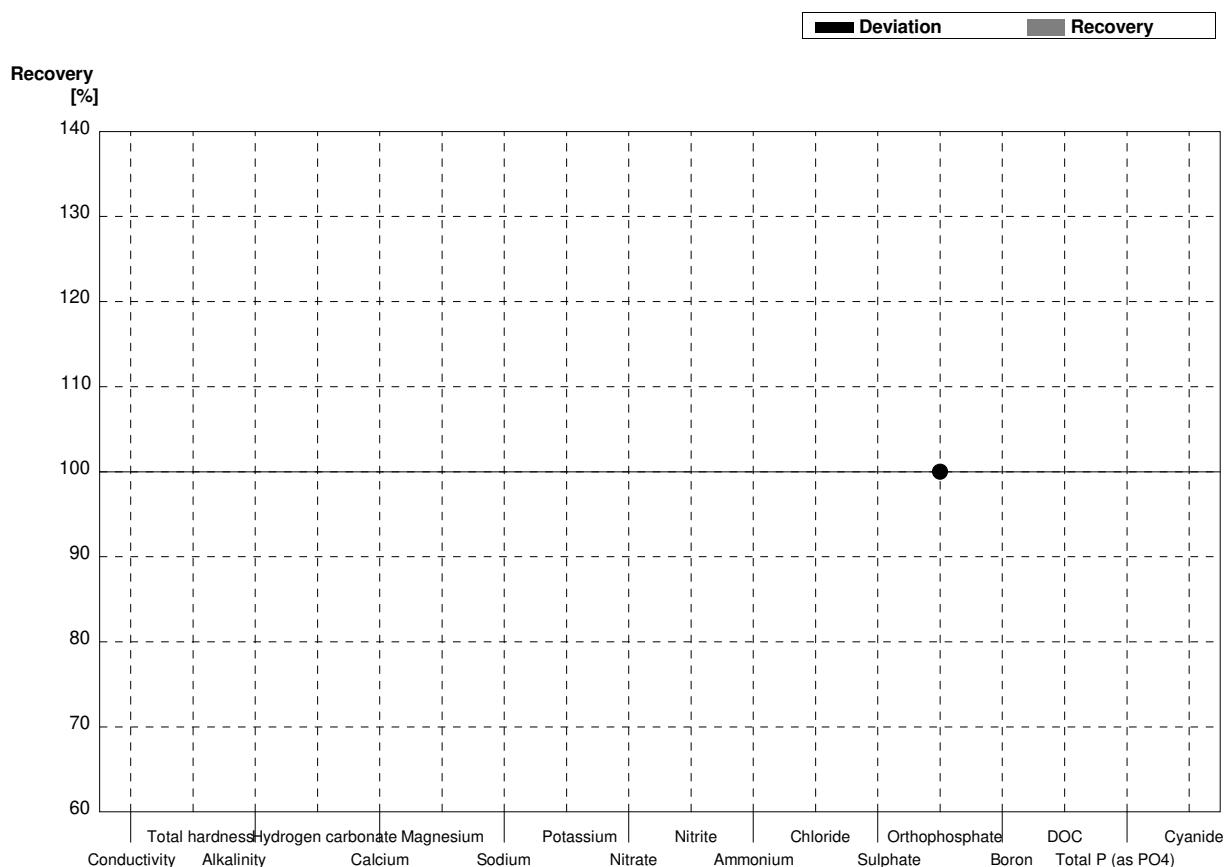
**Sample N158A**  
**Laboratory D**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	489	2			µS/cm	
Total hardness	2,04	0,02			mmol/l	
Alkalinity	1,71	0,02			mmol/l	
Hydrogen carbonate	101	1			mg/l	
Calcium	57,9	0,7			mg/l	
Magnesium	14,5	0,2			mg/l	
Sodium	11,7	0,3			mg/l	
Potassium	2,30	0,04			mg/l	
Nitrate	39,9	0,6			mg/l	
Nitrite	0,0468	0,0010			mg/l	
Ammonium	0,0251	0,0044			mg/l	
Chloride	47,6	0,9			mg/l	
Sulphate	45,3	0,5			mg/l	
Orthophosphate	0,132	0,001	0,139	0,010	mg/l	105%
Boron	0,0431	0,0002			mg/l	
DOC	5,62	0,03			mg/l	
Total P (as PO <sub>4</sub> )	0,184	0,001			mg/l	
Cyanide	0,0469	0,0003			mg/l	



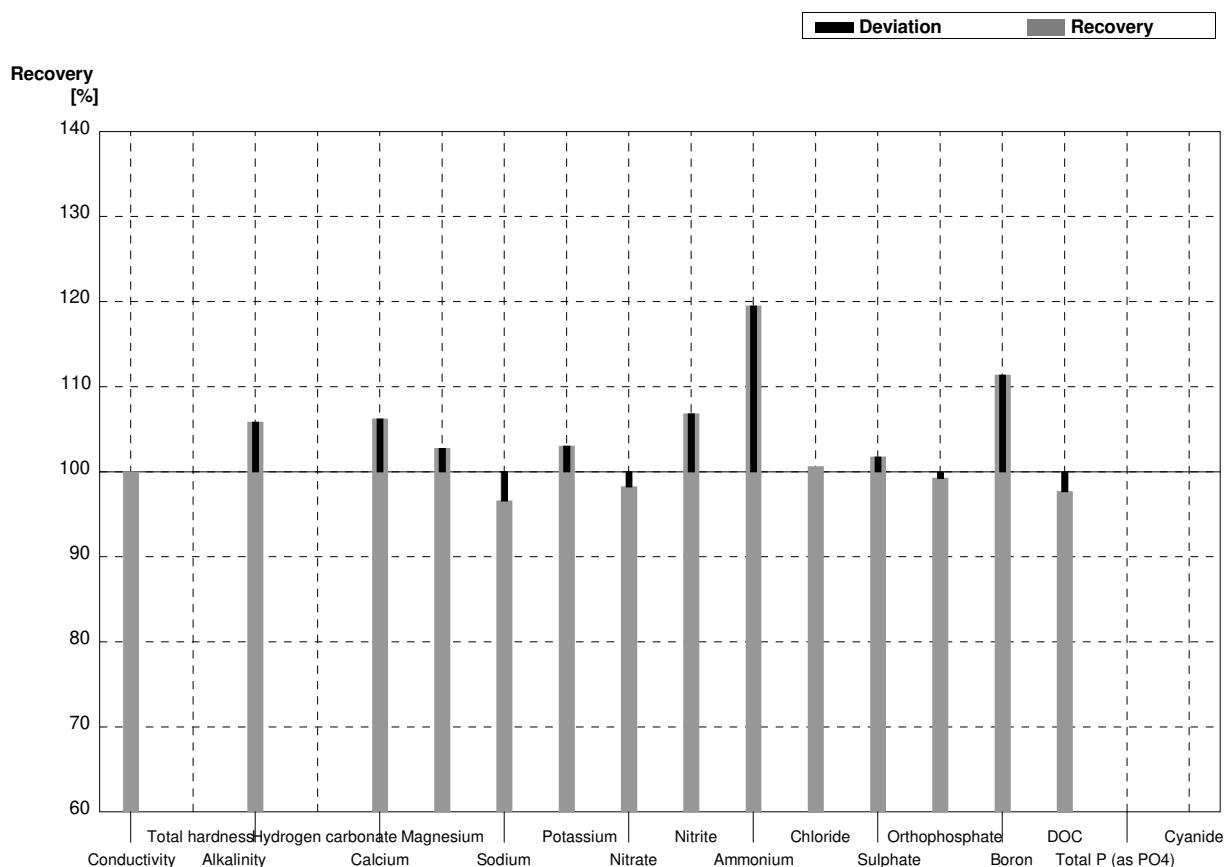
**Sample N158B**  
**Laboratory D**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1			$\mu\text{S}/\text{cm}$	
Total hardness	1,25	0,02			$\text{mmol/l}$	
Alkalinity	1,19	0,01			$\text{mmol/l}$	
Hydrogen carbonate	69,5	0,4			$\text{mg/l}$	
Calcium	39,4	0,6			$\text{mg/l}$	
Magnesium	6,41	0,09			$\text{mg/l}$	
Sodium	32,5	0,2			$\text{mg/l}$	
Potassium	5,52	0,04			$\text{mg/l}$	
Nitrate	73,3	1,7			$\text{mg/l}$	
Nitrite	0,063	0,003			$\text{mg/l}$	
Ammonium	0,070	0,003			$\text{mg/l}$	
Chloride	14,7	0,3			$\text{mg/l}$	
Sulphate	62,6	0,4			$\text{mg/l}$	
Orthophosphate	<0,009		<0,05	0,005	$\text{mg/l}$	•
Boron	0,0244	0,0001			$\text{mg/l}$	
DOC	1,56	0,01			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	<0,009				$\text{mg/l}$	
Cyanide	0,0165	0,0001			$\text{mg/l}$	



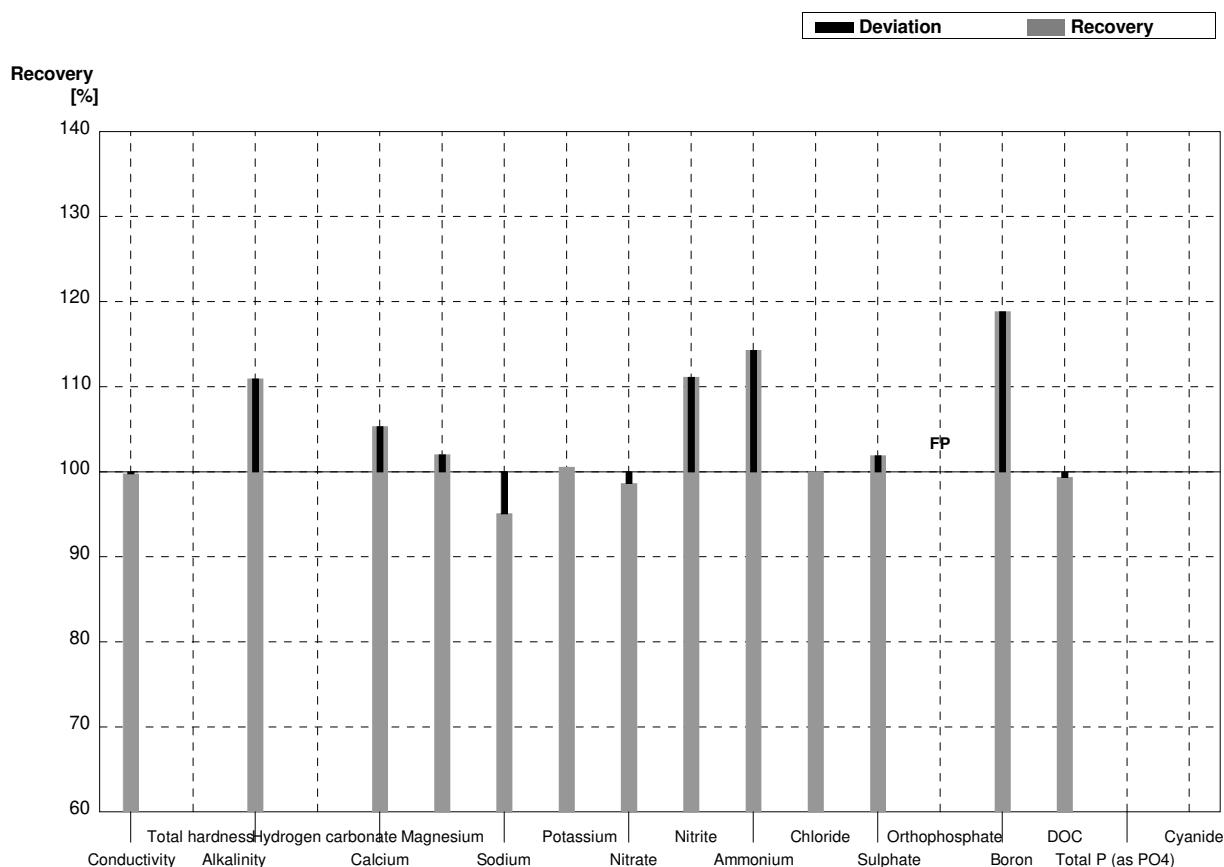
**Sample N158A**  
**Laboratory E**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	489	2	489		µS/cm	100%
Total hardness	2,04	0,02			mmol/l	
Alkalinity	1,71	0,02	1,81		mmol/l	106%
Hydrogen carbonate	101	1			mg/l	
Calcium	57,9	0,7	61,5		mg/l	106%
Magnesium	14,5	0,2	14,9		mg/l	103%
Sodium	11,7	0,3	11,3		mg/l	97%
Potassium	2,30	0,04	2,37		mg/l	103%
Nitrate	39,9	0,6	39,2		mg/l	98%
Nitrite	0,0468	0,0010	0,050		mg/l	107%
Ammonium	0,0251	0,0044	0,0300		mg/l	120%
Chloride	47,6	0,9	47,9		mg/l	101%
Sulphate	45,3	0,5	46,1		mg/l	102%
Orthophosphate	0,132	0,001	0,131		mg/l	99%
Boron	0,0431	0,0002	0,0480		mg/l	111%
DOC	5,62	0,03	5,49		mg/l	98%
Total P (as PO4)	0,184	0,001			mg/l	
Cyanide	0,0469	0,0003			mg/l	



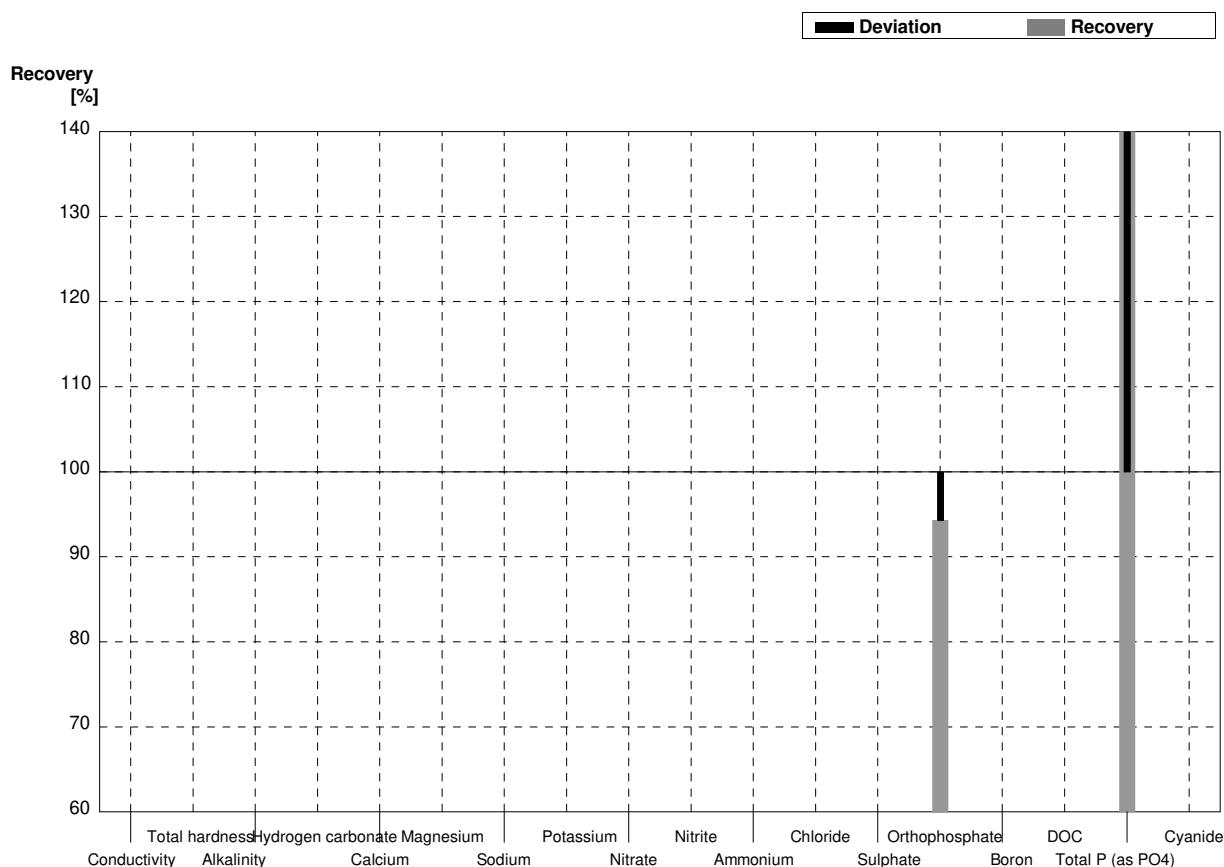
**Sample N158B**  
**Laboratory E**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1	434		$\mu\text{S}/\text{cm}$	100%
Total hardness	1,25	0,02			$\text{mmol/l}$	
Alkalinity	1,19	0,01	1,32		$\text{mmol/l}$	111%
Hydrogen carbonate	69,5	0,4			$\text{mg/l}$	
Calcium	39,4	0,6	41,5		$\text{mg/l}$	105%
Magnesium	6,41	0,09	6,54		$\text{mg/l}$	102%
Sodium	32,5	0,2	30,9		$\text{mg/l}$	95%
Potassium	5,52	0,04	5,55		$\text{mg/l}$	101%
Nitrate	73,3	1,7	72,3		$\text{mg/l}$	99%
Nitrite	0,063	0,003	0,070		$\text{mg/l}$	111%
Ammonium	0,070	0,003	0,080		$\text{mg/l}$	114%
Chloride	14,7	0,3	14,7		$\text{mg/l}$	100%
Sulphate	62,6	0,4	63,8		$\text{mg/l}$	102%
Orthophosphate	<0,009		0,0200		$\text{mg/l}$	FP
Boron	0,0244	0,0001	0,0290		$\text{mg/l}$	119%
DOC	1,56	0,01	1,55		$\text{mg/l}$	99%
Total P (as PO <sub>4</sub> )	<0,009				$\text{mg/l}$	
Cyanide	0,0165	0,0001			$\text{mg/l}$	



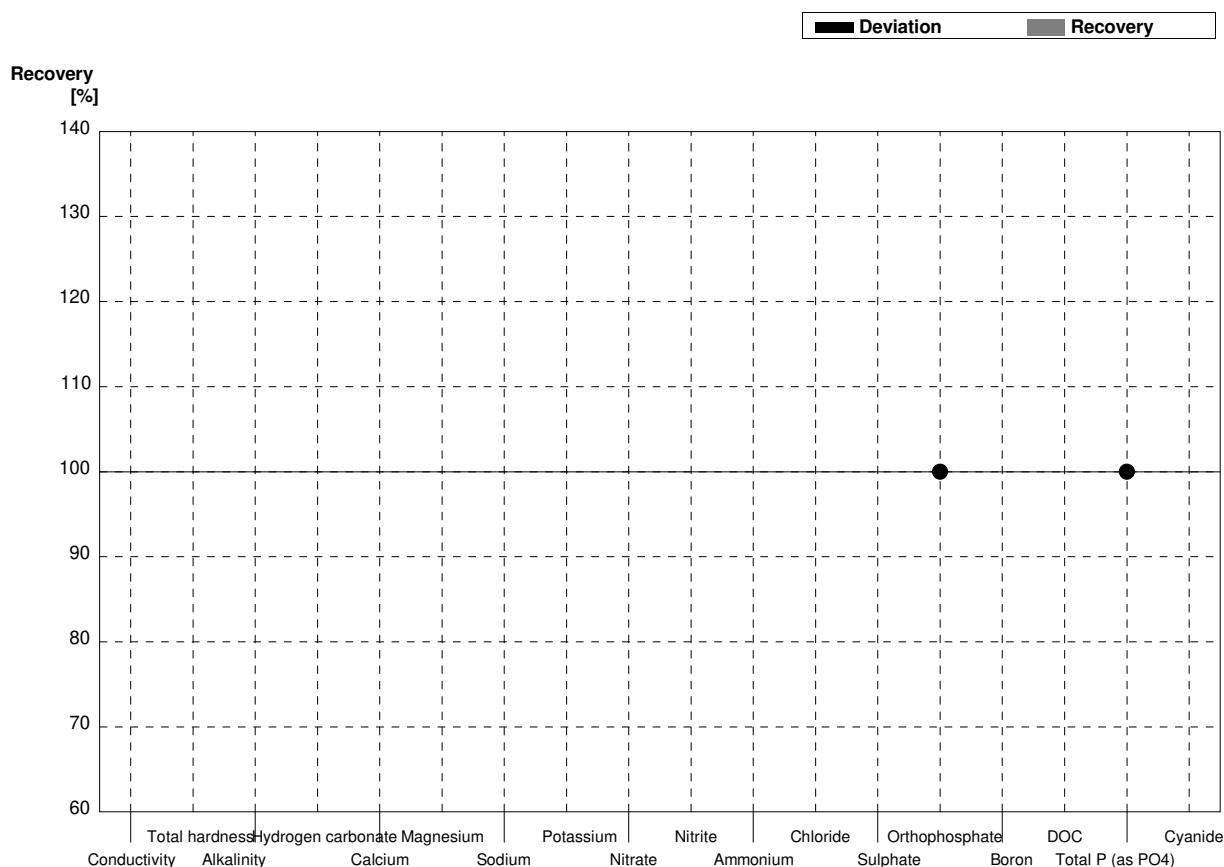
**Sample N158A**  
**Laboratory F**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	489	2			µS/cm	
Total hardness	2,04	0,02			mmol/l	
Alkalinity	1,71	0,02			mmol/l	
Hydrogen carbonate	101	1			mg/l	
Calcium	57,9	0,7			mg/l	
Magnesium	14,5	0,2			mg/l	
Sodium	11,7	0,3			mg/l	
Potassium	2,30	0,04			mg/l	
Nitrate	39,9	0,6			mg/l	
Nitrite	0,0468	0,0010			mg/l	
Ammonium	0,0251	0,0044			mg/l	
Chloride	47,6	0,9			mg/l	
Sulphate	45,3	0,5			mg/l	
Orthophosphate	0,132	0,001	0,1245	0,0082	mg/l	94%
Boron	0,0431	0,0002			mg/l	
DOC	5,62	0,03			mg/l	
Total P (as PO <sub>4</sub> )	0,184	0,001	0,4879	0,0334	mg/l	265%
Cyanide	0,0469	0,0003			mg/l	



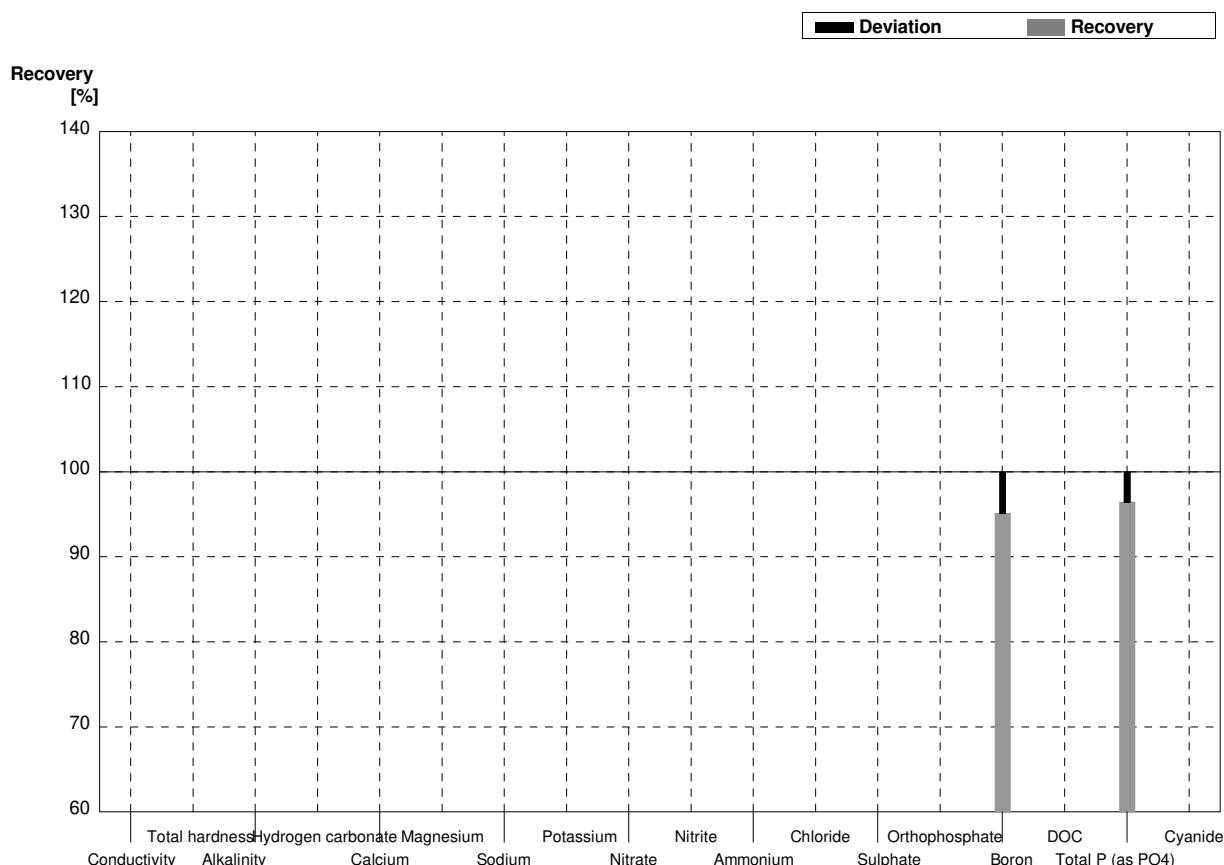
**Sample N158B**  
**Laboratory F**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1			$\mu\text{S}/\text{cm}$	
Total hardness	1,25	0,02			$\text{mmol/l}$	
Alkalinity	1,19	0,01			$\text{mmol/l}$	
Hydrogen carbonate	69,5	0,4			$\text{mg/l}$	
Calcium	39,4	0,6			$\text{mg/l}$	
Magnesium	6,41	0,09			$\text{mg/l}$	
Sodium	32,5	0,2			$\text{mg/l}$	
Potassium	5,52	0,04			$\text{mg/l}$	
Nitrate	73,3	1,7			$\text{mg/l}$	
Nitrite	0,063	0,003			$\text{mg/l}$	
Ammonium	0,070	0,003			$\text{mg/l}$	
Chloride	14,7	0,3			$\text{mg/l}$	
Sulphate	62,6	0,4			$\text{mg/l}$	
Orthophosphate	<0,009		<0,01		$\text{mg/l}$	•
Boron	0,0244	0,0001			$\text{mg/l}$	
DOC	1,56	0,01			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	<0,009		<0,01		$\text{mg/l}$	•
Cyanide	0,0165	0,0001			$\text{mg/l}$	



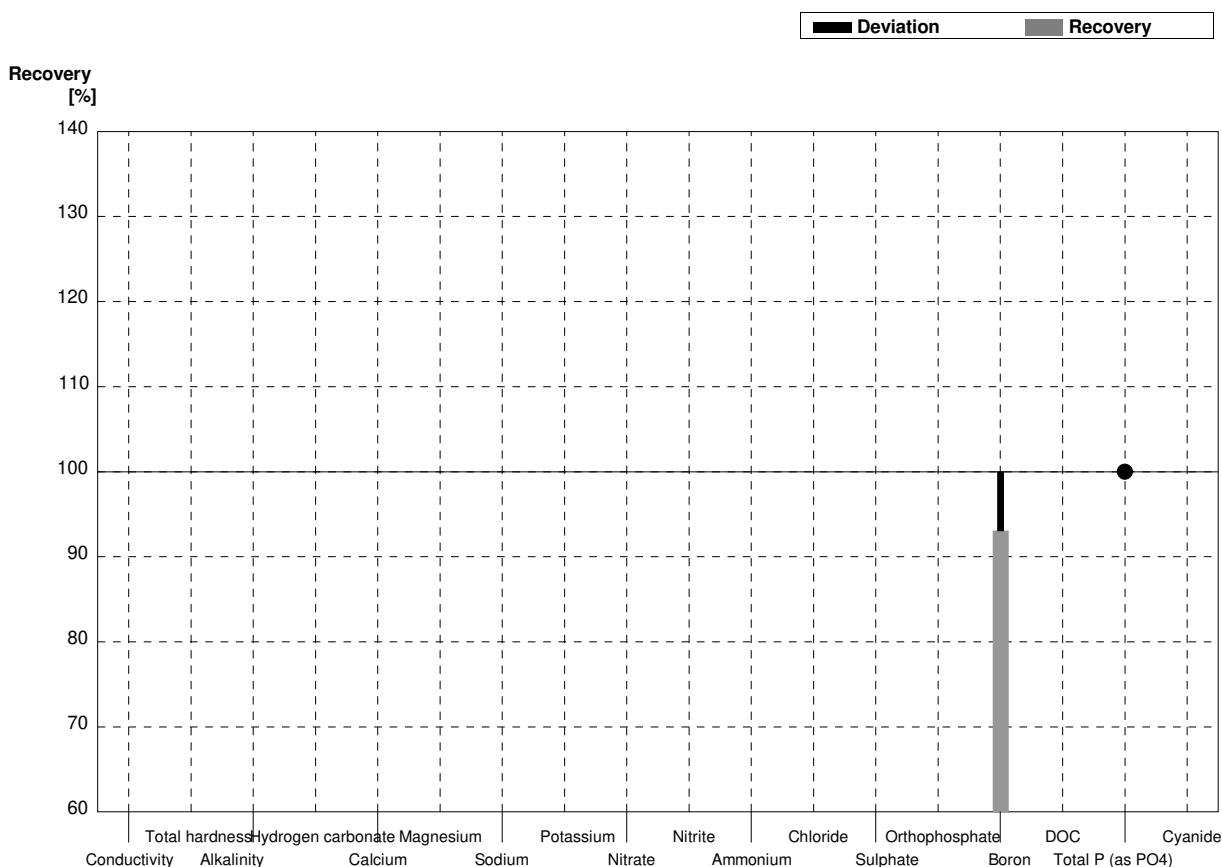
**Sample N158A**  
**Laboratory G**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	489	2			µS/cm	
Total hardness	2,04	0,02			mmol/l	
Alkalinity	1,71	0,02			mmol/l	
Hydrogen carbonate	101	1			mg/l	
Calcium	57,9	0,7			mg/l	
Magnesium	14,5	0,2			mg/l	
Sodium	11,7	0,3			mg/l	
Potassium	2,30	0,04			mg/l	
Nitrate	39,9	0,6			mg/l	
Nitrite	0,0468	0,0010			mg/l	
Ammonium	0,0251	0,0044			mg/l	
Chloride	47,6	0,9			mg/l	
Sulphate	45,3	0,5			mg/l	
Orthophosphate	0,132	0,001			mg/l	
Boron	0,0431	0,0002	0,04099		mg/l	95%
DOC	5,62	0,03			mg/l	
Total P (as PO <sub>4</sub> )	0,184	0,001	0,17747		mg/l	96%
Cyanide	0,0469	0,0003			mg/l	



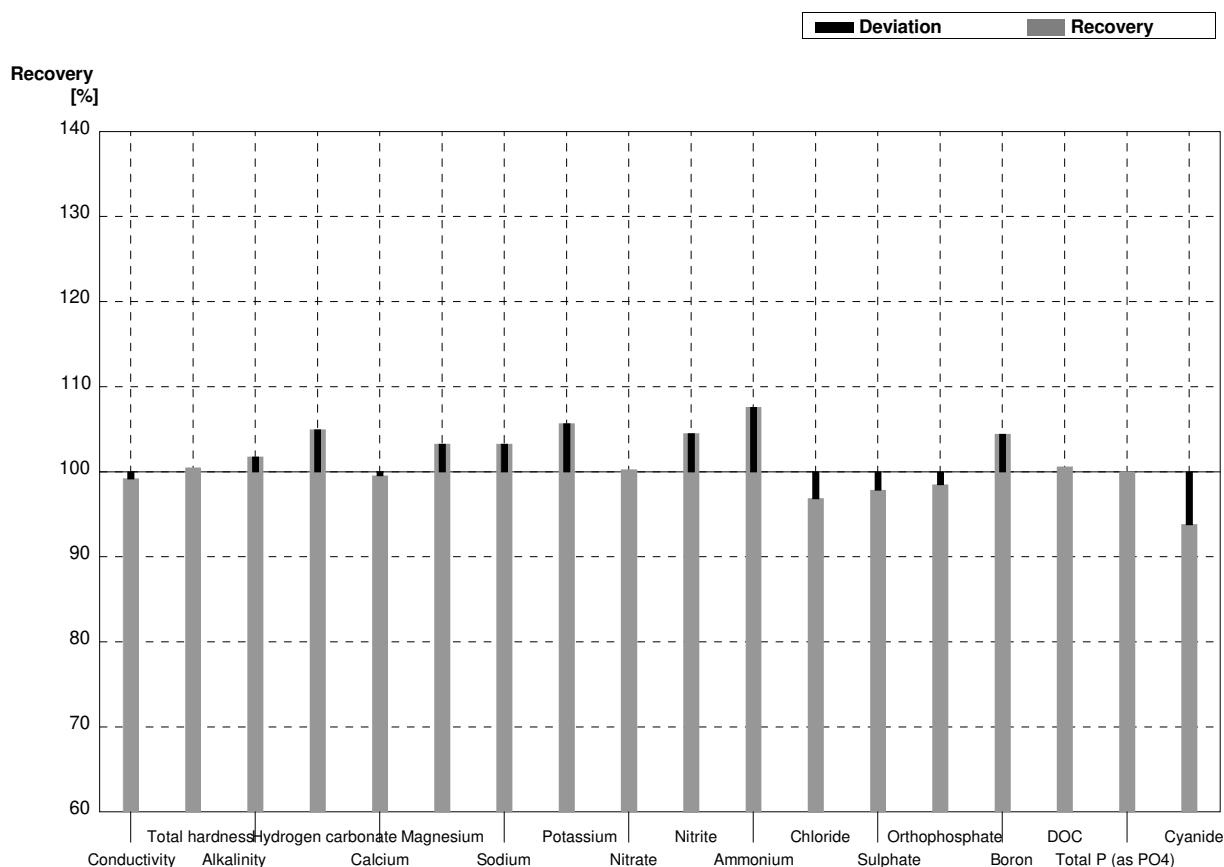
**Sample N158B**  
**Laboratory G**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1			$\mu\text{S}/\text{cm}$	
Total hardness	1,25	0,02			$\text{mmol/l}$	
Alkalinity	1,19	0,01			$\text{mmol/l}$	
Hydrogen carbonate	69,5	0,4			$\text{mg/l}$	
Calcium	39,4	0,6			$\text{mg/l}$	
Magnesium	6,41	0,09			$\text{mg/l}$	
Sodium	32,5	0,2			$\text{mg/l}$	
Potassium	5,52	0,04			$\text{mg/l}$	
Nitrate	73,3	1,7			$\text{mg/l}$	
Nitrite	0,063	0,003			$\text{mg/l}$	
Ammonium	0,070	0,003			$\text{mg/l}$	
Chloride	14,7	0,3			$\text{mg/l}$	
Sulphate	62,6	0,4			$\text{mg/l}$	
Orthophosphate	<0,009				$\text{mg/l}$	
Boron	0,0244	0,0001	0,02271		$\text{mg/l}$	93%
DOC	1,56	0,01			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	<0,009		<0,0300		$\text{mg/l}$	•
Cyanide	0,0165	0,0001			$\text{mg/l}$	



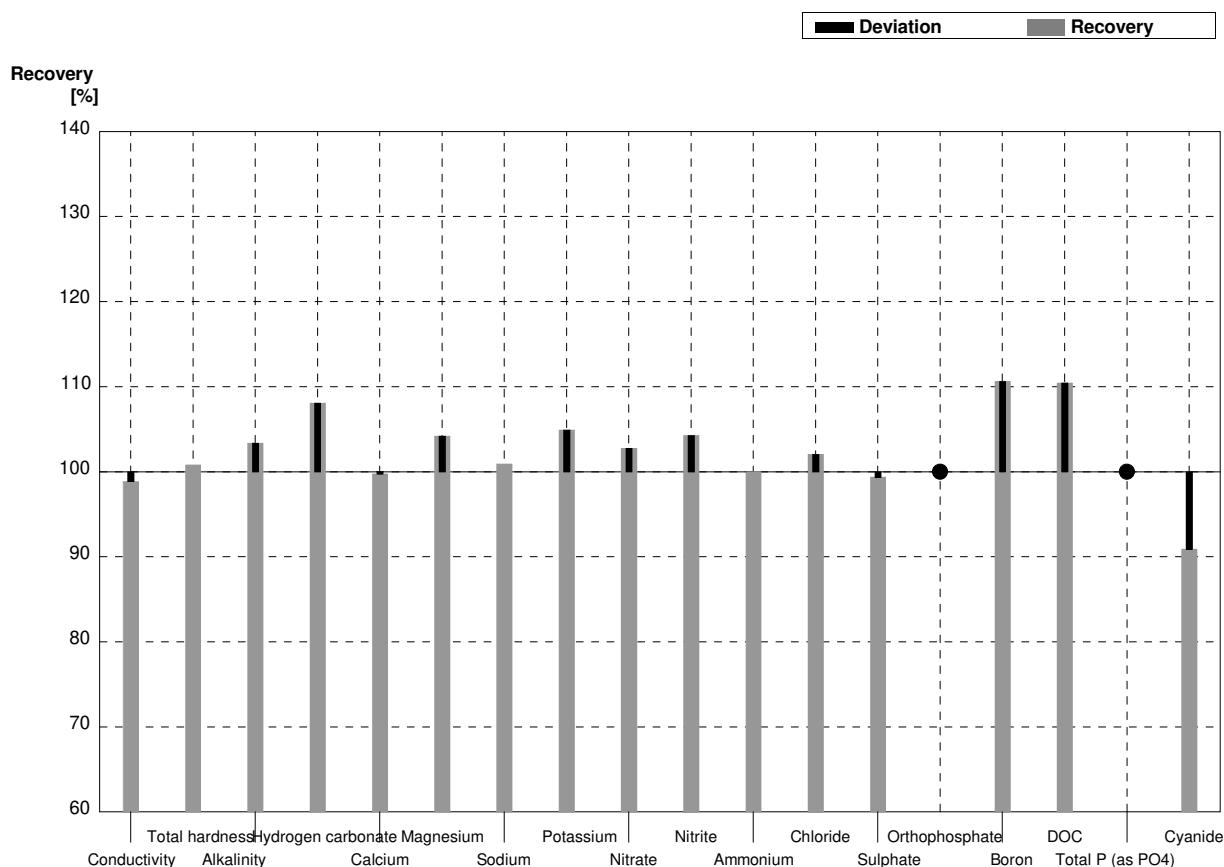
**Sample N158A**  
**Laboratory H**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2	485	24	$\mu\text{S}/\text{cm}$	99%
Total hardness	2,04	0,02	2,05	0,2	$\text{mmol/l}$	100%
Alkalinity	1,71	0,02	1,74	0,095	$\text{mmol/l}$	102%
Hydrogen carbonate	101	1	106	5,3	$\text{mg/l}$	105%
Calcium	57,9	0,7	57,64	5,8	$\text{mg/l}$	100%
Magnesium	14,5	0,2	14,97	1,5	$\text{mg/l}$	103%
Sodium	11,7	0,3	12,08	1,2	$\text{mg/l}$	103%
Potassium	2,30	0,04	2,43	0,24	$\text{mg/l}$	106%
Nitrate	39,9	0,6	40,0	2,0	$\text{mg/l}$	100%
Nitrite	0,0468	0,0010	0,0489	0,0049	$\text{mg/l}$	104%
Ammonium	0,0251	0,0044	0,0270	0,003	$\text{mg/l}$	108%
Chloride	47,6	0,9	46,1	4,61	$\text{mg/l}$	97%
Sulphate	45,3	0,5	44,33	4,43	$\text{mg/l}$	98%
Orthophosphate	0,132	0,001	0,130	0,013	$\text{mg/l}$	98%
Boron	0,0431	0,0002	0,0450	0,005	$\text{mg/l}$	104%
DOC	5,62	0,03	5,653	1,023	$\text{mg/l}$	101%
Total P (as PO <sub>4</sub> )	0,184	0,001	0,184	0,018	$\text{mg/l}$	100%
Cyanide	0,0469	0,0003	0,0440	0,004	$\text{mg/l}$	94%



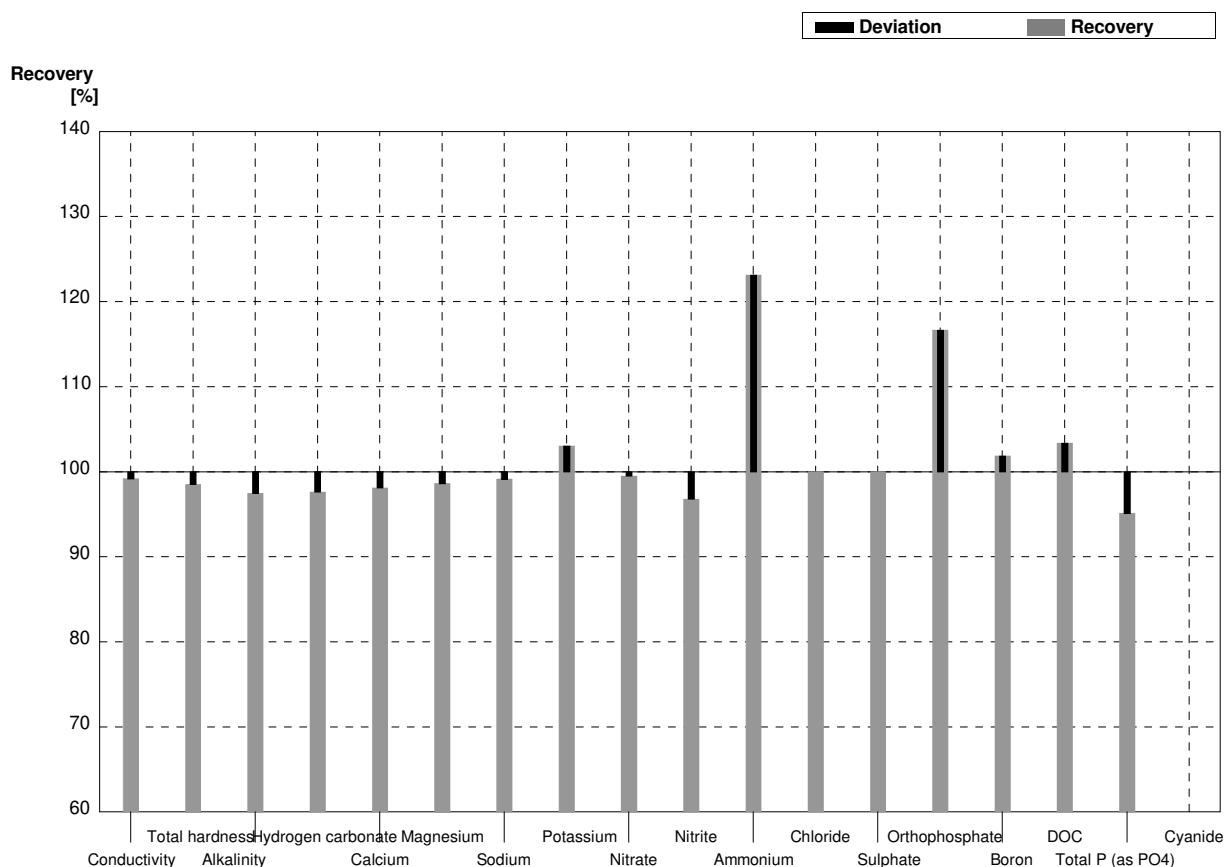
**Sample N158B**  
**Laboratory H**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1	430	21,5	$\mu\text{S}/\text{cm}$	99%
Total hardness	1,25	0,02	1,26	0,13	$\text{mmol/l}$	101%
Alkalinity	1,19	0,01	1,23	0,067	$\text{mmol/l}$	103%
Hydrogen carbonate	69,5	0,4	75,1	3,8	$\text{mg/l}$	108%
Calcium	39,4	0,6	39,3	3,9	$\text{mg/l}$	100%
Magnesium	6,41	0,09	6,68	0,7	$\text{mg/l}$	104%
Sodium	32,5	0,2	32,8	3,3	$\text{mg/l}$	101%
Potassium	5,52	0,04	5,79	0,58	$\text{mg/l}$	105%
Nitrate	73,3	1,7	75,32	3,77	$\text{mg/l}$	103%
Nitrite	0,063	0,003	0,0657	0,0066	$\text{mg/l}$	104%
Ammonium	0,070	0,003	0,070	0,007	$\text{mg/l}$	100%
Chloride	14,7	0,3	15,0	1,5	$\text{mg/l}$	102%
Sulphate	62,6	0,4	62,21	6,22	$\text{mg/l}$	99%
Orthophosphate	<0,009		<0,01		$\text{mg/l}$	•
Boron	0,0244	0,0001	0,0270	0,003	$\text{mg/l}$	111%
DOC	1,56	0,01	1,723	0,312	$\text{mg/l}$	110%
Total P (as PO <sub>4</sub> )	<0,009		<0,01		$\text{mg/l}$	•
Cyanide	0,0165	0,0001	0,0150	0,002	$\text{mg/l}$	91%



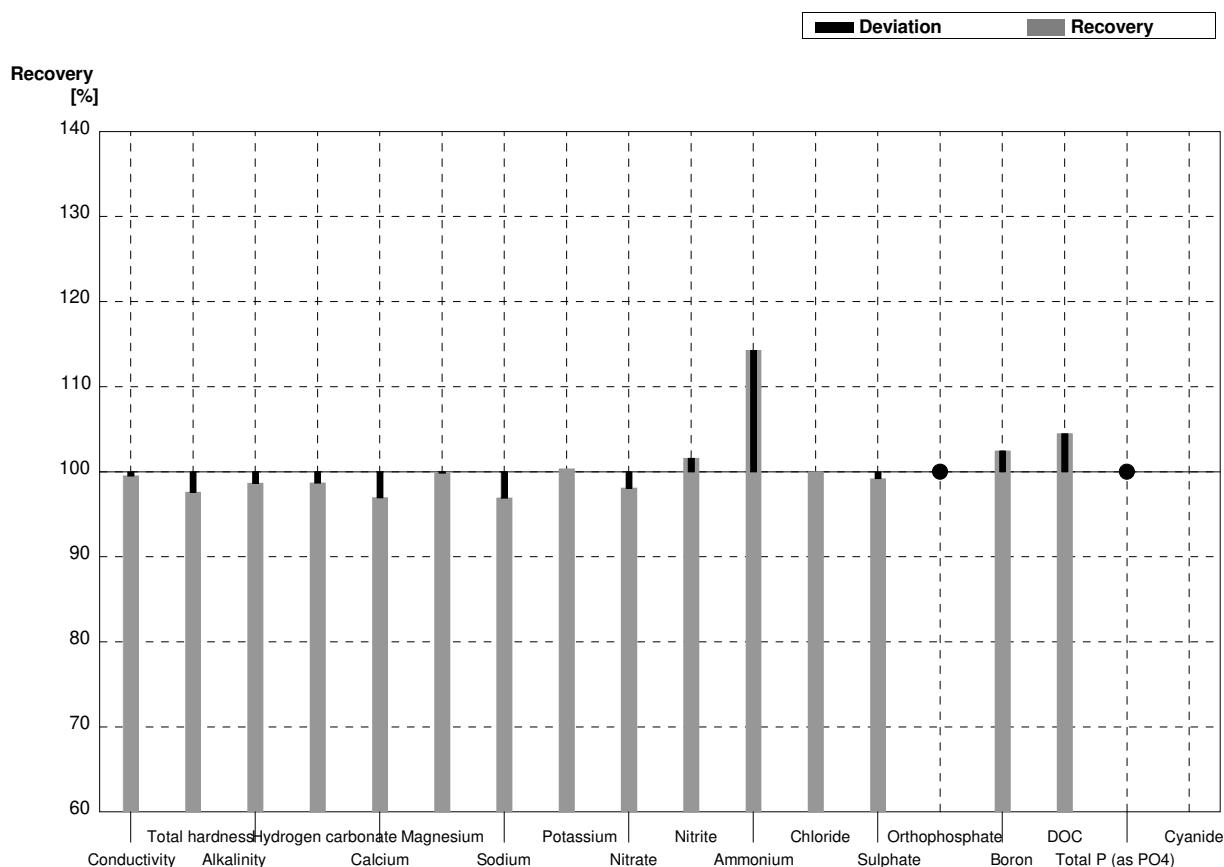
**Sample N158A**  
**Laboratory I**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2	485	19	$\mu\text{S}/\text{cm}$	99%
Total hardness	2,04	0,02	2,01	0,11	$\text{mmol/l}$	99%
Alkalinity	1,71	0,02	1,667	0,131	$\text{mmol/l}$	97%
Hydrogen carbonate	101	1	98,6	8,0	$\text{mg/l}$	98%
Calcium	57,9	0,7	56,8	2,7	$\text{mg/l}$	98%
Magnesium	14,5	0,2	14,3	0,9	$\text{mg/l}$	99%
Sodium	11,7	0,3	11,6	0,6	$\text{mg/l}$	99%
Potassium	2,30	0,04	2,37	0,13	$\text{mg/l}$	103%
Nitrate	39,9	0,6	39,7	2,4	$\text{mg/l}$	99%
Nitrite	0,0468	0,0010	0,0453	0,0052	$\text{mg/l}$	97%
Ammonium	0,0251	0,0044	0,0309	0,0071	$\text{mg/l}$	123%
Chloride	47,6	0,9	47,6	3,8	$\text{mg/l}$	100%
Sulphate	45,3	0,5	45,3	4,2	$\text{mg/l}$	100%
Orthophosphate	0,132	0,001	0,154	0,020	$\text{mg/l}$	117%
Boron	0,0431	0,0002	0,0439	0,0048	$\text{mg/l}$	102%
DOC	5,62	0,03	5,81	1,08	$\text{mg/l}$	103%
Total P (as PO <sub>4</sub> )	0,184	0,001	0,175	0,028	$\text{mg/l}$	95%
Cyanide	0,0469	0,0003			$\text{mg/l}$	



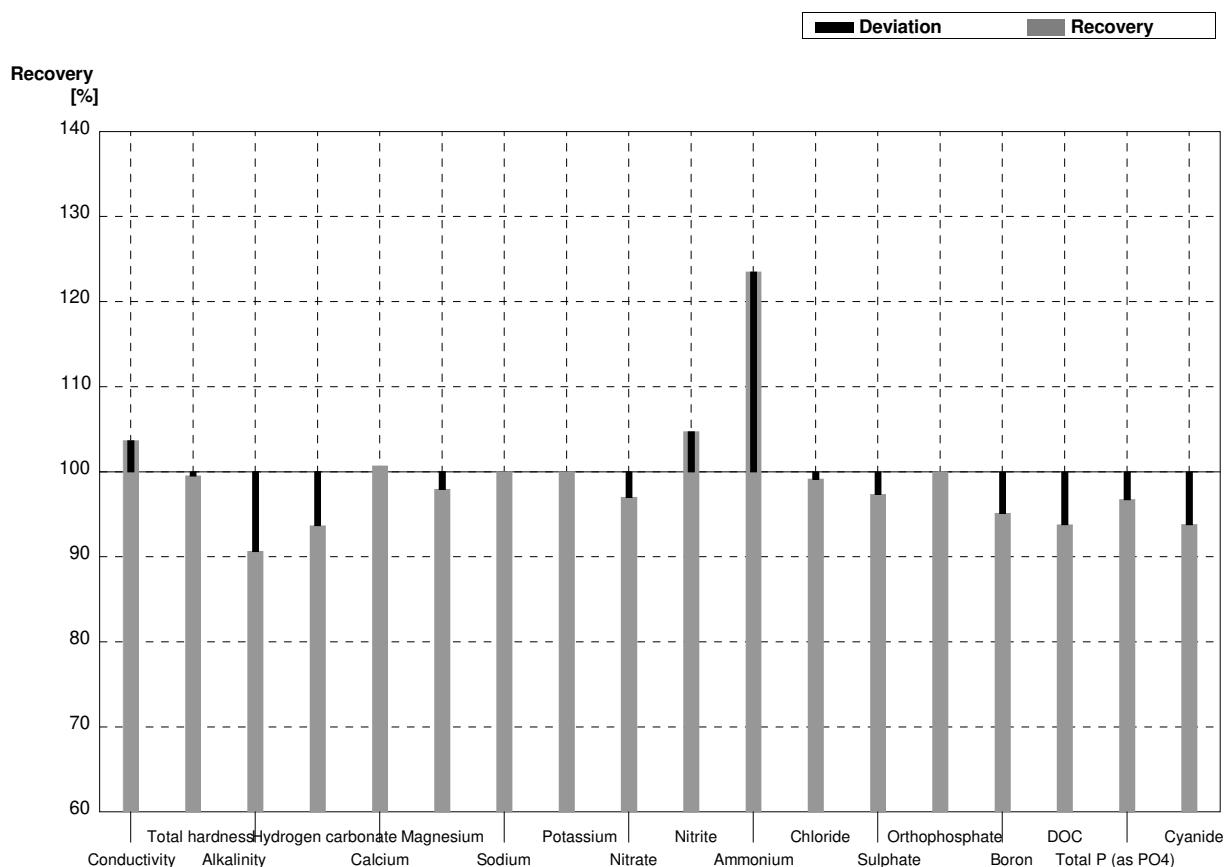
**Sample N158B**  
**Laboratory I**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1	433	17	$\mu\text{S}/\text{cm}$	100%
Total hardness	1,25	0,02	1,22	0,06	$\text{mmol/l}$	98%
Alkalinity	1,19	0,01	1,174	0,100	$\text{mmol/l}$	99%
Hydrogen carbonate	69,5	0,4	68,6	6,1	$\text{mg/l}$	99%
Calcium	39,4	0,6	38,2	1,9	$\text{mg/l}$	97%
Magnesium	6,41	0,09	6,4	0,4	$\text{mg/l}$	100%
Sodium	32,5	0,2	31,5	1,6	$\text{mg/l}$	97%
Potassium	5,52	0,04	5,54	0,2	$\text{mg/l}$	100%
Nitrate	73,3	1,7	71,9	4,4	$\text{mg/l}$	98%
Nitrite	0,063	0,003	0,064	0,006	$\text{mg/l}$	102%
Ammonium	0,070	0,003	0,080	0,01	$\text{mg/l}$	114%
Chloride	14,7	0,3	14,7	1,4	$\text{mg/l}$	100%
Sulphate	62,6	0,4	62,1	5,7	$\text{mg/l}$	99%
Orthophosphate	<0,009		<0,010		$\text{mg/l}$	•
Boron	0,0244	0,0001	0,0250	0,0031	$\text{mg/l}$	102%
DOC	1,56	0,01	1,63	0,41	$\text{mg/l}$	104%
Total P (as PO <sub>4</sub> )	<0,009		<0,010		$\text{mg/l}$	•
Cyanide	0,0165	0,0001			$\text{mg/l}$	



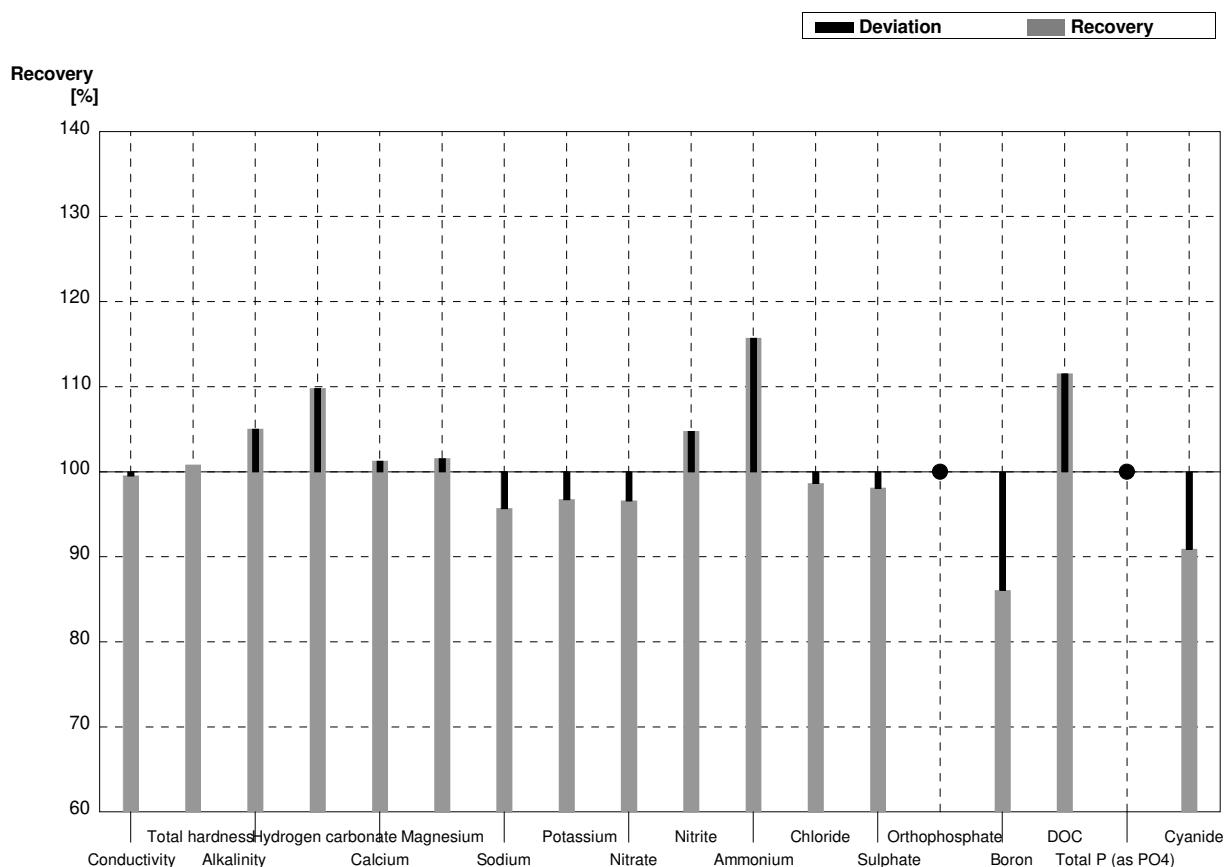
**Sample N158A**  
**Laboratory J**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2	507	15	$\mu\text{S}/\text{cm}$	104%
Total hardness	2,04	0,02	2,03	0,28	$\text{mmol/l}$	100%
Alkalinity	1,71	0,02	1,55	0,06	$\text{mmol/l}$	91%
Hydrogen carbonate	101	1	94,6	3,78	$\text{mg/l}$	94%
Calcium	57,9	0,7	58,3	8,2	$\text{mg/l}$	101%
Magnesium	14,5	0,2	14,2	1,3	$\text{mg/l}$	98%
Sodium	11,7	0,3	11,7	1,1	$\text{mg/l}$	100%
Potassium	2,30	0,04	2,30	0,18	$\text{mg/l}$	100%
Nitrate	39,9	0,6	38,7	3,5	$\text{mg/l}$	97%
Nitrite	0,0468	0,0010	0,0490	0,0020	$\text{mg/l}$	105%
Ammonium	0,0251	0,0044	0,0310	0,0020	$\text{mg/l}$	124%
Chloride	47,6	0,9	47,2	3,8	$\text{mg/l}$	99%
Sulphate	45,3	0,5	44,1	2,6	$\text{mg/l}$	97%
Orthophosphate	0,132	0,001	0,132	0,012	$\text{mg/l}$	100%
Boron	0,0431	0,0002	0,0410	0,007	$\text{mg/l}$	95%
DOC	5,62	0,03	5,27	0,63	$\text{mg/l}$	94%
Total P (as PO <sub>4</sub> )	0,184	0,001	0,178	0,016	$\text{mg/l}$	97%
Cyanide	0,0469	0,0003	0,0440	0,004	$\text{mg/l}$	94%



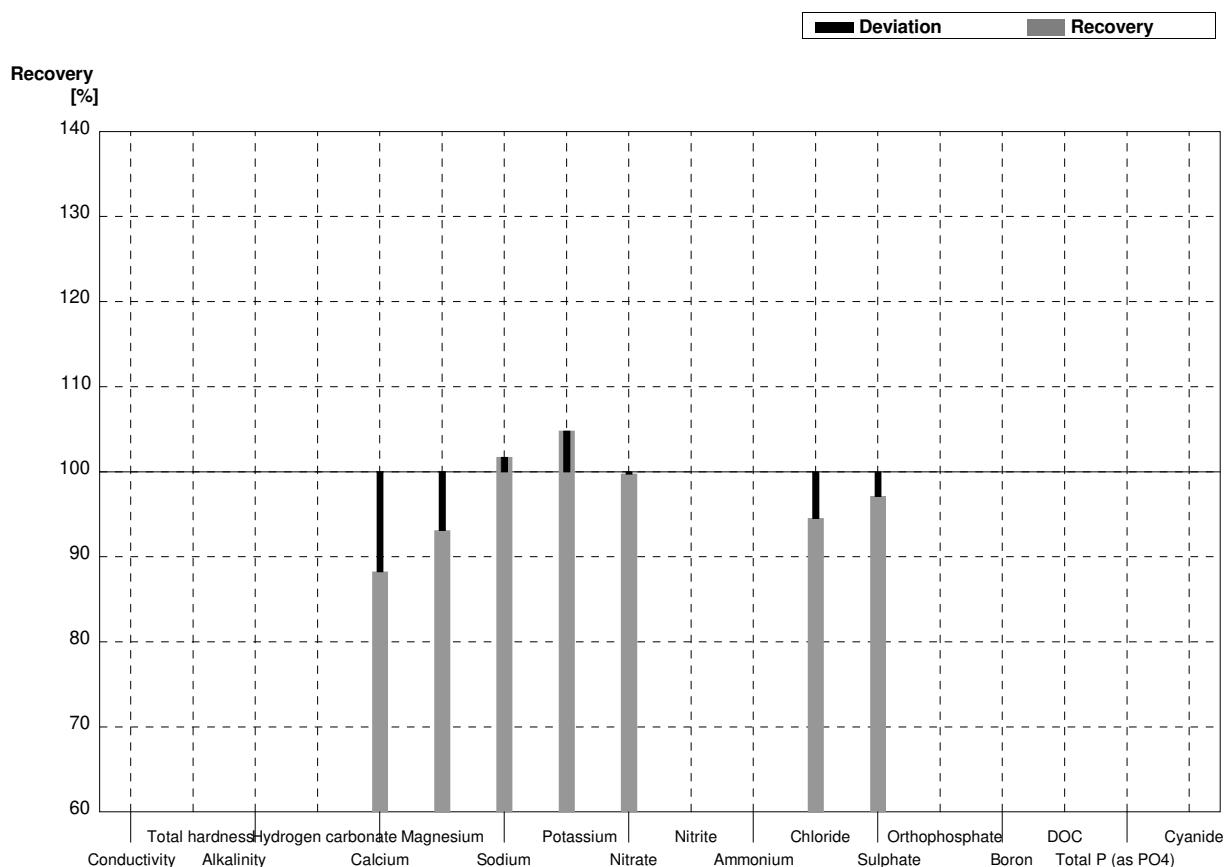
**Sample N158B**  
**Laboratory J**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1	433	13	$\mu\text{S}/\text{cm}$	100%
Total hardness	1,25	0,02	1,26	0,18	$\text{mmol/l}$	101%
Alkalinity	1,19	0,01	1,25	0,05	$\text{mmol/l}$	105%
Hydrogen carbonate	69,5	0,4	76,3	3,05	$\text{mg/l}$	110%
Calcium	39,4	0,6	39,9	1,6	$\text{mg/l}$	101%
Magnesium	6,41	0,09	6,51	0,59	$\text{mg/l}$	102%
Sodium	32,5	0,2	31,1	2,8	$\text{mg/l}$	96%
Potassium	5,52	0,04	5,34	0,43	$\text{mg/l}$	97%
Nitrate	73,3	1,7	70,8	6,4	$\text{mg/l}$	97%
Nitrite	0,063	0,003	0,066	0,003	$\text{mg/l}$	105%
Ammonium	0,070	0,003	0,081	0,006	$\text{mg/l}$	116%
Chloride	14,7	0,3	14,5	1,1	$\text{mg/l}$	99%
Sulphate	62,6	0,4	61,4	3,7	$\text{mg/l}$	98%
Orthophosphate	<0,009		<0,015	0,002	$\text{mg/l}$	•
Boron	0,0244	0,0001	0,0210	0,004	$\text{mg/l}$	86%
DOC	1,56	0,01	1,74	0,21	$\text{mg/l}$	112%
Total P (as PO <sub>4</sub> )	<0,009		<0,015	0,002	$\text{mg/l}$	•
Cyanide	0,0165	0,0001	0,0150	0,001	$\text{mg/l}$	91%



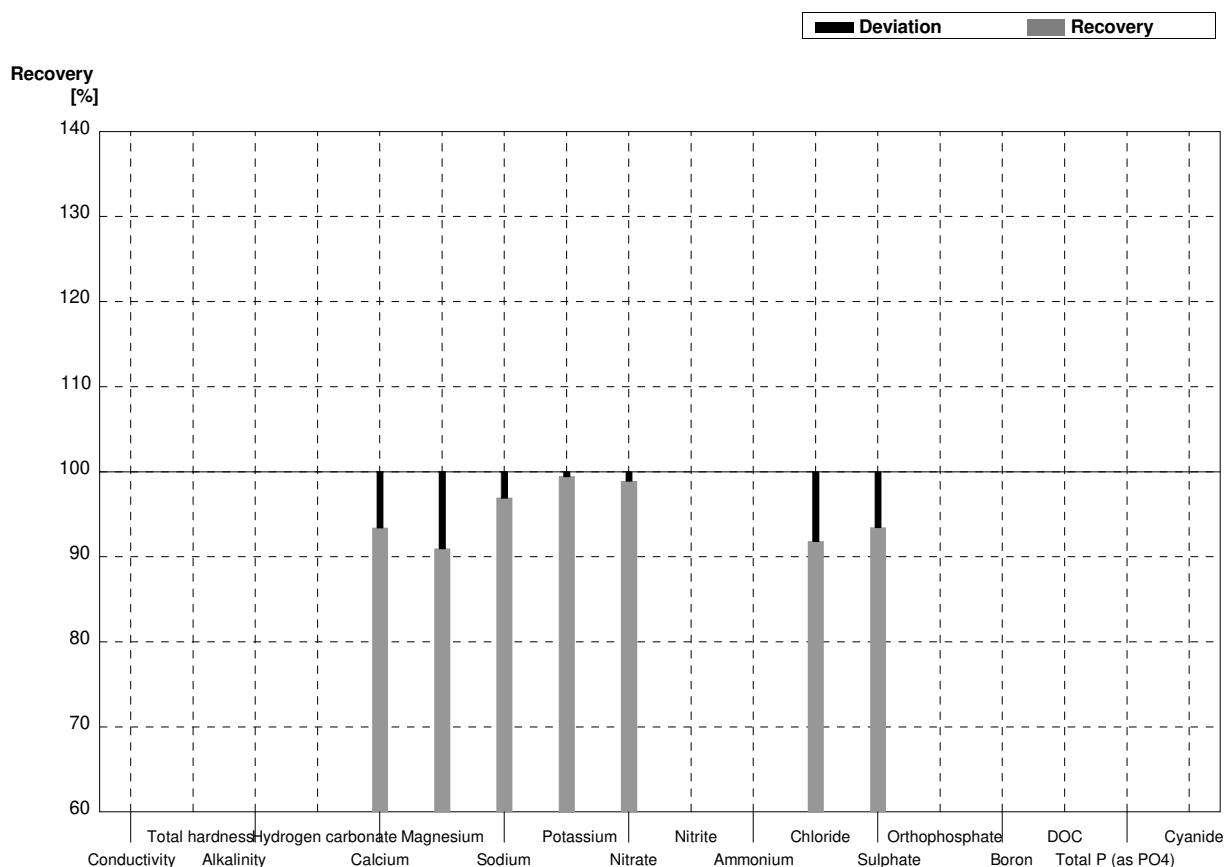
**Sample N158A**  
**Laboratory K**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2			$\mu\text{S}/\text{cm}$	
Total hardness	2,04	0,02			$\text{mmol/l}$	
Alkalinity	1,71	0,02			$\text{mmol/l}$	
Hydrogen carbonate	101	1			$\text{mg/l}$	
Calcium	57,9	0,7	51,1	0,5	$\text{mg/l}$	88%
Magnesium	14,5	0,2	13,5	0,2	$\text{mg/l}$	93%
Sodium	11,7	0,3	11,9	0,1	$\text{mg/l}$	102%
Potassium	2,30	0,04	2,41	0,08	$\text{mg/l}$	105%
Nitrate	39,9	0,6	39,8	0,3	$\text{mg/l}$	100%
Nitrite	0,0468	0,0010			$\text{mg/l}$	
Ammonium	0,0251	0,0044			$\text{mg/l}$	
Chloride	47,6	0,9	45,0	0,2	$\text{mg/l}$	95%
Sulphate	45,3	0,5	44,0	0,1	$\text{mg/l}$	97%
Orthophosphate	0,132	0,001			$\text{mg/l}$	
Boron	0,0431	0,0002			$\text{mg/l}$	
DOC	5,62	0,03			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	0,184	0,001			$\text{mg/l}$	
Cyanide	0,0469	0,0003			$\text{mg/l}$	



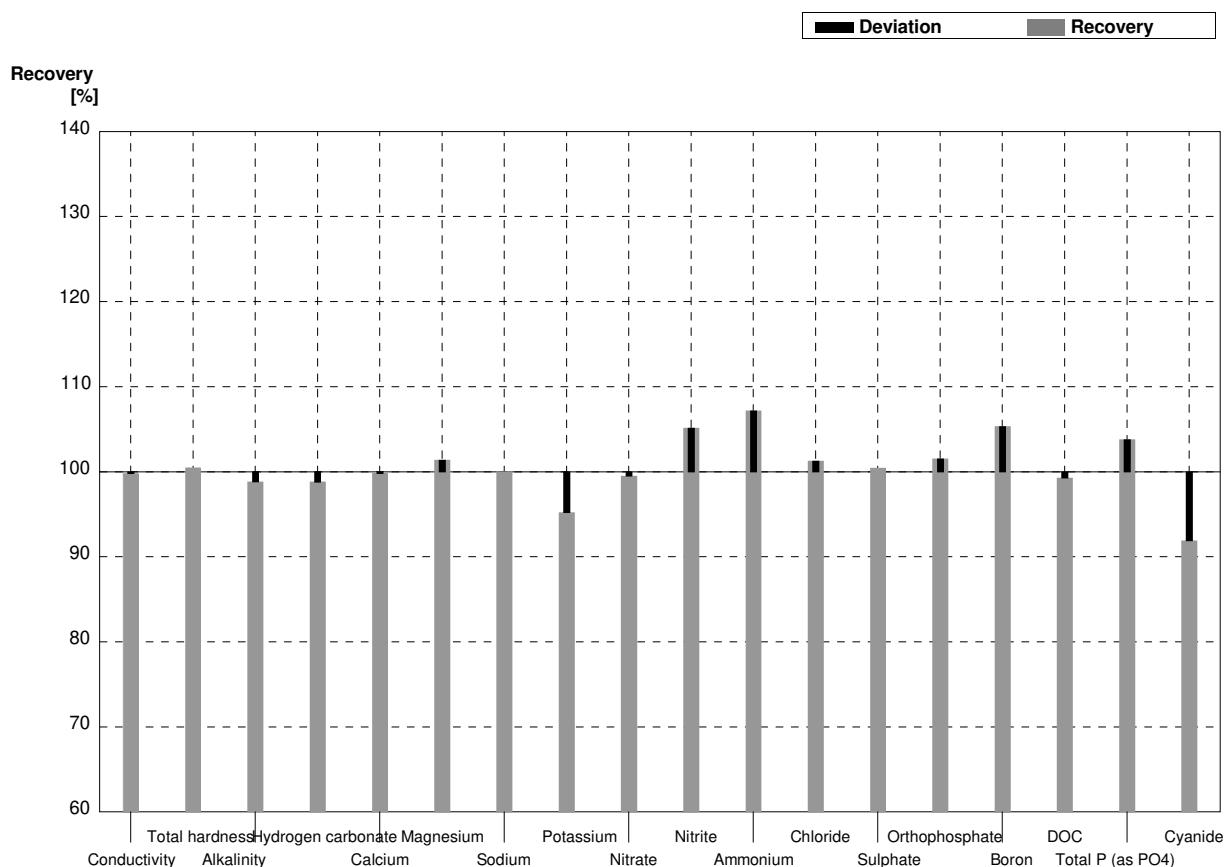
**Sample N158B**  
**Laboratory K**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1			$\mu\text{S}/\text{cm}$	
Total hardness	1,25	0,02			$\text{mmol/l}$	
Alkalinity	1,19	0,01			$\text{mmol/l}$	
Hydrogen carbonate	69,5	0,4			$\text{mg/l}$	
Calcium	39,4	0,6	36,8	0,4	$\text{mg/l}$	93%
Magnesium	6,41	0,09	5,83	0,10	$\text{mg/l}$	91%
Sodium	32,5	0,2	31,5	0,2	$\text{mg/l}$	97%
Potassium	5,52	0,04	5,49	0,10	$\text{mg/l}$	99%
Nitrate	73,3	1,7	72,5	0,3	$\text{mg/l}$	99%
Nitrite	0,063	0,003			$\text{mg/l}$	
Ammonium	0,070	0,003			$\text{mg/l}$	
Chloride	14,7	0,3	13,5	0,1	$\text{mg/l}$	92%
Sulphate	62,6	0,4	58,5	0,1	$\text{mg/l}$	93%
Orthophosphate	<0,009				$\text{mg/l}$	
Boron	0,0244	0,0001			$\text{mg/l}$	
DOC	1,56	0,01			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	<0,009				$\text{mg/l}$	
Cyanide	0,0165	0,0001			$\text{mg/l}$	



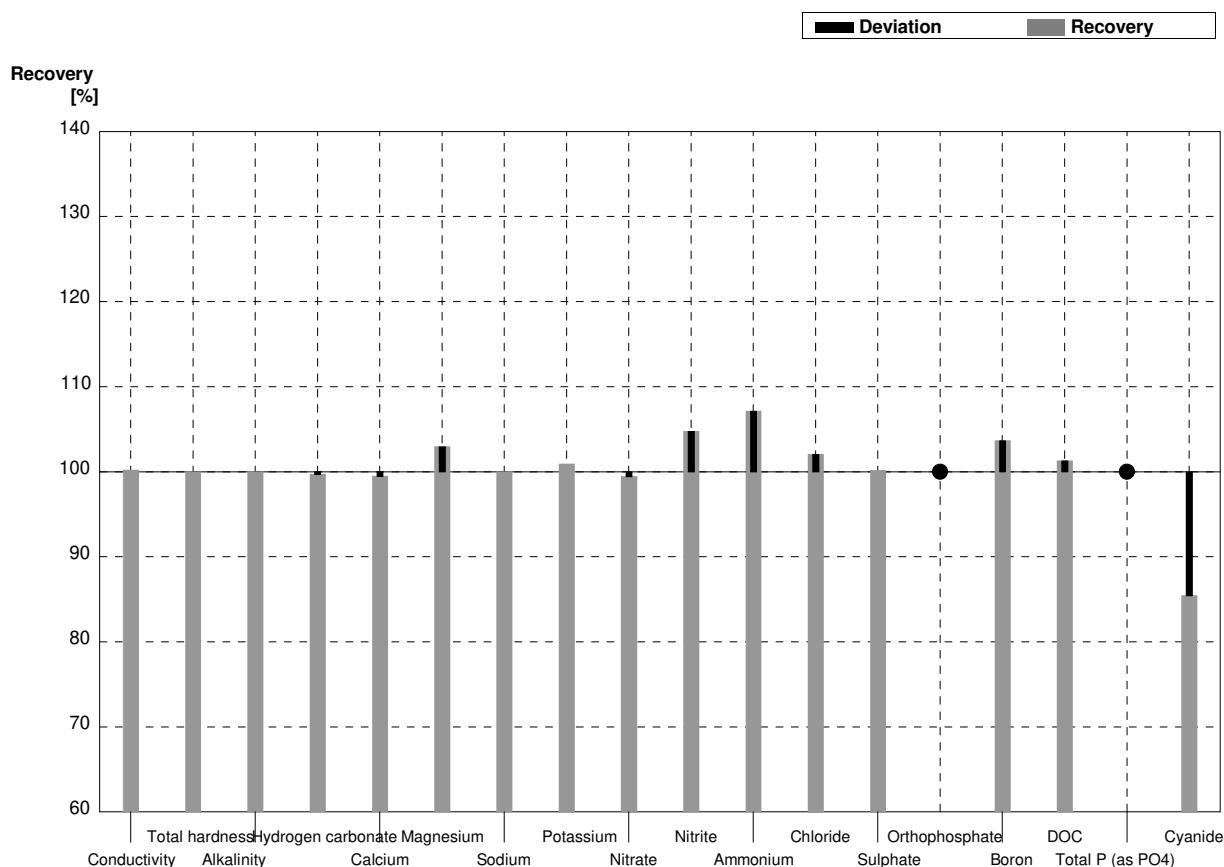
**Sample N158A**  
**Laboratory L**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2	488	15	$\mu\text{S}/\text{cm}$	100%
Total hardness	2,04	0,02	2,05	0,16	$\text{mmol/l}$	100%
Alkalinity	1,71	0,02	1,69	0,07	$\text{mmol/l}$	99%
Hydrogen carbonate	101	1	99,8	4,0	$\text{mg/l}$	99%
Calcium	57,9	0,7	57,8	2,9	$\text{mg/l}$	100%
Magnesium	14,5	0,2	14,7	0,9	$\text{mg/l}$	101%
Sodium	11,7	0,3	11,7	0,5	$\text{mg/l}$	100%
Potassium	2,30	0,04	2,19	0,17	$\text{mg/l}$	95%
Nitrate	39,9	0,6	39,7	2,4	$\text{mg/l}$	99%
Nitrite	0,0468	0,0010	0,0492	0,0039	$\text{mg/l}$	105%
Ammonium	0,0251	0,0044	0,0269	0,0026	$\text{mg/l}$	107%
Chloride	47,6	0,9	48,2	2,4	$\text{mg/l}$	101%
Sulphate	45,3	0,5	45,5	2,7	$\text{mg/l}$	100%
Orthophosphate	0,132	0,001	0,134	0,007	$\text{mg/l}$	102%
Boron	0,0431	0,0002	0,0454	0,0045	$\text{mg/l}$	105%
DOC	5,62	0,03	5,58	0,56	$\text{mg/l}$	99%
Total P (as PO <sub>4</sub> )	0,184	0,001	0,191	0,013	$\text{mg/l}$	104%
Cyanide	0,0469	0,0003	0,0431	0,013	$\text{mg/l}$	92%



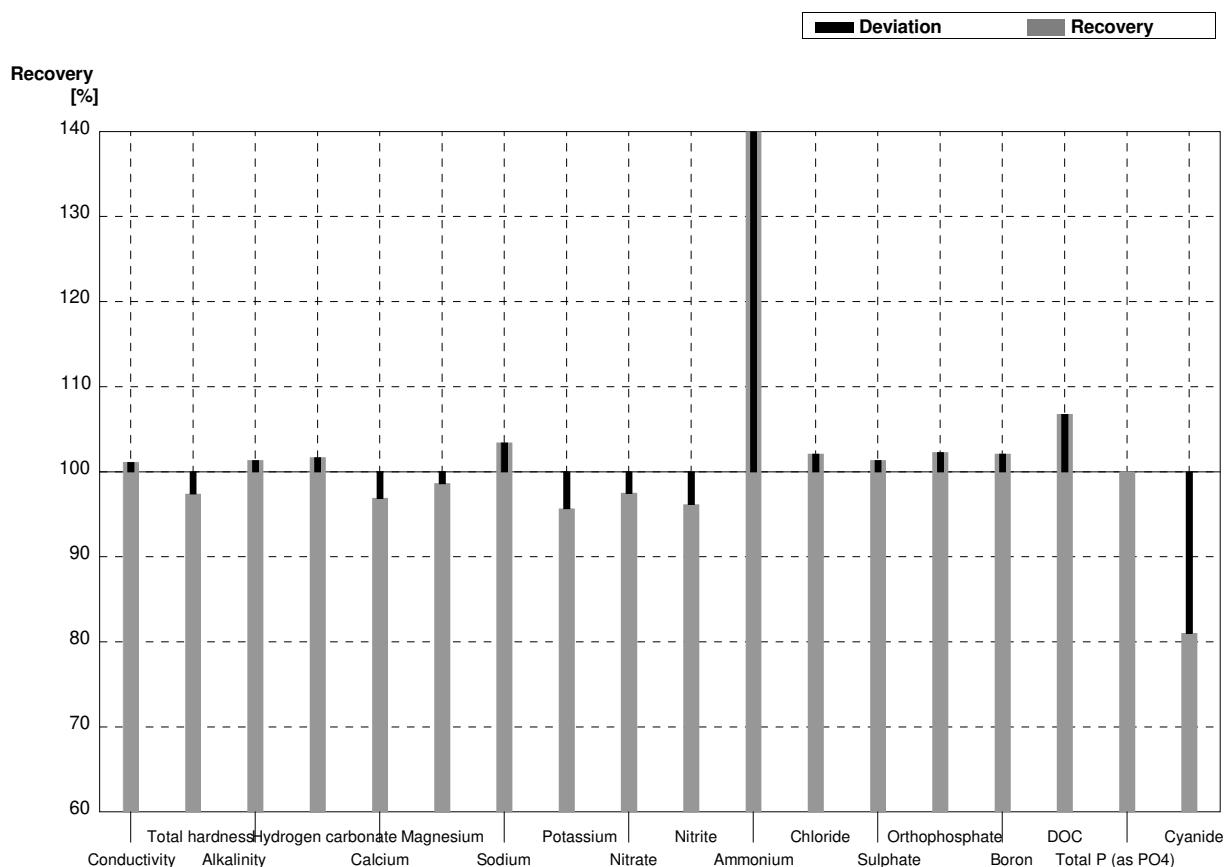
**Sample N158B**  
**Laboratory L**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1	436	13	$\mu\text{S}/\text{cm}$	100%
Total hardness	1,25	0,02	1,25	0,10	$\text{mmol/l}$	100%
Alkalinity	1,19	0,01	1,19	0,05	$\text{mmol/l}$	100%
Hydrogen carbonate	69,5	0,4	69,3	2,8	$\text{mg/l}$	100%
Calcium	39,4	0,6	39,2	2,0	$\text{mg/l}$	99%
Magnesium	6,41	0,09	6,60	0,40	$\text{mg/l}$	103%
Sodium	32,5	0,2	32,5	1,3	$\text{mg/l}$	100%
Potassium	5,52	0,04	5,57	0,44	$\text{mg/l}$	101%
Nitrate	73,3	1,7	72,9	4,4	$\text{mg/l}$	99%
Nitrite	0,063	0,003	0,066	0,005	$\text{mg/l}$	105%
Ammonium	0,070	0,003	0,075	0,007	$\text{mg/l}$	107%
Chloride	14,7	0,3	15,0	0,8	$\text{mg/l}$	102%
Sulphate	62,6	0,4	62,7	3,8	$\text{mg/l}$	100%
Orthophosphate	<0,009		<0,006		$\text{mg/l}$	•
Boron	0,0244	0,0001	0,0253	0,0025	$\text{mg/l}$	104%
DOC	1,56	0,01	1,58	0,16	$\text{mg/l}$	101%
Total P (as PO <sub>4</sub> )	<0,009		<0,006		$\text{mg/l}$	•
Cyanide	0,0165	0,0001	0,0141	0,005	$\text{mg/l}$	85%



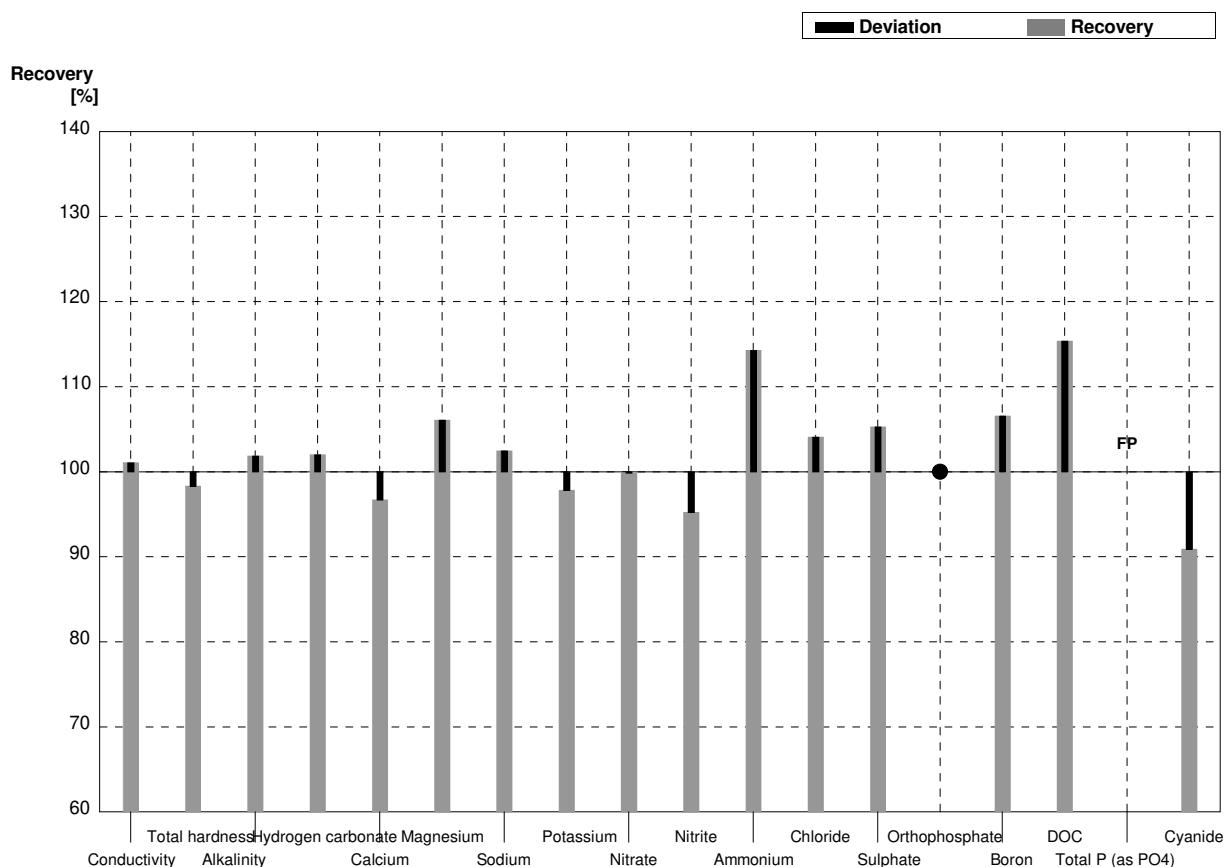
**Sample N158A**  
**Laboratory M**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2	494,4	27,9	$\mu\text{S}/\text{cm}$	101%
Total hardness	2,04	0,02	1,987	0,264	$\text{mmol/l}$	97%
Alkalinity	1,71	0,02	1,733		$\text{mmol/l}$	101%
Hydrogen carbonate	101	1	102,7		$\text{mg/l}$	102%
Calcium	57,9	0,7	56,1	7,48	$\text{mg/l}$	97%
Magnesium	14,5	0,2	14,3	1,89	$\text{mg/l}$	99%
Sodium	11,7	0,3	12,1	2,14	$\text{mg/l}$	103%
Potassium	2,30	0,04	2,20	0,36	$\text{mg/l}$	96%
Nitrate	39,9	0,6	38,9	3,28	$\text{mg/l}$	97%
Nitrite	0,0468	0,0010	0,0450	0,005	$\text{mg/l}$	96%
Ammonium	0,0251	0,0044	0,0400	0,01	$\text{mg/l}$	159%
Chloride	47,6	0,9	48,6	4,05	$\text{mg/l}$	102%
Sulphate	45,3	0,5	45,9	2,96	$\text{mg/l}$	101%
Orthophosphate	0,132	0,001	0,135	0,037	$\text{mg/l}$	102%
Boron	0,0431	0,0002	0,0440	0,001	$\text{mg/l}$	102%
DOC	5,62	0,03	6,00	1,12	$\text{mg/l}$	107%
Total P (as PO <sub>4</sub> )	0,184	0,001	0,184	0,0295	$\text{mg/l}$	100%
Cyanide	0,0469	0,0003	0,0380	0,0038	$\text{mg/l}$	81%



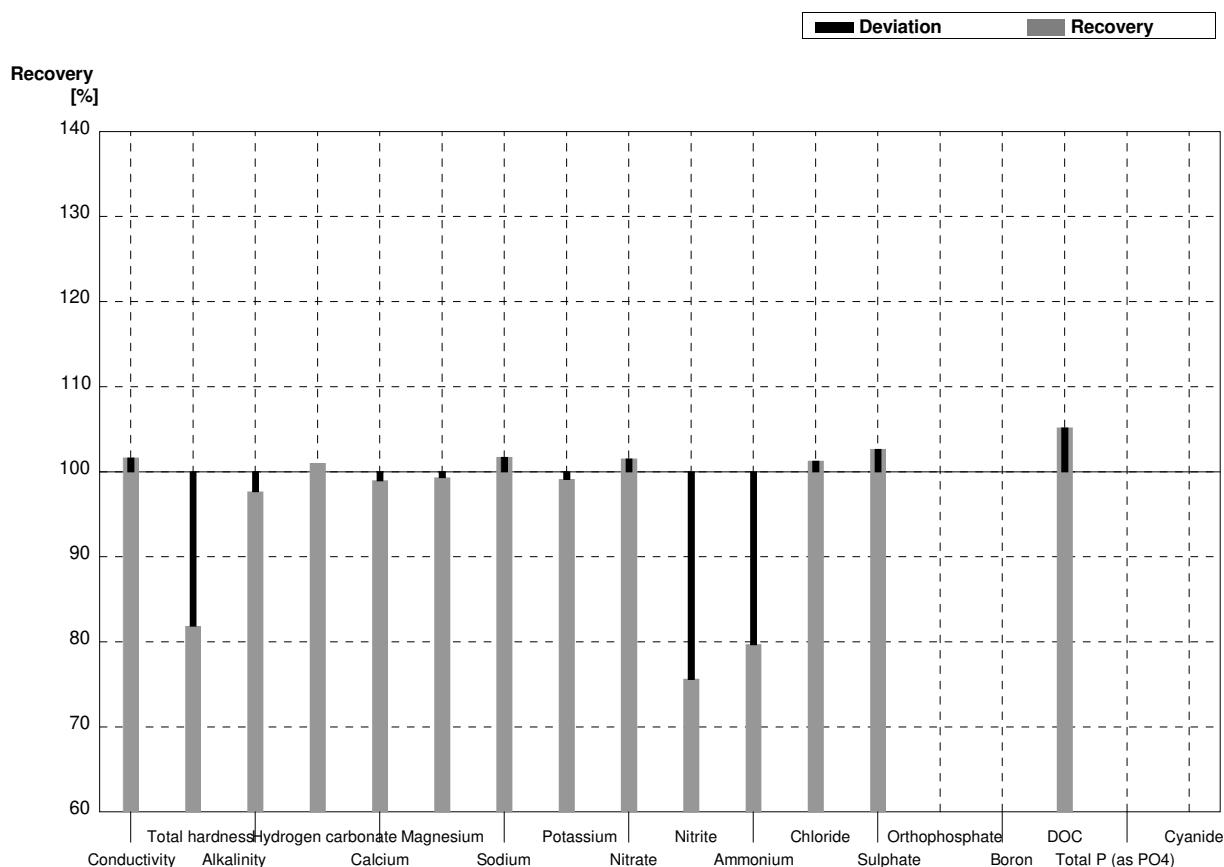
**Sample N158B**  
**Laboratory M**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1	439,7	24,9	$\mu\text{S}/\text{cm}$	101%
Total hardness	1,25	0,02	1,229	0,164	$\text{mmol/l}$	98%
Alkalinity	1,19	0,01	1,212		$\text{mmol/l}$	102%
Hydrogen carbonate	69,5	0,4	70,9		$\text{mg/l}$	102%
Calcium	39,4	0,6	38,1	5,08	$\text{mg/l}$	97%
Magnesium	6,41	0,09	6,80	0,90	$\text{mg/l}$	106%
Sodium	32,5	0,2	33,3	5,89	$\text{mg/l}$	102%
Potassium	5,52	0,04	5,40	0,89	$\text{mg/l}$	98%
Nitrate	73,3	1,7	73,2	6,18	$\text{mg/l}$	100%
Nitrite	0,063	0,003	0,060	0,006	$\text{mg/l}$	95%
Ammonium	0,070	0,003	0,080	0,018	$\text{mg/l}$	114%
Chloride	14,7	0,3	15,3	1,28	$\text{mg/l}$	104%
Sulphate	62,6	0,4	65,9	4,25	$\text{mg/l}$	105%
Orthophosphate	<0,009		<0,03	0,01	$\text{mg/l}$	•
Boron	0,0244	0,0001	0,0260	0,001	$\text{mg/l}$	107%
DOC	1,56	0,01	1,80	0,34	$\text{mg/l}$	115%
Total P (as PO <sub>4</sub> )	<0,009		0,153	0,0246	$\text{mg/l}$	FP
Cyanide	0,0165	0,0001	0,0150	0,0015	$\text{mg/l}$	91%



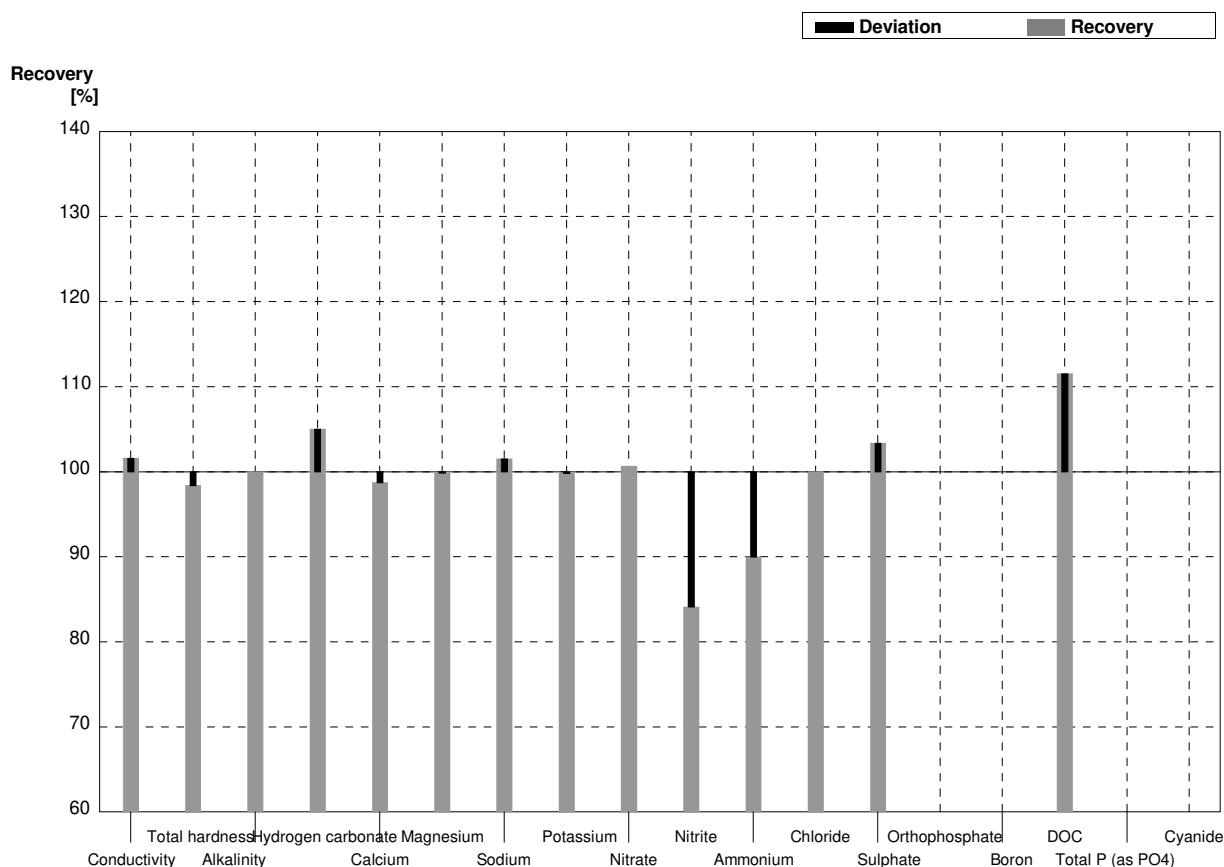
**Sample N158A**  
**Laboratory N**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	489	2	497	8	µS/cm	102%
Total hardness	2,04	0,02	1,67	0,14	mmol/l	82%
Alkalinity	1,71	0,02	1,67	0,05	mmol/l	98%
Hydrogen carbonate	101	1	102	3	mg/l	101%
Calcium	57,9	0,7	57,3	3,3	mg/l	99%
Magnesium	14,5	0,2	14,4	0,9	mg/l	99%
Sodium	11,7	0,3	11,9	1,3	mg/l	102%
Potassium	2,30	0,04	2,28	0,09	mg/l	99%
Nitrate	39,9	0,6	40,5	1,8	mg/l	102%
Nitrite	0,0468	0,0010	0,0354	0,005	mg/l	76%
Ammonium	0,0251	0,0044	0,0200	0,005	mg/l	80%
Chloride	47,6	0,9	48,2	3,3	mg/l	101%
Sulphate	45,3	0,5	46,5	3	mg/l	103%
Orthophosphate	0,132	0,001			mg/l	
Boron	0,0431	0,0002			mg/l	
DOC	5,62	0,03	5,91	1,23	mg/l	105%
Total P (as PO4)	0,184	0,001			mg/l	
Cyanide	0,0469	0,0003			mg/l	



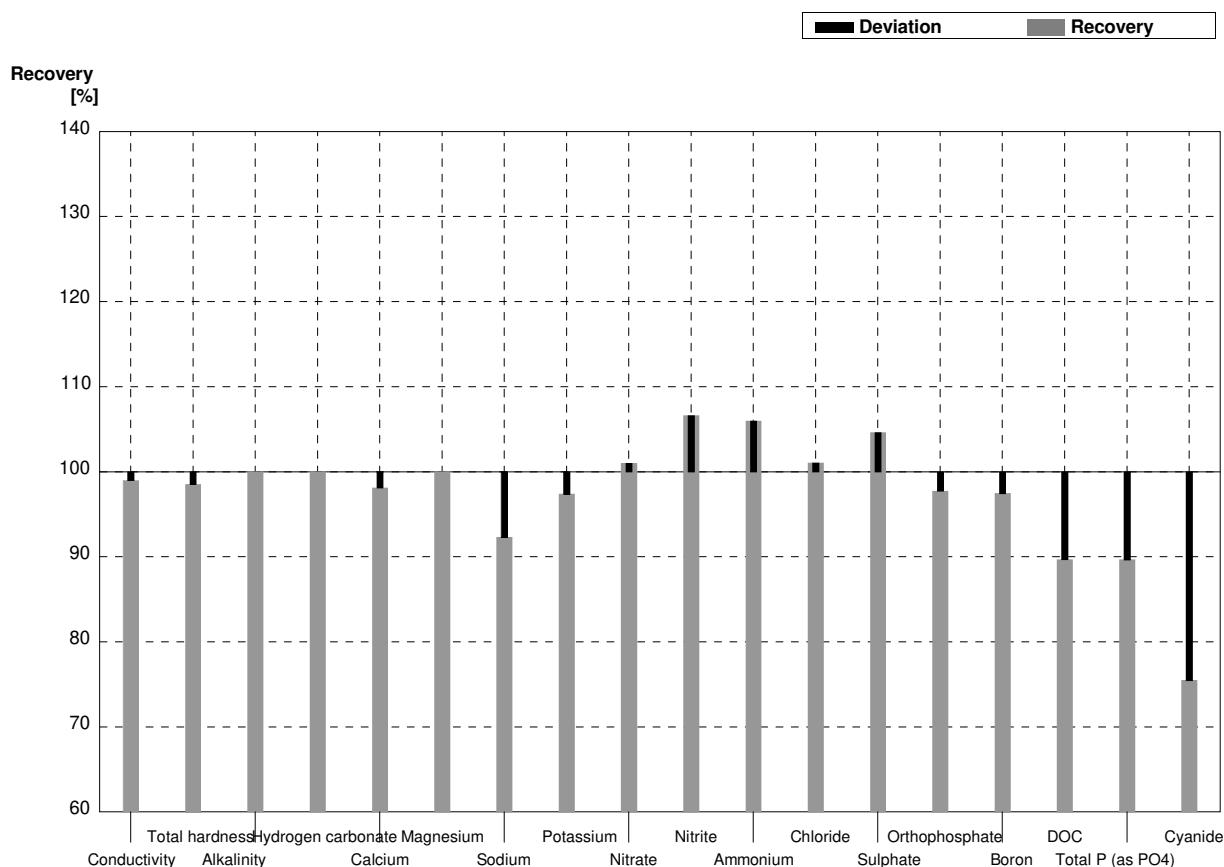
**Sample N158B**  
**Laboratory N**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1	442	7	$\mu\text{S}/\text{cm}$	102%
Total hardness	1,25	0,02	1,23	0,1	$\text{mmol/l}$	98%
Alkalinity	1,19	0,01	1,19	0,03	$\text{mmol/l}$	100%
Hydrogen carbonate	69,5	0,4	73	2	$\text{mg/l}$	105%
Calcium	39,4	0,6	38,9	2,2	$\text{mg/l}$	99%
Magnesium	6,41	0,09	6,4	0,4	$\text{mg/l}$	100%
Sodium	32,5	0,2	33,0	3,7	$\text{mg/l}$	102%
Potassium	5,52	0,04	5,51	0,21	$\text{mg/l}$	100%
Nitrate	73,3	1,7	73,8	3,4	$\text{mg/l}$	101%
Nitrite	0,063	0,003	0,053	0,008	$\text{mg/l}$	84%
Ammonium	0,070	0,003	0,063	0,015	$\text{mg/l}$	90%
Chloride	14,7	0,3	14,7	1	$\text{mg/l}$	100%
Sulphate	62,6	0,4	64,7	4,2	$\text{mg/l}$	103%
Orthophosphate	<0,009				$\text{mg/l}$	
Boron	0,0244	0,0001			$\text{mg/l}$	
DOC	1,56	0,01	1,74	0,36	$\text{mg/l}$	112%
Total P (as PO <sub>4</sub> )	<0,009				$\text{mg/l}$	
Cyanide	0,0165	0,0001			$\text{mg/l}$	



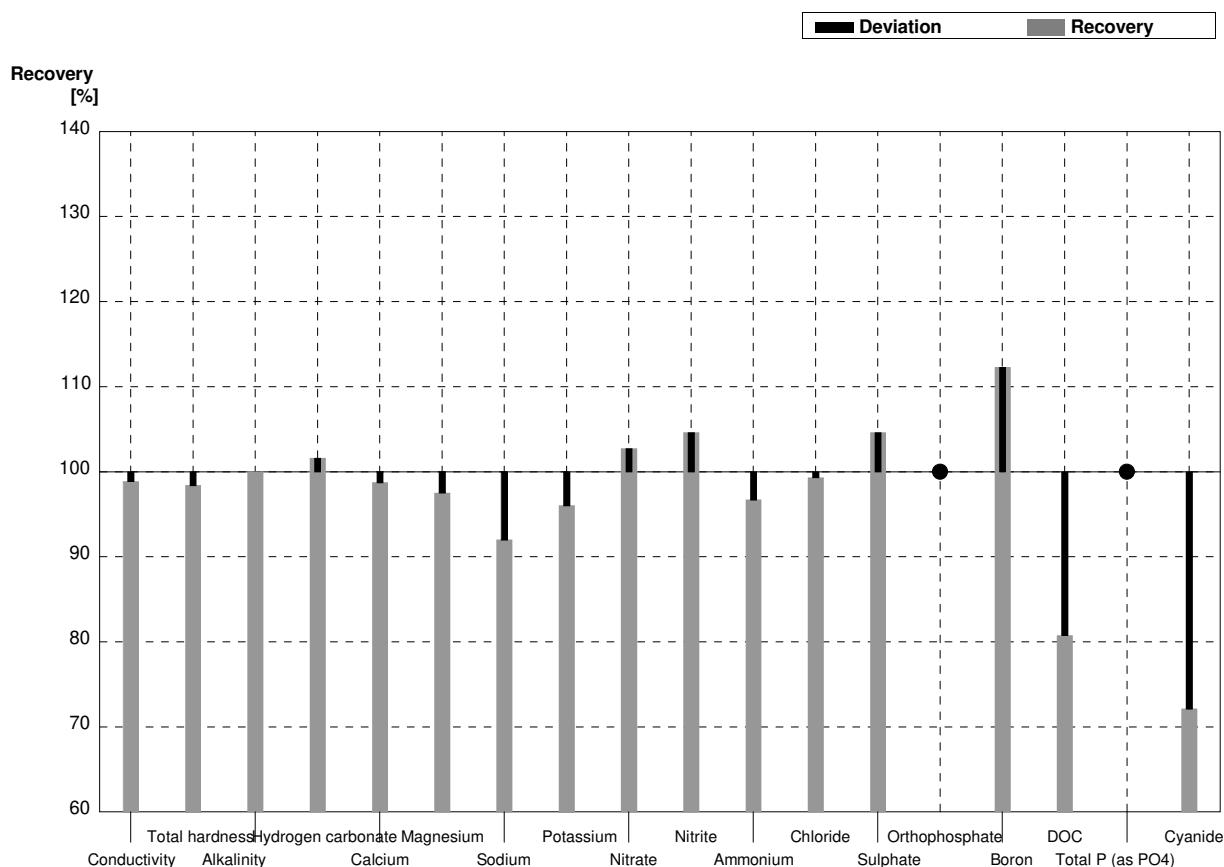
**Sample N158A**  
**Laboratory O**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2	484	6,0	$\mu\text{S}/\text{cm}$	99%
Total hardness	2,04	0,02	2,01	0,035	$\text{mmol/l}$	99%
Alkalinity	1,71	0,02	1,71	0,006	$\text{mmol/l}$	100%
Hydrogen carbonate	101	1	101	0,200	$\text{mg/l}$	100%
Calcium	57,9	0,7	56,8	0,208	$\text{mg/l}$	98%
Magnesium	14,5	0,2	14,5	0,231	$\text{mg/l}$	100%
Sodium	11,7	0,3	10,8	0,458	$\text{mg/l}$	92%
Potassium	2,30	0,04	2,24	0,006	$\text{mg/l}$	97%
Nitrate	39,9	0,6	40,3	0,231	$\text{mg/l}$	101%
Nitrite	0,0468	0,0010	0,0499	0,0001	$\text{mg/l}$	107%
Ammonium	0,0251	0,0044	0,0266	0,001	$\text{mg/l}$	106%
Chloride	47,6	0,9	48,1	0,289	$\text{mg/l}$	101%
Sulphate	45,3	0,5	47,4	0,265	$\text{mg/l}$	105%
Orthophosphate	0,132	0,001	0,129	0,001	$\text{mg/l}$	98%
Boron	0,0431	0,0002	0,0420	0,002	$\text{mg/l}$	97%
DOC	5,62	0,03	5,04	0,265	$\text{mg/l}$	90%
Total P (as PO <sub>4</sub> )	0,184	0,001	0,165	0,001	$\text{mg/l}$	90%
Cyanide	0,0469	0,0003	0,0354	0,002	$\text{mg/l}$	75%



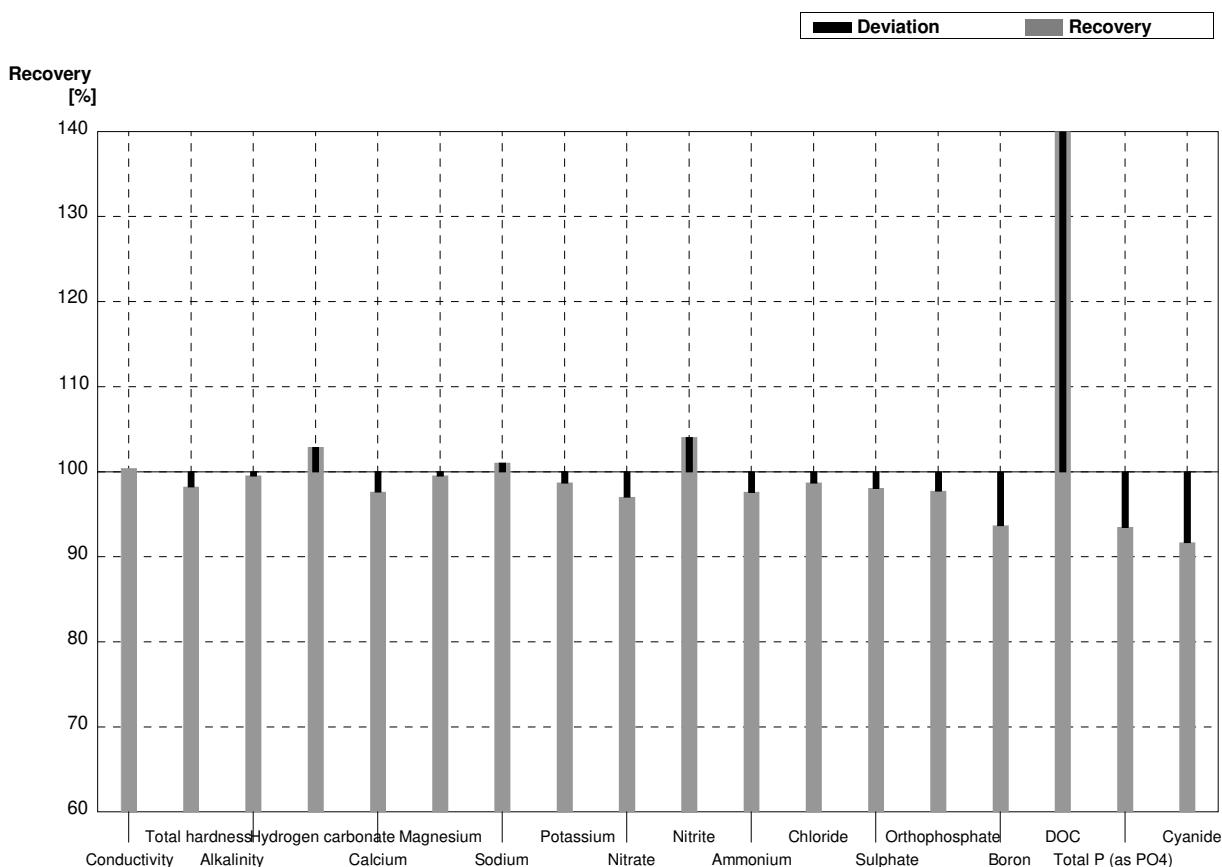
**Sample N158B**  
**Laboratory O**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1	430	5,3	$\mu\text{S}/\text{cm}$	99%
Total hardness	1,25	0,02	1,23	0,020	$\text{mmol/l}$	98%
Alkalinity	1,19	0,01	1,19	0,005	$\text{mmol/l}$	100%
Hydrogen carbonate	69,5	0,4	70,6	0,100	$\text{mg/l}$	102%
Calcium	39,4	0,6	38,9	0,794	$\text{mg/l}$	99%
Magnesium	6,41	0,09	6,25	0,091	$\text{mg/l}$	98%
Sodium	32,5	0,2	29,9	0,964	$\text{mg/l}$	92%
Potassium	5,52	0,04	5,30	0,040	$\text{mg/l}$	96%
Nitrate	73,3	1,7	75,3	0,100	$\text{mg/l}$	103%
Nitrite	0,063	0,003	0,0659	0,0001	$\text{mg/l}$	105%
Ammonium	0,070	0,003	0,0677	0,001	$\text{mg/l}$	97%
Chloride	14,7	0,3	14,6	0,058	$\text{mg/l}$	99%
Sulphate	62,6	0,4	65,5	0,364	$\text{mg/l}$	105%
Orthophosphate	<0,009		<0,015		$\text{mg/l}$	•
Boron	0,0244	0,0001	0,0274	0,001	$\text{mg/l}$	112%
DOC	1,56	0,01	1,26	0,087	$\text{mg/l}$	81%
Total P (as PO <sub>4</sub> )	<0,009		<0,015		$\text{mg/l}$	•
Cyanide	0,0165	0,0001	0,0119	0,0004	$\text{mg/l}$	72%



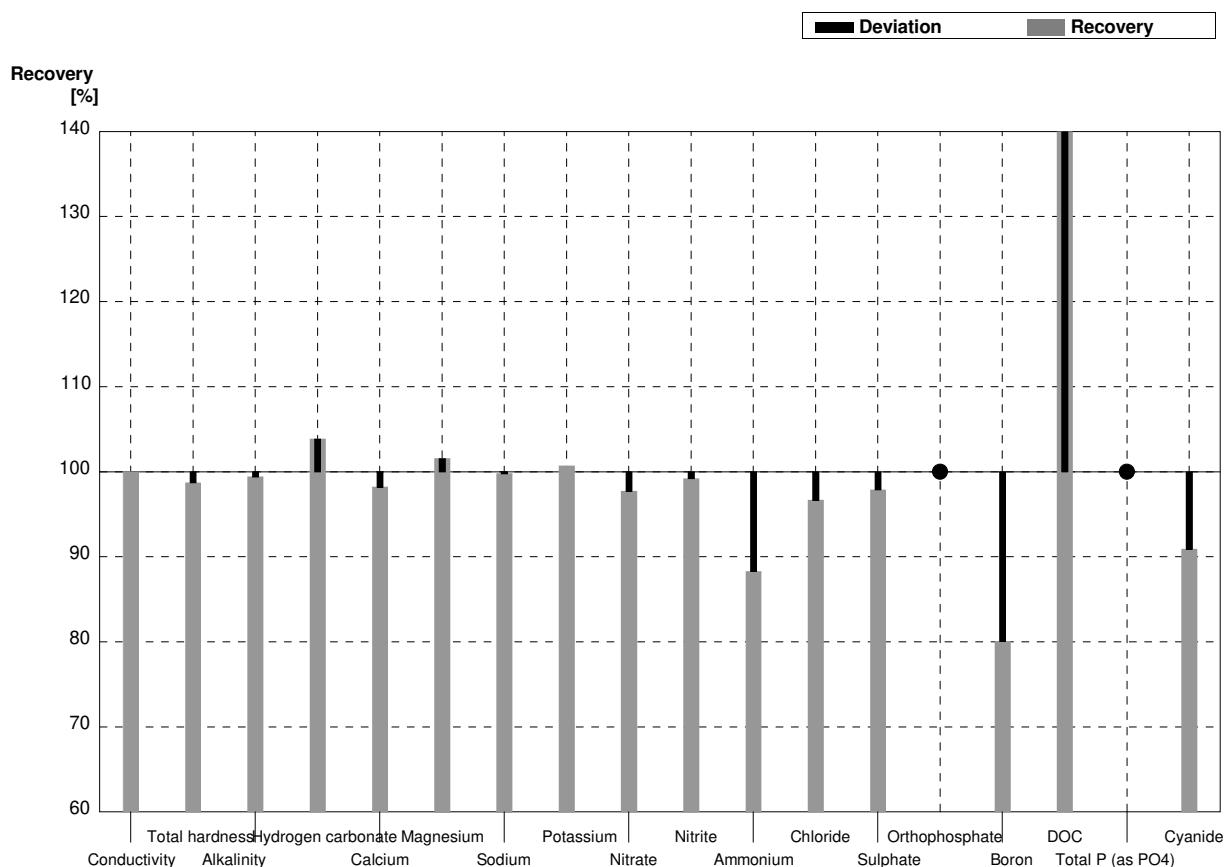
**Sample N158A**  
**Laboratory P**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2	491	2,70	$\mu\text{S}/\text{cm}$	100%
Total hardness	2,04	0,02	2,004	0,094	$\text{mmol/l}$	98%
Alkalinity	1,71	0,02	1,702	0,164	$\text{mmol/l}$	100%
Hydrogen carbonate	101	1	103,9		$\text{mg/l}$	103%
Calcium	57,9	0,7	56,52	1,87	$\text{mg/l}$	98%
Magnesium	14,5	0,2	14,43	0,48	$\text{mg/l}$	100%
Sodium	11,7	0,3	11,82	0,40	$\text{mg/l}$	101%
Potassium	2,30	0,04	2,270	0,068	$\text{mg/l}$	99%
Nitrate	39,9	0,6	38,71	1,26	$\text{mg/l}$	97%
Nitrite	0,0468	0,0010	0,0487	0,00284	$\text{mg/l}$	104%
Ammonium	0,0251	0,0044	0,0245	0,00141	$\text{mg/l}$	98%
Chloride	47,6	0,9	46,98	1,01	$\text{mg/l}$	99%
Sulphate	45,3	0,5	44,43	1,12	$\text{mg/l}$	98%
Orthophosphate	0,132	0,001	0,129	0,00286	$\text{mg/l}$	98%
Boron	0,0431	0,0002	0,04037	0,00238	$\text{mg/l}$	94%
DOC	5,62	0,03	10,29	2,028	$\text{mg/l}$	183%
Total P (as PO <sub>4</sub> )	0,184	0,001	0,172	0,00382	$\text{mg/l}$	93%
Cyanide	0,0469	0,0003	0,0430	0,00965	$\text{mg/l}$	92%



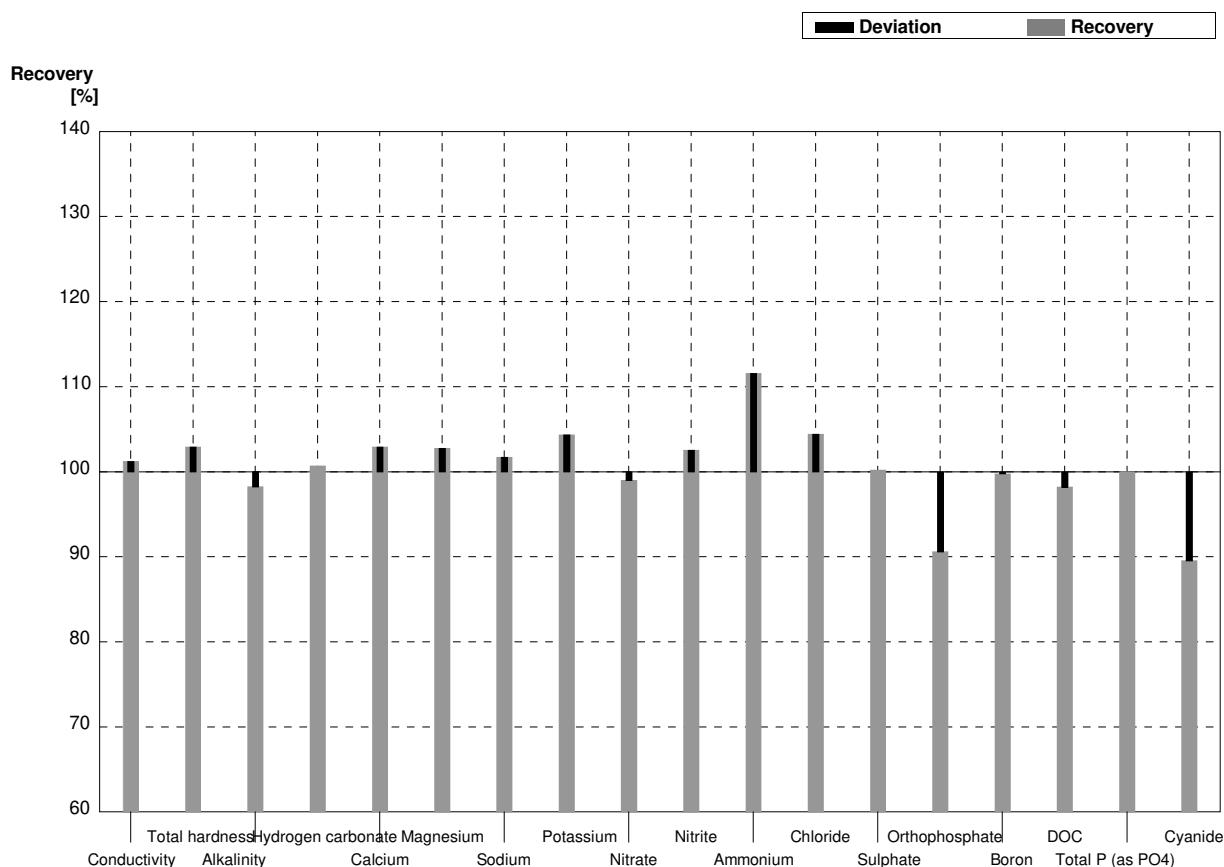
**Sample N158B**  
**Laboratory P**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1	435	2,39	$\mu\text{S}/\text{cm}$	100%
Total hardness	1,25	0,02	1,234	0,058	$\text{mmol/l}$	99%
Alkalinity	1,19	0,01	1,183	0,114	$\text{mmol/l}$	99%
Hydrogen carbonate	69,5	0,4	72,19		$\text{mg/l}$	104%
Calcium	39,4	0,6	38,69	1,28	$\text{mg/l}$	98%
Magnesium	6,41	0,09	6,510	0,215	$\text{mg/l}$	102%
Sodium	32,5	0,2	32,43	1,10	$\text{mg/l}$	100%
Potassium	5,52	0,04	5,559	0,167	$\text{mg/l}$	101%
Nitrate	73,3	1,7	71,62	2,33	$\text{mg/l}$	98%
Nitrite	0,063	0,003	0,0625	0,00365	$\text{mg/l}$	99%
Ammonium	0,070	0,003	0,0618	0,00356	$\text{mg/l}$	88%
Chloride	14,7	0,3	14,21	0,307	$\text{mg/l}$	97%
Sulphate	62,6	0,4	61,28	1,55	$\text{mg/l}$	98%
Orthophosphate	<0,009		<0,0307	0,00066	$\text{mg/l}$	•
Boron	0,0244	0,0001	0,01954	0,00115	$\text{mg/l}$	80%
DOC	1,56	0,01	4,288	0,304	$\text{mg/l}$	275%
Total P (as PO <sub>4</sub> )	<0,009		<0,0153	0,00034	$\text{mg/l}$	•
Cyanide	0,0165	0,0001	0,0150	0,00337	$\text{mg/l}$	91%



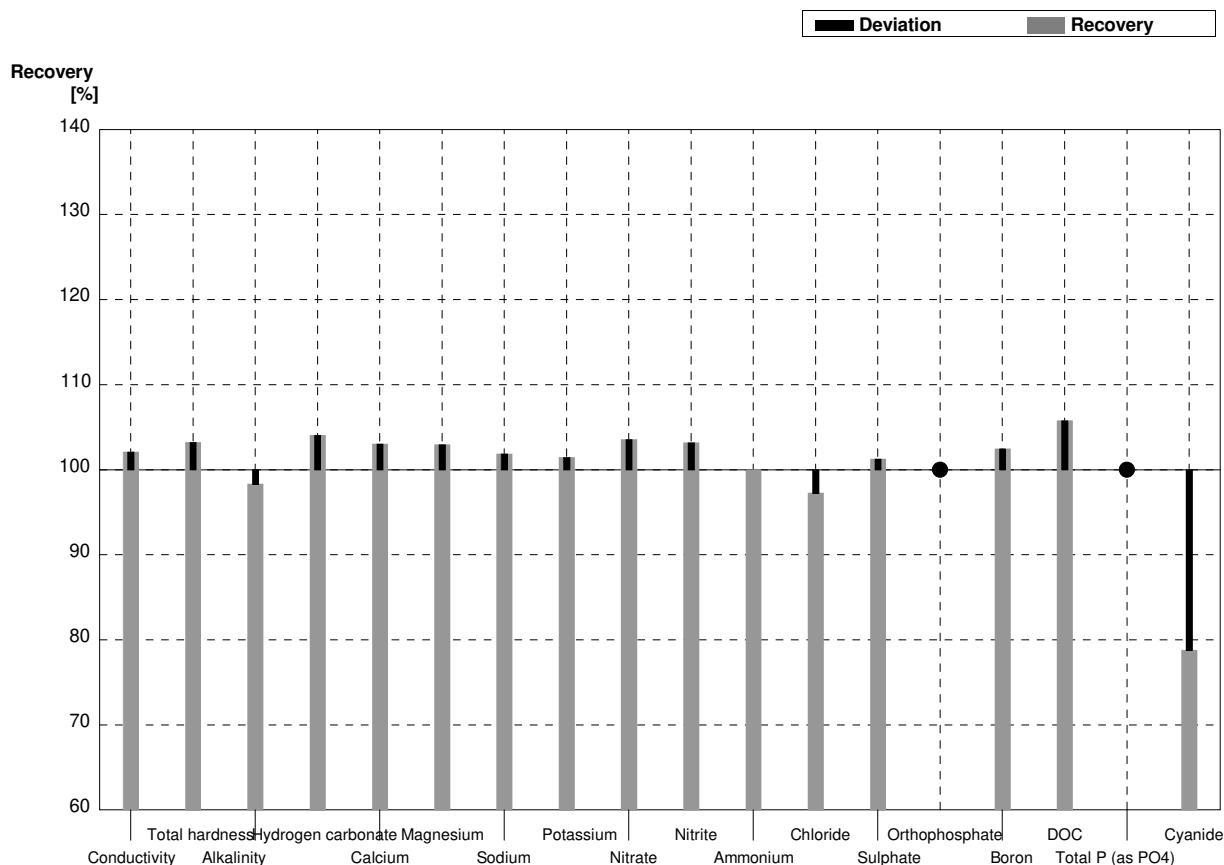
**Sample N158A**  
**Laboratory Q**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2	495	49,5	$\mu\text{S}/\text{cm}$	101%
Total hardness	2,04	0,02	2,10	0,17	$\text{mmol/l}$	103%
Alkalinity	1,71	0,02	1,68		$\text{mmol/l}$	98%
Hydrogen carbonate	101	1	101,7		$\text{mg/l}$	101%
Calcium	57,9	0,7	59,6	4,77	$\text{mg/l}$	103%
Magnesium	14,5	0,2	14,9	1,19	$\text{mg/l}$	103%
Sodium	11,7	0,3	11,9	0,95	$\text{mg/l}$	102%
Potassium	2,30	0,04	2,40	0,26	$\text{mg/l}$	104%
Nitrate	39,9	0,6	39,5	4,75	$\text{mg/l}$	99%
Nitrite	0,0468	0,0010	0,0480	0,0096	$\text{mg/l}$	103%
Ammonium	0,0251	0,0044	0,0280	0,005	$\text{mg/l}$	112%
Chloride	47,6	0,9	49,7	4,47	$\text{mg/l}$	104%
Sulphate	45,3	0,5	45,4	4,5	$\text{mg/l}$	100%
Orthophosphate	0,132	0,001	0,1196	0,0120	$\text{mg/l}$	91%
Boron	0,0431	0,0002	0,0430	0,008	$\text{mg/l}$	100%
DOC	5,62	0,03	5,52	0,66	$\text{mg/l}$	98%
Total P (as PO <sub>4</sub> )	0,184	0,001	0,184	0,066	$\text{mg/l}$	100%
Cyanide	0,0469	0,0003	0,0420		$\text{mg/l}$	90%



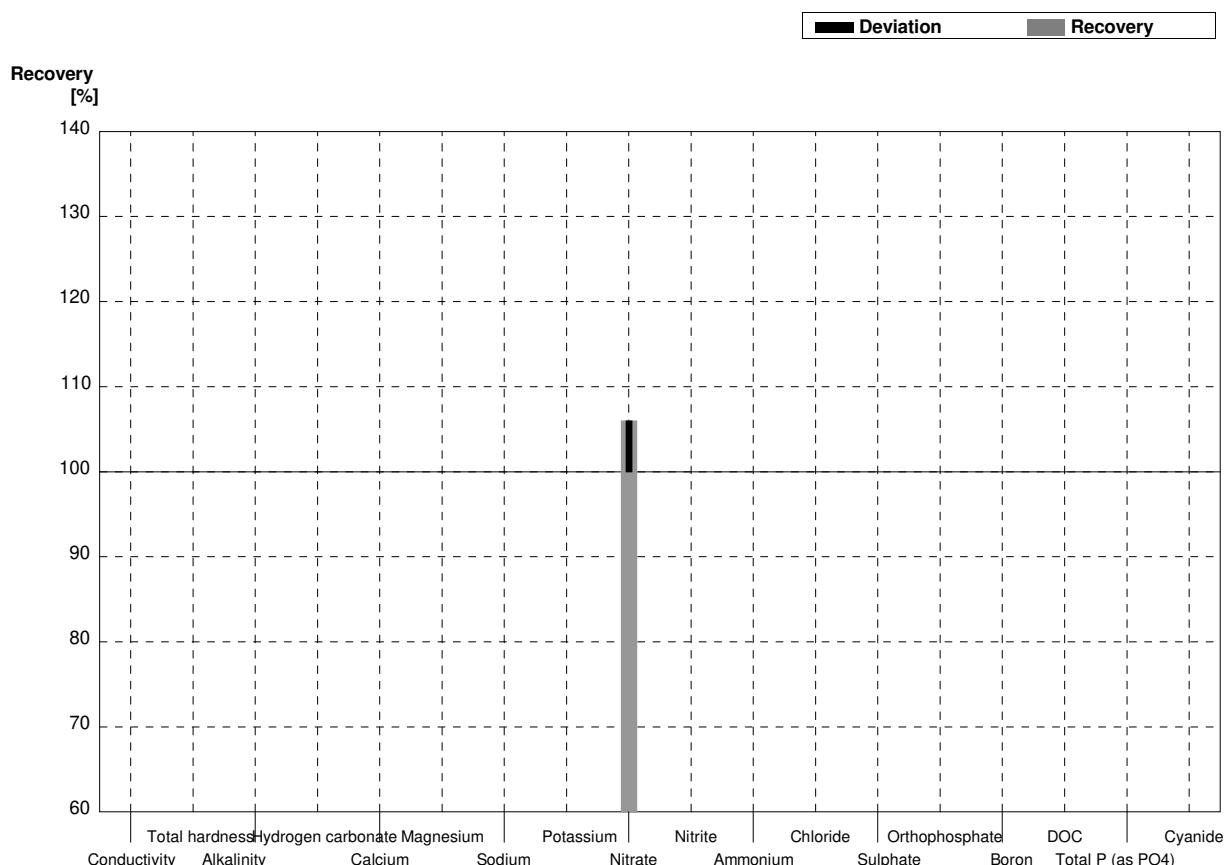
**Sample N158B**  
**Laboratory Q**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1	444	44,4	$\mu\text{S}/\text{cm}$	102%
Total hardness	1,25	0,02	1,29	0,10	$\text{mmol/l}$	103%
Alkalinity	1,19	0,01	1,17		$\text{mmol/l}$	98%
Hydrogen carbonate	69,5	0,4	72,3		$\text{mg/l}$	104%
Calcium	39,4	0,6	40,6	3,25	$\text{mg/l}$	103%
Magnesium	6,41	0,09	6,6	0,53	$\text{mg/l}$	103%
Sodium	32,5	0,2	33,1	2,65	$\text{mg/l}$	102%
Potassium	5,52	0,04	5,6	0,62	$\text{mg/l}$	101%
Nitrate	73,3	1,7	75,9	9,11	$\text{mg/l}$	104%
Nitrite	0,063	0,003	0,065	0,013	$\text{mg/l}$	103%
Ammonium	0,070	0,003	0,070	0,011	$\text{mg/l}$	100%
Chloride	14,7	0,3	14,3	1,3	$\text{mg/l}$	97%
Sulphate	62,6	0,4	63,4	6,3	$\text{mg/l}$	101%
Orthophosphate	<0,009		<0,030		$\text{mg/l}$	•
Boron	0,0244	0,0001	0,0250	0,005	$\text{mg/l}$	102%
DOC	1,56	0,01	1,65	0,38	$\text{mg/l}$	106%
Total P (as PO <sub>4</sub> )	<0,009		<0,015		$\text{mg/l}$	•
Cyanide	0,0165	0,0001	0,0130		$\text{mg/l}$	79%



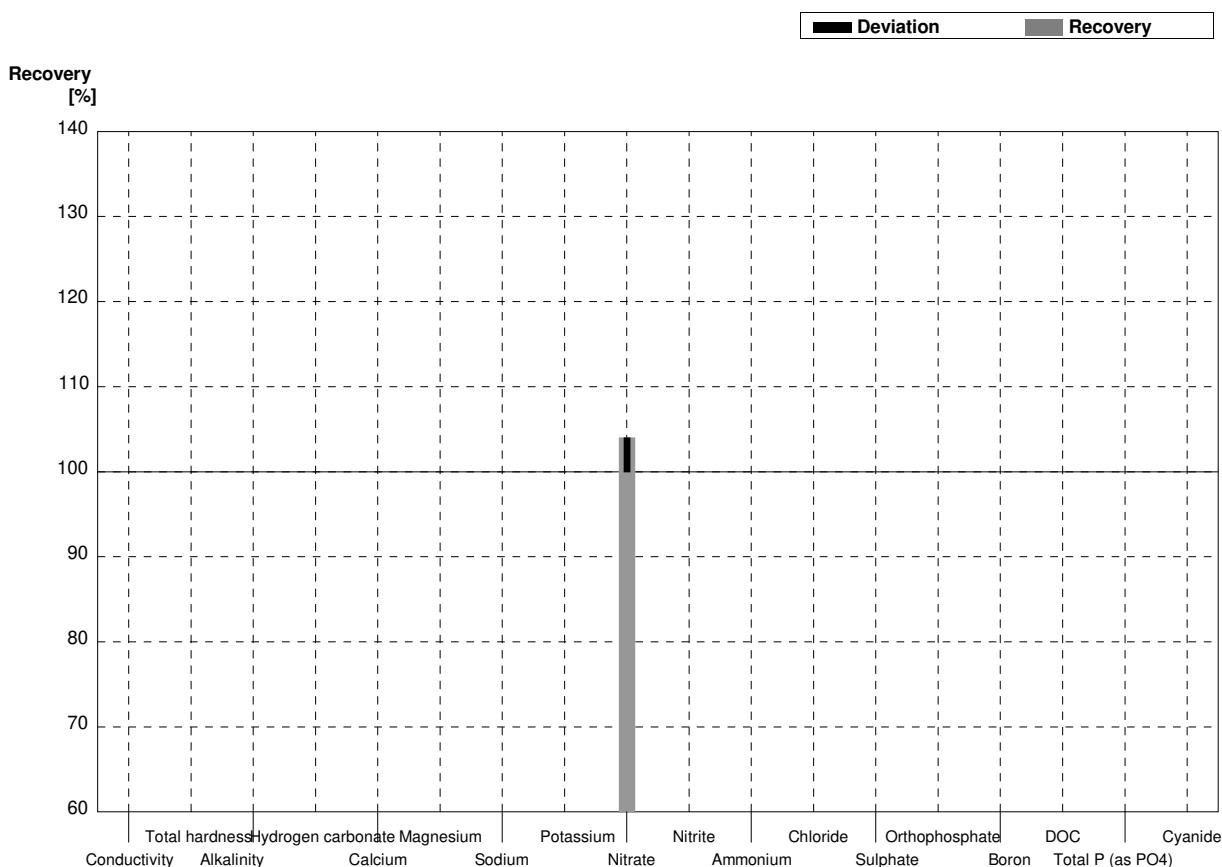
**Sample N158A**  
**Laboratory R**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2			$\mu\text{S}/\text{cm}$	
Total hardness	2,04	0,02			$\text{mmol/l}$	
Alkalinity	1,71	0,02			$\text{mmol/l}$	
Hydrogen carbonate	101	1			$\text{mg/l}$	
Calcium	57,9	0,7			$\text{mg/l}$	
Magnesium	14,5	0,2			$\text{mg/l}$	
Sodium	11,7	0,3			$\text{mg/l}$	
Potassium	2,30	0,04			$\text{mg/l}$	
Nitrate	39,9	0,6	42,3	3	$\text{mg/l}$	106%
Nitrite	0,0468	0,0010			$\text{mg/l}$	
Ammonium	0,0251	0,0044			$\text{mg/l}$	
Chloride	47,6	0,9			$\text{mg/l}$	
Sulphate	45,3	0,5			$\text{mg/l}$	
Orthophosphate	0,132	0,001			$\text{mg/l}$	
Boron	0,0431	0,0002			$\text{mg/l}$	
DOC	5,62	0,03			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	0,184	0,001			$\text{mg/l}$	
Cyanide	0,0469	0,0003			$\text{mg/l}$	



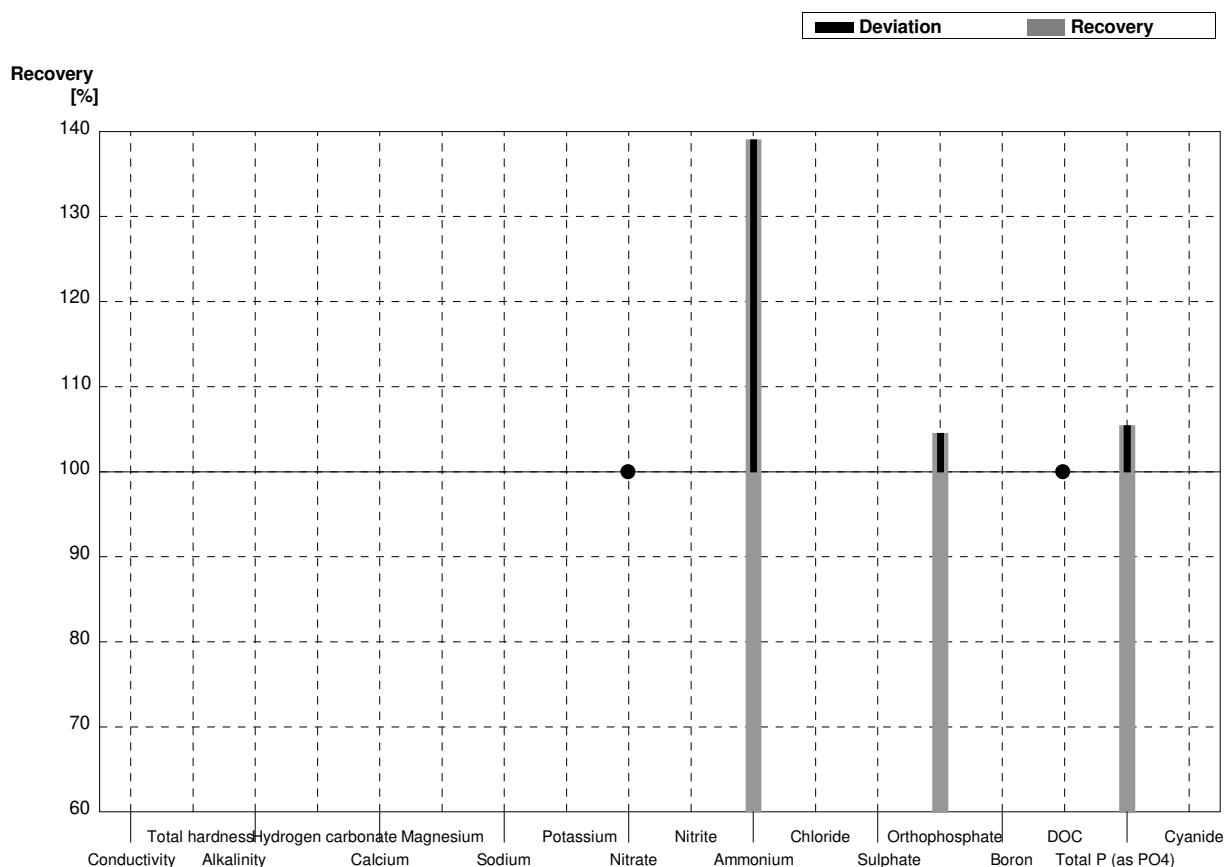
**Sample N158B**  
**Laboratory R**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1			$\mu\text{S}/\text{cm}$	
Total hardness	1,25	0,02			$\text{mmol/l}$	
Alkalinity	1,19	0,01			$\text{mmol/l}$	
Hydrogen carbonate	69,5	0,4			$\text{mg/l}$	
Calcium	39,4	0,6			$\text{mg/l}$	
Magnesium	6,41	0,09			$\text{mg/l}$	
Sodium	32,5	0,2			$\text{mg/l}$	
Potassium	5,52	0,04			$\text{mg/l}$	
Nitrate	73,3	1,7	76,23	3	$\text{mg/l}$	104%
Nitrite	0,063	0,003			$\text{mg/l}$	
Ammonium	0,070	0,003			$\text{mg/l}$	
Chloride	14,7	0,3			$\text{mg/l}$	
Sulphate	62,6	0,4			$\text{mg/l}$	
Orthophosphate	<0,009				$\text{mg/l}$	
Boron	0,0244	0,0001			$\text{mg/l}$	
DOC	1,56	0,01			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	<0,009				$\text{mg/l}$	
Cyanide	0,0165	0,0001			$\text{mg/l}$	



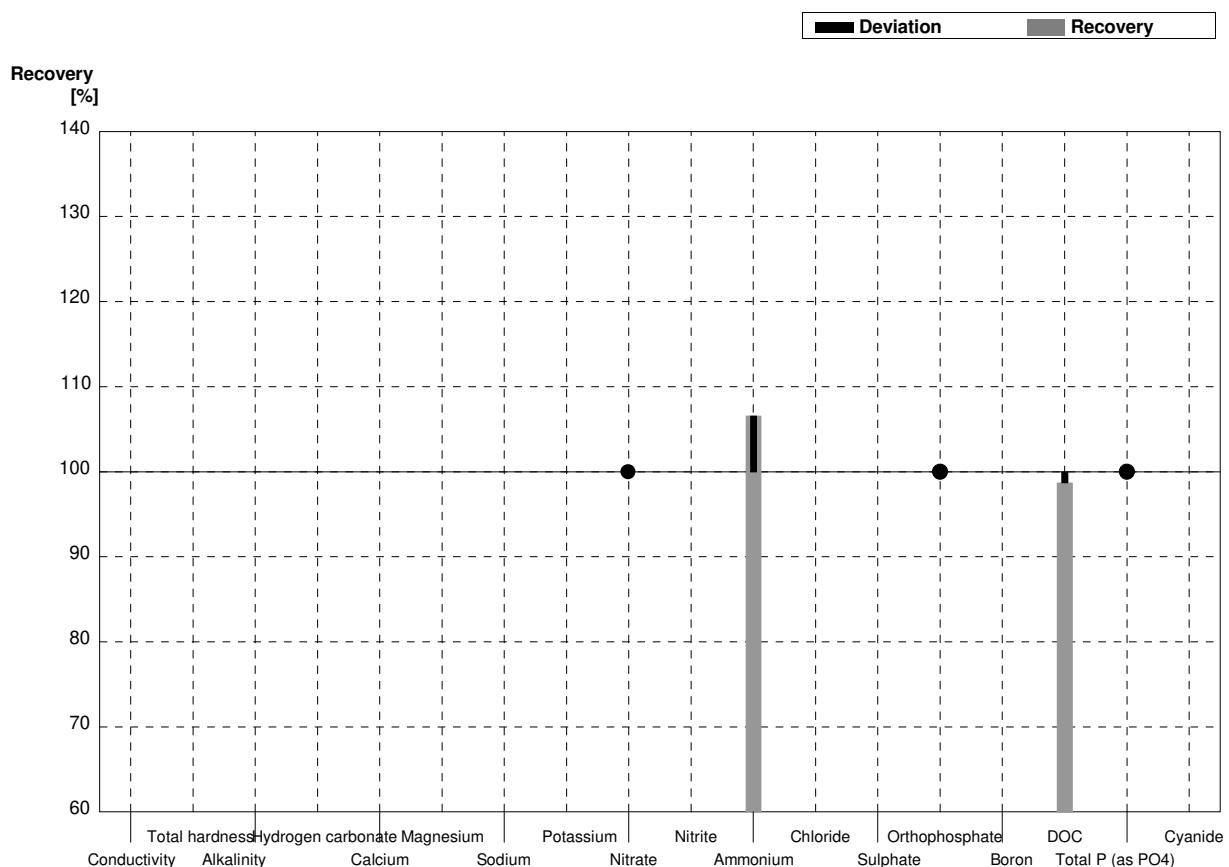
**Sample N158A**  
**Laboratory S**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2			$\mu\text{S}/\text{cm}$	
Total hardness	2,04	0,02			$\text{mmol/l}$	
Alkalinity	1,71	0,02			$\text{mmol/l}$	
Hydrogen carbonate	101	1			$\text{mg/l}$	
Calcium	57,9	0,7			$\text{mg/l}$	
Magnesium	14,5	0,2			$\text{mg/l}$	
Sodium	11,7	0,3			$\text{mg/l}$	
Potassium	2,30	0,04			$\text{mg/l}$	
Nitrate	39,9	0,6	>30		$\text{mg/l}$	•
Nitrite	0,0468	0,0010			$\text{mg/l}$	
Ammonium	0,0251	0,0044	0,0349	0,0079	$\text{mg/l}$	139%
Chloride	47,6	0,9			$\text{mg/l}$	
Sulphate	45,3	0,5			$\text{mg/l}$	
Orthophosphate	0,132	0,001	0,138	0,018	$\text{mg/l}$	105%
Boron	0,0431	0,0002			$\text{mg/l}$	
DOC	5,62	0,03	>4		$\text{mg/l}$	•
Total P (as PO <sub>4</sub> )	0,184	0,001	0,194	0,007	$\text{mg/l}$	105%
Cyanide	0,0469	0,0003			$\text{mg/l}$	



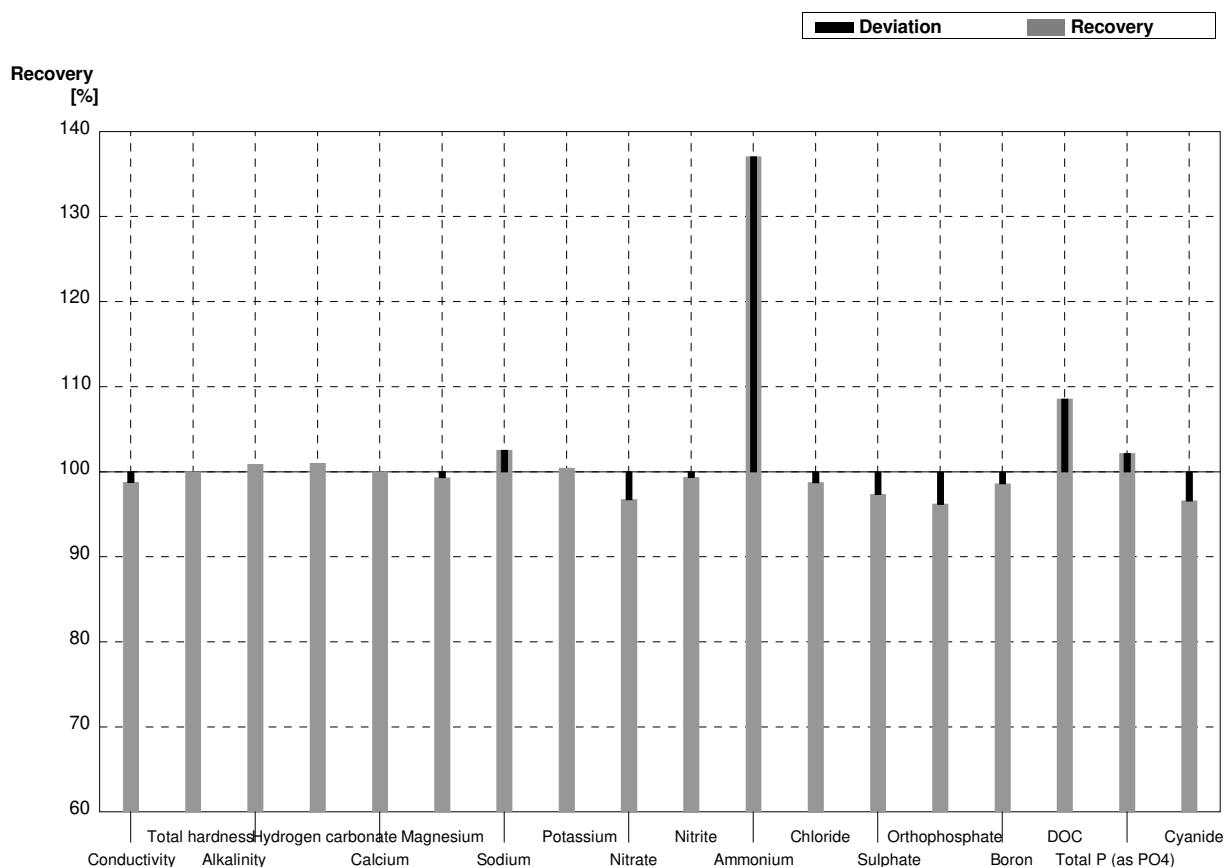
**Sample N158B**  
**Laboratory S**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1			$\mu\text{S}/\text{cm}$	
Total hardness	1,25	0,02			$\text{mmol/l}$	
Alkalinity	1,19	0,01			$\text{mmol/l}$	
Hydrogen carbonate	69,5	0,4			$\text{mg/l}$	
Calcium	39,4	0,6			$\text{mg/l}$	
Magnesium	6,41	0,09			$\text{mg/l}$	
Sodium	32,5	0,2			$\text{mg/l}$	
Potassium	5,52	0,04			$\text{mg/l}$	
Nitrate	73,3	1,7	>30		$\text{mg/l}$	•
Nitrite	0,063	0,003			$\text{mg/l}$	
Ammonium	0,070	0,003	0,0746	0,01820	$\text{mg/l}$	107%
Chloride	14,7	0,3			$\text{mg/l}$	
Sulphate	62,6	0,4			$\text{mg/l}$	
Orthophosphate	<0,009		<0,019		$\text{mg/l}$	•
Boron	0,0244	0,0001			$\text{mg/l}$	
DOC	1,56	0,01	1,540	0,505	$\text{mg/l}$	99%
Total P (as PO <sub>4</sub> )	<0,009		<0,02		$\text{mg/l}$	•
Cyanide	0,0165	0,0001			$\text{mg/l}$	



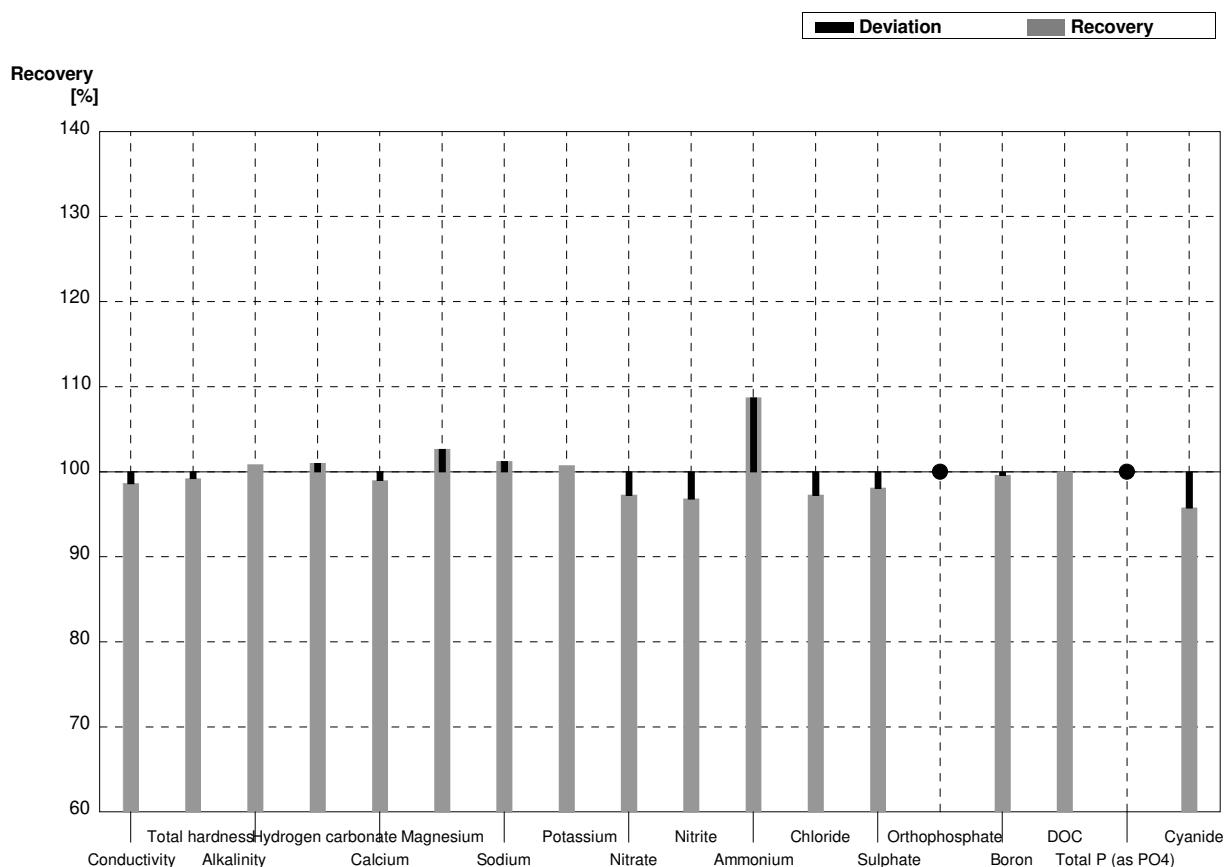
**Sample N158A**  
**Laboratory T**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2	483	19	$\mu\text{S}/\text{cm}$	99%
Total hardness	2,04	0,02	2,04	0,37	$\text{mmol/l}$	100%
Alkalinity	1,71	0,02	1,725	0,07	$\text{mmol/l}$	101%
Hydrogen carbonate	101	1	102	4	$\text{mg/l}$	101%
Calcium	57,9	0,7	57,9	10,4	$\text{mg/l}$	100%
Magnesium	14,5	0,2	14,4	2,59	$\text{mg/l}$	99%
Sodium	11,7	0,3	12,0	2,16	$\text{mg/l}$	103%
Potassium	2,30	0,04	2,31	0,42	$\text{mg/l}$	100%
Nitrate	39,9	0,6	38,6	3,47	$\text{mg/l}$	97%
Nitrite	0,0468	0,0010	0,0465	0,004	$\text{mg/l}$	99%
Ammonium	0,0251	0,0044	0,0344	0,003	$\text{mg/l}$	137%
Chloride	47,6	0,9	47,0	4,23	$\text{mg/l}$	99%
Sulphate	45,3	0,5	44,1	3,97	$\text{mg/l}$	97%
Orthophosphate	0,132	0,001	0,127	0,011	$\text{mg/l}$	96%
Boron	0,0431	0,0002	0,0425	0,008	$\text{mg/l}$	99%
DOC	5,62	0,03	6,10	0,55	$\text{mg/l}$	109%
Total P (as PO <sub>4</sub> )	0,184	0,001	0,188	0,008	$\text{mg/l}$	102%
Cyanide	0,0469	0,0003	0,0453	0,004	$\text{mg/l}$	97%



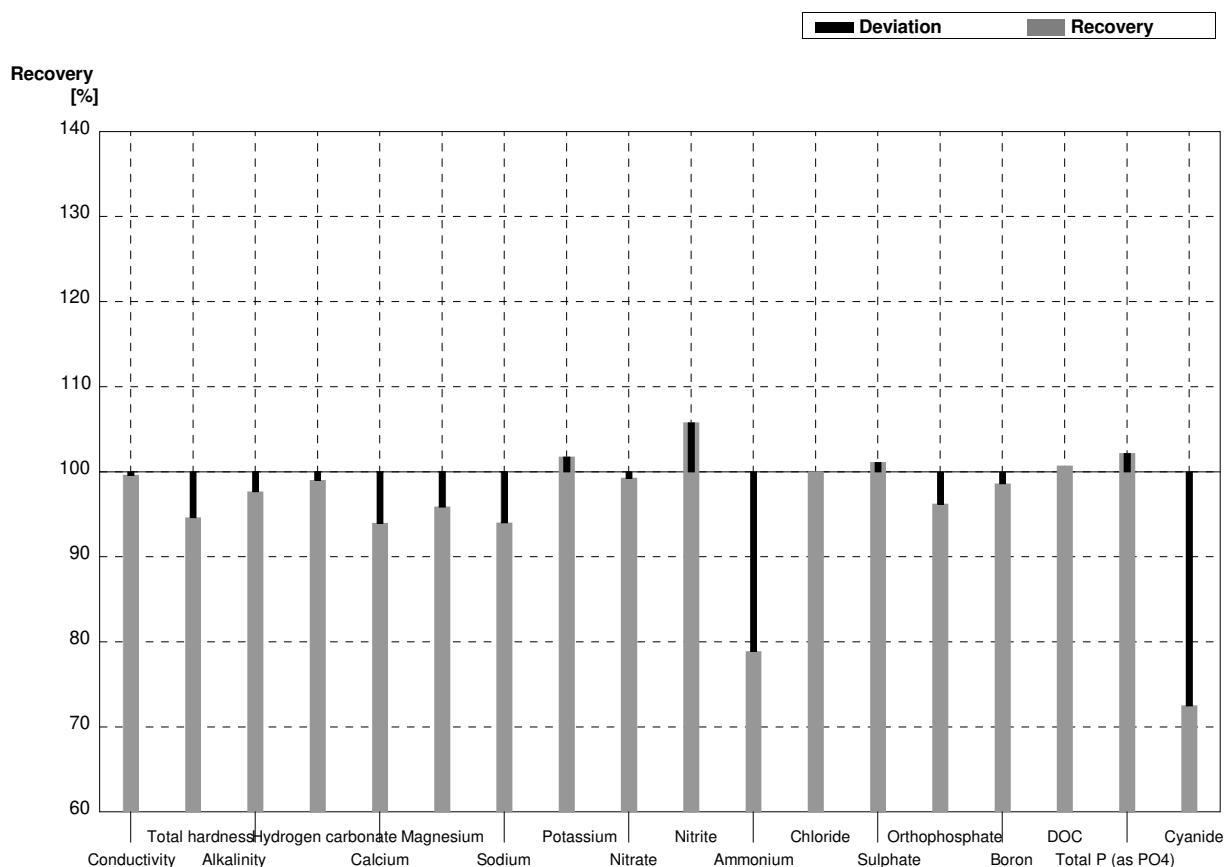
**Sample N158B**  
**Laboratory T**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1	429	17	$\mu\text{S}/\text{cm}$	99%
Total hardness	1,25	0,02	1,24	0,22	$\text{mmol/l}$	99%
Alkalinity	1,19	0,01	1,20	0,05	$\text{mmol/l}$	101%
Hydrogen carbonate	69,5	0,4	70,2	2,81	$\text{mg/l}$	101%
Calcium	39,4	0,6	39,0	7,02	$\text{mg/l}$	99%
Magnesium	6,41	0,09	6,58	1,18	$\text{mg/l}$	103%
Sodium	32,5	0,2	32,9	5,92	$\text{mg/l}$	101%
Potassium	5,52	0,04	5,56	1	$\text{mg/l}$	101%
Nitrate	73,3	1,7	71,3	6,42	$\text{mg/l}$	97%
Nitrite	0,063	0,003	0,0610	0,005	$\text{mg/l}$	97%
Ammonium	0,070	0,003	0,0761	0,007	$\text{mg/l}$	109%
Chloride	14,7	0,3	14,3	1,29	$\text{mg/l}$	97%
Sulphate	62,6	0,4	61,4	5,53	$\text{mg/l}$	98%
Orthophosphate	<0,009		<0,01		$\text{mg/l}$	•
Boron	0,0244	0,0001	0,0243	0,004	$\text{mg/l}$	100%
DOC	1,56	0,01	1,56	0,14	$\text{mg/l}$	100%
Total P (as PO <sub>4</sub> )	<0,009		<0,05		$\text{mg/l}$	•
Cyanide	0,0165	0,0001	0,0158	0,001	$\text{mg/l}$	96%



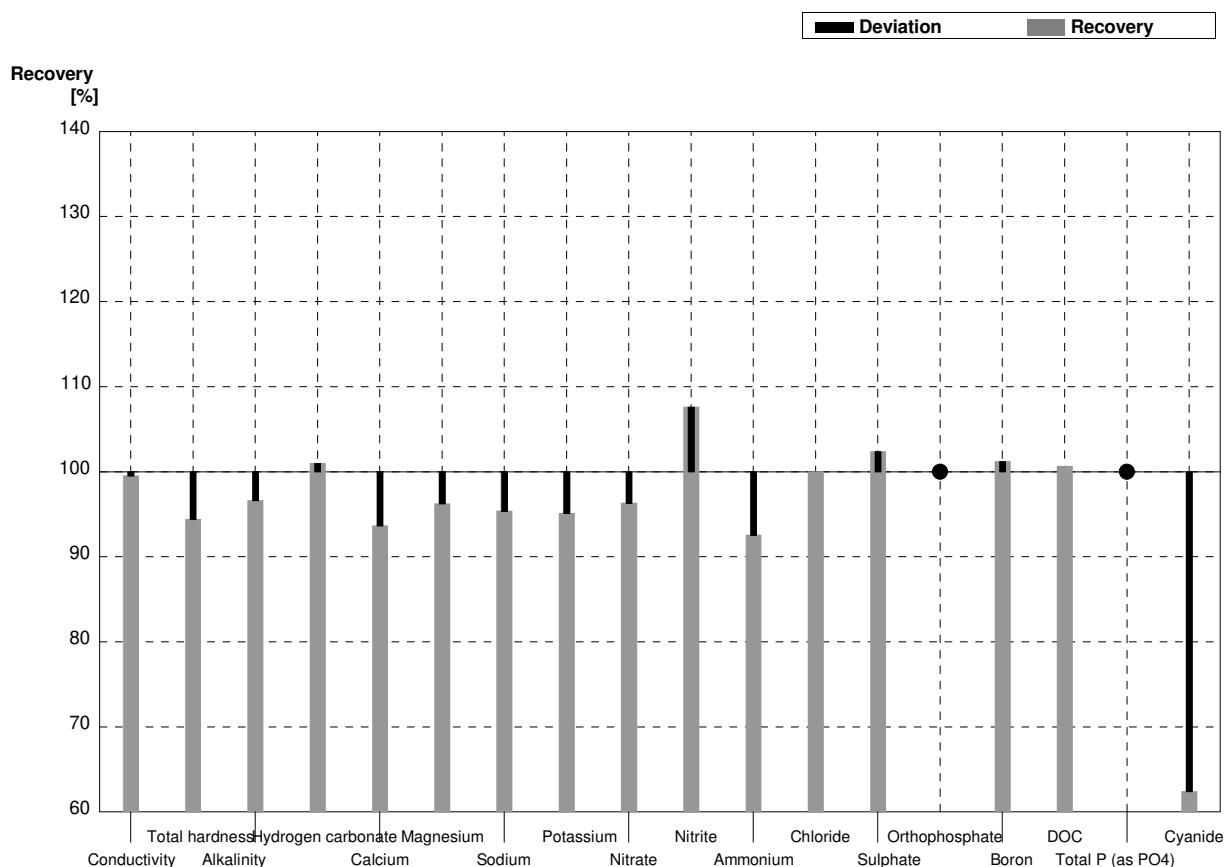
**Sample N158A**  
**Laboratory U**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	489	2	487	15	µS/cm	100%
Total hardness	2,04	0,02	1,93	0,16	mmol/l	95%
Alkalinity	1,71	0,02	1,67	0,08	mmol/l	98%
Hydrogen carbonate	101	1	100	5	mg/l	99%
Calcium	57,9	0,7	54,4	2,5	mg/l	94%
Magnesium	14,5	0,2	13,9	1,1	mg/l	96%
Sodium	11,7	0,3	11,0	0,8	mg/l	94%
Potassium	2,30	0,04	2,34	0,17	mg/l	102%
Nitrate	39,9	0,6	39,6	1,3	mg/l	99%
Nitrite	0,0468	0,0010	0,0495	0,005	mg/l	106%
Ammonium	0,0251	0,0044	0,0198	0,001	mg/l	79%
Chloride	47,6	0,9	47,6	3,2	mg/l	100%
Sulphate	45,3	0,5	45,8	1,5	mg/l	101%
Orthophosphate	0,132	0,001	0,127	0,01	mg/l	96%
Boron	0,0431	0,0002	0,0425	0,005	mg/l	99%
DOC	5,62	0,03	5,66	0,91	mg/l	101%
Total P (as PO <sub>4</sub> )	0,184	0,001	0,188	0,013	mg/l	102%
Cyanide	0,0469	0,0003	0,0340	0,01	mg/l	72%



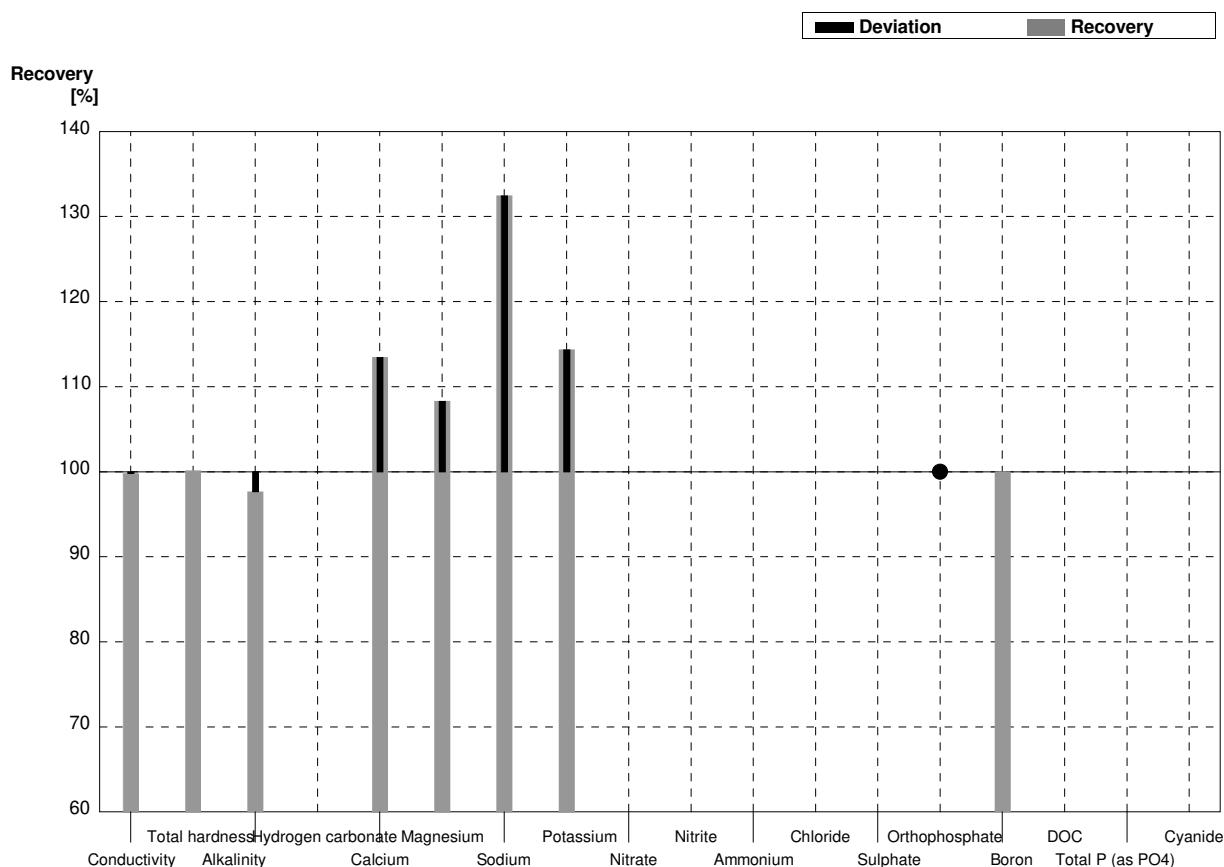
**Sample N158B**  
**Laboratory U**

Parameter	Target value	$\pm$ U ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1	433	13	$\mu\text{S}/\text{cm}$	100%
Total hardness	1,25	0,02	1,18	0,10	$\text{mmol/l}$	94%
Alkalinity	1,19	0,01	1,15	0,06	$\text{mmol/l}$	97%
Hydrogen carbonate	69,5	0,4	70,2	3,4	$\text{mg/l}$	101%
Calcium	39,4	0,6	36,9	1,7	$\text{mg/l}$	94%
Magnesium	6,41	0,09	6,17	0,51	$\text{mg/l}$	96%
Sodium	32,5	0,2	31,0	2,2	$\text{mg/l}$	95%
Potassium	5,52	0,04	5,25	0,38	$\text{mg/l}$	95%
Nitrate	73,3	1,7	70,6	2,3	$\text{mg/l}$	96%
Nitrite	0,063	0,003	0,0678	0,007	$\text{mg/l}$	108%
Ammonium	0,070	0,003	0,0648	0,005	$\text{mg/l}$	93%
Chloride	14,7	0,3	14,7	1,0	$\text{mg/l}$	100%
Sulphate	62,6	0,4	64,1	2,1	$\text{mg/l}$	102%
Orthophosphate	<0,009		<0,015		$\text{mg/l}$	•
Boron	0,0244	0,0001	0,0247	0,003	$\text{mg/l}$	101%
DOC	1,56	0,01	1,57	0,25	$\text{mg/l}$	101%
Total P (as PO <sub>4</sub> )	<0,009		<0,015		$\text{mg/l}$	•
Cyanide	0,0165	0,0001	0,0103	0,002	$\text{mg/l}$	62%



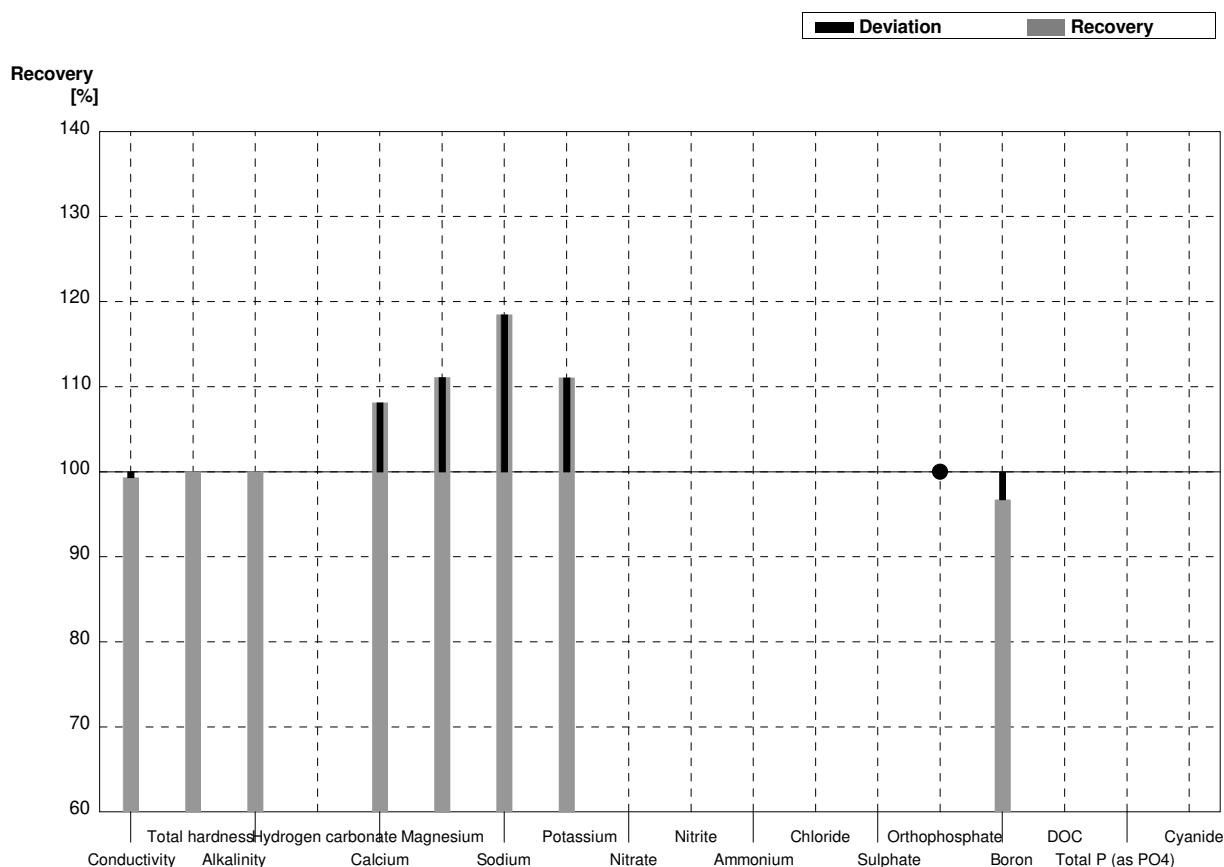
**Sample N158A**  
**Laboratory V**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2	488		$\mu\text{S}/\text{cm}$	100%
Total hardness	2,04	0,02	2,043		$\text{mmol/l}$	100%
Alkalinity	1,71	0,02	1,67		$\text{mmol/l}$	98%
Hydrogen carbonate	101	1			$\text{mg/l}$	
Calcium	57,9	0,7	65,7	3,36	$\text{mg/l}$	113%
Magnesium	14,5	0,2	15,7	0,59	$\text{mg/l}$	108%
Sodium	11,7	0,3	15,5	1,04	$\text{mg/l}$	132%
Potassium	2,30	0,04	2,63	0,58	$\text{mg/l}$	114%
Nitrate	39,9	0,6			$\text{mg/l}$	
Nitrite	0,0468	0,0010			$\text{mg/l}$	
Ammonium	0,0251	0,0044			$\text{mg/l}$	
Chloride	47,6	0,9			$\text{mg/l}$	
Sulphate	45,3	0,5			$\text{mg/l}$	
Orthophosphate	0,132	0,001	<0,2		$\text{mg/l}$	•
Boron	0,0431	0,0002	0,0431	0,005	$\text{mg/l}$	100%
DOC	5,62	0,03			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	0,184	0,001			$\text{mg/l}$	
Cyanide	0,0469	0,0003			$\text{mg/l}$	



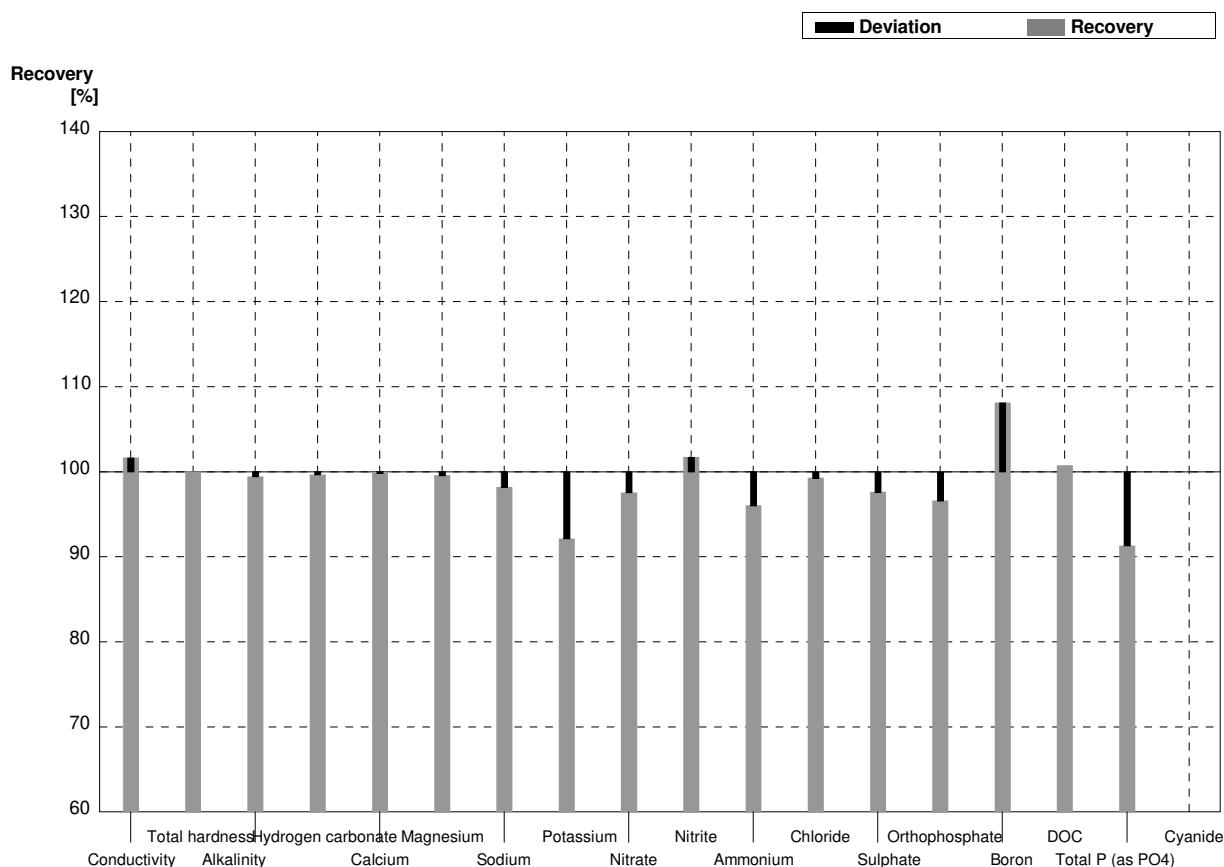
**Sample N158B**  
**Laboratory V**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1	432		$\mu\text{S}/\text{cm}$	99%
Total hardness	1,25	0,02	1,250		$\text{mmol/l}$	100%
Alkalinity	1,19	0,01	1,19		$\text{mmol/l}$	100%
Hydrogen carbonate	69,5	0,4			$\text{mg/l}$	
Calcium	39,4	0,6	42,6	1,77	$\text{mg/l}$	108%
Magnesium	6,41	0,09	7,12	0,29	$\text{mg/l}$	111%
Sodium	32,5	0,2	38,5	2,61	$\text{mg/l}$	118%
Potassium	5,52	0,04	6,13	0,57	$\text{mg/l}$	111%
Nitrate	73,3	1,7			$\text{mg/l}$	
Nitrite	0,063	0,003			$\text{mg/l}$	
Ammonium	0,070	0,003			$\text{mg/l}$	
Chloride	14,7	0,3			$\text{mg/l}$	
Sulphate	62,6	0,4			$\text{mg/l}$	
Orthophosphate	<0,009		<0,2		$\text{mg/l}$	•
Boron	0,0244	0,0001	0,0236	0,005	$\text{mg/l}$	97%
DOC	1,56	0,01			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	<0,009				$\text{mg/l}$	
Cyanide	0,0165	0,0001			$\text{mg/l}$	



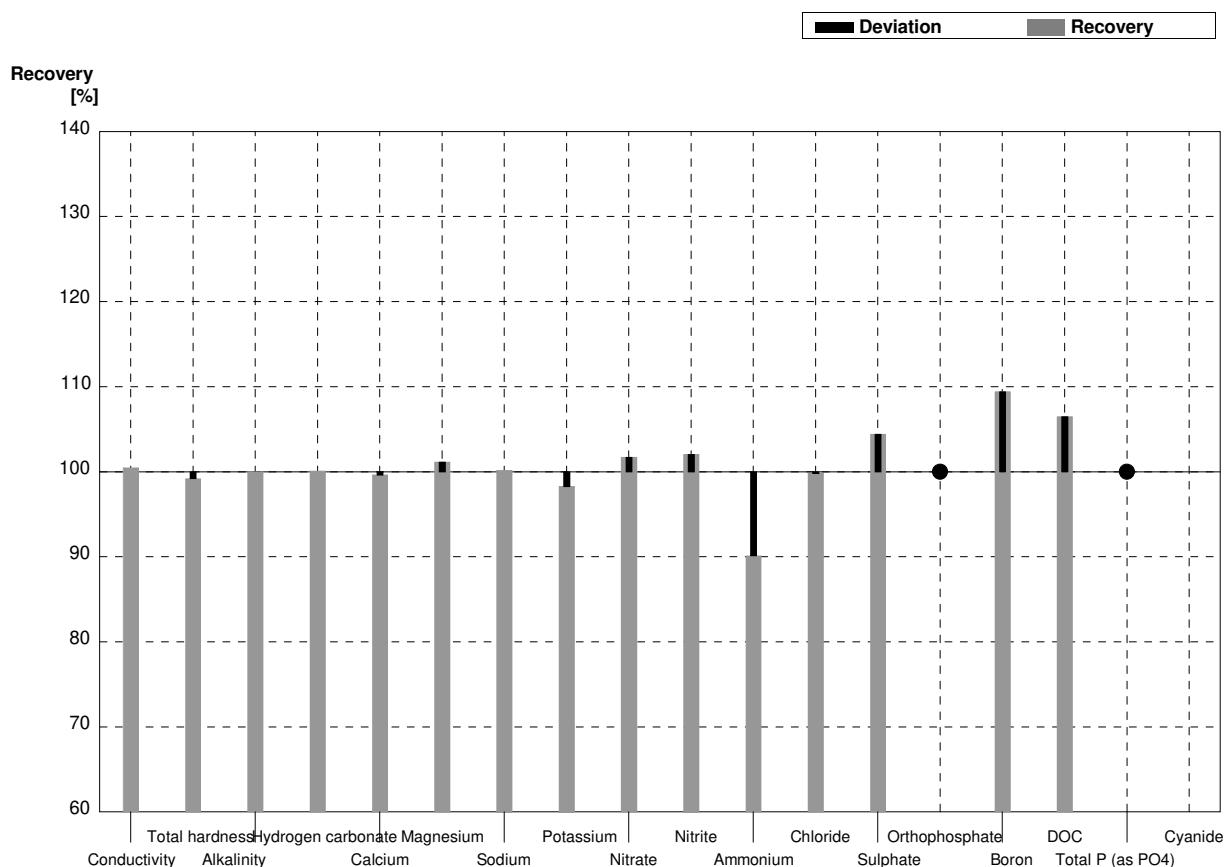
**Sample N158A**  
**Laboratory W**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	489	2	497	4,51	µS/cm	102%
Total hardness	2,04	0,02	2,04		mmol/l	100%
Alkalinity	1,71	0,02	1,70	0,17	mmol/l	99%
Hydrogen carbonate	101	1	100,66		mg/l	100%
Calcium	57,9	0,7	57,800	5,7	mg/l	100%
Magnesium	14,5	0,2	14,436	1,4	mg/l	100%
Sodium	11,7	0,3	11,487	1,1	mg/l	98%
Potassium	2,30	0,04	2,119	0,2	mg/l	92%
Nitrate	39,9	0,6	38,918	3,9	mg/l	98%
Nitrite	0,0468	0,0010	0,0476	0,005	mg/l	102%
Ammonium	0,0251	0,0044	0,0241	0,0024	mg/l	96%
Chloride	47,6	0,9	47,248	4,7	mg/l	99%
Sulphate	45,3	0,5	44,212	4,4	mg/l	98%
Orthophosphate	0,132	0,001	0,1275	0,013	mg/l	97%
Boron	0,0431	0,0002	0,0466	0,005	mg/l	108%
DOC	5,62	0,03	5,662	0,57	mg/l	101%
Total P (as PO4)	0,184	0,001	0,168	0,017	mg/l	91%
Cyanide	0,0469	0,0003			mg/l	



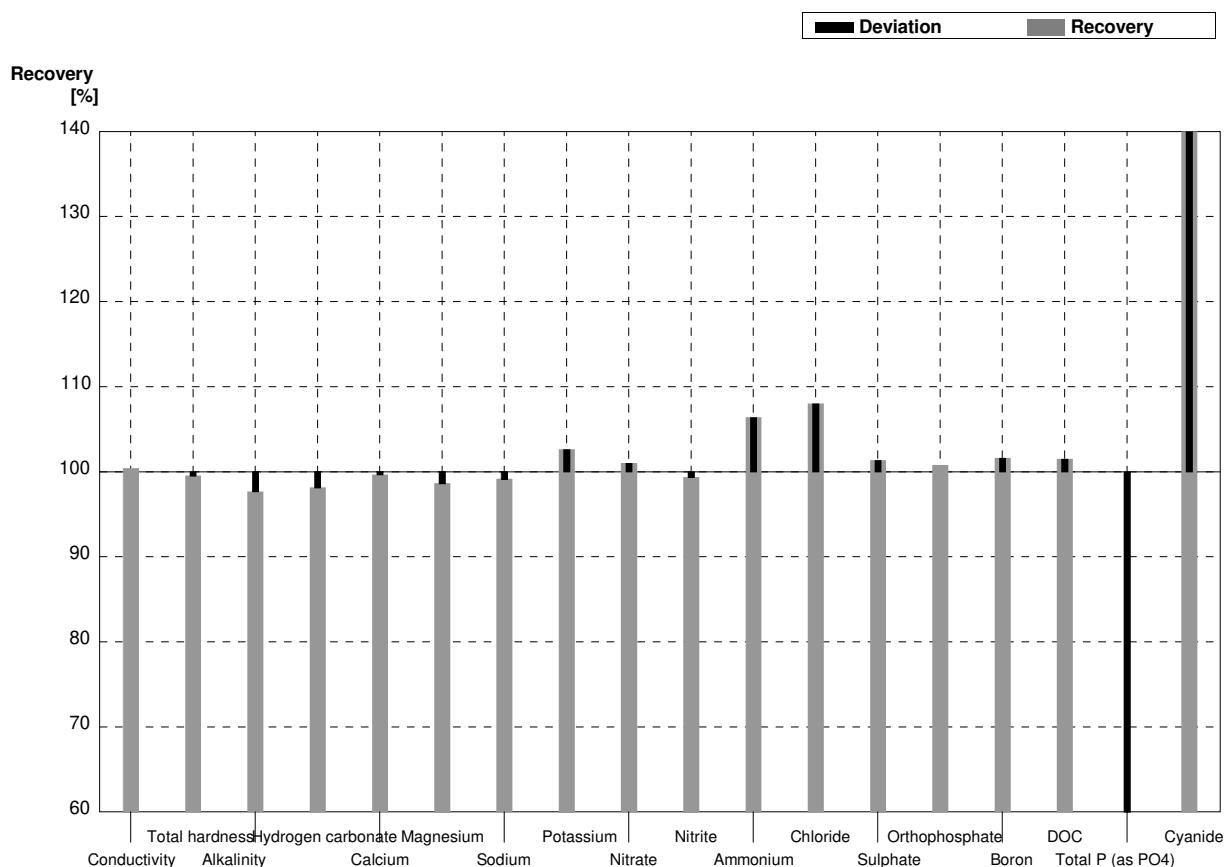
**Sample N158B**  
**Laboratory W**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1	437	4,51	$\mu\text{S}/\text{cm}$	100%
Total hardness	1,25	0,02	1,24		$\text{mmol/l}$	99%
Alkalinity	1,19	0,01	1,19	0,12	$\text{mmol/l}$	100%
Hydrogen carbonate	69,5	0,4	69,551		$\text{mg/l}$	100%
Calcium	39,4	0,6	39,254	3,9	$\text{mg/l}$	100%
Magnesium	6,41	0,09	6,484	0,65	$\text{mg/l}$	101%
Sodium	32,5	0,2	32,553	3,2	$\text{mg/l}$	100%
Potassium	5,52	0,04	5,425	0,5	$\text{mg/l}$	98%
Nitrate	73,3	1,7	74,555	7,5	$\text{mg/l}$	102%
Nitrite	0,063	0,003	0,0643	0,0064	$\text{mg/l}$	102%
Ammonium	0,070	0,003	0,0631	0,0063	$\text{mg/l}$	90%
Chloride	14,7	0,3	14,672	1,5	$\text{mg/l}$	100%
Sulphate	62,6	0,4	65,365	6,5	$\text{mg/l}$	104%
Orthophosphate	<0,009		<0,0055		$\text{mg/l}$	•
Boron	0,0244	0,0001	0,0267	0,003	$\text{mg/l}$	109%
DOC	1,56	0,01	1,661	0,17	$\text{mg/l}$	106%
Total P (as PO <sub>4</sub> )	<0,009		<0,001		$\text{mg/l}$	•
Cyanide	0,0165	0,0001			$\text{mg/l}$	



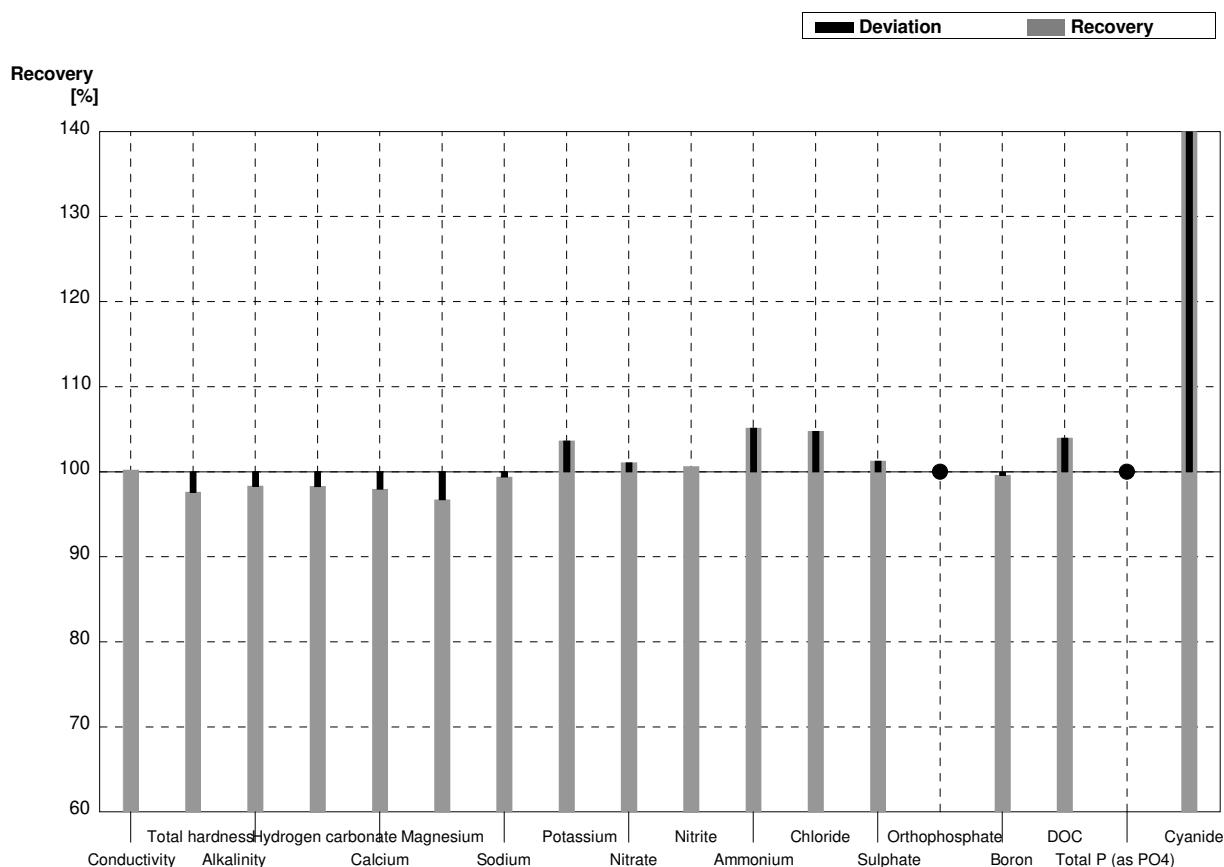
**Sample N158A**  
**Laboratory X**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2	491	0,226	$\mu\text{S}/\text{cm}$	100%
Total hardness	2,04	0,02	2,03	0,0374	$\text{mmol/l}$	100%
Alkalinity	1,71	0,02	1,67	0,0825	$\text{mmol/l}$	98%
Hydrogen carbonate	101	1	99,1	1,981	$\text{mg/l}$	98%
Calcium	57,9	0,7	57,7	0,756	$\text{mg/l}$	100%
Magnesium	14,5	0,2	14,3	0,787	$\text{mg/l}$	99%
Sodium	11,7	0,3	11,6	0,153	$\text{mg/l}$	99%
Potassium	2,30	0,04	2,36	0,0378	$\text{mg/l}$	103%
Nitrate	39,9	0,6	40,3	0,425	$\text{mg/l}$	101%
Nitrite	0,0468	0,0010	0,0465	0,00103	$\text{mg/l}$	99%
Ammonium	0,0251	0,0044	0,0267	0,00245	$\text{mg/l}$	106%
Chloride	47,6	0,9	51,4	0,998	$\text{mg/l}$	108%
Sulphate	45,3	0,5	45,9	0,388	$\text{mg/l}$	101%
Orthophosphate	0,132	0,001	0,133	0,00251	$\text{mg/l}$	101%
Boron	0,0431	0,0002	0,0438	0,00101	$\text{mg/l}$	102%
DOC	5,62	0,03	5,703	0,0881	$\text{mg/l}$	101%
Total P (as PO <sub>4</sub> )	0,184	0,001	0,0594	0,00044	$\text{mg/l}$	32%
Cyanide	0,0469	0,0003	44,65	0,598	$\text{mg/l}$	95203%



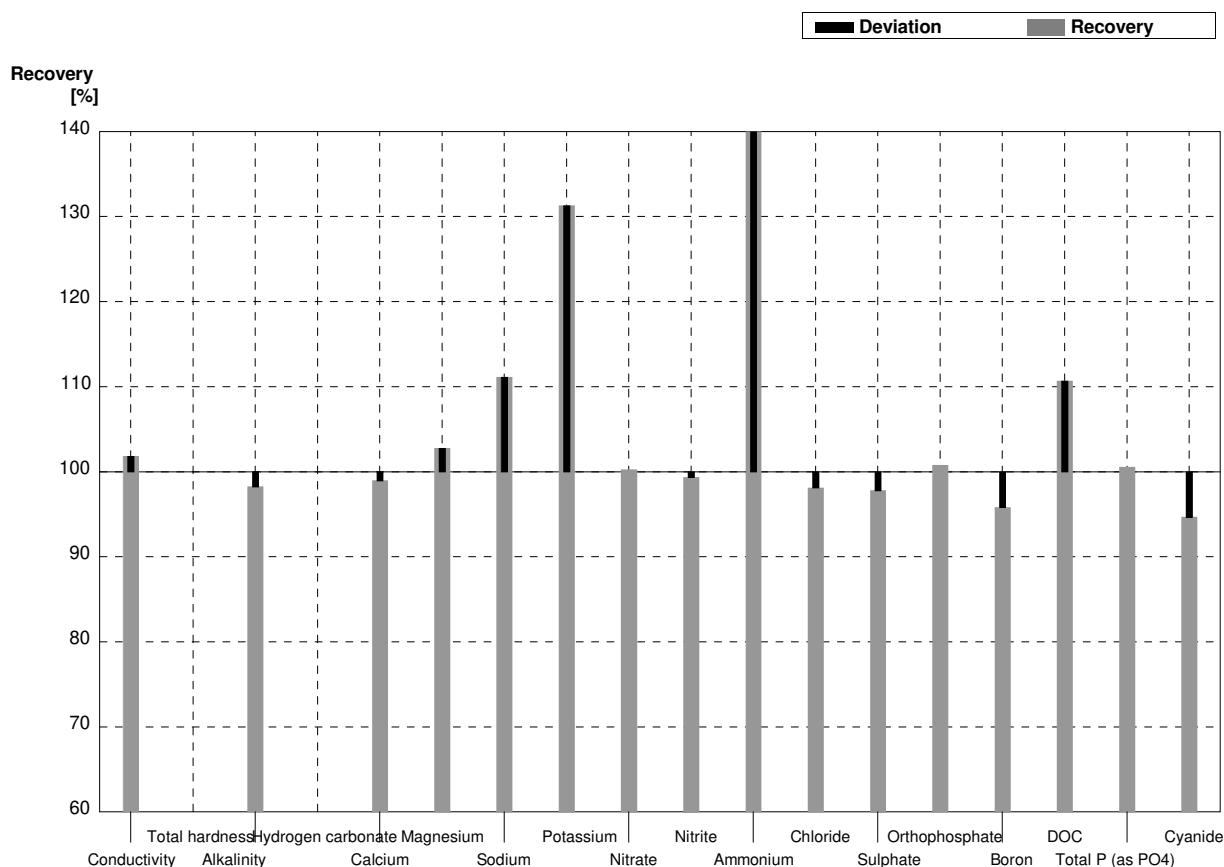
**Sample N158B**  
**Laboratory X**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1	436	0,152	$\mu\text{S}/\text{cm}$	100%
Total hardness	1,25	0,02	1,22	0,0191	$\text{mmol/l}$	98%
Alkalinity	1,19	0,01	1,17	0,0724	$\text{mmol/l}$	98%
Hydrogen carbonate	69,5	0,4	68,3	1,367	$\text{mg/l}$	98%
Calcium	39,4	0,6	38,6	0,762	$\text{mg/l}$	98%
Magnesium	6,41	0,09	6,20	0,0415	$\text{mg/l}$	97%
Sodium	32,5	0,2	32,3	0,156	$\text{mg/l}$	99%
Potassium	5,52	0,04	5,72	0,406	$\text{mg/l}$	104%
Nitrate	73,3	1,7	74,1	0,805	$\text{mg/l}$	101%
Nitrite	0,063	0,003	0,0634	0,00102	$\text{mg/l}$	101%
Ammonium	0,070	0,003	0,0736	0,00233	$\text{mg/l}$	105%
Chloride	14,7	0,3	15,4	0,480	$\text{mg/l}$	105%
Sulphate	62,6	0,4	63,4	0,618	$\text{mg/l}$	101%
Orthophosphate	<0,009		<0,0150		$\text{mg/l}$	•
Boron	0,0244	0,0001	0,0243	0,00117	$\text{mg/l}$	100%
DOC	1,56	0,01	1,622	0,0826	$\text{mg/l}$	104%
Total P (as PO <sub>4</sub> )	<0,009		<0,0049		$\text{mg/l}$	•
Cyanide	0,0165	0,0001	15,402	0,594	$\text{mg/l}$	93345%



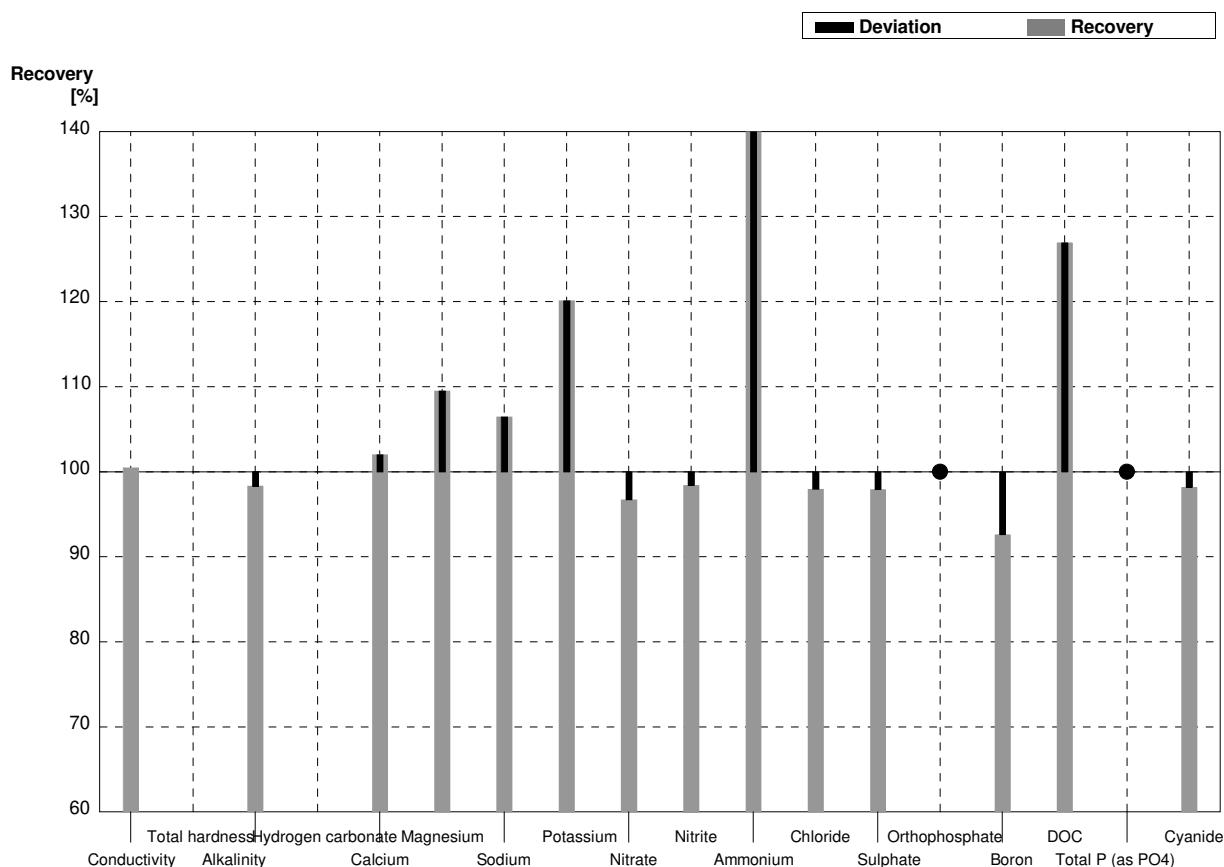
**Sample N158A**  
**Laboratory Y**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2	498	0,225	$\mu\text{S}/\text{cm}$	102%
Total hardness	2,04	0,02			$\text{mmol/l}$	
Alkalinity	1,71	0,02	1,68	0,018	$\text{mmol/l}$	98%
Hydrogen carbonate	101	1			$\text{mg/l}$	
Calcium	57,9	0,7	57,3	1,66	$\text{mg/l}$	99%
Magnesium	14,5	0,2	14,9	0,072	$\text{mg/l}$	103%
Sodium	11,7	0,3	13,0	0,858	$\text{mg/l}$	111%
Potassium	2,30	0,04	3,02	0,185	$\text{mg/l}$	131%
Nitrate	39,9	0,6	40,0	4,20	$\text{mg/l}$	100%
Nitrite	0,0468	0,0010	0,0465	0,0026	$\text{mg/l}$	99%
Ammonium	0,0251	0,0044	0,0375	0,0016	$\text{mg/l}$	149%
Chloride	47,6	0,9	46,7	4,32	$\text{mg/l}$	98%
Sulphate	45,3	0,5	44,3	4,56	$\text{mg/l}$	98%
Orthophosphate	0,132	0,001	0,133	0,0007	$\text{mg/l}$	101%
Boron	0,0431	0,0002	0,0413	0,0013	$\text{mg/l}$	96%
DOC	5,62	0,03	6,22	0,030	$\text{mg/l}$	111%
Total P (as PO <sub>4</sub> )	0,184	0,001	0,185	0,0010	$\text{mg/l}$	101%
Cyanide	0,0469	0,0003	0,0444	0,0042	$\text{mg/l}$	95%



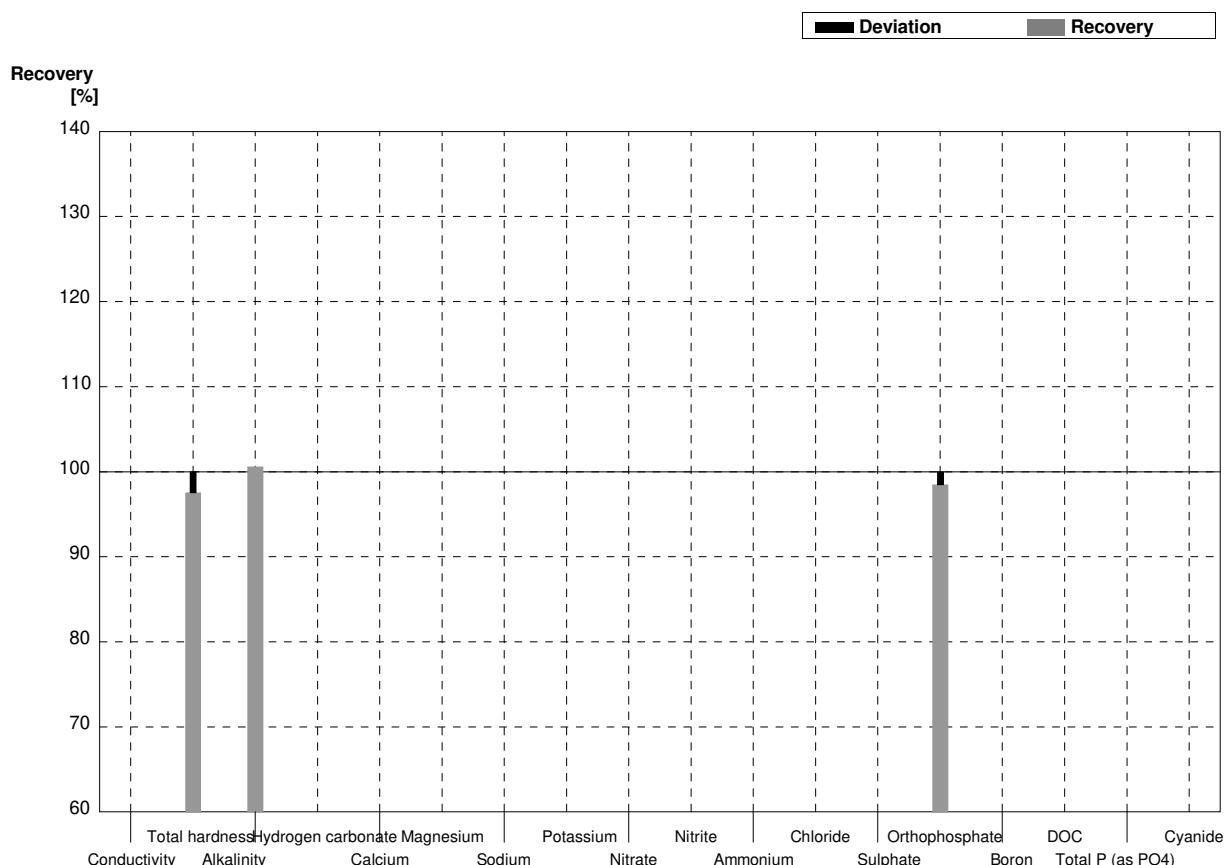
**Sample N158B**  
**Laboratory Y**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1	437	0,256	$\mu\text{S}/\text{cm}$	100%
Total hardness	1,25	0,02			$\text{mmol/l}$	
Alkalinity	1,19	0,01	1,17	0,013	$\text{mmol/l}$	98%
Hydrogen carbonate	69,5	0,4			$\text{mg/l}$	
Calcium	39,4	0,6	40,2	1,17	$\text{mg/l}$	102%
Magnesium	6,41	0,09	7,02	0,034	$\text{mg/l}$	110%
Sodium	32,5	0,2	34,6	2,28	$\text{mg/l}$	106%
Potassium	5,52	0,04	6,63	0,406	$\text{mg/l}$	120%
Nitrate	73,3	1,7	70,9	7,44	$\text{mg/l}$	97%
Nitrite	0,063	0,003	0,0620	0,0034	$\text{mg/l}$	98%
Ammonium	0,070	0,003	0,100	0,0044	$\text{mg/l}$	143%
Chloride	14,7	0,3	14,4	1,33	$\text{mg/l}$	98%
Sulphate	62,6	0,4	61,3	6,31	$\text{mg/l}$	98%
Orthophosphate	<0,009		<0,050		$\text{mg/l}$	•
Boron	0,0244	0,0001	0,0226	0,0007	$\text{mg/l}$	93%
DOC	1,56	0,01	1,98	0,0095	$\text{mg/l}$	127%
Total P (as PO <sub>4</sub> )	<0,009		<0,050		$\text{mg/l}$	•
Cyanide	0,0165	0,0001	0,0162	0,00153	$\text{mg/l}$	98%



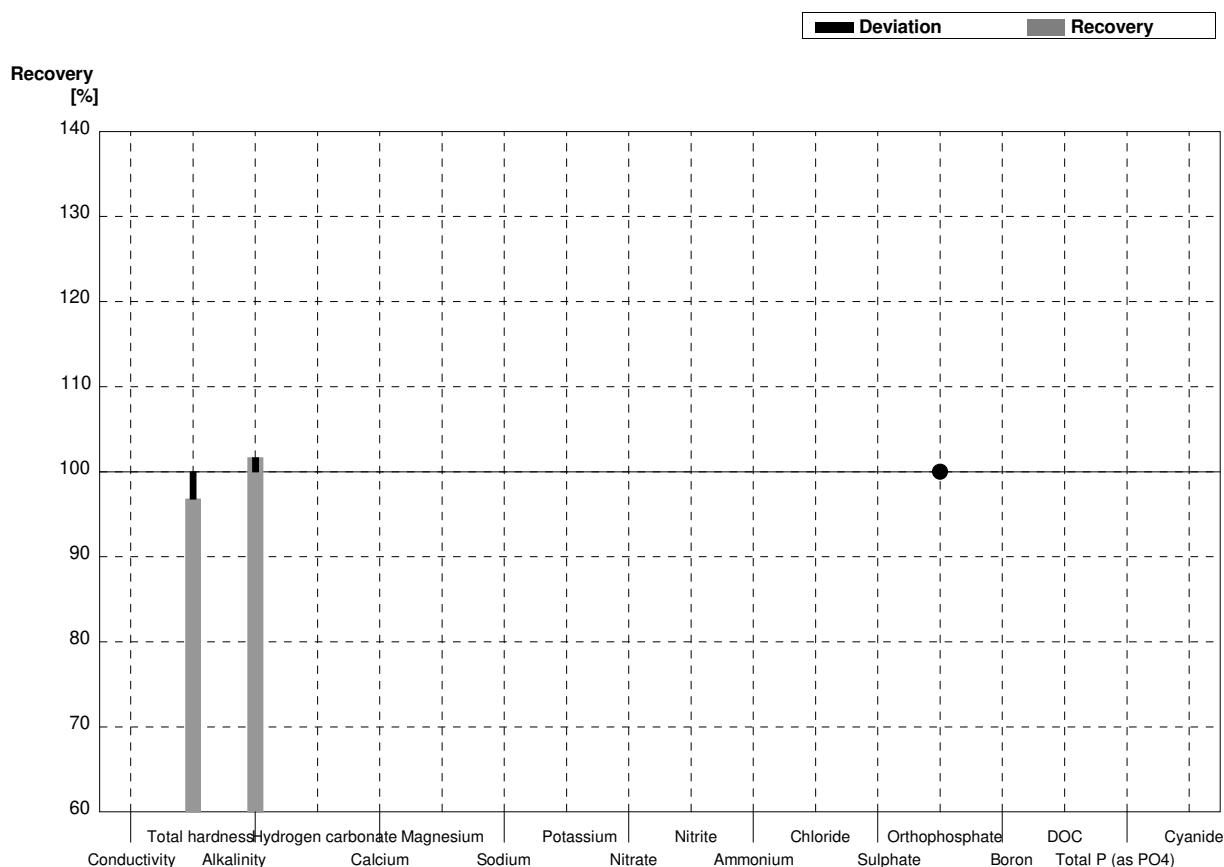
**Sample N158A**  
**Laboratory Z**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2			$\mu\text{S}/\text{cm}$	
Total hardness	2,04	0,02	1,99	0,01	mmol/l	98%
Alkalinity	1,71	0,02	1,72	0,02	mmol/l	101%
Hydrogen carbonate	101	1			mg/l	
Calcium	57,9	0,7			mg/l	
Magnesium	14,5	0,2			mg/l	
Sodium	11,7	0,3			mg/l	
Potassium	2,30	0,04			mg/l	
Nitrate	39,9	0,6			mg/l	
Nitrite	0,0468	0,0010			mg/l	
Ammonium	0,0251	0,0044			mg/l	
Chloride	47,6	0,9			mg/l	
Sulphate	45,3	0,5			mg/l	
Orthophosphate	0,132	0,001	0,130	0,001	mg/l	98%
Boron	0,0431	0,0002			mg/l	
DOC	5,62	0,03			mg/l	
Total P (as PO <sub>4</sub> )	0,184	0,001			mg/l	
Cyanide	0,0469	0,0003			mg/l	



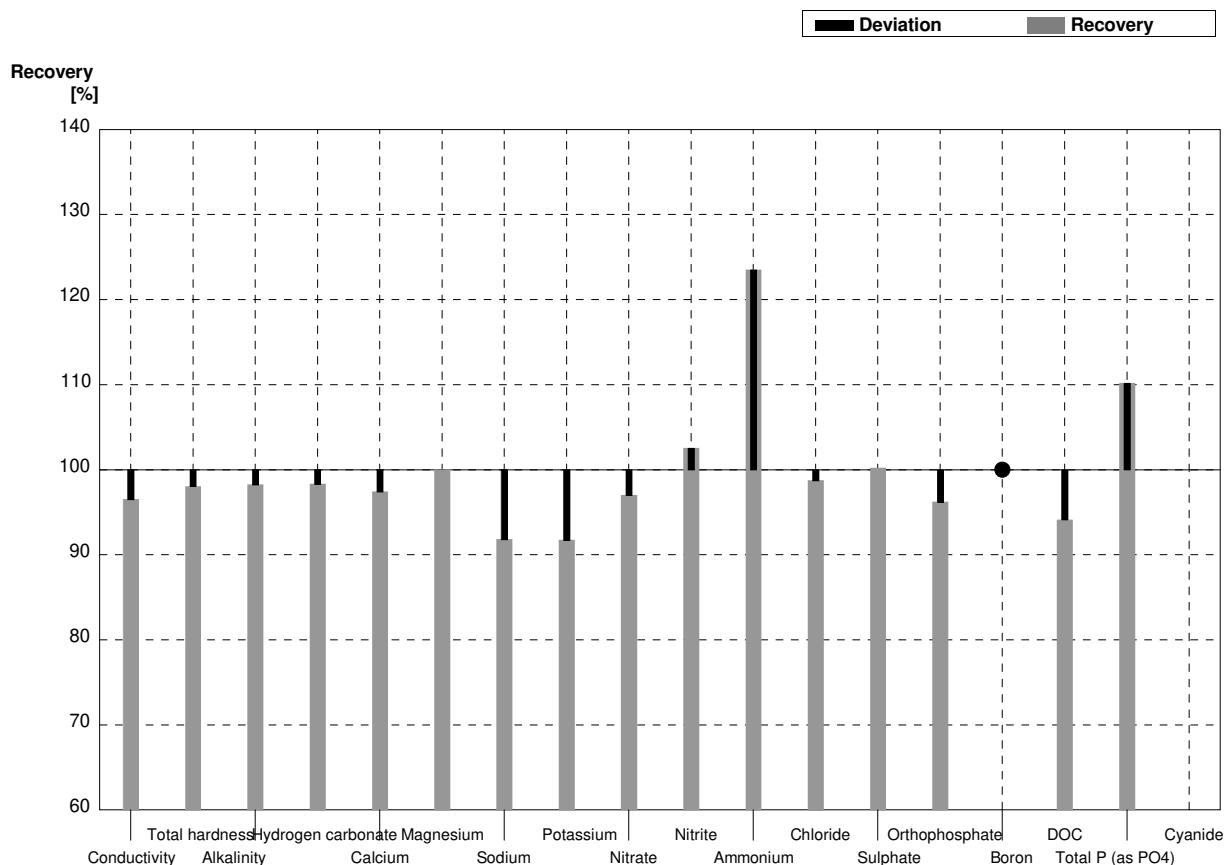
**Sample N158B**  
**Laboratory Z**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1			$\mu\text{S}/\text{cm}$	
Total hardness	1,25	0,02	1,21	0,03	$\text{mmol/l}$	97%
Alkalinity	1,19	0,01	1,21	0,02	$\text{mmol/l}$	102%
Hydrogen carbonate	69,5	0,4			$\text{mg/l}$	
Calcium	39,4	0,6			$\text{mg/l}$	
Magnesium	6,41	0,09			$\text{mg/l}$	
Sodium	32,5	0,2			$\text{mg/l}$	
Potassium	5,52	0,04			$\text{mg/l}$	
Nitrate	73,3	1,7			$\text{mg/l}$	
Nitrite	0,063	0,003			$\text{mg/l}$	
Ammonium	0,070	0,003			$\text{mg/l}$	
Chloride	14,7	0,3			$\text{mg/l}$	
Sulphate	62,6	0,4			$\text{mg/l}$	
Orthophosphate	<0,009		<0,015		$\text{mg/l}$	•
Boron	0,0244	0,0001			$\text{mg/l}$	
DOC	1,56	0,01			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	<0,009				$\text{mg/l}$	
Cyanide	0,0165	0,0001			$\text{mg/l}$	



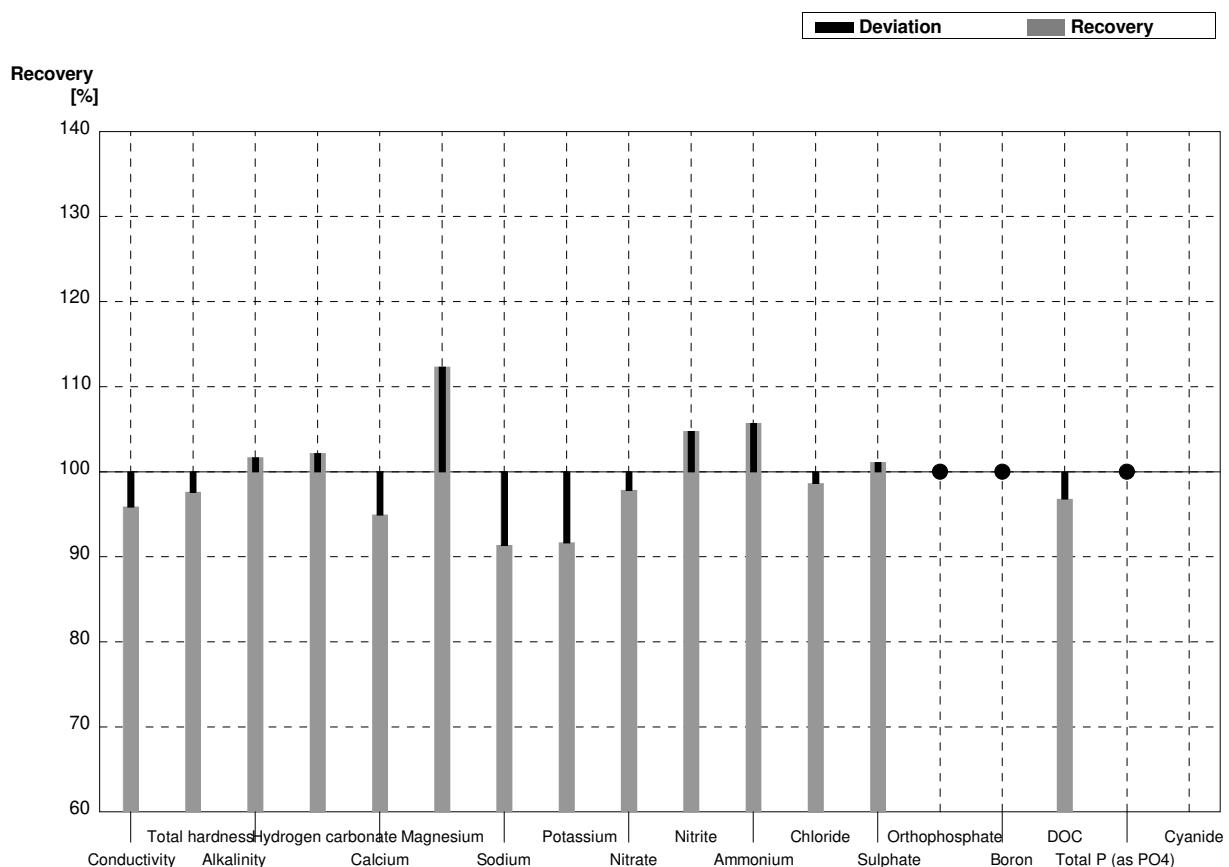
**Sample N158A**  
**Laboratory AA**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2	472	9	$\mu\text{S}/\text{cm}$	97%
Total hardness	2,04	0,02	2,00	0,08	$\text{mmol/l}$	98%
Alkalinity	1,71	0,02	1,68	0,08	$\text{mmol/l}$	98%
Hydrogen carbonate	101	1	99,3	4,97	$\text{mg/l}$	98%
Calcium	57,9	0,7	56,4	2,3	$\text{mg/l}$	97%
Magnesium	14,5	0,2	14,5	0,7	$\text{mg/l}$	100%
Sodium	11,7	0,3	10,74	0,54	$\text{mg/l}$	92%
Potassium	2,30	0,04	2,11	0,11	$\text{mg/l}$	92%
Nitrate	39,9	0,6	38,7	1,2	$\text{mg/l}$	97%
Nitrite	0,0468	0,0010	0,0480	0,005	$\text{mg/l}$	103%
Ammonium	0,0251	0,0044	0,0310	0,003	$\text{mg/l}$	124%
Chloride	47,6	0,9	47,0	1,4	$\text{mg/l}$	99%
Sulphate	45,3	0,5	45,4	1,4	$\text{mg/l}$	100%
Orthophosphate	0,132	0,001	0,127	0,013	$\text{mg/l}$	96%
Boron	0,0431	0,0002	<0,050		$\text{mg/l}$	•
DOC	5,62	0,03	5,29	0,53	$\text{mg/l}$	94%
Total P (as PO <sub>4</sub> )	0,184	0,001	0,2027	0,0304	$\text{mg/l}$	110%
Cyanide	0,0469	0,0003			$\text{mg/l}$	



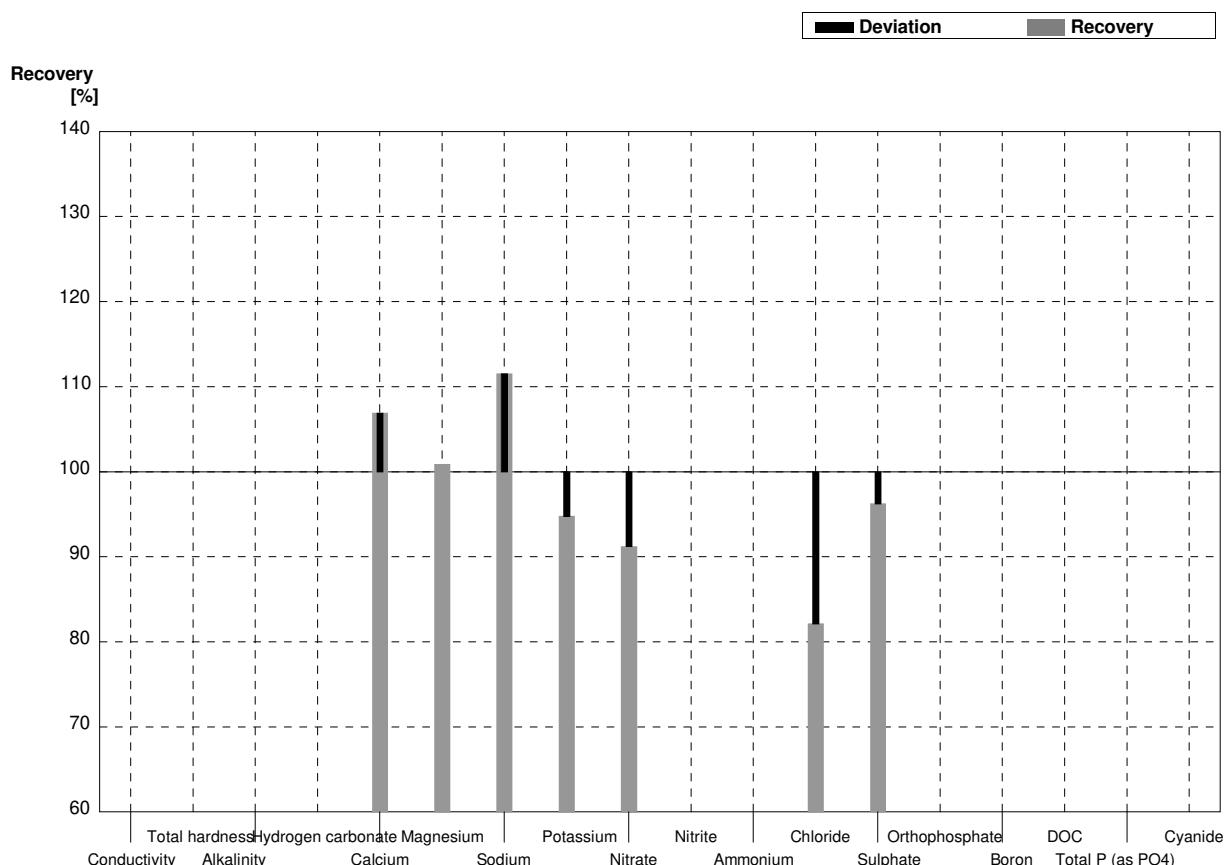
**Sample N158B**  
**Laboratory AA**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1	417	8	$\mu\text{S}/\text{cm}$	96%
Total hardness	1,25	0,02	1,22	0,05	$\text{mmol/l}$	98%
Alkalinity	1,19	0,01	1,21	0,06	$\text{mmol/l}$	102%
Hydrogen carbonate	69,5	0,4	71,0	3,6	$\text{mg/l}$	102%
Calcium	39,4	0,6	37,4	1,5	$\text{mg/l}$	95%
Magnesium	6,41	0,09	7,2	0,4	$\text{mg/l}$	112%
Sodium	32,5	0,2	29,69	1,49	$\text{mg/l}$	91%
Potassium	5,52	0,04	5,06	0,25	$\text{mg/l}$	92%
Nitrate	73,3	1,7	71,7	2,2	$\text{mg/l}$	98%
Nitrite	0,063	0,003	0,066	0,007	$\text{mg/l}$	105%
Ammonium	0,070	0,003	0,074	0,007	$\text{mg/l}$	106%
Chloride	14,7	0,3	14,5	0,4	$\text{mg/l}$	99%
Sulphate	62,6	0,4	63,3	1,9	$\text{mg/l}$	101%
Orthophosphate	<0,009		<0,020		$\text{mg/l}$	•
Boron	0,0244	0,0001	<0,050		$\text{mg/l}$	•
DOC	1,56	0,01	1,51	0,15	$\text{mg/l}$	97%
Total P (as PO <sub>4</sub> )	<0,009		<0,031		$\text{mg/l}$	•
Cyanide	0,0165	0,0001			$\text{mg/l}$	



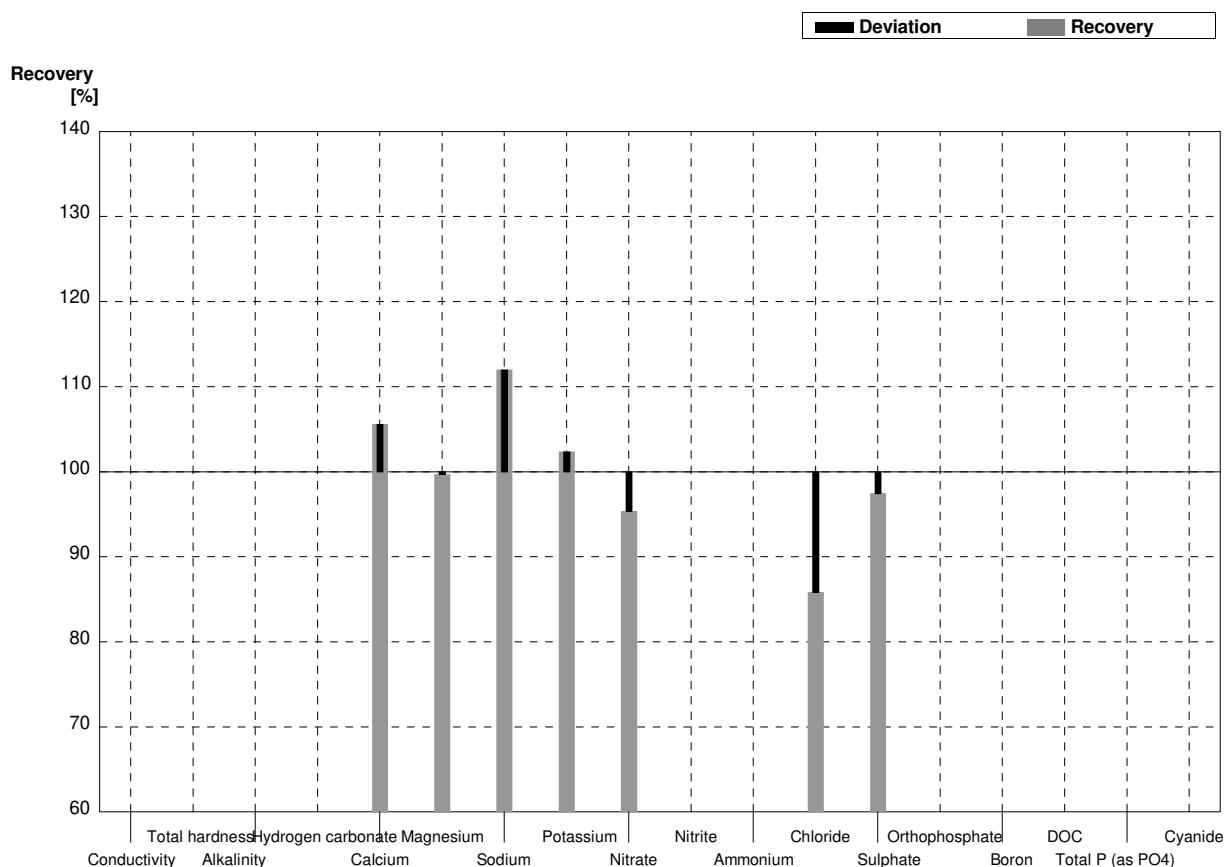
**Sample N158A**  
**Laboratory AB**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2			$\mu\text{S}/\text{cm}$	
Total hardness	2,04	0,02			$\text{mmol/l}$	
Alkalinity	1,71	0,02			$\text{mmol/l}$	
Hydrogen carbonate	101	1			$\text{mg/l}$	
Calcium	57,9	0,7	61,9	3,09	$\text{mg/l}$	107%
Magnesium	14,5	0,2	14,63	0,732	$\text{mg/l}$	101%
Sodium	11,7	0,3	13,05	0,653	$\text{mg/l}$	112%
Potassium	2,30	0,04	2,18	0,109	$\text{mg/l}$	95%
Nitrate	39,9	0,6	36,4	1,82	$\text{mg/l}$	91%
Nitrite	0,0468	0,0010			$\text{mg/l}$	
Ammonium	0,0251	0,0044			$\text{mg/l}$	
Chloride	47,6	0,9	39,1	1,96	$\text{mg/l}$	82%
Sulphate	45,3	0,5	43,6	2,18	$\text{mg/l}$	96%
Orthophosphate	0,132	0,001			$\text{mg/l}$	
Boron	0,0431	0,0002			$\text{mg/l}$	
DOC	5,62	0,03			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	0,184	0,001			$\text{mg/l}$	
Cyanide	0,0469	0,0003			$\text{mg/l}$	



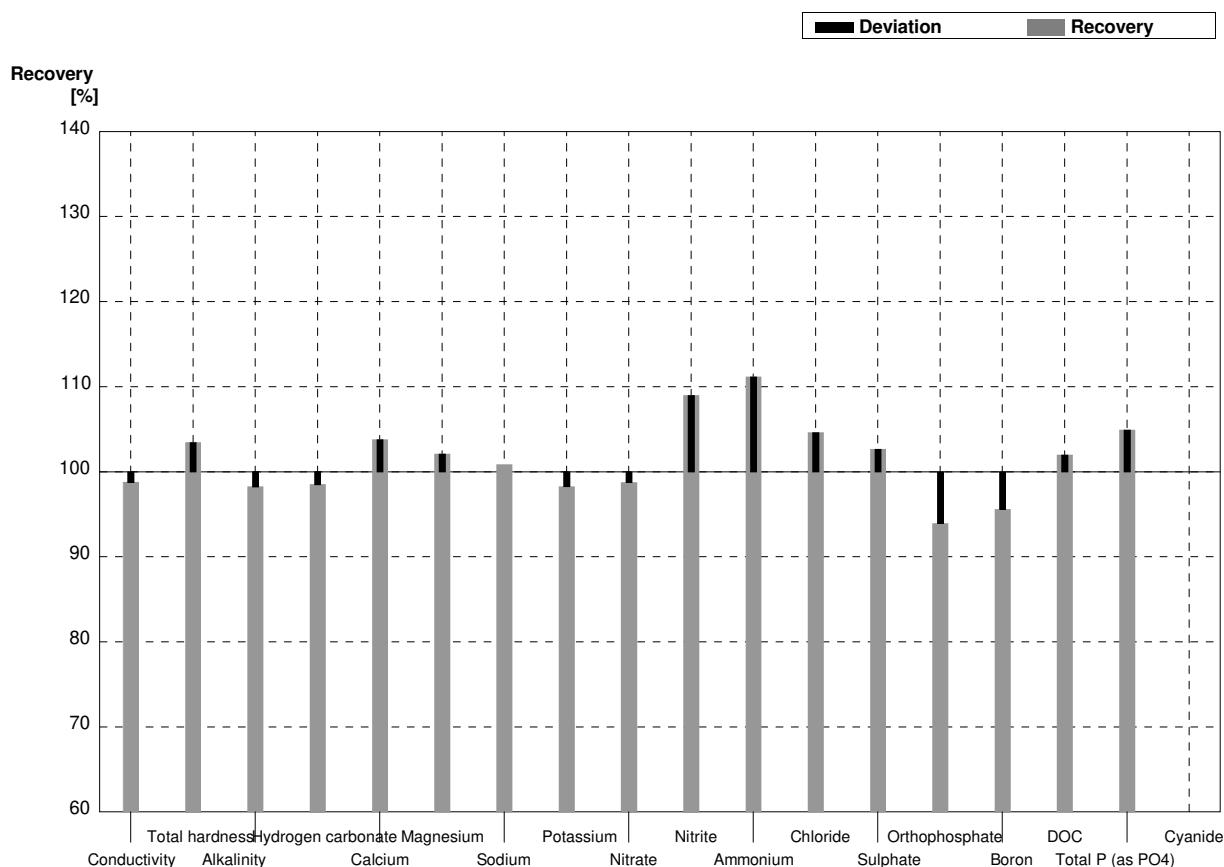
**Sample N158B**  
**Laboratory AB**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1			$\mu\text{S}/\text{cm}$	
Total hardness	1,25	0,02			$\text{mmol/l}$	
Alkalinity	1,19	0,01			$\text{mmol/l}$	
Hydrogen carbonate	69,5	0,4			$\text{mg/l}$	
Calcium	39,4	0,6	41,6	2,08	$\text{mg/l}$	106%
Magnesium	6,41	0,09	6,39	0,319	$\text{mg/l}$	100%
Sodium	32,5	0,2	36,4	1,82	$\text{mg/l}$	112%
Potassium	5,52	0,04	5,65	0,283	$\text{mg/l}$	102%
Nitrate	73,3	1,7	69,9	3,49	$\text{mg/l}$	95%
Nitrite	0,063	0,003			$\text{mg/l}$	
Ammonium	0,070	0,003			$\text{mg/l}$	
Chloride	14,7	0,3	12,62	0,631	$\text{mg/l}$	86%
Sulphate	62,6	0,4	61,0	3,05	$\text{mg/l}$	97%
Orthophosphate	<0,009				$\text{mg/l}$	
Boron	0,0244	0,0001			$\text{mg/l}$	
DOC	1,56	0,01			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	<0,009				$\text{mg/l}$	
Cyanide	0,0165	0,0001			$\text{mg/l}$	



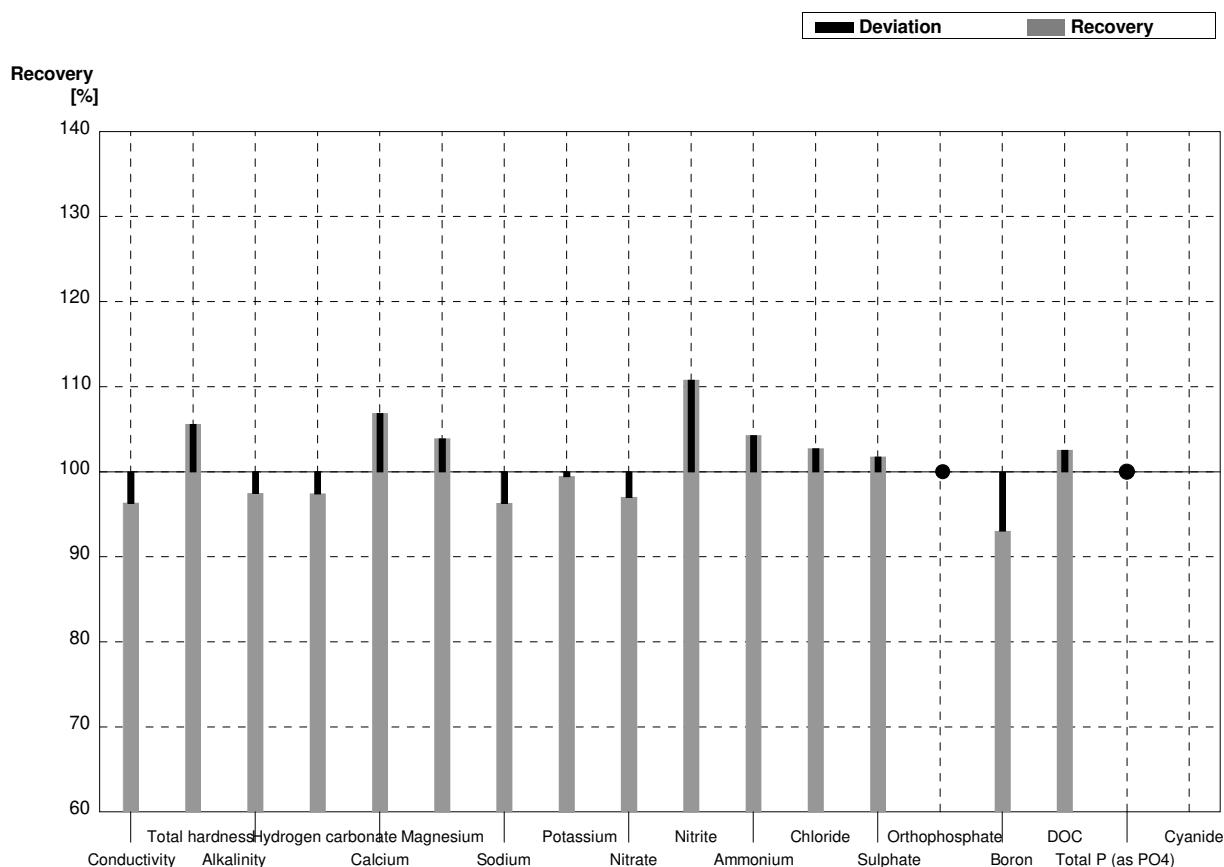
**Sample N158A**  
**Laboratory AC**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	489	2	483	2,3	µS/cm	99%
Total hardness	2,04	0,02	2,11		mmol/l	103%
Alkalinity	1,71	0,02	1,68	0,12	mmol/l	98%
Hydrogen carbonate	101	1	99,5	0,8	mg/l	99%
Calcium	57,9	0,7	60,1	1,6	mg/l	104%
Magnesium	14,5	0,2	14,8	0,1	mg/l	102%
Sodium	11,7	0,3	11,8	0,2	mg/l	101%
Potassium	2,30	0,04	2,26	0,2	mg/l	98%
Nitrate	39,9	0,6	39,4	0,4	mg/l	99%
Nitrite	0,0468	0,0010	0,051	0,001	mg/l	109%
Ammonium	0,0251	0,0044	0,0279	0,002	mg/l	111%
Chloride	47,6	0,9	49,8	1,4	mg/l	105%
Sulphate	45,3	0,5	46,5	3,1	mg/l	103%
Orthophosphate	0,132	0,001	0,124	0,003	mg/l	94%
Boron	0,0431	0,0002	0,0412	0,0025	mg/l	96%
DOC	5,62	0,03	5,73	0,08	mg/l	102%
Total P (as PO <sub>4</sub> )	0,184	0,001	0,193	0,002	mg/l	105%
Cyanide	0,0469	0,0003			mg/l	



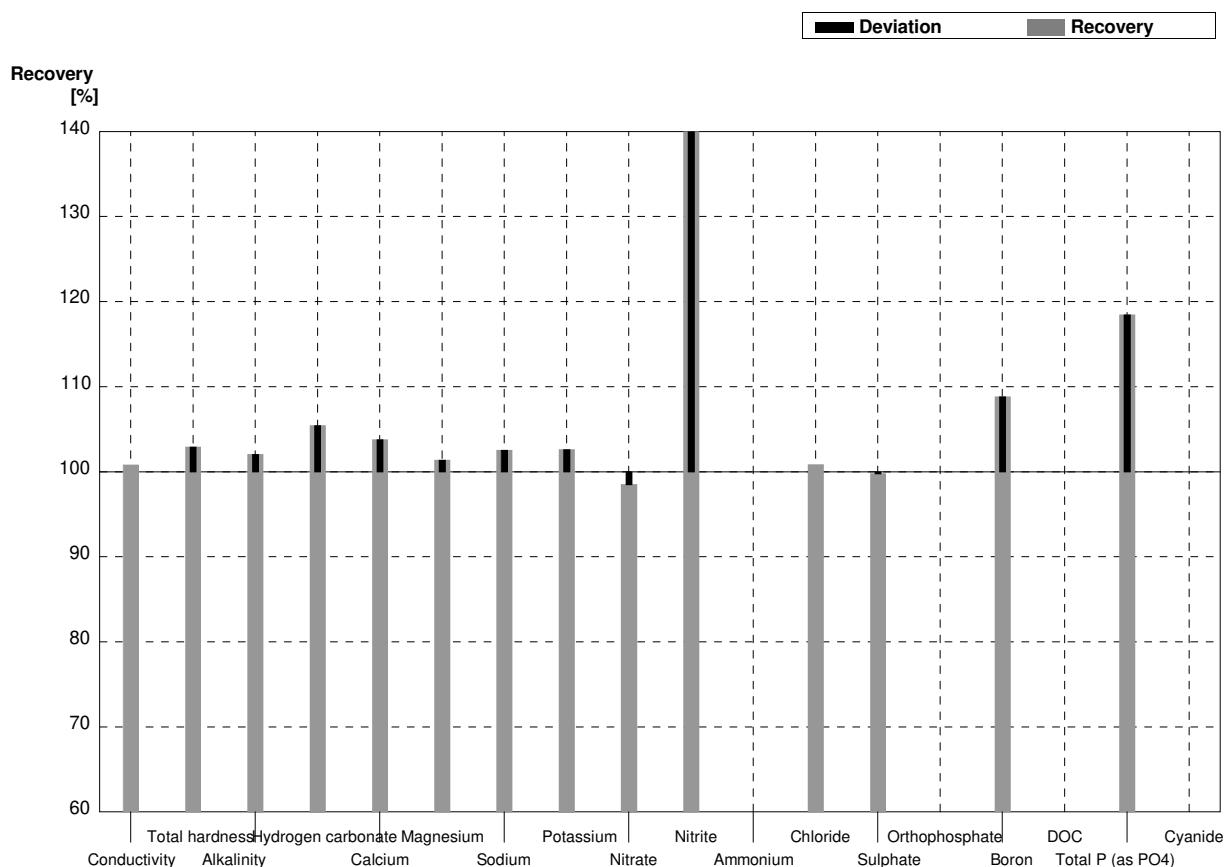
**Sample N158B**  
**Laboratory AC**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1	419		$\mu\text{S}/\text{cm}$	96%
Total hardness	1,25	0,02	1,32		$\text{mmol/l}$	106%
Alkalinity	1,19	0,01	1,16	0,1	$\text{mmol/l}$	97%
Hydrogen carbonate	69,5	0,4	67,7	0,4	$\text{mg/l}$	97%
Calcium	39,4	0,6	42,1	1,5	$\text{mg/l}$	107%
Magnesium	6,41	0,09	6,66	0,07	$\text{mg/l}$	104%
Sodium	32,5	0,2	31,3	1,0	$\text{mg/l}$	96%
Potassium	5,52	0,04	5,49	0,06	$\text{mg/l}$	99%
Nitrate	73,3	1,7	71,1	1,2	$\text{mg/l}$	97%
Nitrite	0,063	0,003	0,0698	0,001	$\text{mg/l}$	111%
Ammonium	0,070	0,003	0,0730	0,002	$\text{mg/l}$	104%
Chloride	14,7	0,3	15,1	0,5	$\text{mg/l}$	103%
Sulphate	62,6	0,4	63,7	0,1	$\text{mg/l}$	102%
Orthophosphate	<0,009		'0,0104	0,003	$\text{mg/l}$	•
Boron	0,0244	0,0001	0,0227	0,0027	$\text{mg/l}$	93%
DOC	1,56	0,01	1,60	0,03	$\text{mg/l}$	103%
Total P (as PO <sub>4</sub> )	<0,009		<0,03		$\text{mg/l}$	•
Cyanide	0,0165	0,0001			$\text{mg/l}$	



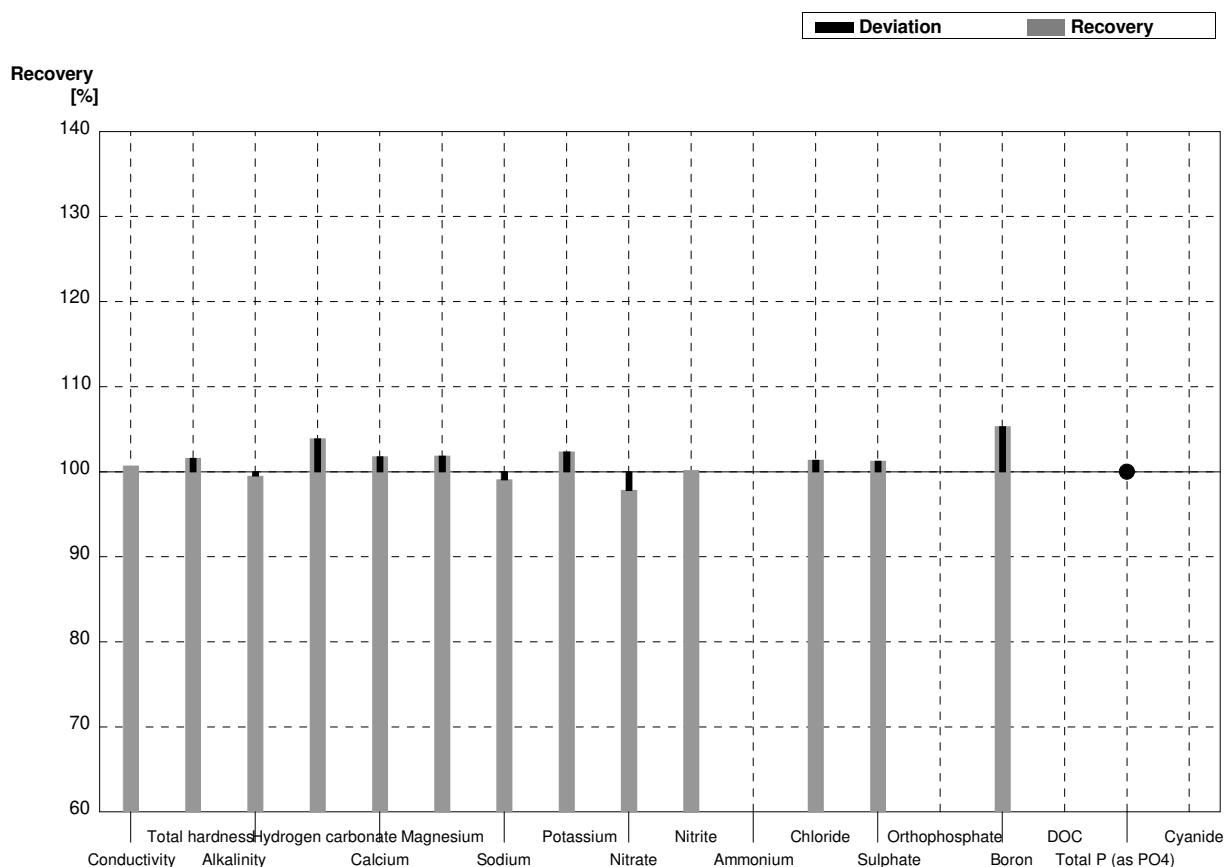
**Sample N158A**  
**Laboratory AD**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2	493		$\mu\text{S}/\text{cm}$	101%
Total hardness	2,04	0,02	2,10		$\text{mmol/l}$	103%
Alkalinity	1,71	0,02	1,745		$\text{mmol/l}$	102%
Hydrogen carbonate	101	1	106,5		$\text{mg/l}$	105%
Calcium	57,9	0,7	60,1	1,14	$\text{mg/l}$	104%
Magnesium	14,5	0,2	14,7	0,18	$\text{mg/l}$	101%
Sodium	11,7	0,3	12,0	0,05	$\text{mg/l}$	103%
Potassium	2,30	0,04	2,36	0,02	$\text{mg/l}$	103%
Nitrate	39,9	0,6	39,3		$\text{mg/l}$	98%
Nitrite	0,0468	0,0010	0,460		$\text{mg/l}$	983%
Ammonium	0,0251	0,0044			$\text{mg/l}$	
Chloride	47,6	0,9	48,0		$\text{mg/l}$	101%
Sulphate	45,3	0,5	45,2		$\text{mg/l}$	100%
Orthophosphate	0,132	0,001			$\text{mg/l}$	
Boron	0,0431	0,0002	0,0469	0,0003	$\text{mg/l}$	109%
DOC	5,62	0,03			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	0,184	0,001	0,218	0,005	$\text{mg/l}$	118%
Cyanide	0,0469	0,0003			$\text{mg/l}$	



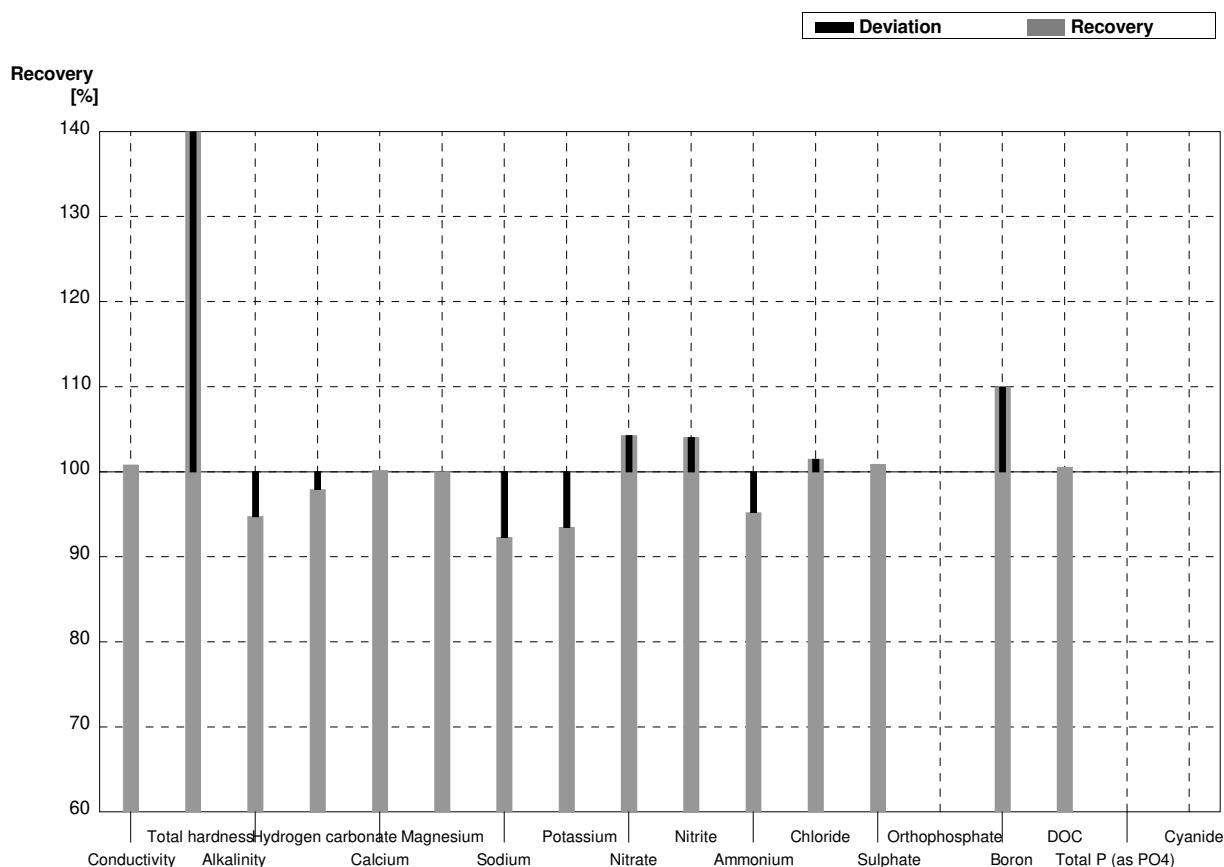
**Sample N158B**  
**Laboratory AD**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1	438		$\mu\text{S}/\text{cm}$	101%
Total hardness	1,25	0,02	1,27		$\text{mmol/l}$	102%
Alkalinity	1,19	0,01	1,184		$\text{mmol/l}$	99%
Hydrogen carbonate	69,5	0,4	72,2		$\text{mg/l}$	104%
Calcium	39,4	0,6	40,1	0,76	$\text{mg/l}$	102%
Magnesium	6,41	0,09	6,53	0,08	$\text{mg/l}$	102%
Sodium	32,5	0,2	32,2	0,14	$\text{mg/l}$	99%
Potassium	5,52	0,04	5,65	0,04	$\text{mg/l}$	102%
Nitrate	73,3	1,7	71,7		$\text{mg/l}$	98%
Nitrite	0,063	0,003	0,0631		$\text{mg/l}$	100%
Ammonium	0,070	0,003			$\text{mg/l}$	
Chloride	14,7	0,3	14,9		$\text{mg/l}$	101%
Sulphate	62,6	0,4	63,4		$\text{mg/l}$	101%
Orthophosphate	<0,009				$\text{mg/l}$	
Boron	0,0244	0,0001	0,0257	0,0002	$\text{mg/l}$	105%
DOC	1,56	0,01			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	<0,009		<0,05		$\text{mg/l}$	•
Cyanide	0,0165	0,0001			$\text{mg/l}$	



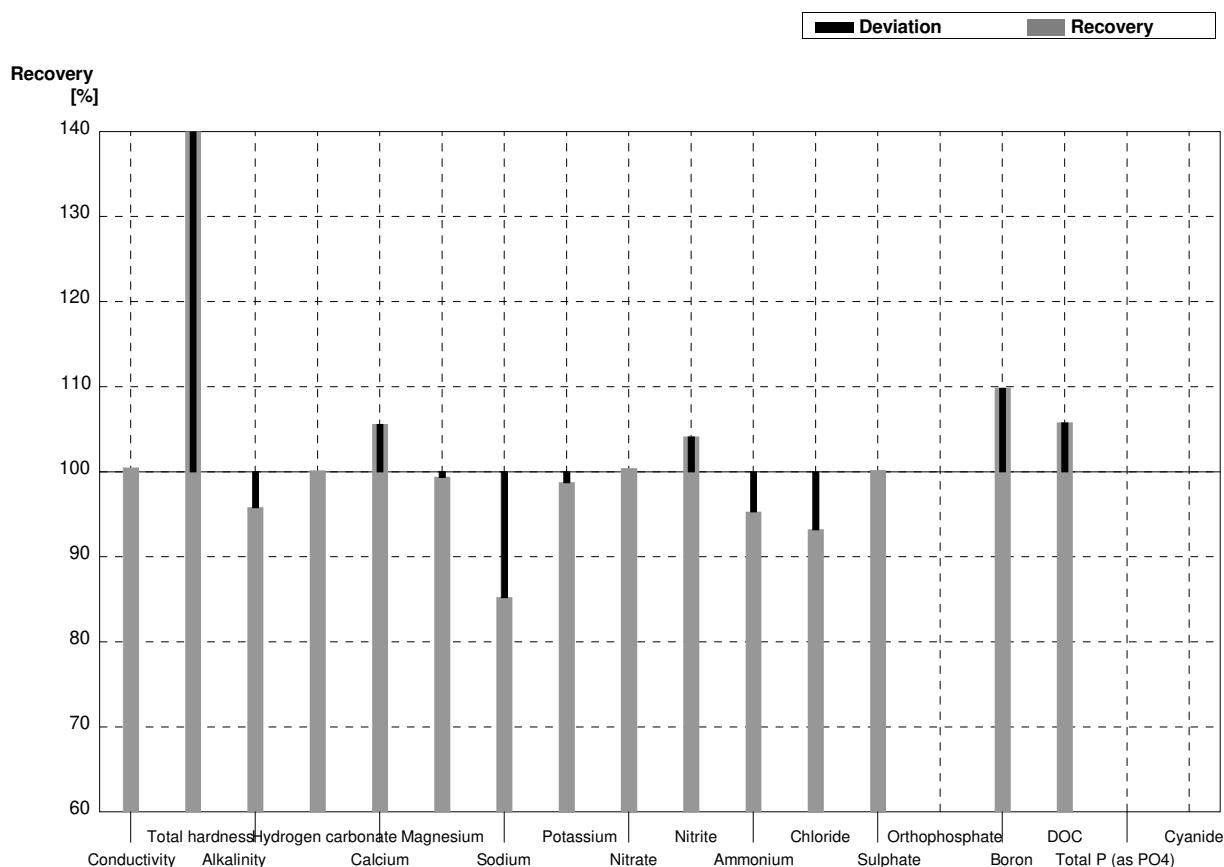
**Sample N158A**  
**Laboratory AE**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2	493	14	$\mu\text{S}/\text{cm}$	101%
Total hardness	2,04	0,02	20,4		$\text{mmol/l}$	1000%
Alkalinity	1,71	0,02	1,62	0,08	$\text{mmol/l}$	95%
Hydrogen carbonate	101	1	98,9	5	$\text{mg/l}$	98%
Calcium	57,9	0,7	58,0	8,12	$\text{mg/l}$	100%
Magnesium	14,5	0,2	14,5	1,16	$\text{mg/l}$	100%
Sodium	11,7	0,3	10,8	1,73	$\text{mg/l}$	92%
Potassium	2,30	0,04	2,15	0,22	$\text{mg/l}$	93%
Nitrate	39,9	0,6	41,6	1,7	$\text{mg/l}$	104%
Nitrite	0,0468	0,0010	0,0487	0,010	$\text{mg/l}$	104%
Ammonium	0,0251	0,0044	0,0239	0,002	$\text{mg/l}$	95%
Chloride	47,6	0,9	48,3	12,1	$\text{mg/l}$	101%
Sulphate	45,3	0,5	45,7	2,7	$\text{mg/l}$	101%
Orthophosphate	0,132	0,001			$\text{mg/l}$	
Boron	0,0431	0,0002	0,0474	0,0119	$\text{mg/l}$	110%
DOC	5,62	0,03	5,65	1,41	$\text{mg/l}$	101%
Total P (as PO <sub>4</sub> )	0,184	0,001			$\text{mg/l}$	
Cyanide	0,0469	0,0003			$\text{mg/l}$	



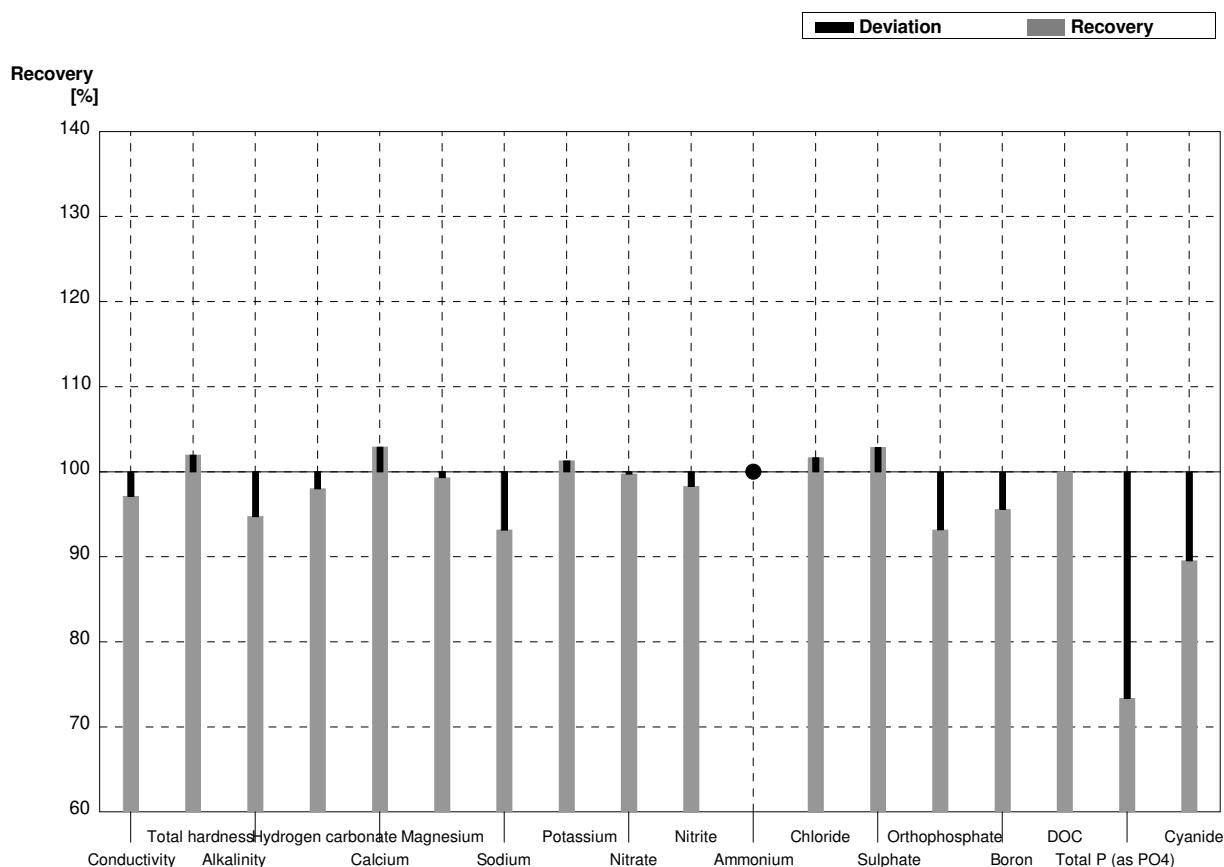
**Sample N158B**  
**Laboratory AE**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1	437	13	$\mu\text{S}/\text{cm}$	100%
Total hardness	1,25	0,02	13,01		$\text{mmol/l}$	1041%
Alkalinity	1,19	0,01	1,14	0,06	$\text{mmol/l}$	96%
Hydrogen carbonate	69,5	0,4	69,6	3,45	$\text{mg/l}$	100%
Calcium	39,4	0,6	41,6	5,8	$\text{mg/l}$	106%
Magnesium	6,41	0,09	6,37	0,5	$\text{mg/l}$	99%
Sodium	32,5	0,2	27,7	4,4	$\text{mg/l}$	85%
Potassium	5,52	0,04	5,45	0,55	$\text{mg/l}$	99%
Nitrate	73,3	1,7	73,6	2,9	$\text{mg/l}$	100%
Nitrite	0,063	0,003	0,0656	0,013	$\text{mg/l}$	104%
Ammonium	0,070	0,003	0,0667	0,007	$\text{mg/l}$	95%
Chloride	14,7	0,3	13,7	3,4	$\text{mg/l}$	93%
Sulphate	62,6	0,4	62,7	3,8	$\text{mg/l}$	100%
Orthophosphate	<0,009				$\text{mg/l}$	
Boron	0,0244	0,0001	0,0268	0,0067	$\text{mg/l}$	110%
DOC	1,56	0,01	1,65	0,41	$\text{mg/l}$	106%
Total P (as PO <sub>4</sub> )	<0,009				$\text{mg/l}$	
Cyanide	0,0165	0,0001			$\text{mg/l}$	



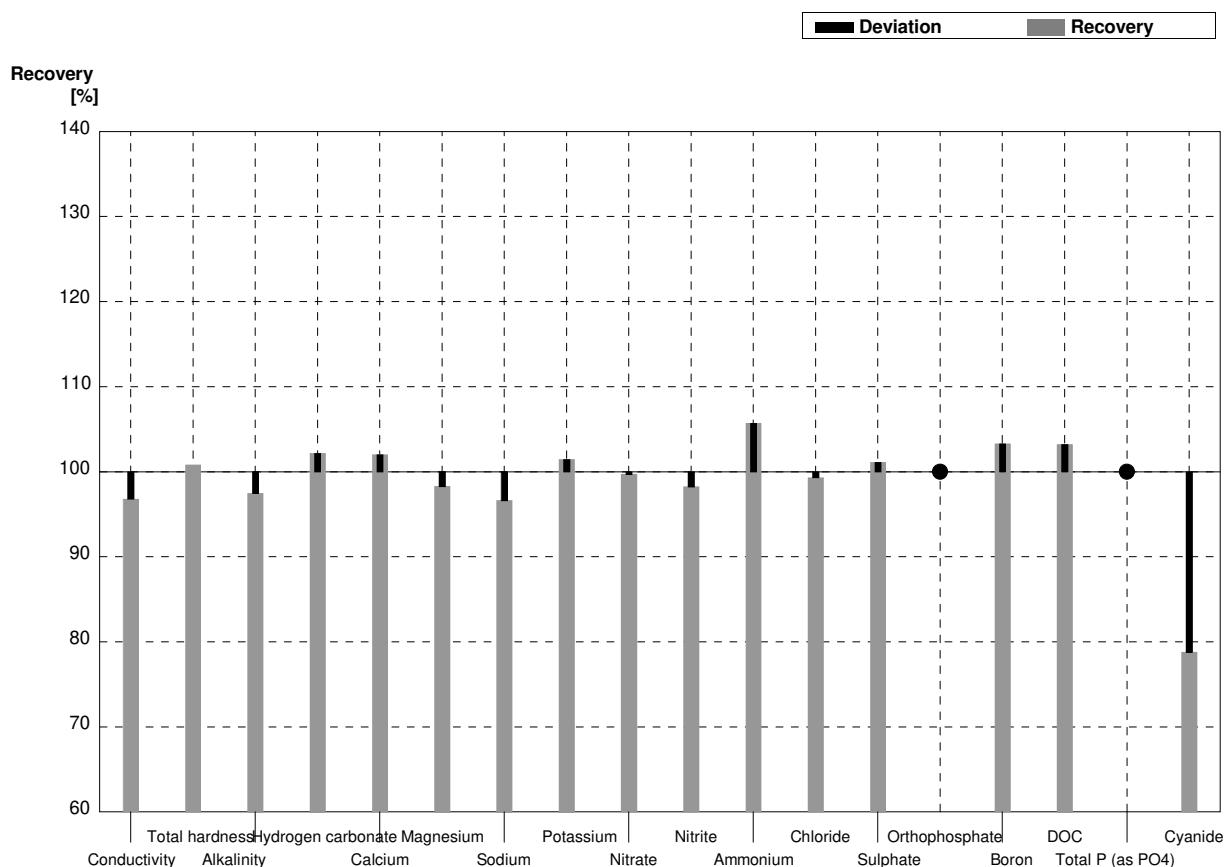
**Sample N158A**  
**Laboratory AF**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	489	2	475	19	µS/cm	97%
Total hardness	2,04	0,02	2,08	0,17	mmol/l	102%
Alkalinity	1,71	0,02	1,62		mmol/l	95%
Hydrogen carbonate	101	1	99		mg/l	98%
Calcium	57,9	0,7	59,6	4,2	mg/l	103%
Magnesium	14,5	0,2	14,4	1,2	mg/l	99%
Sodium	11,7	0,3	10,9	1,2	mg/l	93%
Potassium	2,30	0,04	2,33	0,4	mg/l	101%
Nitrate	39,9	0,6	39,8	2,8	mg/l	100%
Nitrite	0,0468	0,0010	0,0460	0,007	mg/l	98%
Ammonium	0,0251	0,0044	<0,040		mg/l	•
Chloride	47,6	0,9	48,4	2,4	mg/l	102%
Sulphate	45,3	0,5	46,6	2,8	mg/l	103%
Orthophosphate	0,132	0,001	0,123		mg/l	93%
Boron	0,0431	0,0002	0,0412	0,007	mg/l	96%
DOC	5,62	0,03	5,62	0,56	mg/l	100%
Total P (as PO <sub>4</sub> )	0,184	0,001	0,135		mg/l	73%
Cyanide	0,0469	0,0003	0,0420		mg/l	90%



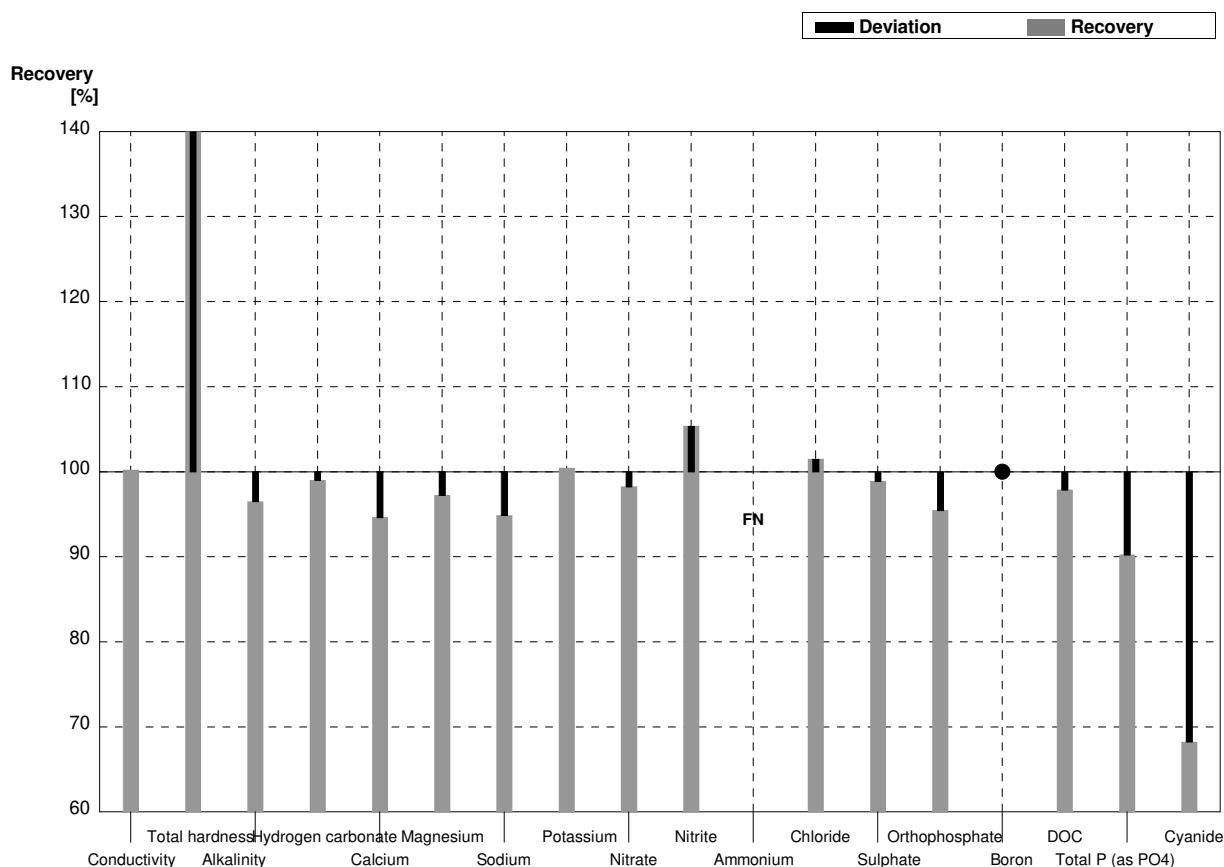
**Sample N158B**  
**Laboratory AF**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1	421	17	$\mu\text{S}/\text{cm}$	97%
Total hardness	1,25	0,02	1,26	0,10	$\text{mmol/l}$	101%
Alkalinity	1,19	0,01	1,16		$\text{mmol/l}$	97%
Hydrogen carbonate	69,5	0,4	71		$\text{mg/l}$	102%
Calcium	39,4	0,6	40,2	2,8	$\text{mg/l}$	102%
Magnesium	6,41	0,09	6,3	0,5	$\text{mg/l}$	98%
Sodium	32,5	0,2	31,4	3,5	$\text{mg/l}$	97%
Potassium	5,52	0,04	5,6	0,9	$\text{mg/l}$	101%
Nitrate	73,3	1,7	73,1	5,1	$\text{mg/l}$	100%
Nitrite	0,063	0,003	0,0619	0,01	$\text{mg/l}$	98%
Ammonium	0,070	0,003	0,074	0,01	$\text{mg/l}$	106%
Chloride	14,7	0,3	14,6	0,7	$\text{mg/l}$	99%
Sulphate	62,6	0,4	63,3	3,8	$\text{mg/l}$	101%
Orthophosphate	<0,009		<0,06		$\text{mg/l}$	•
Boron	0,0244	0,0001	0,0252	0,004	$\text{mg/l}$	103%
DOC	1,56	0,01	1,61	0,16	$\text{mg/l}$	103%
Total P (as PO <sub>4</sub> )	<0,009		<0,06		$\text{mg/l}$	•
Cyanide	0,0165	0,0001	0,0130		$\text{mg/l}$	79%



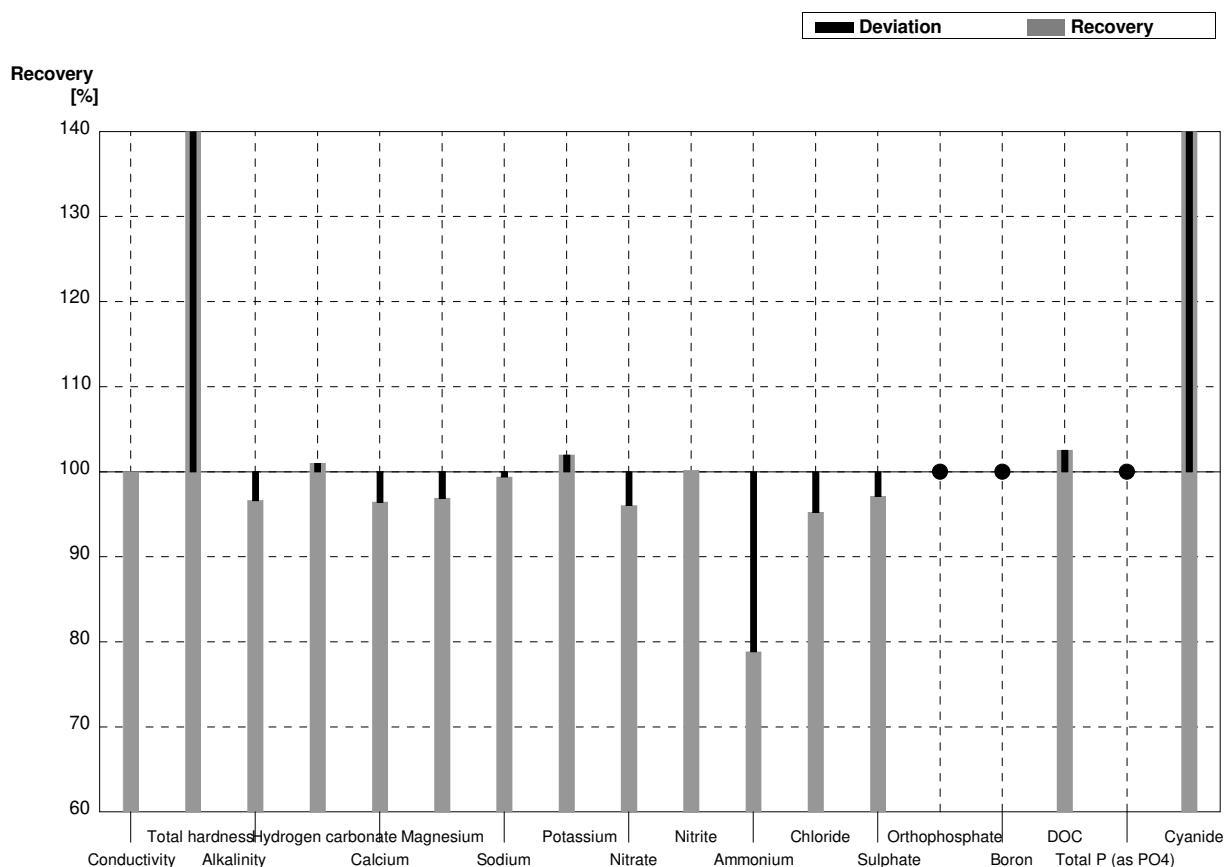
**Sample N158A**  
**Laboratory AG**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2	490	14,2	$\mu\text{S}/\text{cm}$	100%
Total hardness	2,04	0,02	10,9		$\text{mmol/l}$	534%
Alkalinity	1,71	0,02	1,65	0,0346	$\text{mmol/l}$	96%
Hydrogen carbonate	101	1	100	2,11	$\text{mg/l}$	99%
Calcium	57,9	0,7	54,8	1,76	$\text{mg/l}$	95%
Magnesium	14,5	0,2	14,1	0,460	$\text{mg/l}$	97%
Sodium	11,7	0,3	11,1	1,0	$\text{mg/l}$	95%
Potassium	2,30	0,04	2,31	0,159	$\text{mg/l}$	100%
Nitrate	39,9	0,6	39,2	1,10	$\text{mg/l}$	98%
Nitrite	0,0468	0,0010	0,0493	0,0031	$\text{mg/l}$	105%
Ammonium	0,0251	0,0044	<0,02		$\text{mg/l}$	FN
Chloride	47,6	0,9	48,3	0,941	$\text{mg/l}$	101%
Sulphate	45,3	0,5	44,8	1,16	$\text{mg/l}$	99%
Orthophosphate	0,132	0,001	0,126	0,010	$\text{mg/l}$	95%
Boron	0,0431	0,0002	<0,05		$\text{mg/l}$	•
DOC	5,62	0,03	5,50	0,670	$\text{mg/l}$	98%
Total P (as PO <sub>4</sub> )	0,184	0,001	0,166	0,0138	$\text{mg/l}$	90%
Cyanide	0,0469	0,0003	0,0320	0,0040	$\text{mg/l}$	68%



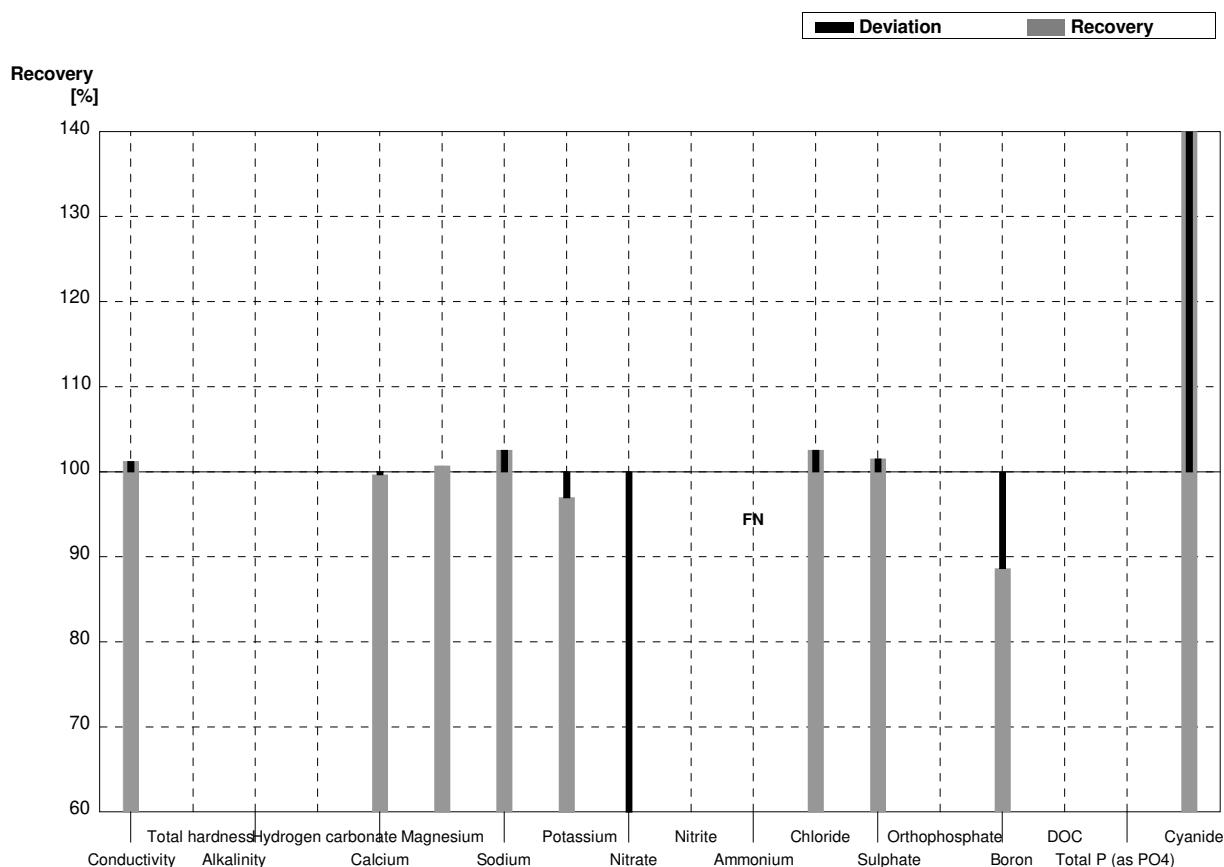
**Sample N158B**  
**Laboratory AG**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1	435	12,6	$\mu\text{S}/\text{cm}$	100%
Total hardness	1,25	0,02	6,75		$\text{mmol/l}$	540%
Alkalinity	1,19	0,01	1,15	0,0242	$\text{mmol/l}$	97%
Hydrogen carbonate	69,5	0,4	70,2	1,47	$\text{mg/l}$	101%
Calcium	39,4	0,6	38,0	1,22	$\text{mg/l}$	96%
Magnesium	6,41	0,09	6,21	0,202	$\text{mg/l}$	97%
Sodium	32,5	0,2	32,3	1,48	$\text{mg/l}$	99%
Potassium	5,52	0,04	5,63	0,386	$\text{mg/l}$	102%
Nitrate	73,3	1,7	70,4	1,97	$\text{mg/l}$	96%
Nitrite	0,063	0,003	0,0631	0,0039	$\text{mg/l}$	100%
Ammonium	0,070	0,003	0,0552	0,010	$\text{mg/l}$	79%
Chloride	14,7	0,3	14,0	0,274	$\text{mg/l}$	95%
Sulphate	62,6	0,4	60,8	1,58	$\text{mg/l}$	97%
Orthophosphate	<0,009		<0,01		$\text{mg/l}$	•
Boron	0,0244	0,0001	<0,05		$\text{mg/l}$	•
DOC	1,56	0,01	1,60	0,670	$\text{mg/l}$	103%
Total P (as PO <sub>4</sub> )	<0,009		<0,016		$\text{mg/l}$	•
Cyanide	0,0165	0,0001	0,0237	0,0040	$\text{mg/l}$	144%



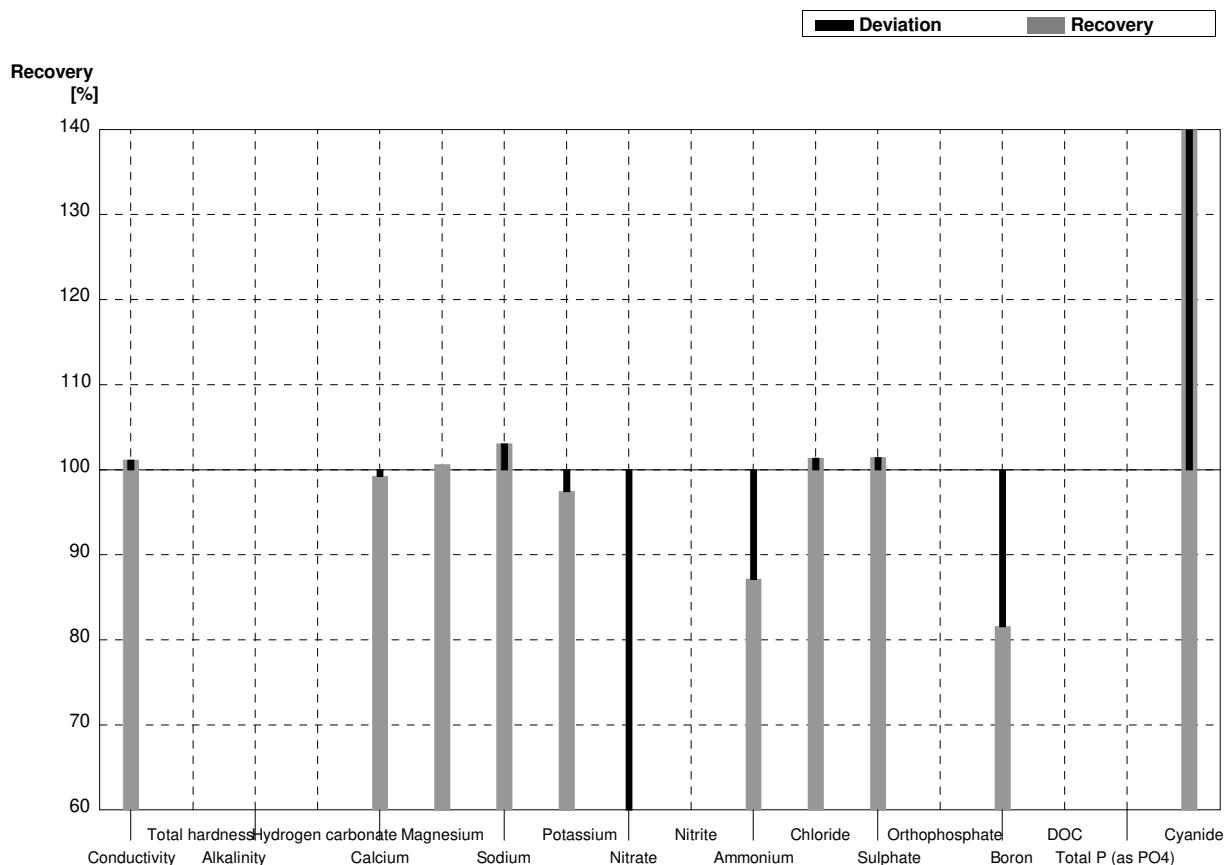
**Sample N158A**  
**Laboratory AH**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	489	2	495	25	µS/cm	101%
Total hardness	2,04	0,02			mmol/l	
Alkalinity	1,71	0,02			mmol/l	
Hydrogen carbonate	101	1			mg/l	
Calcium	57,9	0,7	57,7	2,9	mg/l	100%
Magnesium	14,5	0,2	14,6	0,7	mg/l	101%
Sodium	11,7	0,3	12,0	0,6	mg/l	103%
Potassium	2,30	0,04	2,23	0,11	mg/l	97%
Nitrate	39,9	0,6	8,67	0,9	mg/l	22%
Nitrite	0,0468	0,0010			mg/l	
Ammonium	0,0251	0,0044	<0,02		mg/l	FN
Chloride	47,6	0,9	48,8	4,9	mg/l	103%
Sulphate	45,3	0,5	46,0	4,6	mg/l	102%
Orthophosphate	0,132	0,001			mg/l	
Boron	0,0431	0,0002	0,0382	0,0019	mg/l	89%
DOC	5,62	0,03			mg/l	
Total P (as PO4)	0,184	0,001			mg/l	
Cyanide	0,0469	0,0003	36,3	4	mg/l	77399%



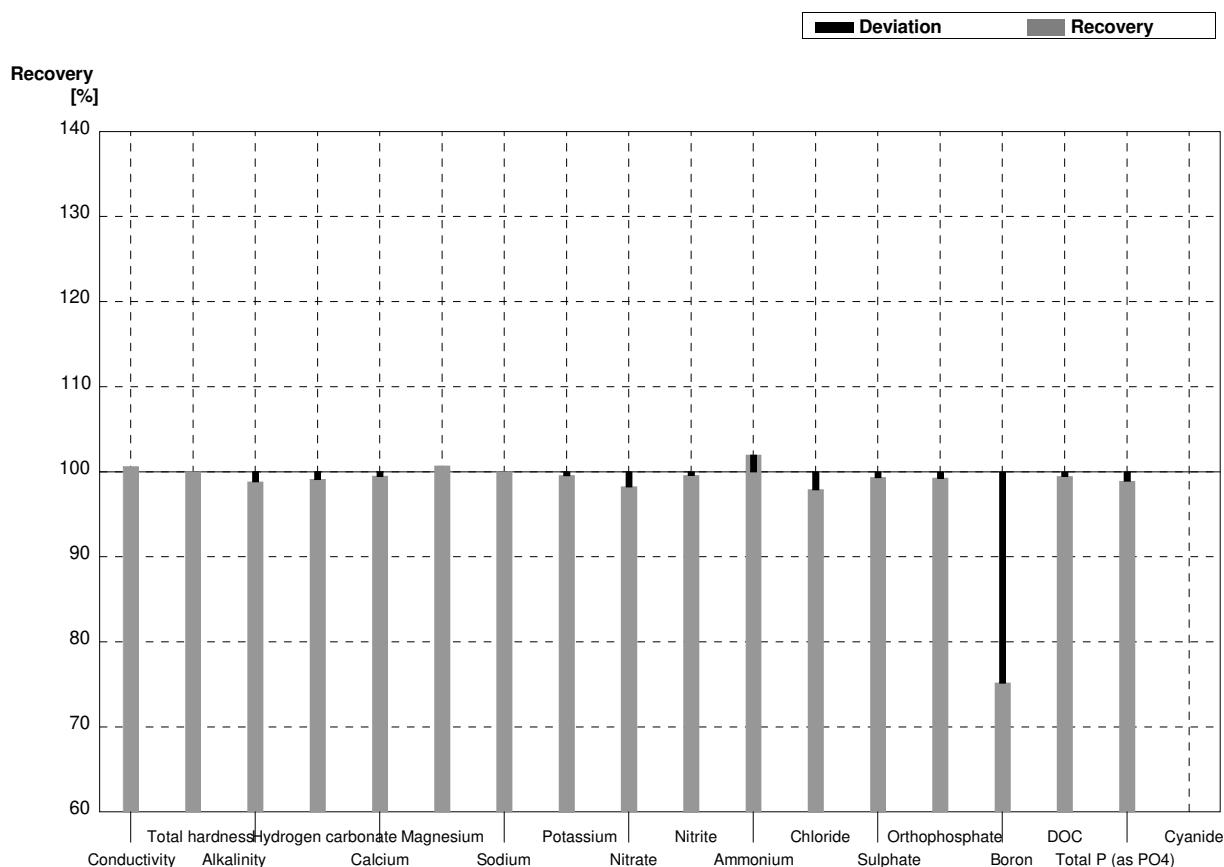
**Sample N158B**  
**Laboratory AH**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1	440	22	$\mu\text{S}/\text{cm}$	101%
Total hardness	1,25	0,02			$\text{mmol/l}$	
Alkalinity	1,19	0,01			$\text{mmol/l}$	
Hydrogen carbonate	69,5	0,4			$\text{mg/l}$	
Calcium	39,4	0,6	39,1	2	$\text{mg/l}$	99%
Magnesium	6,41	0,09	6,45	0,32	$\text{mg/l}$	101%
Sodium	32,5	0,2	33,5	1,7	$\text{mg/l}$	103%
Potassium	5,52	0,04	5,38	0,27	$\text{mg/l}$	97%
Nitrate	73,3	1,7	16,4	1,6	$\text{mg/l}$	22%
Nitrite	0,063	0,003			$\text{mg/l}$	
Ammonium	0,070	0,003	0,061	0,006	$\text{mg/l}$	87%
Chloride	14,7	0,3	14,9	1,5	$\text{mg/l}$	101%
Sulphate	62,6	0,4	63,5	6,3	$\text{mg/l}$	101%
Orthophosphate	<0,009				$\text{mg/l}$	
Boron	0,0244	0,0001	0,0199	0,0010	$\text{mg/l}$	82%
DOC	1,56	0,01			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	<0,009				$\text{mg/l}$	
Cyanide	0,0165	0,0001	12,6	1,5	$\text{mg/l}$	76364%



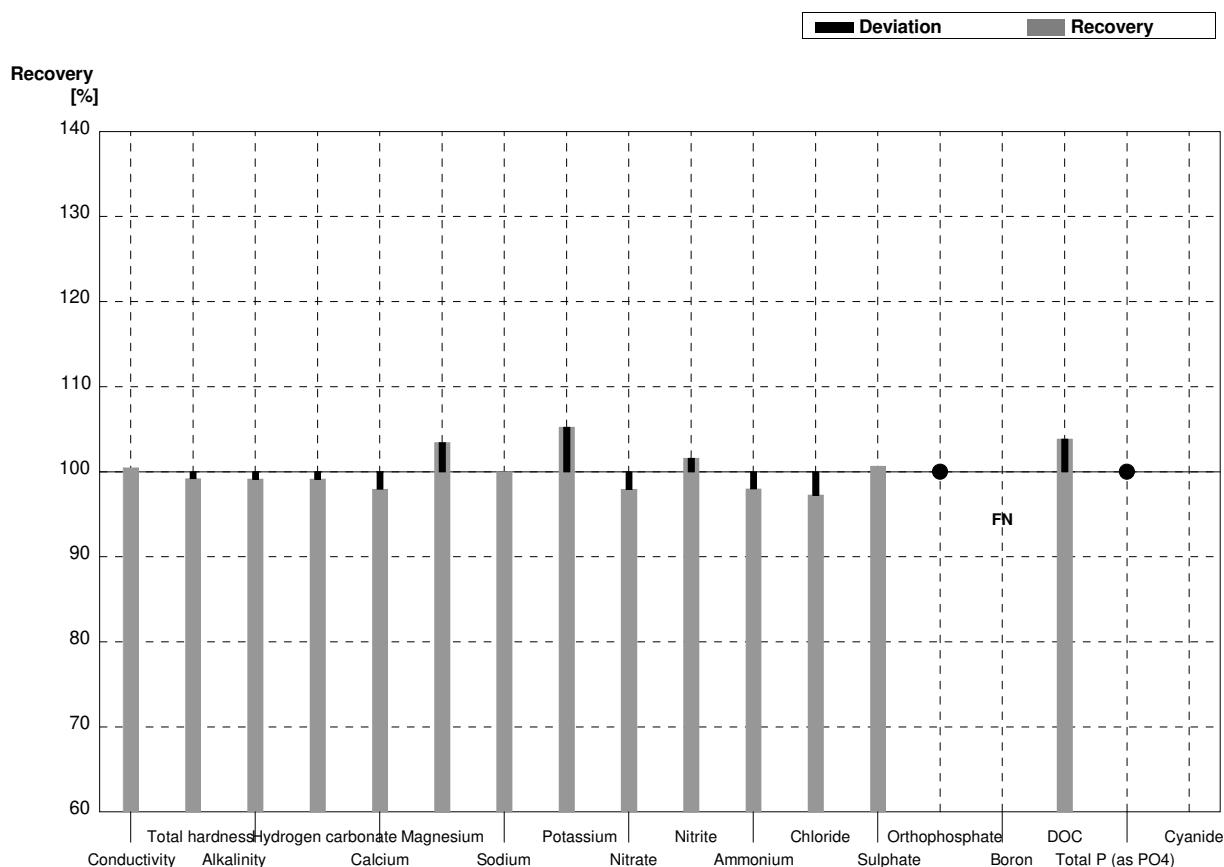
**Sample N158A**  
**Laboratory Al**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2	492	5	$\mu\text{S}/\text{cm}$	101%
Total hardness	2,04	0,02	2,04	0,2	$\text{mmol/l}$	100%
Alkalinity	1,71	0,02	1,69	0,17	$\text{mmol/l}$	99%
Hydrogen carbonate	101	1	100,1	10	$\text{mg/l}$	99%
Calcium	57,9	0,7	57,6	11,5	$\text{mg/l}$	99%
Magnesium	14,5	0,2	14,6	2,9	$\text{mg/l}$	101%
Sodium	11,7	0,3	11,7	1,8	$\text{mg/l}$	100%
Potassium	2,30	0,04	2,29	0,46	$\text{mg/l}$	100%
Nitrate	39,9	0,6	39,2	3,9	$\text{mg/l}$	98%
Nitrite	0,0468	0,0010	0,0466	0,0111	$\text{mg/l}$	100%
Ammonium	0,0251	0,0044	0,0256	0,0045	$\text{mg/l}$	102%
Chloride	47,6	0,9	46,6	4,7	$\text{mg/l}$	98%
Sulphate	45,3	0,5	45,0	4,5	$\text{mg/l}$	99%
Orthophosphate	0,132	0,001	0,131	0,027	$\text{mg/l}$	99%
Boron	0,0431	0,0002	0,0324	0,0081	$\text{mg/l}$	75%
DOC	5,62	0,03	5,59	0,56	$\text{mg/l}$	99%
Total P (as PO <sub>4</sub> )	0,184	0,001	0,182	0,037	$\text{mg/l}$	99%
Cyanide	0,0469	0,0003			$\text{mg/l}$	



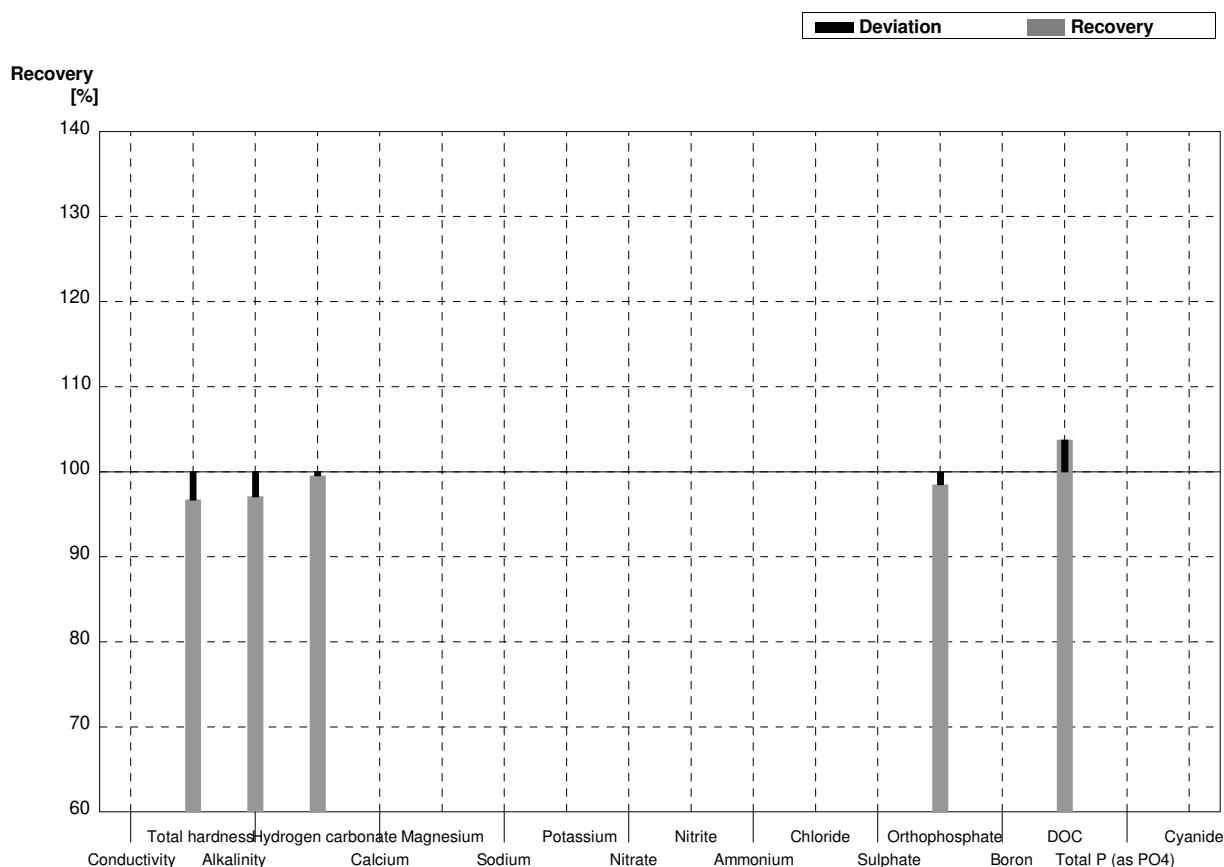
**Sample N158B**  
**Laboratory AI**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1	437	5	$\mu\text{S}/\text{cm}$	100%
Total hardness	1,25	0,02	1,24	0,1	$\text{mmol/l}$	99%
Alkalinity	1,19	0,01	1,18	0,12	$\text{mmol/l}$	99%
Hydrogen carbonate	69,5	0,4	68,9	7	$\text{mg/l}$	99%
Calcium	39,4	0,6	38,6	7,7	$\text{mg/l}$	98%
Magnesium	6,41	0,09	6,63	1,3	$\text{mg/l}$	103%
Sodium	32,5	0,2	32,5	4,9	$\text{mg/l}$	100%
Potassium	5,52	0,04	5,81	1,2	$\text{mg/l}$	105%
Nitrate	73,3	1,7	71,8	7,2	$\text{mg/l}$	98%
Nitrite	0,063	0,003	0,0640	0,0153	$\text{mg/l}$	102%
Ammonium	0,070	0,003	0,0686	0,0121	$\text{mg/l}$	98%
Chloride	14,7	0,3	14,3	1,4	$\text{mg/l}$	97%
Sulphate	62,6	0,4	63,0	6,3	$\text{mg/l}$	101%
Orthophosphate	<0,009		<0,015		$\text{mg/l}$	•
Boron	0,0244	0,0001	<0,020		$\text{mg/l}$	FN
DOC	1,56	0,01	1,62	0,16	$\text{mg/l}$	104%
Total P (as PO <sub>4</sub> )	<0,009		<0,015		$\text{mg/l}$	•
Cyanide	0,0165	0,0001			$\text{mg/l}$	



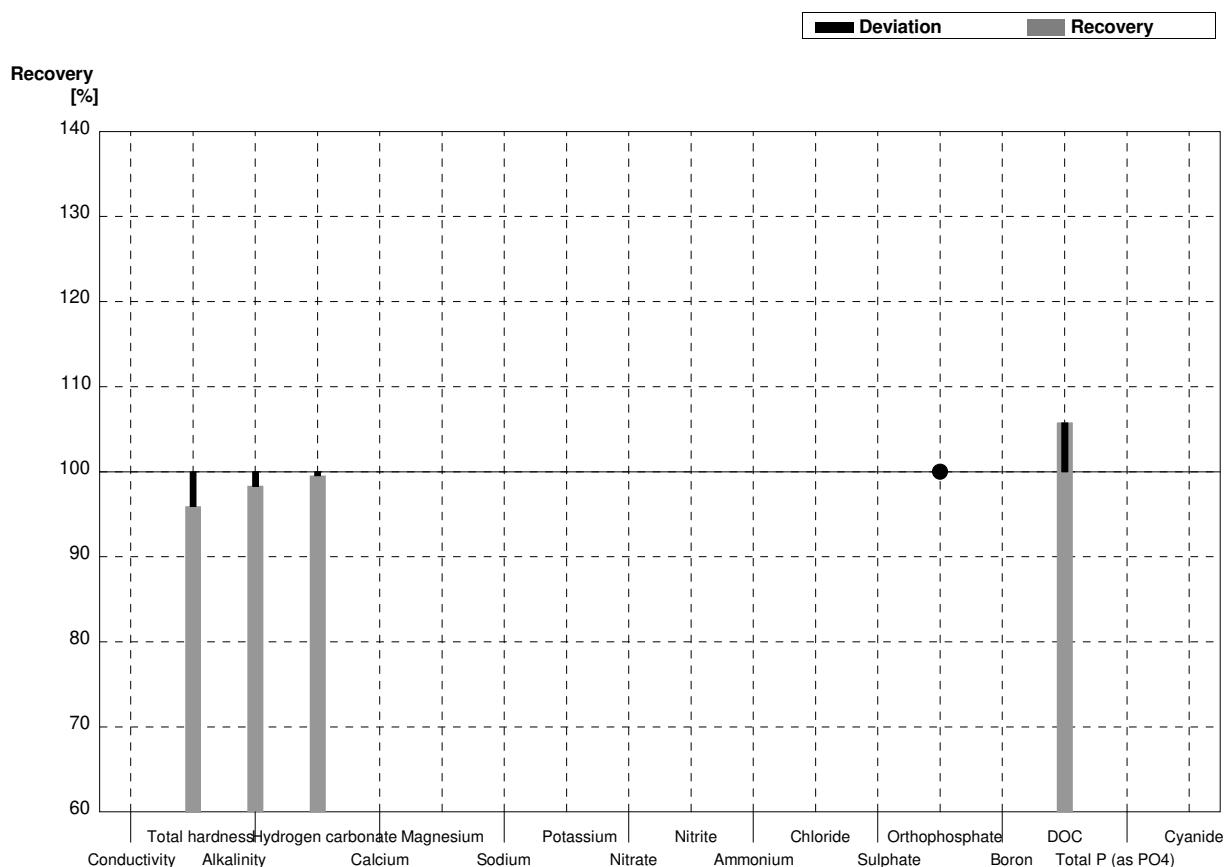
**Sample N158A**  
**Laboratory AJ**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	489	2			µS/cm	
Total hardness	2,04	0,02	1,973	0,19	mmol/l	97%
Alkalinity	1,71	0,02	1,66	0,15	mmol/l	97%
Hydrogen carbonate	101	1	100,55	10	mg/l	100%
Calcium	57,9	0,7			mg/l	
Magnesium	14,5	0,2			mg/l	
Sodium	11,7	0,3			mg/l	
Potassium	2,30	0,04			mg/l	
Nitrate	39,9	0,6			mg/l	
Nitrite	0,0468	0,0010			mg/l	
Ammonium	0,0251	0,0044			mg/l	
Chloride	47,6	0,9			mg/l	
Sulphate	45,3	0,5			mg/l	
Orthophosphate	0,132	0,001	0,130	0,013	mg/l	98%
Boron	0,0431	0,0002			mg/l	
DOC	5,62	0,03	5,83	0,5	mg/l	104%
Total P (as PO <sub>4</sub> )	0,184	0,001			mg/l	
Cyanide	0,0469	0,0003			mg/l	



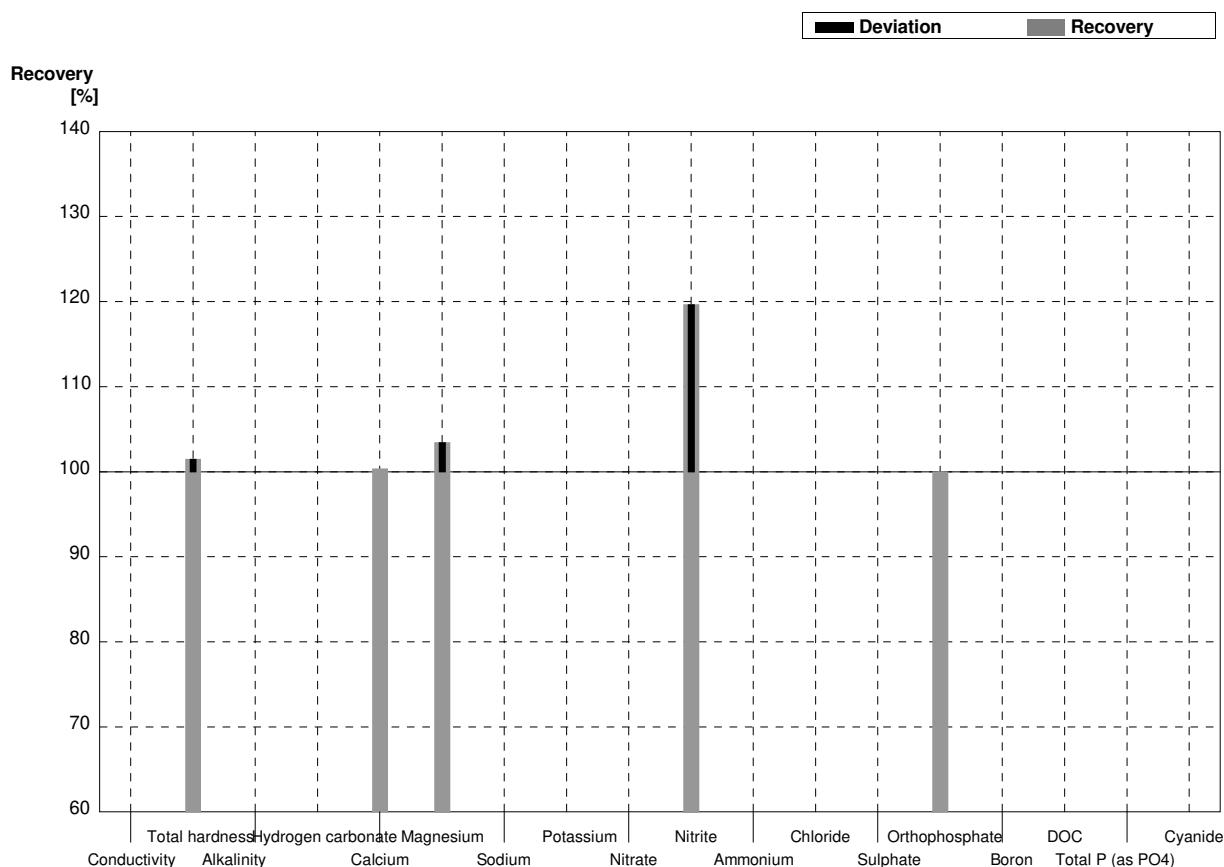
**Sample N158B**  
**Laboratory AJ**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1			$\mu\text{S}/\text{cm}$	
Total hardness	1,25	0,02	1,199	0,12	mmol/l	96%
Alkalinity	1,19	0,01	1,17	0,11	mmol/l	98%
Hydrogen carbonate	69,5	0,4	69,19	7	mg/l	100%
Calcium	39,4	0,6			mg/l	
Magnesium	6,41	0,09			mg/l	
Sodium	32,5	0,2			mg/l	
Potassium	5,52	0,04			mg/l	
Nitrate	73,3	1,7			mg/l	
Nitrite	0,063	0,003			mg/l	
Ammonium	0,070	0,003			mg/l	
Chloride	14,7	0,3			mg/l	
Sulphate	62,6	0,4			mg/l	
Orthophosphate	<0,009		<0,031		mg/l	•
Boron	0,0244	0,0001			mg/l	
DOC	1,56	0,01	1,65	0,15	mg/l	106%
Total P (as PO <sub>4</sub> )	<0,009				mg/l	
Cyanide	0,0165	0,0001			mg/l	



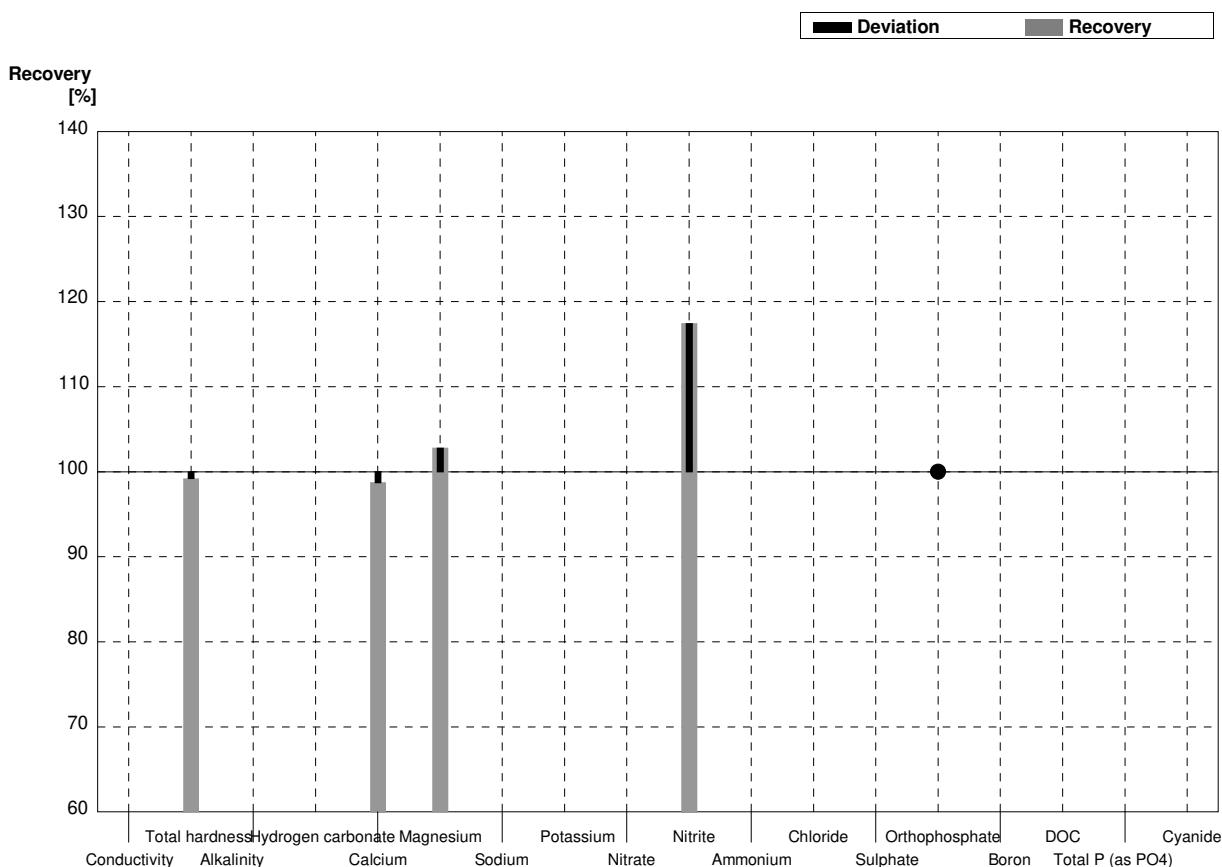
**Sample N158A**  
**Laboratory AK**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2			$\mu\text{S}/\text{cm}$	
Total hardness	2,04	0,02	2,07	0,060	mmol/l	101%
Alkalinity	1,71	0,02			mmol/l	
Hydrogen carbonate	101	1			mg/l	
Calcium	57,9	0,7	58,1	4,31	mg/l	100%
Magnesium	14,5	0,2	15,0	0,88	mg/l	103%
Sodium	11,7	0,3			mg/l	
Potassium	2,30	0,04			mg/l	
Nitrate	39,9	0,6			mg/l	
Nitrite	0,0468	0,0010	0,056	0,008	mg/l	120%
Ammonium	0,0251	0,0044			mg/l	
Chloride	47,6	0,9			mg/l	
Sulphate	45,3	0,5			mg/l	
Orthophosphate	0,132	0,001	0,132	0,021	mg/l	100%
Boron	0,0431	0,0002			mg/l	
DOC	5,62	0,03			mg/l	
Total P (as PO <sub>4</sub> )	0,184	0,001			mg/l	
Cyanide	0,0469	0,0003			mg/l	



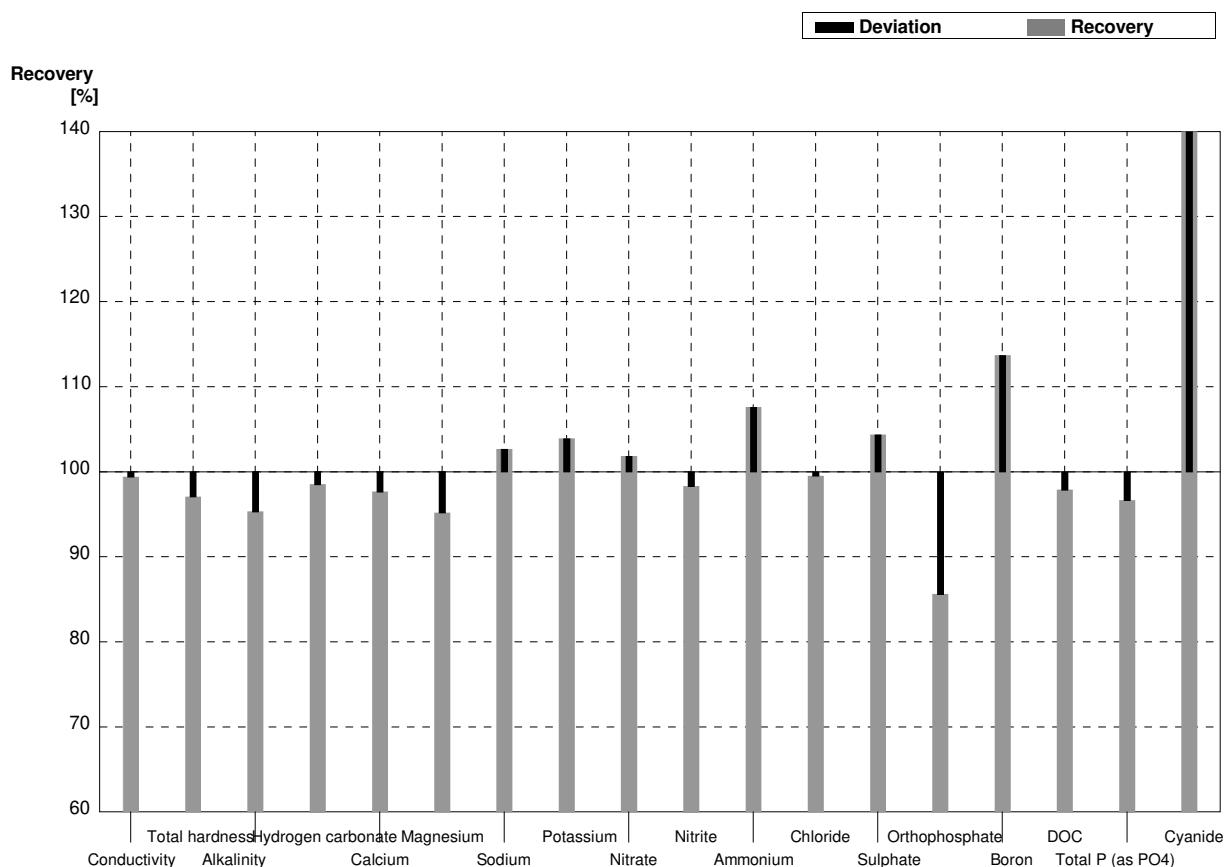
**Sample N158B**  
**Laboratory AK**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1			$\mu\text{S}/\text{cm}$	
Total hardness	1,25	0,02	1,24	0,037	mmol/l	99%
Alkalinity	1,19	0,01			mmol/l	
Hydrogen carbonate	69,5	0,4			mg/l	
Calcium	39,4	0,6	38,9	6,51	mg/l	99%
Magnesium	6,41	0,09	6,59	0,47	mg/l	103%
Sodium	32,5	0,2			mg/l	
Potassium	5,52	0,04			mg/l	
Nitrate	73,3	1,7			mg/l	
Nitrite	0,063	0,003	0,074	0,011	mg/l	117%
Ammonium	0,070	0,003			mg/l	
Chloride	14,7	0,3			mg/l	
Sulphate	62,6	0,4			mg/l	
Orthophosphate	<0,009		<0,01		mg/l	•
Boron	0,0244	0,0001			mg/l	
DOC	1,56	0,01			mg/l	
Total P (as PO <sub>4</sub> )	<0,009				mg/l	
Cyanide	0,0165	0,0001			mg/l	



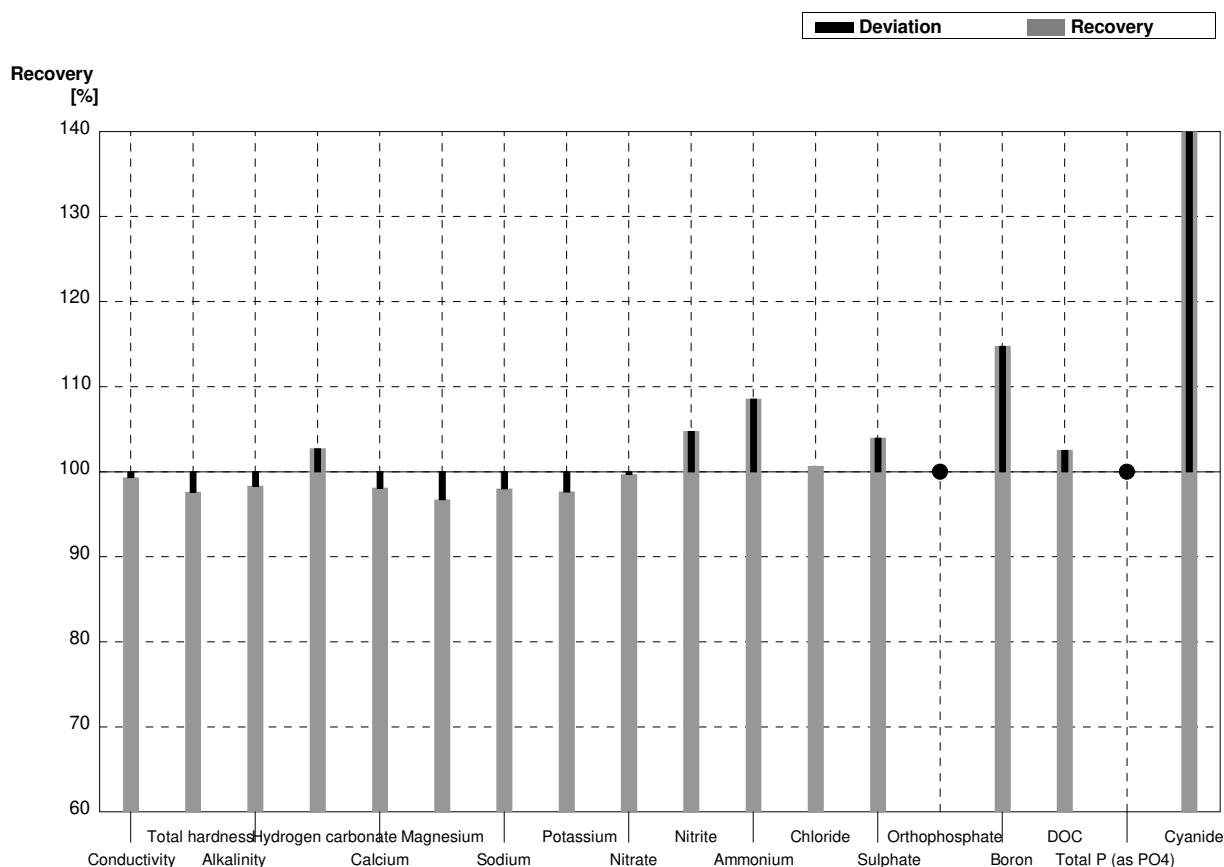
**Sample N158A**  
**Laboratory AL**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2	486,000	19,4000	$\mu\text{S}/\text{cm}$	99%
Total hardness	2,04	0,02	1,98		$\text{mmol/l}$	97%
Alkalinity	1,71	0,02	1,6300	0,24500	$\text{mmol/l}$	95%
Hydrogen carbonate	101	1	99,5000	14,9200	$\text{mg/l}$	99%
Calcium	57,9	0,7	56,54	5,654	$\text{mg/l}$	98%
Magnesium	14,5	0,2	13,80	1,380	$\text{mg/l}$	95%
Sodium	11,7	0,3	12,01	1,201	$\text{mg/l}$	103%
Potassium	2,30	0,04	2,39	0,239	$\text{mg/l}$	104%
Nitrate	39,9	0,6	40,629	1,6252	$\text{mg/l}$	102%
Nitrite	0,0468	0,0010	0,04600	0,00370	$\text{mg/l}$	98%
Ammonium	0,0251	0,0044	0,02700	0,00270	$\text{mg/l}$	108%
Chloride	47,6	0,9	47,36	2,368	$\text{mg/l}$	99%
Sulphate	45,3	0,5	47,26	2,363	$\text{mg/l}$	104%
Orthophosphate	0,132	0,001	0,11300	0,01360	$\text{mg/l}$	86%
Boron	0,0431	0,0002	0,04900	0,00590	$\text{mg/l}$	114%
DOC	5,62	0,03	5,500	0,44000	$\text{mg/l}$	98%
Total P (as PO <sub>4</sub> )	0,184	0,001	0,17783	0,02667	$\text{mg/l}$	97%
Cyanide	0,0469	0,0003	48,2900	4,82900	$\text{mg/l}$	102964%



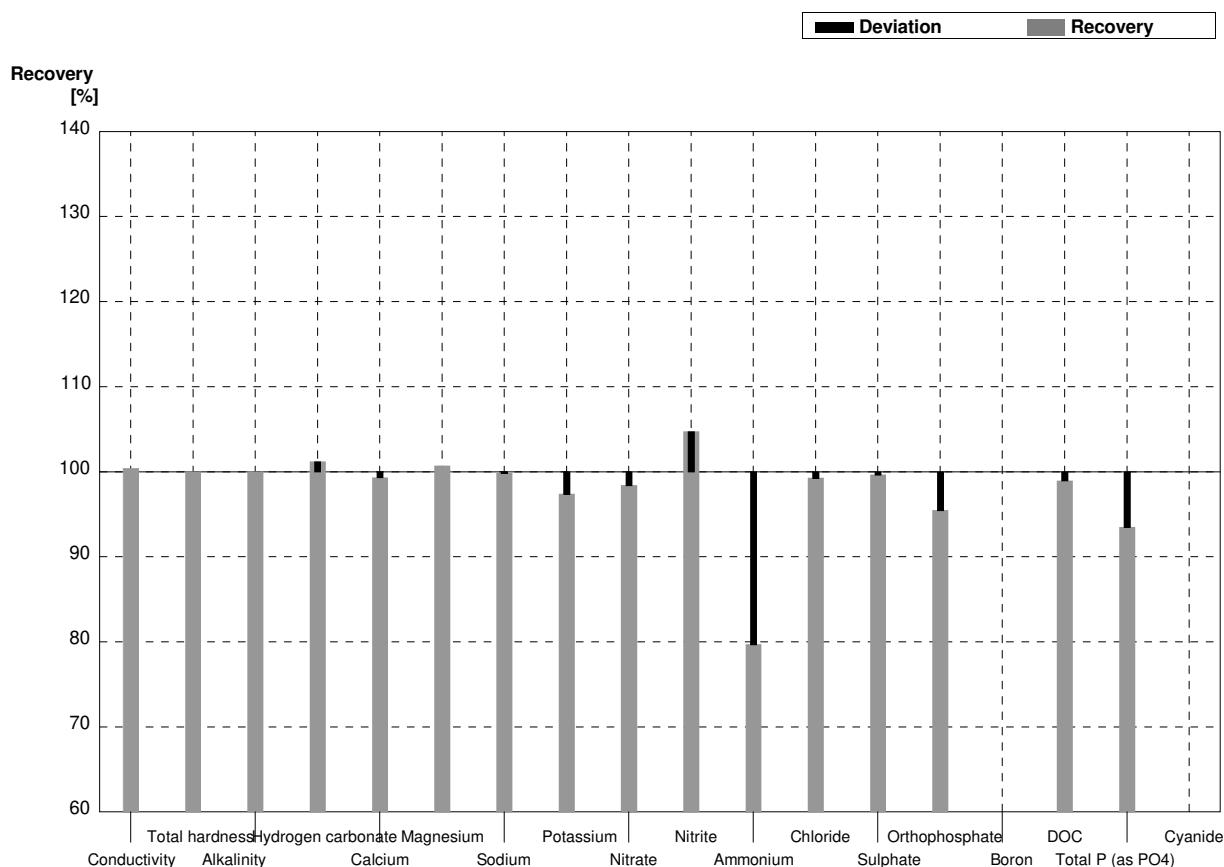
**Sample N158B**  
**Laboratory AL**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1	432,000	17,3000	$\mu\text{S}/\text{cm}$	99%
Total hardness	1,25	0,02	1,22		$\text{mmol/l}$	98%
Alkalinity	1,19	0,01	1,17000	0,17600	$\text{mmol/l}$	98%
Hydrogen carbonate	69,5	0,4	71,4000	10,7100	$\text{mg/l}$	103%
Calcium	39,4	0,6	38,65	3,865	$\text{mg/l}$	98%
Magnesium	6,41	0,09	6,20	0,620	$\text{mg/l}$	97%
Sodium	32,5	0,2	31,85	3,185	$\text{mg/l}$	98%
Potassium	5,52	0,04	5,39	0,539	$\text{mg/l}$	98%
Nitrate	73,3	1,7	73,069	2,9228	$\text{mg/l}$	100%
Nitrite	0,063	0,003	0,06600	0,00530	$\text{mg/l}$	105%
Ammonium	0,070	0,003	0,07600	0,00760	$\text{mg/l}$	109%
Chloride	14,7	0,3	14,80	0,740	$\text{mg/l}$	101%
Sulphate	62,6	0,4	65,08	3,254	$\text{mg/l}$	104%
Orthophosphate	<0,009		0,00900	0,00110	$\text{mg/l}$	•
Boron	0,0244	0,0001	0,02800	0,00340	$\text{mg/l}$	115%
DOC	1,56	0,01	1,600	0,13000	$\text{mg/l}$	103%
Total P (as PO <sub>4</sub> )	<0,009		<0,0153		$\text{mg/l}$	•
Cyanide	0,0165	0,0001	17,7600	1,77600	$\text{mg/l}$	107636%



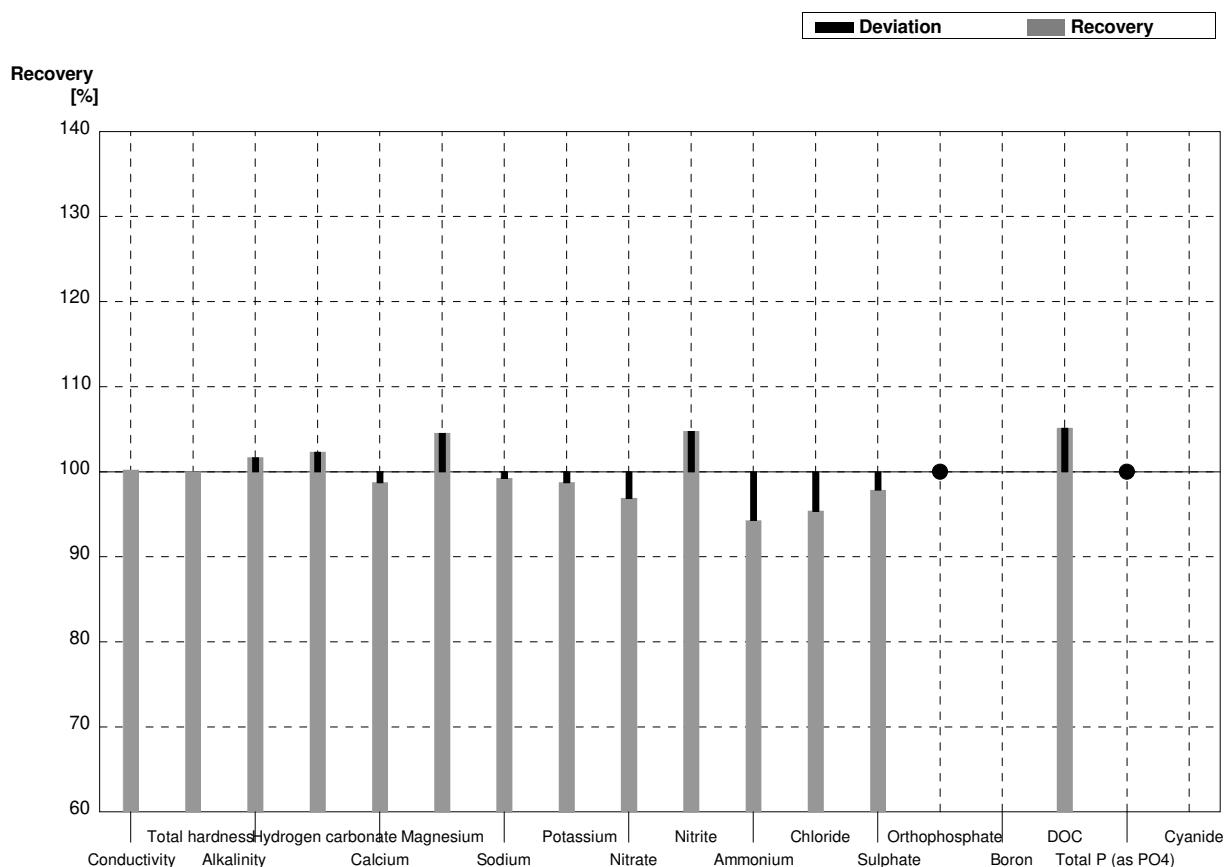
**Sample N158A**  
**Laboratory AM**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2	491		$\mu\text{S}/\text{cm}$	100%
Total hardness	2,04	0,02	2,04		$\text{mmol/l}$	100%
Alkalinity	1,71	0,02	1,71		$\text{mmol/l}$	100%
Hydrogen carbonate	101	1	102,2		$\text{mg/l}$	101%
Calcium	57,9	0,7	57,5		$\text{mg/l}$	99%
Magnesium	14,5	0,2	14,6		$\text{mg/l}$	101%
Sodium	11,7	0,3	11,68		$\text{mg/l}$	100%
Potassium	2,30	0,04	2,24		$\text{mg/l}$	97%
Nitrate	39,9	0,6	39,26		$\text{mg/l}$	98%
Nitrite	0,0468	0,0010	0,0490		$\text{mg/l}$	105%
Ammonium	0,0251	0,0044	0,0200		$\text{mg/l}$	80%
Chloride	47,6	0,9	47,24		$\text{mg/l}$	99%
Sulphate	45,3	0,5	45,14		$\text{mg/l}$	100%
Orthophosphate	0,132	0,001	0,126		$\text{mg/l}$	95%
Boron	0,0431	0,0002			$\text{mg/l}$	
DOC	5,62	0,03	5,56		$\text{mg/l}$	99%
Total P (as PO <sub>4</sub> )	0,184	0,001	0,172		$\text{mg/l}$	93%
Cyanide	0,0469	0,0003			$\text{mg/l}$	



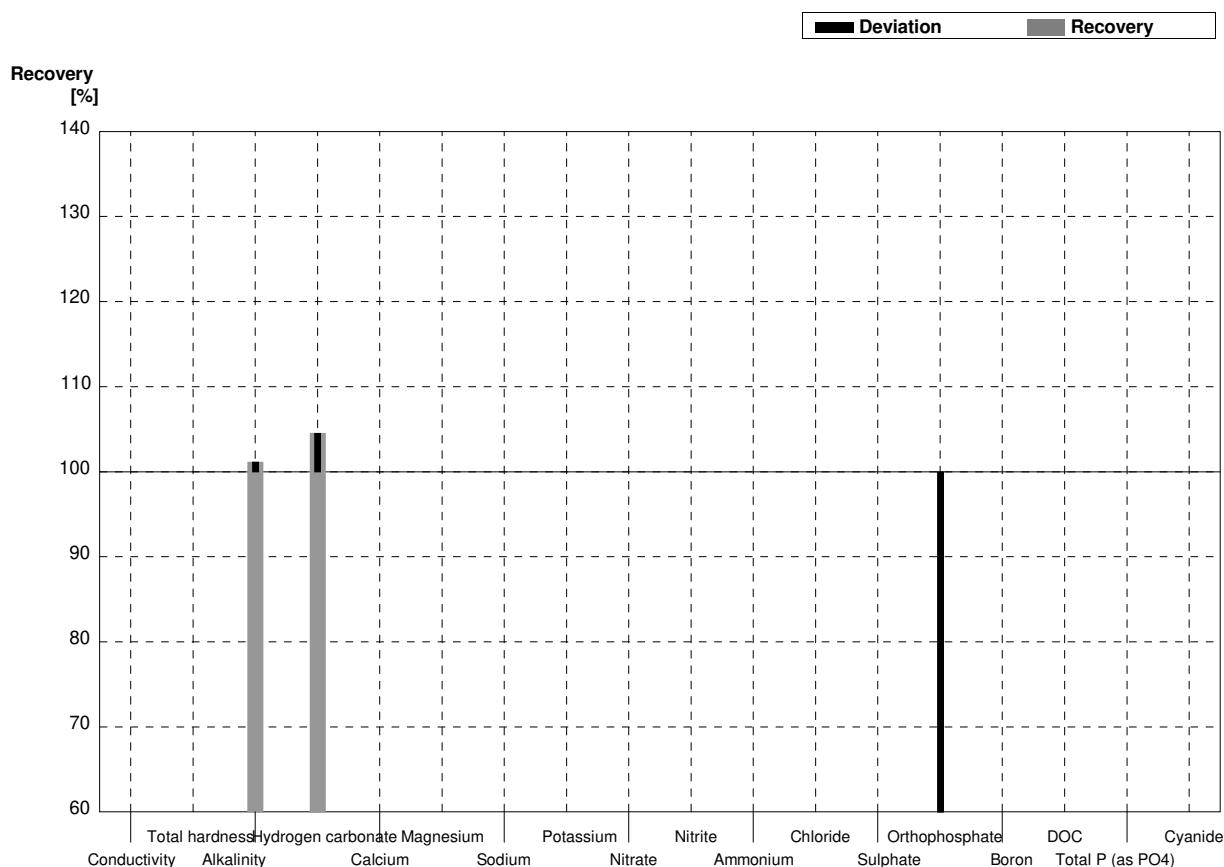
**Sample N158B**  
**Laboratory AM**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1	436		$\mu\text{S}/\text{cm}$	100%
Total hardness	1,25	0,02	1,25		$\text{mmol/l}$	100%
Alkalinity	1,19	0,01	1,21		$\text{mmol/l}$	102%
Hydrogen carbonate	69,5	0,4	71,1		$\text{mg/l}$	102%
Calcium	39,4	0,6	38,9		$\text{mg/l}$	99%
Magnesium	6,41	0,09	6,7		$\text{mg/l}$	105%
Sodium	32,5	0,2	32,25		$\text{mg/l}$	99%
Potassium	5,52	0,04	5,45		$\text{mg/l}$	99%
Nitrate	73,3	1,7	71,03		$\text{mg/l}$	97%
Nitrite	0,063	0,003	0,0660		$\text{mg/l}$	105%
Ammonium	0,070	0,003	0,0660		$\text{mg/l}$	94%
Chloride	14,7	0,3	14,02		$\text{mg/l}$	95%
Sulphate	62,6	0,4	61,26		$\text{mg/l}$	98%
Orthophosphate	<0,009		<0,009		$\text{mg/l}$	•
Boron	0,0244	0,0001			$\text{mg/l}$	
DOC	1,56	0,01	1,64		$\text{mg/l}$	105%
Total P (as PO <sub>4</sub> )	<0,009		<0,009		$\text{mg/l}$	•
Cyanide	0,0165	0,0001			$\text{mg/l}$	



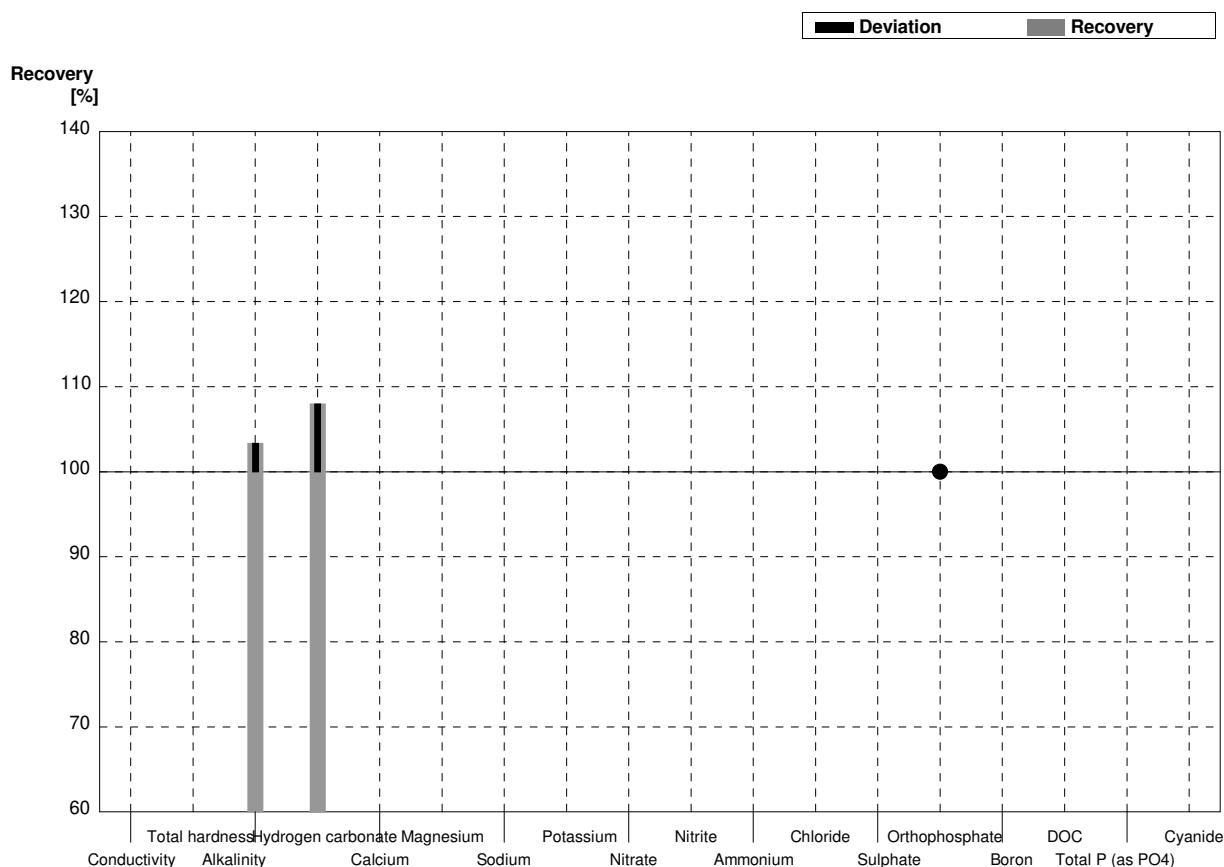
**Sample N158A**  
**Laboratory AN**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	489	2			µS/cm	
Total hardness	2,04	0,02			mmol/l	
Alkalinity	1,71	0,02	1,73		mmol/l	101%
Hydrogen carbonate	101	1	105,6		mg/l	105%
Calcium	57,9	0,7			mg/l	
Magnesium	14,5	0,2			mg/l	
Sodium	11,7	0,3			mg/l	
Potassium	2,30	0,04			mg/l	
Nitrate	39,9	0,6			mg/l	
Nitrite	0,0468	0,0010			mg/l	
Ammonium	0,0251	0,0044			mg/l	
Chloride	47,6	0,9			mg/l	
Sulphate	45,3	0,5			mg/l	
Orthophosphate	0,132	0,001	0,064		mg/l	48%
Boron	0,0431	0,0002			mg/l	
DOC	5,62	0,03			mg/l	
Total P (as PO <sub>4</sub> )	0,184	0,001			mg/l	
Cyanide	0,0469	0,0003			mg/l	



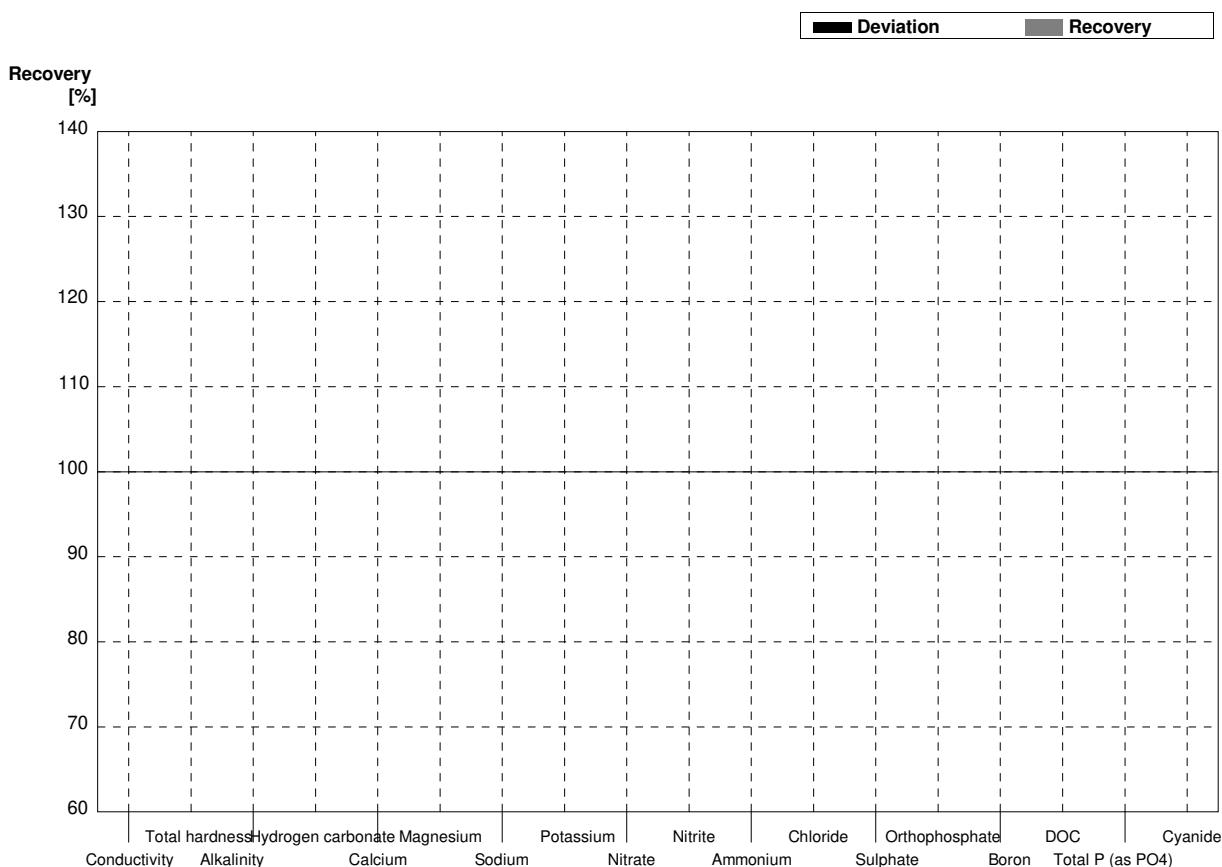
**Sample N158B**  
**Laboratory AN**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1			$\mu\text{S}/\text{cm}$	
Total hardness	1,25	0,02			$\text{mmol/l}$	
Alkalinity	1,19	0,01	1,23		$\text{mmol/l}$	103%
Hydrogen carbonate	69,5	0,4	75,05		$\text{mg/l}$	108%
Calcium	39,4	0,6			$\text{mg/l}$	
Magnesium	6,41	0,09			$\text{mg/l}$	
Sodium	32,5	0,2			$\text{mg/l}$	
Potassium	5,52	0,04			$\text{mg/l}$	
Nitrate	73,3	1,7			$\text{mg/l}$	
Nitrite	0,063	0,003			$\text{mg/l}$	
Ammonium	0,070	0,003			$\text{mg/l}$	
Chloride	14,7	0,3			$\text{mg/l}$	
Sulphate	62,6	0,4			$\text{mg/l}$	
Orthophosphate	<0,009		<0,096		$\text{mg/l}$	•
Boron	0,0244	0,0001			$\text{mg/l}$	
DOC	1,56	0,01			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	<0,009				$\text{mg/l}$	
Cyanide	0,0165	0,0001			$\text{mg/l}$	



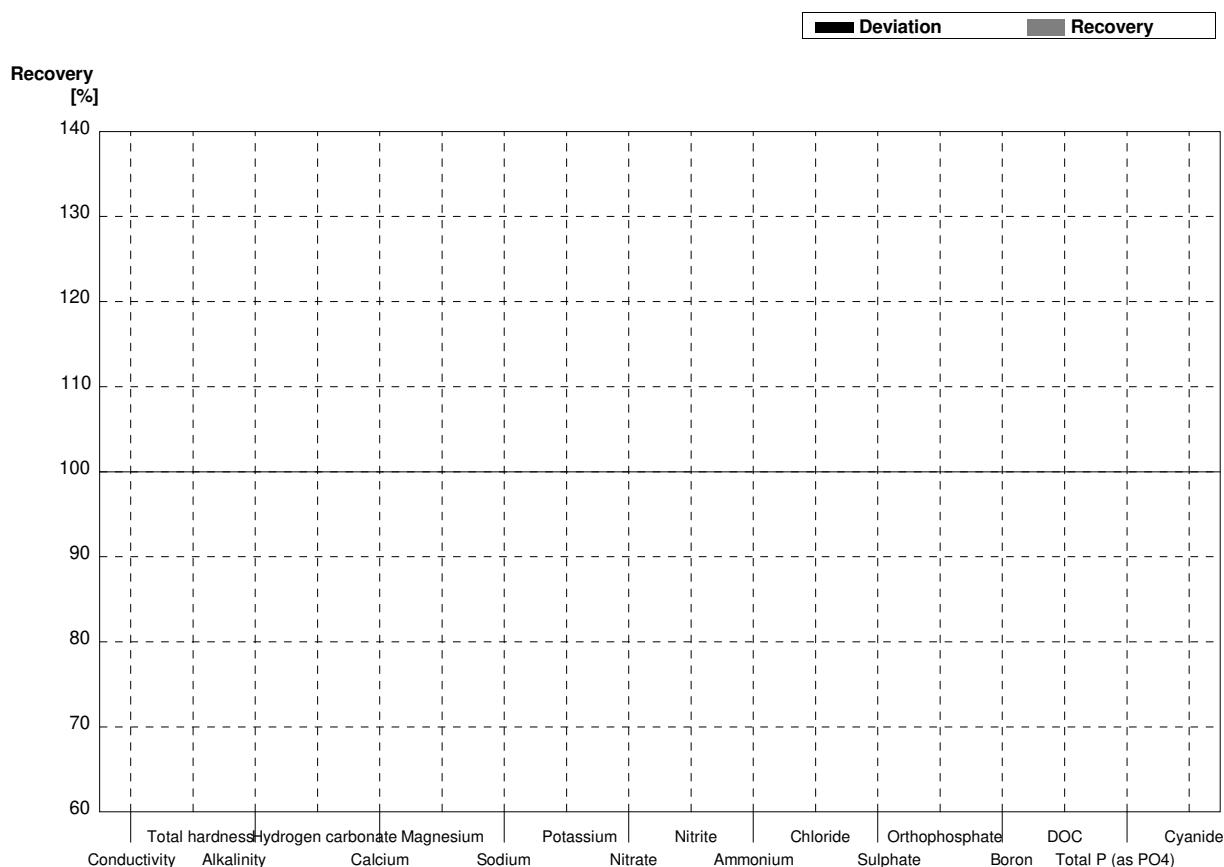
**Sample N158A**  
**Laboratory AO**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2			$\mu\text{S}/\text{cm}$	
Total hardness	2,04	0,02			$\text{mmol/l}$	
Alkalinity	1,71	0,02			$\text{mmol/l}$	
Hydrogen carbonate	101	1			$\text{mg/l}$	
Calcium	57,9	0,7			$\text{mg/l}$	
Magnesium	14,5	0,2			$\text{mg/l}$	
Sodium	11,7	0,3			$\text{mg/l}$	
Potassium	2,30	0,04			$\text{mg/l}$	
Nitrate	39,9	0,6			$\text{mg/l}$	
Nitrite	0,0468	0,0010			$\text{mg/l}$	
Ammonium	0,0251	0,0044			$\text{mg/l}$	
Chloride	47,6	0,9			$\text{mg/l}$	
Sulphate	45,3	0,5			$\text{mg/l}$	
Orthophosphate	0,132	0,001			$\text{mg/l}$	
Boron	0,0431	0,0002			$\text{mg/l}$	
DOC	5,62	0,03			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	0,184	0,001			$\text{mg/l}$	
Cyanide	0,0469	0,0003			$\text{mg/l}$	



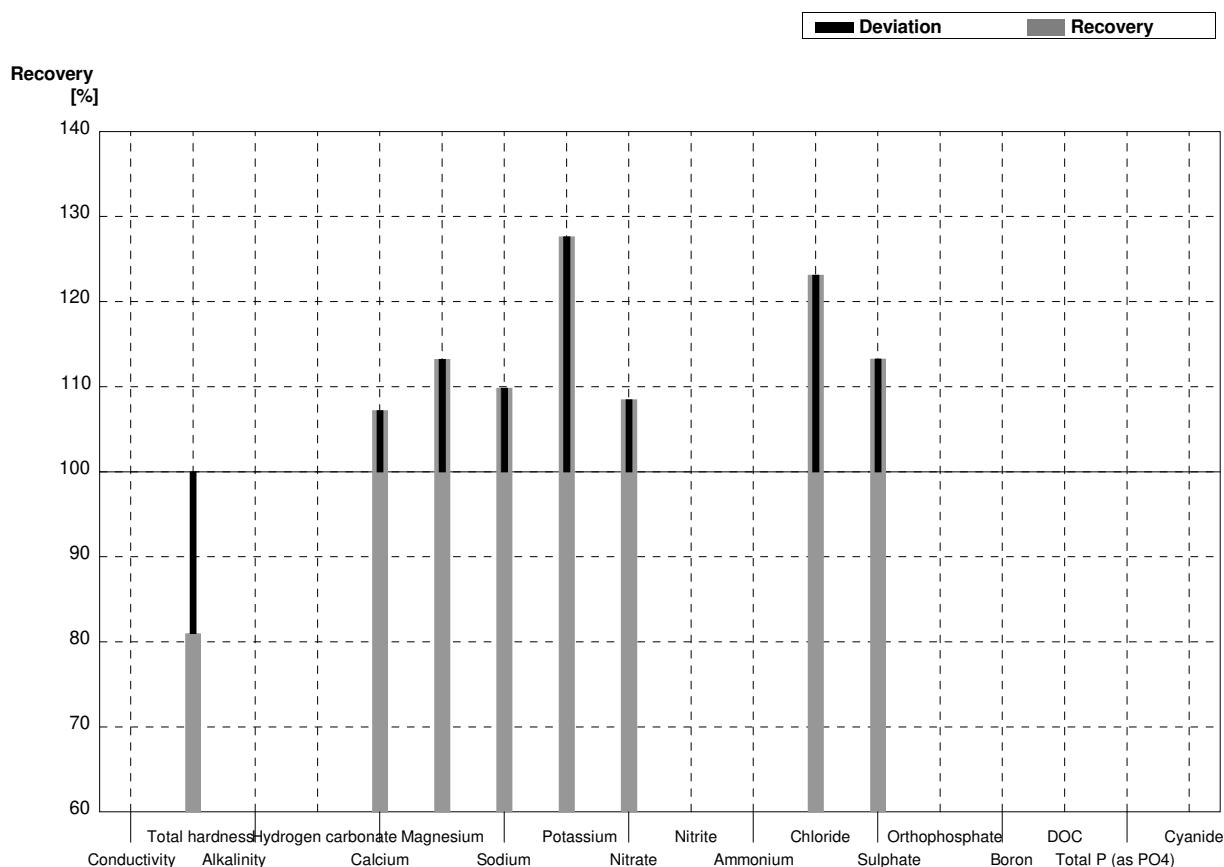
**Sample N158B**  
**Laboratory AO**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1			$\mu\text{S}/\text{cm}$	
Total hardness	1,25	0,02			$\text{mmol/l}$	
Alkalinity	1,19	0,01			$\text{mmol/l}$	
Hydrogen carbonate	69,5	0,4			$\text{mg/l}$	
Calcium	39,4	0,6			$\text{mg/l}$	
Magnesium	6,41	0,09			$\text{mg/l}$	
Sodium	32,5	0,2			$\text{mg/l}$	
Potassium	5,52	0,04			$\text{mg/l}$	
Nitrate	73,3	1,7			$\text{mg/l}$	
Nitrite	0,063	0,003			$\text{mg/l}$	
Ammonium	0,070	0,003			$\text{mg/l}$	
Chloride	14,7	0,3			$\text{mg/l}$	
Sulphate	62,6	0,4			$\text{mg/l}$	
Orthophosphate	<0,009				$\text{mg/l}$	
Boron	0,0244	0,0001			$\text{mg/l}$	
DOC	1,56	0,01			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	<0,009				$\text{mg/l}$	
Cyanide	0,0165	0,0001			$\text{mg/l}$	



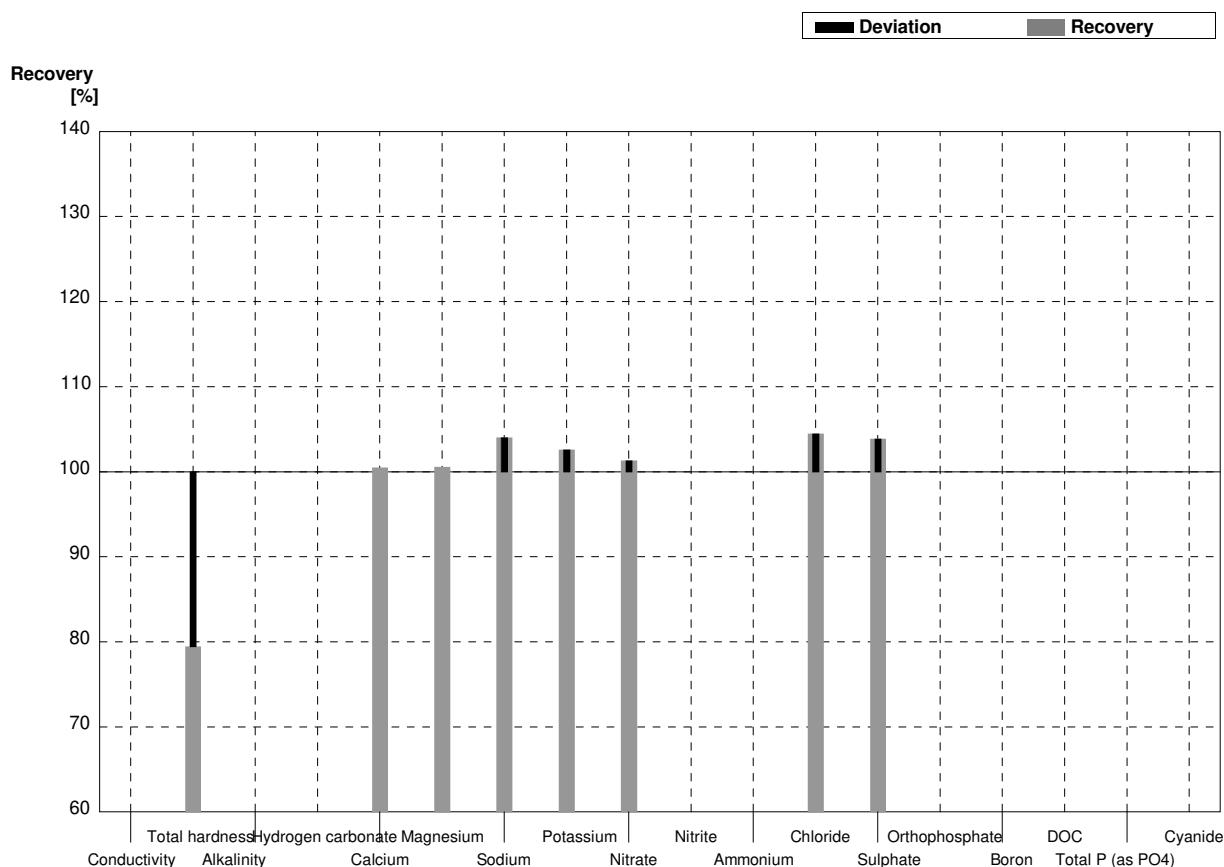
**Sample N158A**  
**Laboratory AP**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2			$\mu\text{S}/\text{cm}$	
Total hardness	2,04	0,02	1,652		$\text{mmol/l}$	81%
Alkalinity	1,71	0,02			$\text{mmol/l}$	
Hydrogen carbonate	101	1			$\text{mg/l}$	
Calcium	57,9	0,7	62,082	6,208	$\text{mg/l}$	107%
Magnesium	14,5	0,2	16,420	1,642	$\text{mg/l}$	113%
Sodium	11,7	0,3	12,853	1,285	$\text{mg/l}$	110%
Potassium	2,30	0,04	2,936	0,294	$\text{mg/l}$	128%
Nitrate	39,9	0,6	43,281	8,656	$\text{mg/l}$	108%
Nitrite	0,0468	0,0010			$\text{mg/l}$	
Ammonium	0,0251	0,0044			$\text{mg/l}$	
Chloride	47,6	0,9	58,610	8,791	$\text{mg/l}$	123%
Sulphate	45,3	0,5	51,320	10,264	$\text{mg/l}$	113%
Orthophosphate	0,132	0,001			$\text{mg/l}$	
Boron	0,0431	0,0002			$\text{mg/l}$	
DOC	5,62	0,03			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	0,184	0,001			$\text{mg/l}$	
Cyanide	0,0469	0,0003			$\text{mg/l}$	



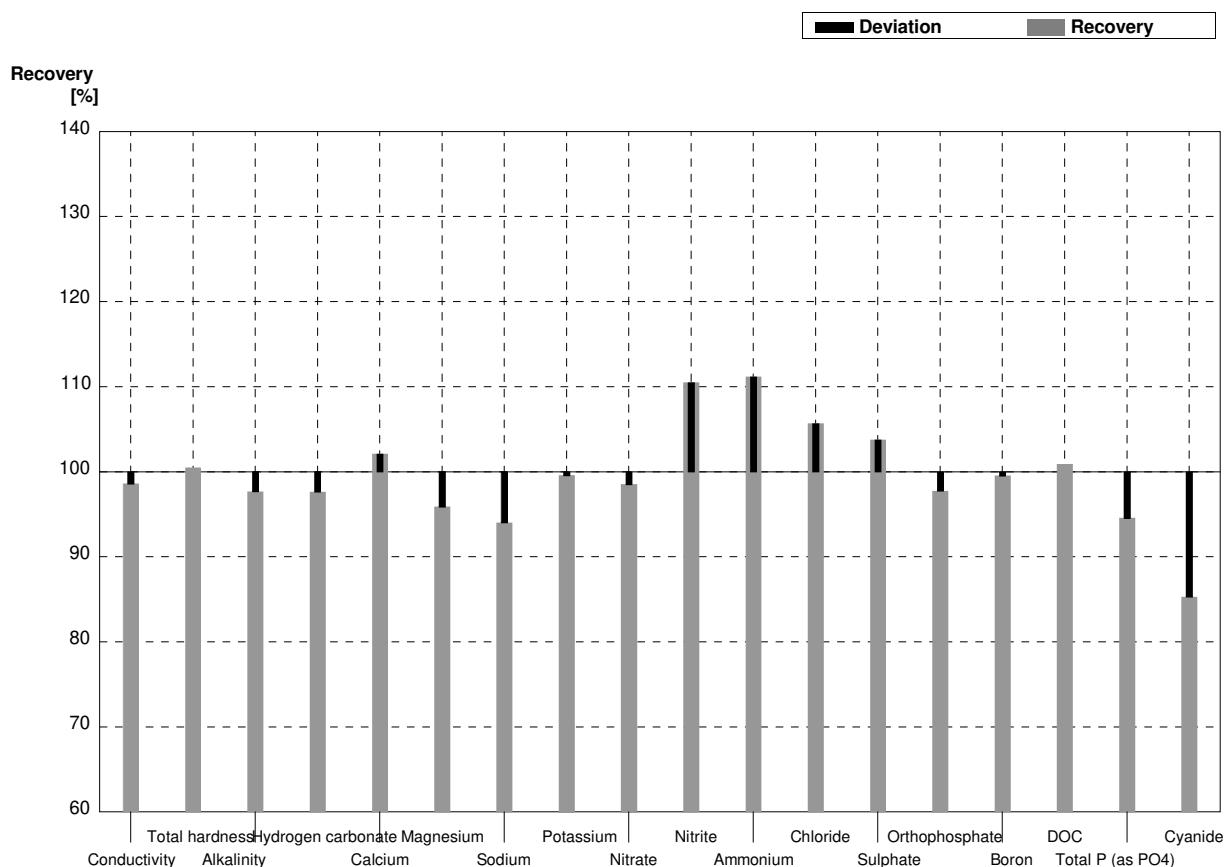
**Sample N158B**  
**Laboratory AP**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1			$\mu\text{S}/\text{cm}$	
Total hardness	1,25	0,02	0,993		$\text{mmol/l}$	79%
Alkalinity	1,19	0,01			$\text{mmol/l}$	
Hydrogen carbonate	69,5	0,4			$\text{mg/l}$	
Calcium	39,4	0,6	39,582	3,958	$\text{mg/l}$	100%
Magnesium	6,41	0,09	6,444	0,644	$\text{mg/l}$	101%
Sodium	32,5	0,2	33,803	3,380	$\text{mg/l}$	104%
Potassium	5,52	0,04	5,663	0,566	$\text{mg/l}$	103%
Nitrate	73,3	1,7	74,257	14,851	$\text{mg/l}$	101%
Nitrite	0,063	0,003			$\text{mg/l}$	
Ammonium	0,070	0,003			$\text{mg/l}$	
Chloride	14,7	0,3	15,358	2,304	$\text{mg/l}$	104%
Sulphate	62,6	0,4	65,026	13,005	$\text{mg/l}$	104%
Orthophosphate	<0,009				$\text{mg/l}$	
Boron	0,0244	0,0001			$\text{mg/l}$	
DOC	1,56	0,01			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	<0,009				$\text{mg/l}$	
Cyanide	0,0165	0,0001			$\text{mg/l}$	



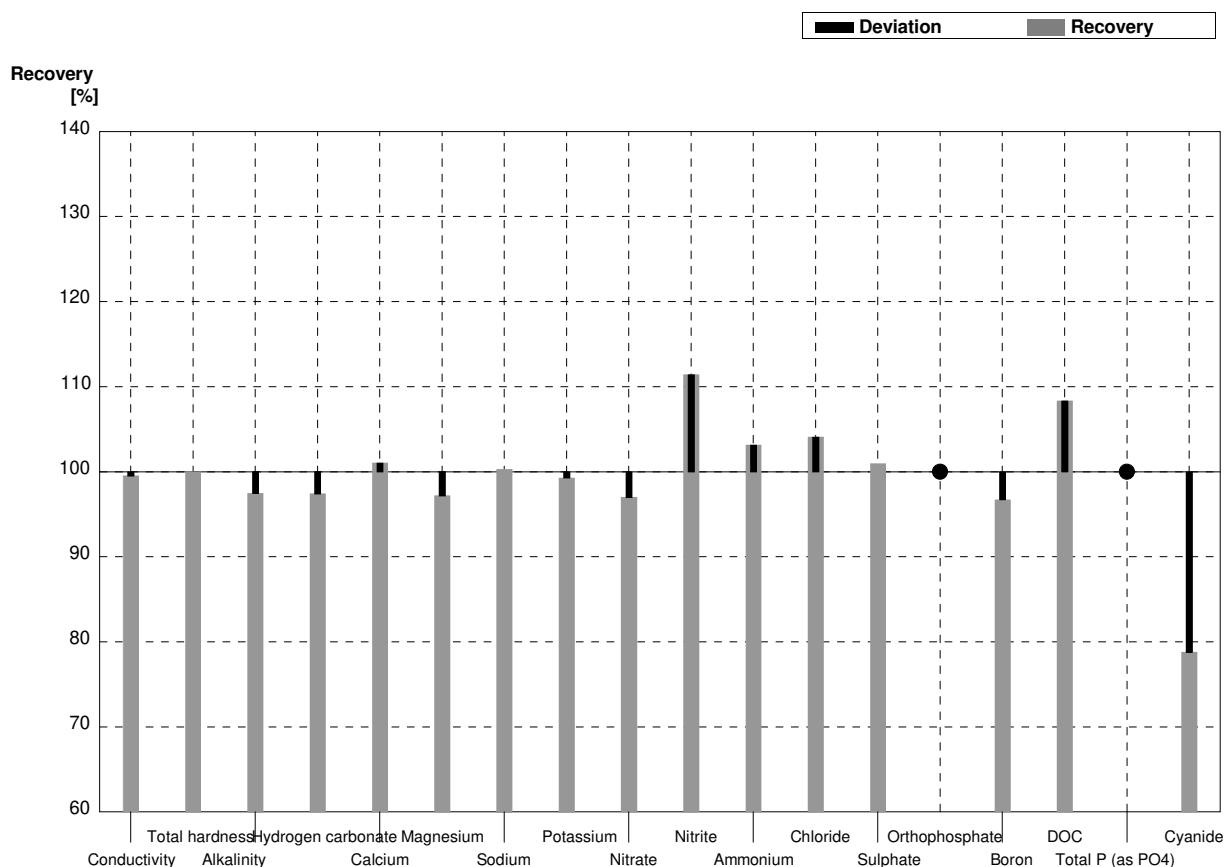
**Sample N158A**  
**Laboratory AQ**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2	482	12	$\mu\text{S}/\text{cm}$	99%
Total hardness	2,04	0,02	2,05	0,21	$\text{mmol/l}$	100%
Alkalinity	1,71	0,02	1,67	0,17	$\text{mmol/l}$	98%
Hydrogen carbonate	101	1	98,6	9,9	$\text{mg/l}$	98%
Calcium	57,9	0,7	59,1	5,9	$\text{mg/l}$	102%
Magnesium	14,5	0,2	13,9	1,4	$\text{mg/l}$	96%
Sodium	11,7	0,3	11,0	1,1	$\text{mg/l}$	94%
Potassium	2,30	0,04	2,29	0,23	$\text{mg/l}$	100%
Nitrate	39,9	0,6	39,3	3,9	$\text{mg/l}$	98%
Nitrite	0,0468	0,0010	0,0517	0,0052	$\text{mg/l}$	110%
Ammonium	0,0251	0,0044	0,0279	0,0028	$\text{mg/l}$	111%
Chloride	47,6	0,9	50,3	5,0	$\text{mg/l}$	106%
Sulphate	45,3	0,5	47,0	4,7	$\text{mg/l}$	104%
Orthophosphate	0,132	0,001	0,129	0,013	$\text{mg/l}$	98%
Boron	0,0431	0,0002	0,0429	0,0043	$\text{mg/l}$	100%
DOC	5,62	0,03	5,67	0,57	$\text{mg/l}$	101%
Total P (as PO <sub>4</sub> )	0,184	0,001	0,174	0,017	$\text{mg/l}$	95%
Cyanide	0,0469	0,0003	0,0400	0,004	$\text{mg/l}$	85%



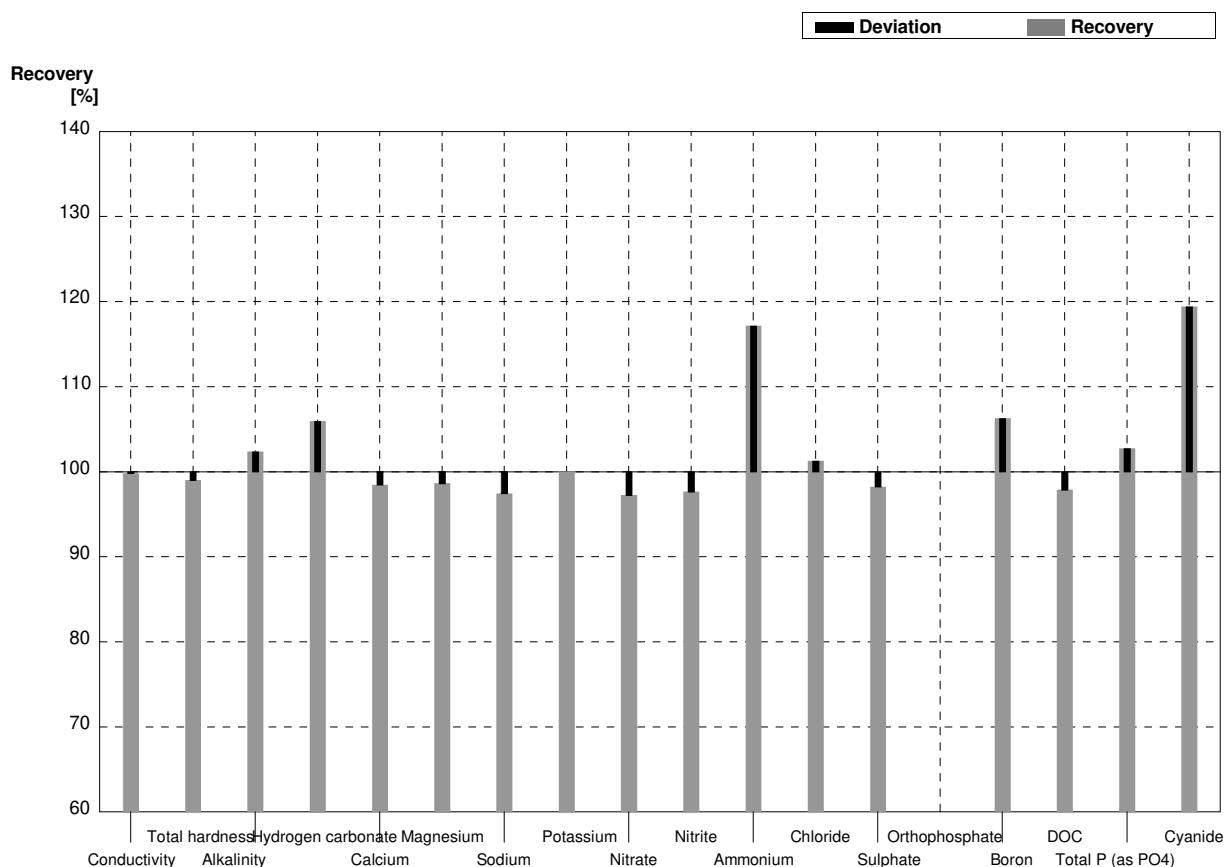
**Sample N158B**  
**Laboratory AQ**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1	433	11	$\mu\text{S}/\text{cm}$	100%
Total hardness	1,25	0,02	1,25	0,12	$\text{mmol/l}$	100%
Alkalinity	1,19	0,01	1,16	0,12	$\text{mmol/l}$	97%
Hydrogen carbonate	69,5	0,4	67,7	6,8	$\text{mg/l}$	97%
Calcium	39,4	0,6	39,8	4,0	$\text{mg/l}$	101%
Magnesium	6,41	0,09	6,23	0,62	$\text{mg/l}$	97%
Sodium	32,5	0,2	32,6	3,3	$\text{mg/l}$	100%
Potassium	5,52	0,04	5,48	0,55	$\text{mg/l}$	99%
Nitrate	73,3	1,7	71,1	7,1	$\text{mg/l}$	97%
Nitrite	0,063	0,003	0,0702	0,0070	$\text{mg/l}$	111%
Ammonium	0,070	0,003	0,0722	0,0072	$\text{mg/l}$	103%
Chloride	14,7	0,3	15,3	1,5	$\text{mg/l}$	104%
Sulphate	62,6	0,4	63,2	6,3	$\text{mg/l}$	101%
Orthophosphate	<0,009		<0,02		$\text{mg/l}$	•
Boron	0,0244	0,0001	0,0236	0,0024	$\text{mg/l}$	97%
DOC	1,56	0,01	1,69	0,17	$\text{mg/l}$	108%
Total P (as PO <sub>4</sub> )	<0,009		<0,05		$\text{mg/l}$	•
Cyanide	0,0165	0,0001	0,0130	0,0013	$\text{mg/l}$	79%



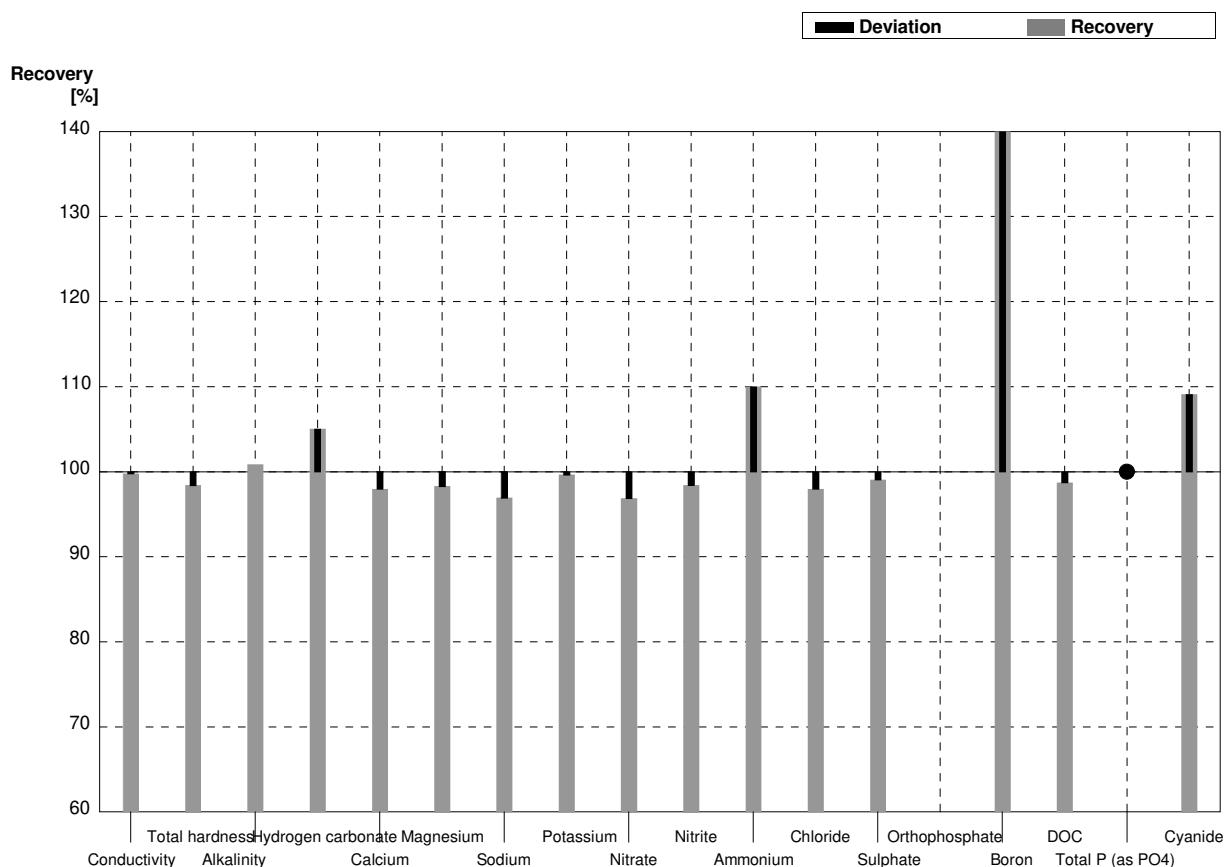
**Sample N158A**  
**Laboratory AR**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2	488	3	$\mu\text{S}/\text{cm}$	100%
Total hardness	2,04	0,02	2,02	0,18	mmol/l	99%
Alkalinity	1,71	0,02	1,75	0,10	mmol/l	102%
Hydrogen carbonate	101	1	107	4	mg/l	106%
Calcium	57,9	0,7	57	2	mg/l	98%
Magnesium	14,5	0,2	14,3	1	mg/l	99%
Sodium	11,7	0,3	11,4	1	mg/l	97%
Potassium	2,30	0,04	2,30	0,5	mg/l	100%
Nitrate	39,9	0,6	38,8	2	mg/l	97%
Nitrite	0,0468	0,0010	0,0457	0,01	mg/l	98%
Ammonium	0,0251	0,0044	0,0294	0,01	mg/l	117%
Chloride	47,6	0,9	48,2	2	mg/l	101%
Sulphate	45,3	0,5	44,5	2	mg/l	98%
Orthophosphate	0,132	0,001			mg/l	
Boron	0,0431	0,0002	0,0458	0,01	mg/l	106%
DOC	5,62	0,03	5,5	0,4	mg/l	98%
Total P (as PO <sub>4</sub> )	0,184	0,001	0,189	0,02	mg/l	103%
Cyanide	0,0469	0,0003	0,056	0,02	mg/l	119%



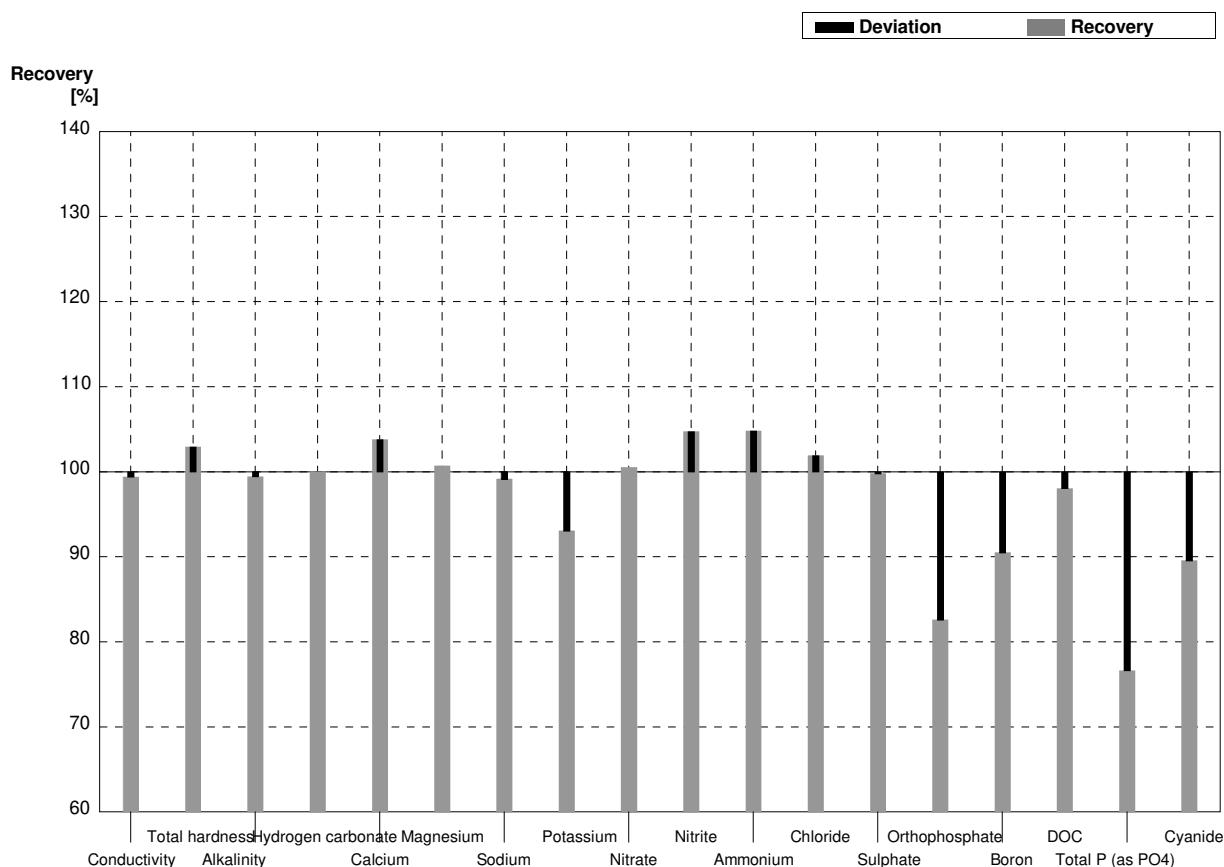
**Sample N158B**  
**Laboratory AR**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1	434	3	$\mu\text{S}/\text{cm}$	100%
Total hardness	1,25	0,02	1,23	0,15	$\text{mmol/l}$	98%
Alkalinity	1,19	0,01	1,20	0,10	$\text{mmol/l}$	101%
Hydrogen carbonate	69,5	0,4	73	3	$\text{mg/l}$	105%
Calcium	39,4	0,6	38,6	2	$\text{mg/l}$	98%
Magnesium	6,41	0,09	6,3	1	$\text{mg/l}$	98%
Sodium	32,5	0,2	31,5	2	$\text{mg/l}$	97%
Potassium	5,52	0,04	5,5	0,5	$\text{mg/l}$	100%
Nitrate	73,3	1,7	71	3	$\text{mg/l}$	97%
Nitrite	0,063	0,003	0,062	0,01	$\text{mg/l}$	98%
Ammonium	0,070	0,003	0,077	0,01	$\text{mg/l}$	110%
Chloride	14,7	0,3	14,4	2	$\text{mg/l}$	98%
Sulphate	62,6	0,4	62	3	$\text{mg/l}$	99%
Orthophosphate	<0,009				$\text{mg/l}$	
Boron	0,0244	0,0001	0,0378	0,01	$\text{mg/l}$	155%
DOC	1,56	0,01	1,54	0,2	$\text{mg/l}$	99%
Total P (as PO <sub>4</sub> )	<0,009		'0,0198	0,02	$\text{mg/l}$	•
Cyanide	0,0165	0,0001	0,0180	0,01	$\text{mg/l}$	109%



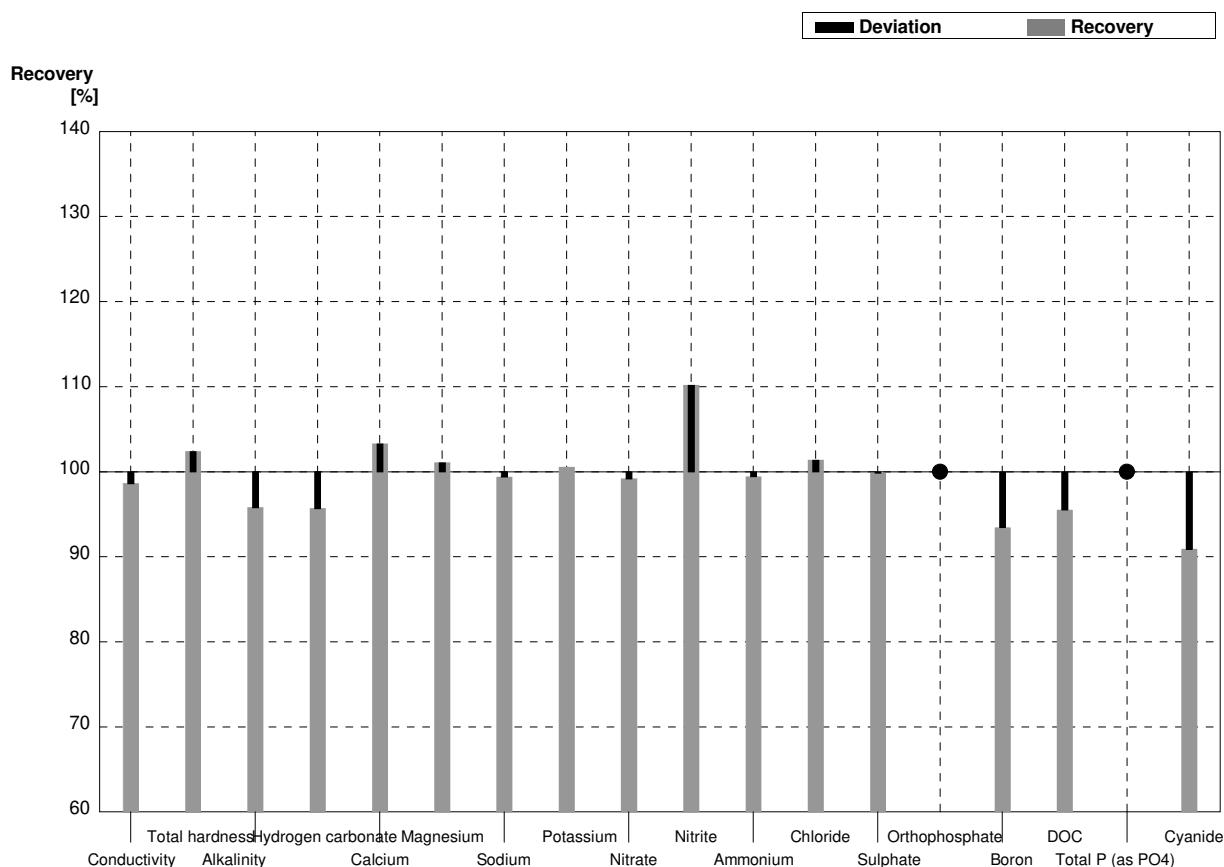
**Sample N158A**  
**Laboratory AS**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2	486	49	$\mu\text{S}/\text{cm}$	99%
Total hardness	2,04	0,02	2,10	0,21	$\text{mmol/l}$	103%
Alkalinity	1,71	0,02	1,70	0,17	$\text{mmol/l}$	99%
Hydrogen carbonate	101	1	101	10	$\text{mg/l}$	100%
Calcium	57,9	0,7	60,1	6,0	$\text{mg/l}$	104%
Magnesium	14,5	0,2	14,6	1,5	$\text{mg/l}$	101%
Sodium	11,7	0,3	11,6	1,2	$\text{mg/l}$	99%
Potassium	2,30	0,04	2,14	0,21	$\text{mg/l}$	93%
Nitrate	39,9	0,6	40,1	4,0	$\text{mg/l}$	101%
Nitrite	0,0468	0,0010	0,0490	0,0049	$\text{mg/l}$	105%
Ammonium	0,0251	0,0044	0,0263	0,0026	$\text{mg/l}$	105%
Chloride	47,6	0,9	48,5	4,9	$\text{mg/l}$	102%
Sulphate	45,3	0,5	45,2	4,5	$\text{mg/l}$	100%
Orthophosphate	0,132	0,001	0,109	0,011	$\text{mg/l}$	83%
Boron	0,0431	0,0002	0,0390	0,0039	$\text{mg/l}$	90%
DOC	5,62	0,03	5,51	0,55	$\text{mg/l}$	98%
Total P (as PO <sub>4</sub> )	0,184	0,001	0,141	0,028	$\text{mg/l}$	77%
Cyanide	0,0469	0,0003	0,0420	0,0042	$\text{mg/l}$	90%



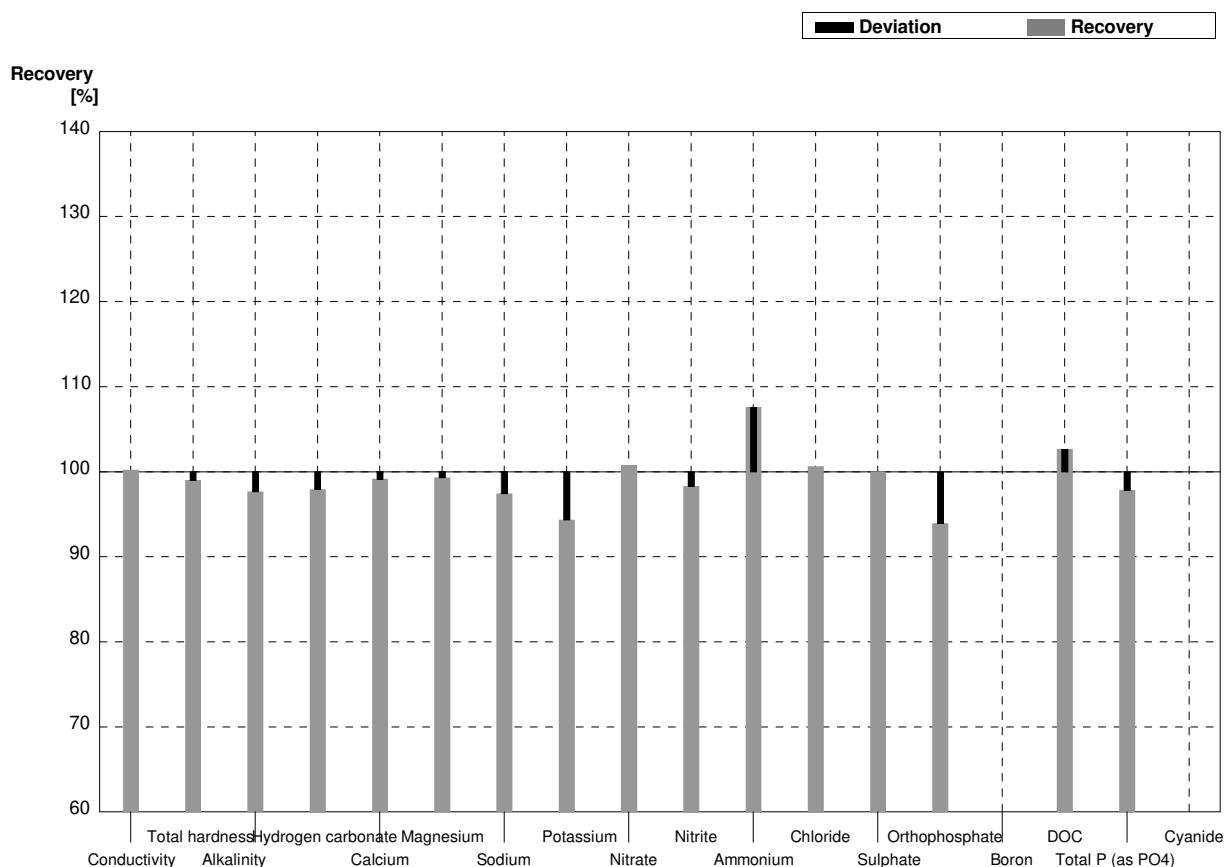
**Sample N158B**  
**Laboratory AS**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1	429	43	$\mu\text{S}/\text{cm}$	99%
Total hardness	1,25	0,02	1,28	0,13	$\text{mmol/l}$	102%
Alkalinity	1,19	0,01	1,14	0,11	$\text{mmol/l}$	96%
Hydrogen carbonate	69,5	0,4	66,5	6,7	$\text{mg/l}$	96%
Calcium	39,4	0,6	40,7	4,1	$\text{mg/l}$	103%
Magnesium	6,41	0,09	6,48	0,65	$\text{mg/l}$	101%
Sodium	32,5	0,2	32,3	3,2	$\text{mg/l}$	99%
Potassium	5,52	0,04	5,55	0,55	$\text{mg/l}$	101%
Nitrate	73,3	1,7	72,7	7,3	$\text{mg/l}$	99%
Nitrite	0,063	0,003	0,0694	0,0069	$\text{mg/l}$	110%
Ammonium	0,070	0,003	0,0696	0,0070	$\text{mg/l}$	99%
Chloride	14,7	0,3	14,9	1,5	$\text{mg/l}$	101%
Sulphate	62,6	0,4	62,5	6,3	$\text{mg/l}$	100%
Orthophosphate	<0,009		<0,008		$\text{mg/l}$	•
Boron	0,0244	0,0001	0,0228	0,0023	$\text{mg/l}$	93%
DOC	1,56	0,01	1,49	0,15	$\text{mg/l}$	96%
Total P (as PO <sub>4</sub> )	<0,009		<0,015		$\text{mg/l}$	•
Cyanide	0,0165	0,0001	0,0150	0,0015	$\text{mg/l}$	91%



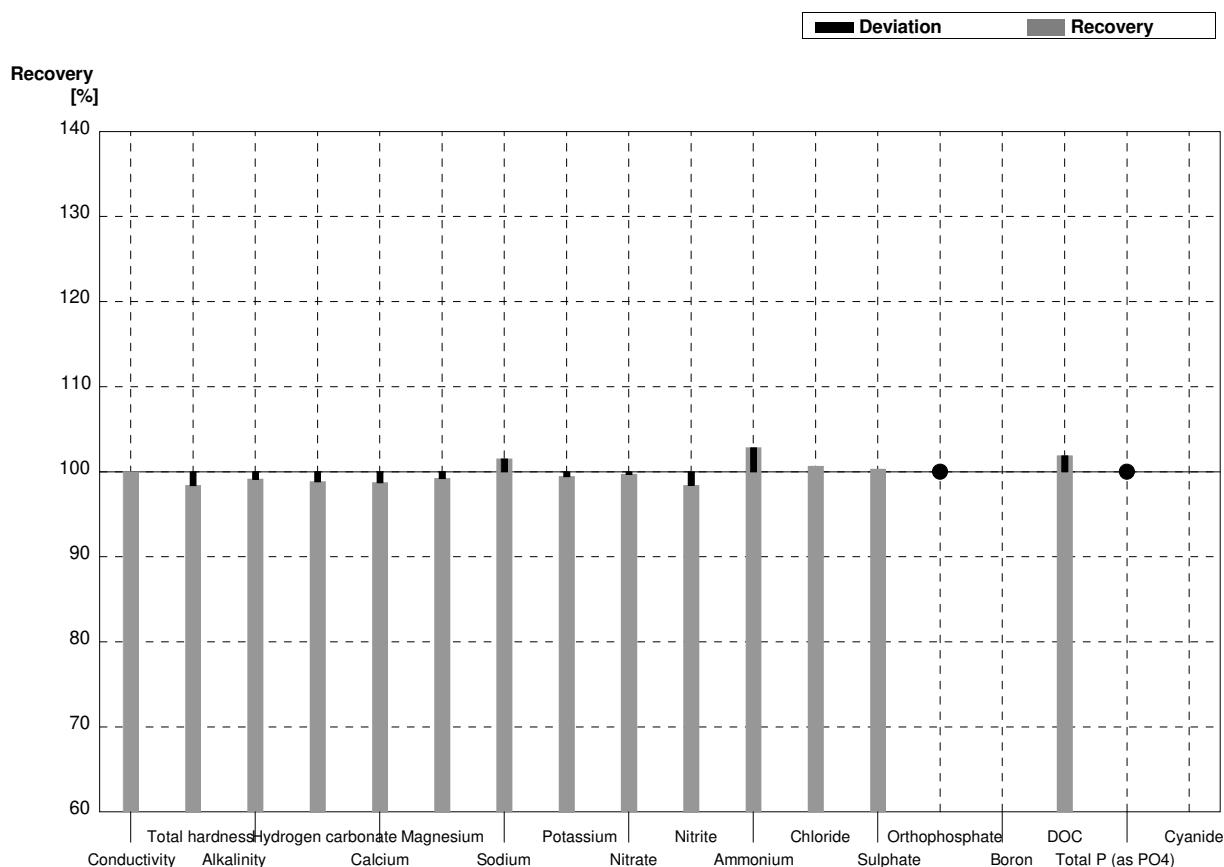
**Sample N158A**  
**Laboratory AT**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2	490	20	$\mu\text{S}/\text{cm}$	100%
Total hardness	2,04	0,02	2,02	0,1	$\text{mmol/l}$	99%
Alkalinity	1,71	0,02	1,67	0,1	$\text{mmol/l}$	98%
Hydrogen carbonate	101	1	98,9	4	$\text{mg/l}$	98%
Calcium	57,9	0,7	57,4	5	$\text{mg/l}$	99%
Magnesium	14,5	0,2	14,4	1,8	$\text{mg/l}$	99%
Sodium	11,7	0,3	11,4	1,8	$\text{mg/l}$	97%
Potassium	2,30	0,04	2,17	0,3	$\text{mg/l}$	94%
Nitrate	39,9	0,6	40,2	4	$\text{mg/l}$	101%
Nitrite	0,0468	0,0010	0,0460	0,004	$\text{mg/l}$	98%
Ammonium	0,0251	0,0044	0,0270	0,004	$\text{mg/l}$	108%
Chloride	47,6	0,9	47,9	3	$\text{mg/l}$	101%
Sulphate	45,3	0,5	45,3	4	$\text{mg/l}$	100%
Orthophosphate	0,132	0,001	0,124	0,02	$\text{mg/l}$	94%
Boron	0,0431	0,0002			$\text{mg/l}$	
DOC	5,62	0,03	5,77	0,9	$\text{mg/l}$	103%
Total P (as PO <sub>4</sub> )	0,184	0,001	0,180	0,02	$\text{mg/l}$	98%
Cyanide	0,0469	0,0003			$\text{mg/l}$	



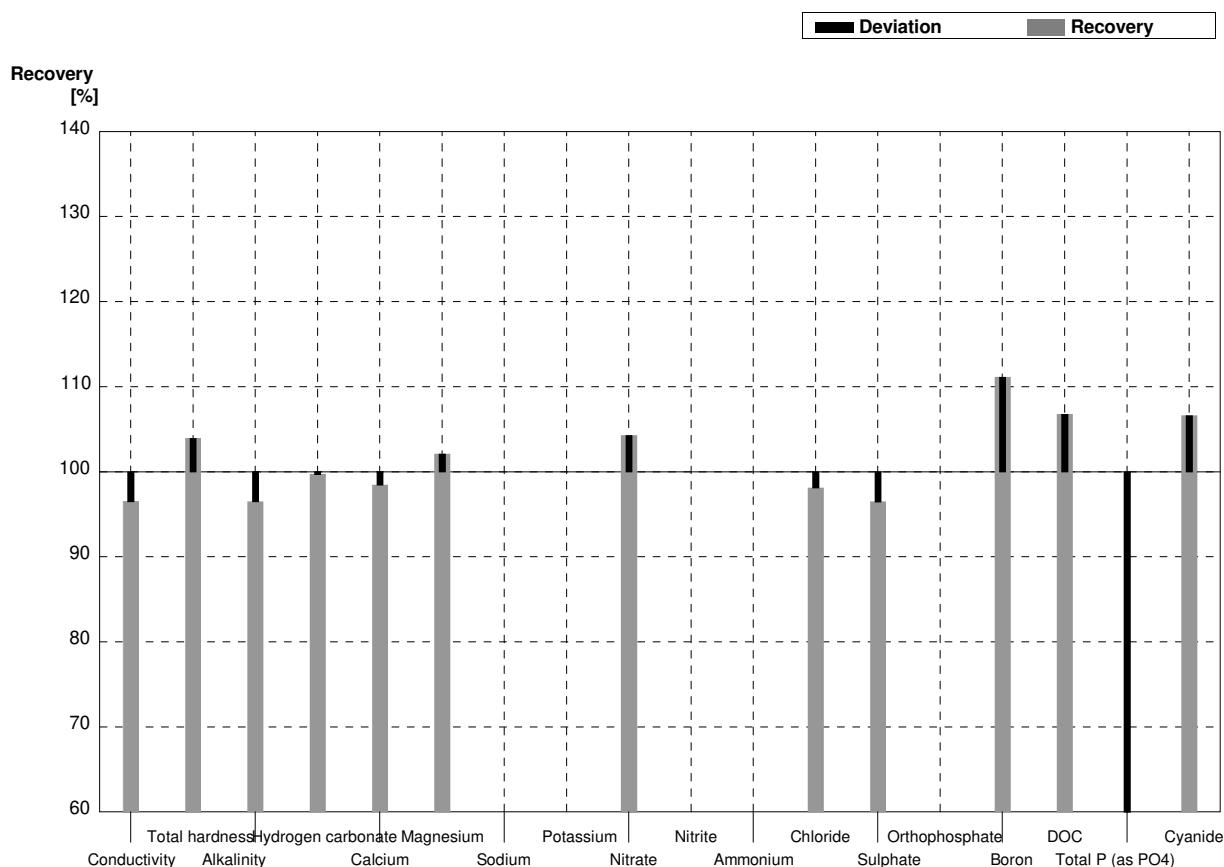
**Sample N158B**  
**Laboratory AT**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1	435	18	$\mu\text{S}/\text{cm}$	100%
Total hardness	1,25	0,02	1,23	0,1	$\text{mmol/l}$	98%
Alkalinity	1,19	0,01	1,18	0,1	$\text{mmol/l}$	99%
Hydrogen carbonate	69,5	0,4	68,7	3	$\text{mg/l}$	99%
Calcium	39,4	0,6	38,9	4	$\text{mg/l}$	99%
Magnesium	6,41	0,09	6,36	0,8	$\text{mg/l}$	99%
Sodium	32,5	0,2	33,0	5	$\text{mg/l}$	102%
Potassium	5,52	0,04	5,49	0,8	$\text{mg/l}$	99%
Nitrate	73,3	1,7	73,1	6	$\text{mg/l}$	100%
Nitrite	0,063	0,003	0,062	0,005	$\text{mg/l}$	98%
Ammonium	0,070	0,003	0,072	0,011	$\text{mg/l}$	103%
Chloride	14,7	0,3	14,8	0,9	$\text{mg/l}$	101%
Sulphate	62,6	0,4	62,8	5	$\text{mg/l}$	100%
Orthophosphate	<0,009		<0,01		$\text{mg/l}$	•
Boron	0,0244	0,0001			$\text{mg/l}$	
DOC	1,56	0,01	1,59	0,3	$\text{mg/l}$	102%
Total P (as PO <sub>4</sub> )	<0,009		<0,013		$\text{mg/l}$	•
Cyanide	0,0165	0,0001			$\text{mg/l}$	



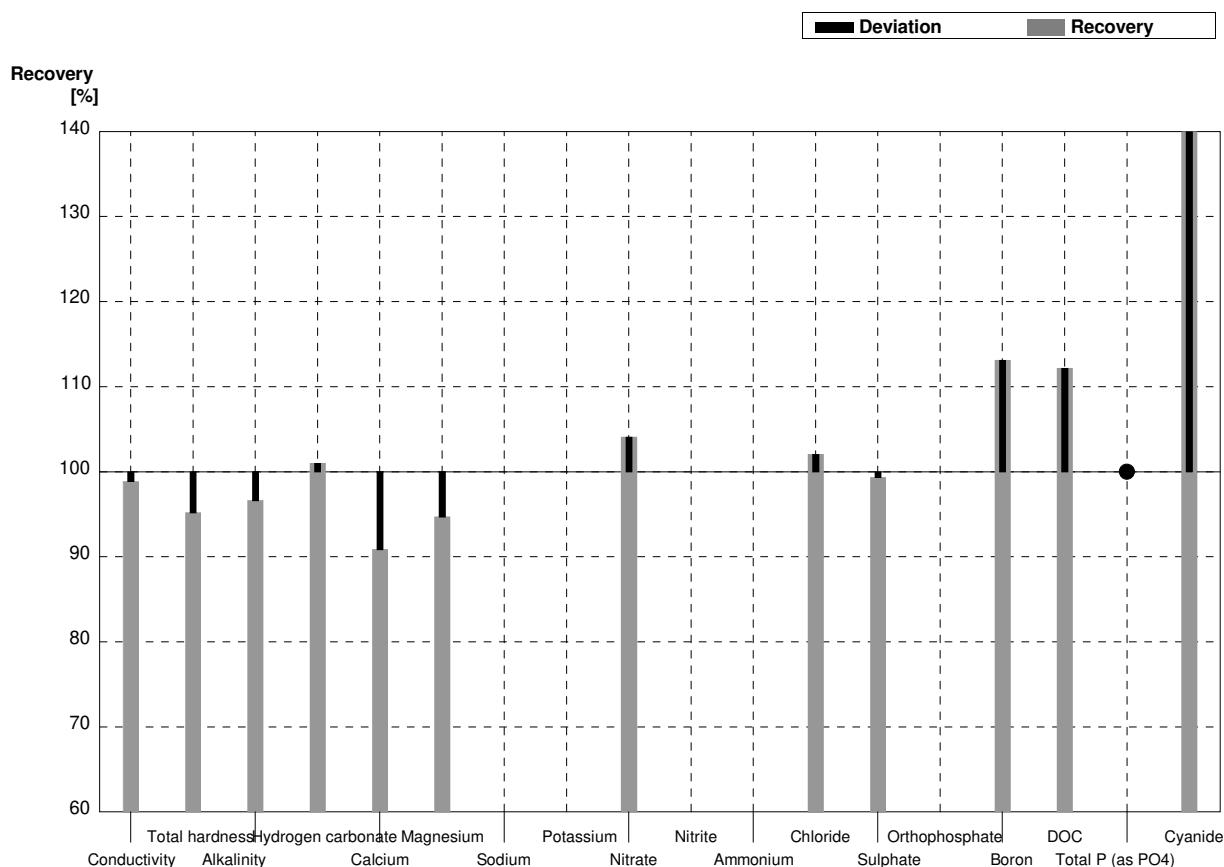
**Sample N158A**  
**Laboratory AU**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2	472	2,4	$\mu\text{S}/\text{cm}$	97%
Total hardness	2,04	0,02	2,12	0,07	$\text{mmol/l}$	104%
Alkalinity	1,71	0,02	1,65	0,01	$\text{mmol/l}$	96%
Hydrogen carbonate	101	1	100,7	0,61	$\text{mg/l}$	100%
Calcium	57,9	0,7	57,0	1,9	$\text{mg/l}$	98%
Magnesium	14,5	0,2	14,8	0,2	$\text{mg/l}$	102%
Sodium	11,7	0,3			$\text{mg/l}$	
Potassium	2,30	0,04			$\text{mg/l}$	
Nitrate	39,9	0,6	41,6	0,25	$\text{mg/l}$	104%
Nitrite	0,0468	0,0010			$\text{mg/l}$	
Ammonium	0,0251	0,0044			$\text{mg/l}$	
Chloride	47,6	0,9	46,7	0,35	$\text{mg/l}$	98%
Sulphate	45,3	0,5	43,7	0,79	$\text{mg/l}$	96%
Orthophosphate	0,132	0,001			$\text{mg/l}$	
Boron	0,0431	0,0002	0,0479	0,0021	$\text{mg/l}$	111%
DOC	5,62	0,03	6,0	0,26	$\text{mg/l}$	107%
Total P (as PO <sub>4</sub> )	0,184	0,001	0,071	0,002	$\text{mg/l}$	39%
Cyanide	0,0469	0,0003	0,050	0,013	$\text{mg/l}$	107%



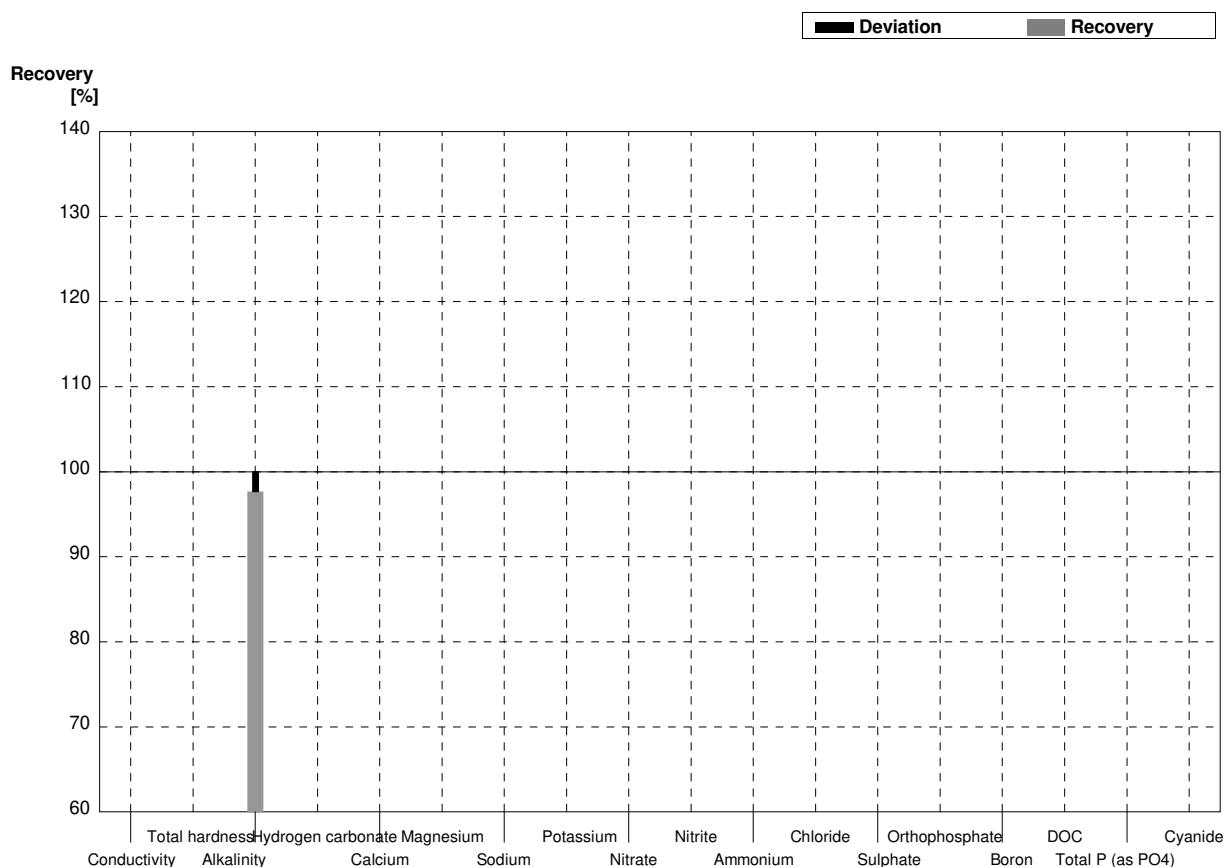
**Sample N158B**  
**Laboratory AU**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1	430	2,2	$\mu\text{S}/\text{cm}$	99%
Total hardness	1,25	0,02	1,19	0,10	$\text{mmol/l}$	95%
Alkalinity	1,19	0,01	1,15	0,01	$\text{mmol/l}$	97%
Hydrogen carbonate	69,5	0,4	70,2	0,61	$\text{mg/l}$	101%
Calcium	39,4	0,6	35,8	2,9	$\text{mg/l}$	91%
Magnesium	6,41	0,09	6,07	0,10	$\text{mg/l}$	95%
Sodium	32,5	0,2			$\text{mg/l}$	
Potassium	5,52	0,04			$\text{mg/l}$	
Nitrate	73,3	1,7	76,3	0,45	$\text{mg/l}$	104%
Nitrite	0,063	0,003			$\text{mg/l}$	
Ammonium	0,070	0,003			$\text{mg/l}$	
Chloride	14,7	0,3	15,0	0,11	$\text{mg/l}$	102%
Sulphate	62,6	0,4	62,2	1,12	$\text{mg/l}$	99%
Orthophosphate	<0,009				$\text{mg/l}$	
Boron	0,0244	0,0001	0,0276	0,0033	$\text{mg/l}$	113%
DOC	1,56	0,01	1,75	0,08	$\text{mg/l}$	112%
Total P (as PO <sub>4</sub> )	<0,009		<0,005	0,002	$\text{mg/l}$	•
Cyanide	0,0165	0,0001	0,0300	0,008	$\text{mg/l}$	182%



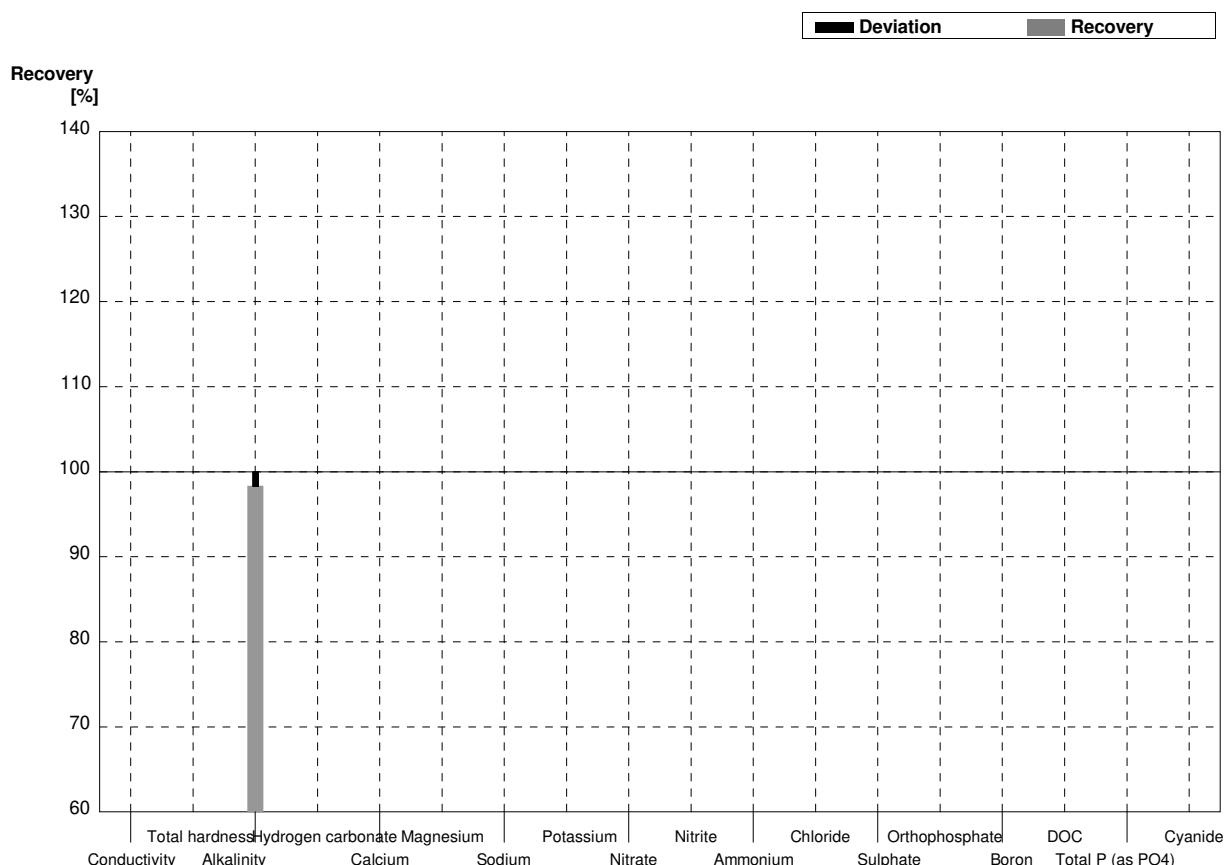
**Sample N158A**  
**Laboratory AV**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	489	2			µS/cm	
Total hardness	2,04	0,02			mmol/l	
Alkalinity	1,71	0,02	1,67	0,03	mmol/l	98%
Hydrogen carbonate	101	1			mg/l	
Calcium	57,9	0,7			mg/l	
Magnesium	14,5	0,2			mg/l	
Sodium	11,7	0,3			mg/l	
Potassium	2,30	0,04			mg/l	
Nitrate	39,9	0,6			mg/l	
Nitrite	0,0468	0,0010			mg/l	
Ammonium	0,0251	0,0044			mg/l	
Chloride	47,6	0,9			mg/l	
Sulphate	45,3	0,5			mg/l	
Orthophosphate	0,132	0,001			mg/l	
Boron	0,0431	0,0002			mg/l	
DOC	5,62	0,03			mg/l	
Total P (as PO <sub>4</sub> )	0,184	0,001			mg/l	
Cyanide	0,0469	0,0003			mg/l	



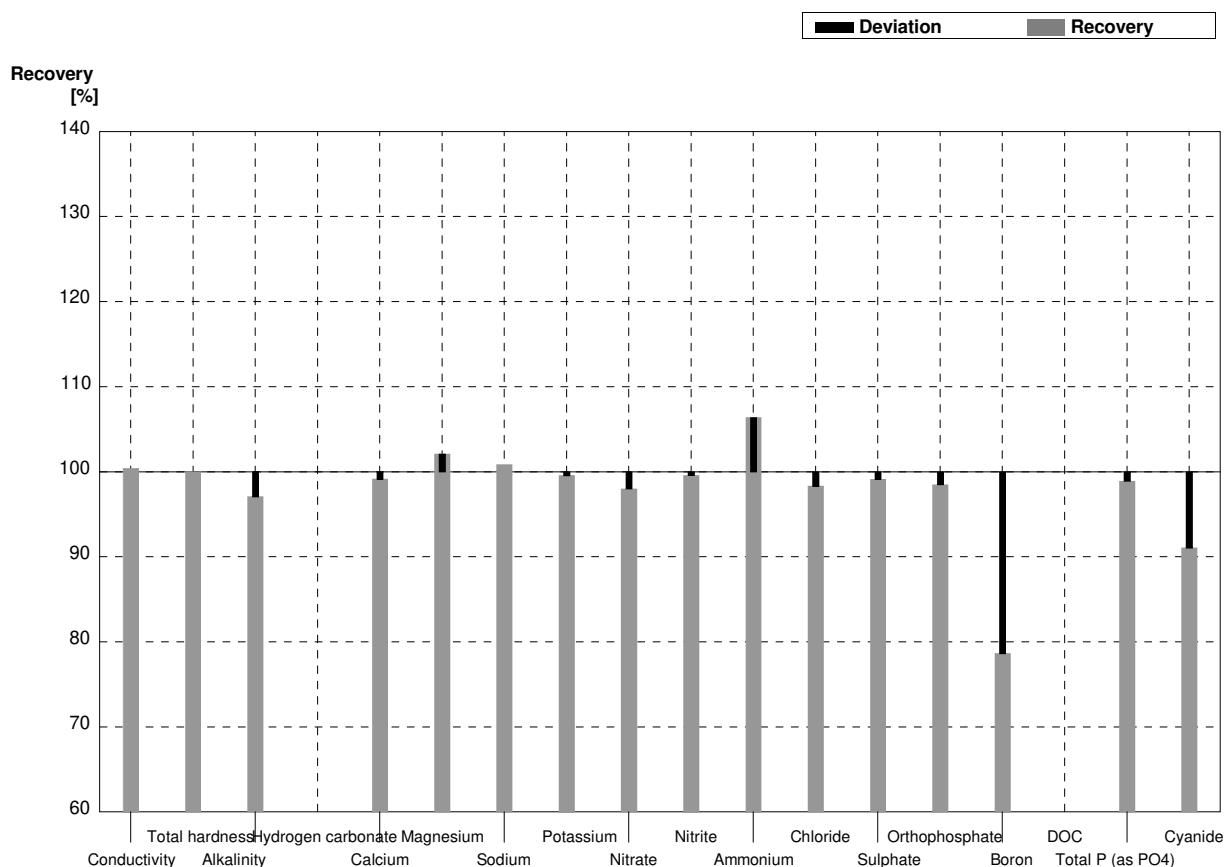
**Sample N158B**  
**Laboratory AV**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1			$\mu\text{S}/\text{cm}$	
Total hardness	1,25	0,02			$\text{mmol/l}$	
Alkalinity	1,19	0,01	1,17	0,01	$\text{mmol/l}$	98%
Hydrogen carbonate	69,5	0,4			$\text{mg/l}$	
Calcium	39,4	0,6			$\text{mg/l}$	
Magnesium	6,41	0,09			$\text{mg/l}$	
Sodium	32,5	0,2			$\text{mg/l}$	
Potassium	5,52	0,04			$\text{mg/l}$	
Nitrate	73,3	1,7			$\text{mg/l}$	
Nitrite	0,063	0,003			$\text{mg/l}$	
Ammonium	0,070	0,003			$\text{mg/l}$	
Chloride	14,7	0,3			$\text{mg/l}$	
Sulphate	62,6	0,4			$\text{mg/l}$	
Orthophosphate	<0,009				$\text{mg/l}$	
Boron	0,0244	0,0001			$\text{mg/l}$	
DOC	1,56	0,01			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	<0,009				$\text{mg/l}$	
Cyanide	0,0165	0,0001			$\text{mg/l}$	



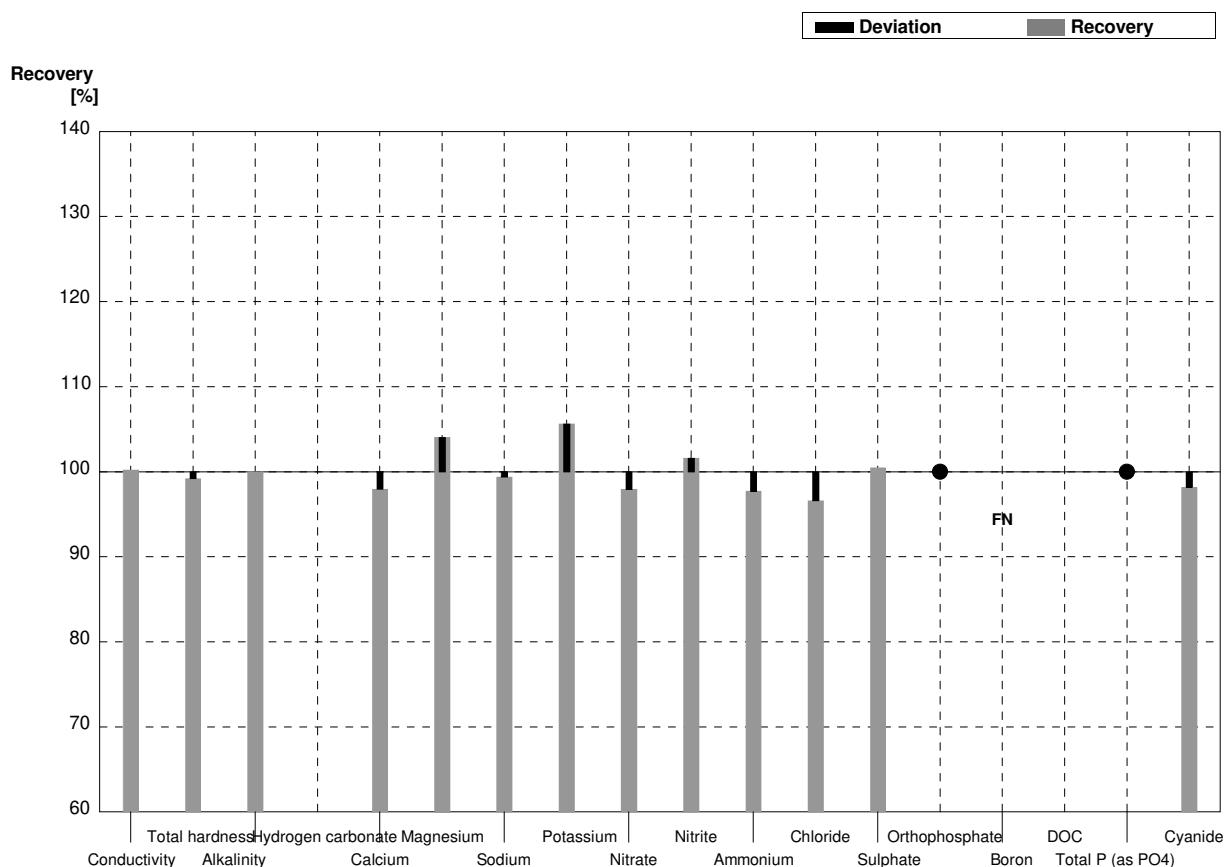
**Sample N158A**  
**Laboratory AW**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2	491	10	$\mu\text{S}/\text{cm}$	100%
Total hardness	2,04	0,02	2,04	0,41	$\text{mmol/l}$	100%
Alkalinity	1,71	0,02	1,66	0,2	$\text{mmol/l}$	97%
Hydrogen carbonate	101	1			$\text{mg/l}$	
Calcium	57,9	0,7	57,4	11,5	$\text{mg/l}$	99%
Magnesium	14,5	0,2	14,8	3,0	$\text{mg/l}$	102%
Sodium	11,7	0,3	11,8	1,8	$\text{mg/l}$	101%
Potassium	2,30	0,04	2,29	0,46	$\text{mg/l}$	100%
Nitrate	39,9	0,6	39,1	4,0	$\text{mg/l}$	98%
Nitrite	0,0468	0,0010	0,0466	0,01	$\text{mg/l}$	100%
Ammonium	0,0251	0,0044	0,0267	0,01	$\text{mg/l}$	106%
Chloride	47,6	0,9	46,8	4,7	$\text{mg/l}$	98%
Sulphate	45,3	0,5	44,9	4,5	$\text{mg/l}$	99%
Orthophosphate	0,132	0,001	0,130	0,027	$\text{mg/l}$	98%
Boron	0,0431	0,0002	0,0339	0,0085	$\text{mg/l}$	79%
DOC	5,62	0,03			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	0,184	0,001	0,182	0,037	$\text{mg/l}$	99%
Cyanide	0,0469	0,0003	0,0427	0,011	$\text{mg/l}$	91%



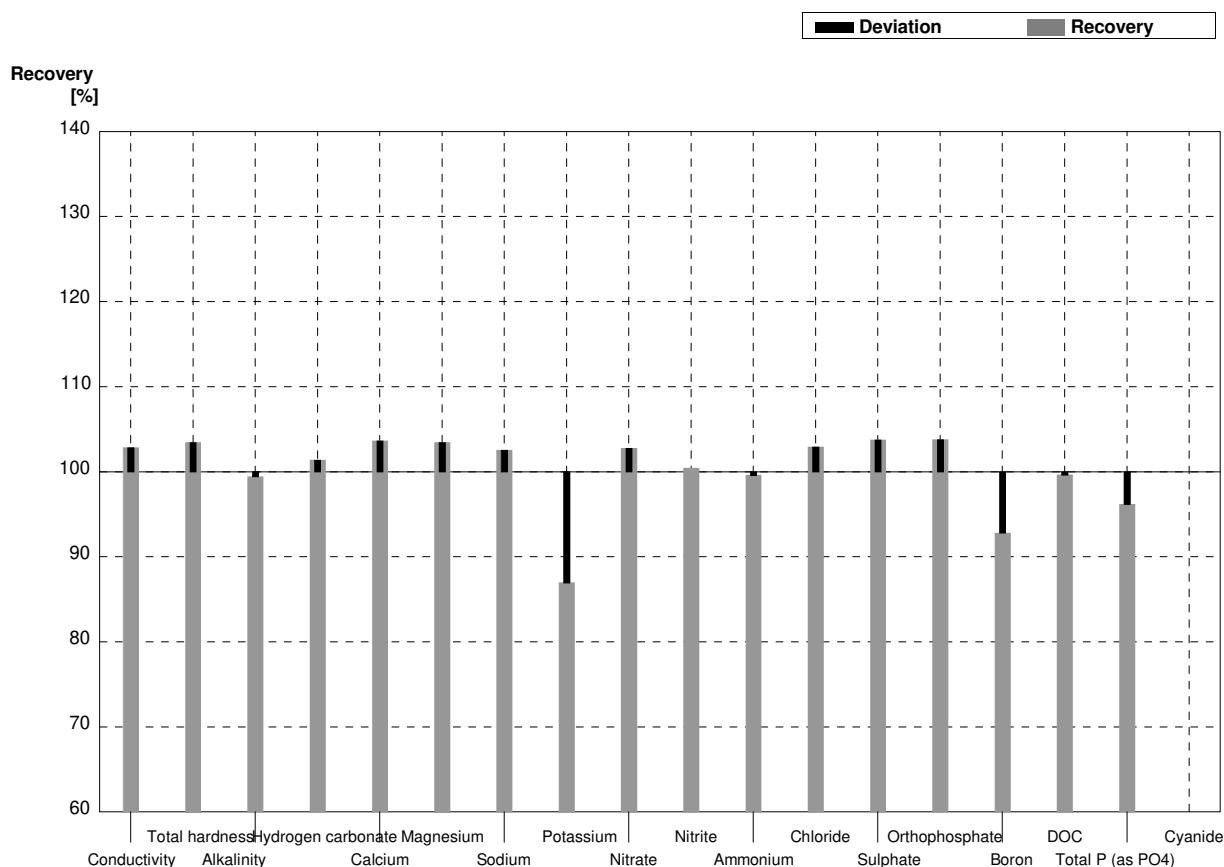
**Sample N158B**  
**Laboratory AW**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1	436	10	$\mu\text{S}/\text{cm}$	100%
Total hardness	1,25	0,02	1,24	0,25	$\text{mmol/l}$	99%
Alkalinity	1,19	0,01	1,19	0,12	$\text{mmol/l}$	100%
Hydrogen carbonate	69,5	0,4			$\text{mg/l}$	
Calcium	39,4	0,6	38,6	7,7	$\text{mg/l}$	98%
Magnesium	6,41	0,09	6,67	1,3	$\text{mg/l}$	104%
Sodium	32,5	0,2	32,3	4,8	$\text{mg/l}$	99%
Potassium	5,52	0,04	5,83	1,2	$\text{mg/l}$	106%
Nitrate	73,3	1,7	71,8	7,2	$\text{mg/l}$	98%
Nitrite	0,063	0,003	0,0640	0,013	$\text{mg/l}$	102%
Ammonium	0,070	0,003	0,0684	0,014	$\text{mg/l}$	98%
Chloride	14,7	0,3	14,2	1,5	$\text{mg/l}$	97%
Sulphate	62,6	0,4	62,9	6,5	$\text{mg/l}$	100%
Orthophosphate	<0,009		<0,015		$\text{mg/l}$	•
Boron	0,0244	0,0001	<0,020		$\text{mg/l}$	FN
DOC	1,56	0,01			$\text{mg/l}$	
Total P (as PO <sub>4</sub> )	<0,009		<0,015		$\text{mg/l}$	•
Cyanide	0,0165	0,0001	0,0162	0,005	$\text{mg/l}$	98%



**Sample N158A**  
**Laboratory AX**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	489	2	503	10	$\mu\text{S}/\text{cm}$	103%
Total hardness	2,04	0,02	2,11	0,14	$\text{mmol/l}$	103%
Alkalinity	1,71	0,02	1,70	0,1	$\text{mmol/l}$	99%
Hydrogen carbonate	101	1	102,4	8,2	$\text{mg/l}$	101%
Calcium	57,9	0,7	60	4,8	$\text{mg/l}$	104%
Magnesium	14,5	0,2	15,0	1,20	$\text{mg/l}$	103%
Sodium	11,7	0,3	12,0	0,72	$\text{mg/l}$	103%
Potassium	2,30	0,04	2,00	0,22	$\text{mg/l}$	87%
Nitrate	39,9	0,6	41,0	2,05	$\text{mg/l}$	103%
Nitrite	0,0468	0,0010	0,0470	0,006	$\text{mg/l}$	100%
Ammonium	0,0251	0,0044	0,0250	0,007	$\text{mg/l}$	100%
Chloride	47,6	0,9	49,0	3,92	$\text{mg/l}$	103%
Sulphate	45,3	0,5	47,0	2,82	$\text{mg/l}$	104%
Orthophosphate	0,132	0,001	0,137	0,012	$\text{mg/l}$	104%
Boron	0,0431	0,0002	0,0400	0,0068	$\text{mg/l}$	93%
DOC	5,62	0,03	5,6	0,672	$\text{mg/l}$	100%
Total P (as PO <sub>4</sub> )	0,184	0,001	0,177	0,044	$\text{mg/l}$	96%
Cyanide	0,0469	0,0003			$\text{mg/l}$	



**Sample N158B**  
**Laboratory AX**

Parameter	Target value	$\pm U$ ( $k=2$ )	Result	$\pm$	Unit	Recovery
Conductivity	435	1	440	9	$\mu\text{S}/\text{cm}$	101%
Total hardness	1,25	0,02	1,27	0,09	$\text{mmol/l}$	102%
Alkalinity	1,19	0,01	1,20	0,1	$\text{mmol/l}$	101%
Hydrogen carbonate	69,5	0,4	71,55	5,7	$\text{mg/l}$	103%
Calcium	39,4	0,6	41,0	3,28	$\text{mg/l}$	104%
Magnesium	6,41	0,09	6,0	0,48	$\text{mg/l}$	94%
Sodium	32,5	0,2	33,0	1,98	$\text{mg/l}$	102%
Potassium	5,52	0,04	5,0	0,55	$\text{mg/l}$	91%
Nitrate	73,3	1,7	74,0	3,7	$\text{mg/l}$	101%
Nitrite	0,063	0,003	0,063	0,008	$\text{mg/l}$	100%
Ammonium	0,070	0,003	0,0780	0,020	$\text{mg/l}$	111%
Chloride	14,7	0,3	15,0	1,20	$\text{mg/l}$	102%
Sulphate	62,6	0,4	64,0	3,84	$\text{mg/l}$	102%
Orthophosphate	<0,009		<0,009		$\text{mg/l}$	•
Boron	0,0244	0,0001	0,0200	0,0034	$\text{mg/l}$	82%
DOC	1,56	0,01	1,70	0,425	$\text{mg/l}$	109%
Total P (as PO <sub>4</sub> )	<0,009		<0,009		$\text{mg/l}$	•
Cyanide	0,0165	0,0001			$\text{mg/l}$	

