

Proficiency Testing Scheme for Water Analysis

**Round N146
Major Ions**

Sample Dispatch: 11 March 2019





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Round: N146	Date / Signature:	16.4.2019 W. Kandler

This report has 233 pages.

This report summarises the results of round N146 (major ions) within the IFA-Test Proficiency Testing Scheme for Water Analysis. The samples N146A and N146B were distributed to the participants on Monday, 11 March 2019. Closing date for reporting results to the IFA-Tulln was Friday, 5 April 2019. Each participant received two samples of 1000 mL, each filled into two 500 mL PET bottles. Additionally, there was a 100 ml bottle (half filled) of "Orthophosphate Spiking Solution" on someone's disposal. For the determination of Orthophosphate in sample N146B, this solution had to be diluted 1:100 with water from the bottle "N146B".

65 laboratories participated in this interlaboratory comparison. 64 participants submitted results.

To make the results of this round anonymous, each laboratory was given a laboratory code on a random basis.

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: CaCO₃, CaCl₂, Ca(NO₃)₂, MgSO₄, MgCl₂, Mg(NO₃)₂, NaCl, NaHCO₃, Na₂SO₄, Na₂SiO₃, KCl, KHCO₃, K₂SO₄, C₆H₁₅PO₃, potassium hydrogen phthalate (for DOC) and certified standard solutions of NaNO₂, NH₄Cl, KH₂PO₄, H₃BO₃ and NaF. Both samples, N146A and N146B, contained free CO₂, which was used for dissolution of CaCO₃ and neutralisation of Na₂SiO₃. No other substances (e.g. preservatives) were added. The samples were stabilised by sterile filtration and low temperature.

No phosphorus compounds were added to sample N146A and no ammonium was added to sample N146B in order to check the analytical blank values.

Homogeneity, accuracy and stability tests at the IFA-Tulln

The samples N146A and N146B were analysed for all investigated parameters prior to shipment to the participants. The results of the measurements are listed in the result tables and the parameter oriented part of the report ("IFA result").

After ca. four weeks DOC, NH₄⁺, NO₂⁻ and o-PO₄³⁻ were determined in two bottles of N146A and N146B. The results of the measurements are listed in the result tables and the parameter oriented part of the report ("Stability test"). Stability tests for all other parameters will be carried out together with the accuracy tests of the following round (N147).

According to our experience the samples remain stable up to 18 months for the parameters conductivity, total hardness, alkalinity, Ca²⁺, Mg²⁺, Na⁺, K⁺, NO₃⁻, Cl⁻, SO₄²⁻ and F⁻ when stored at 4°C in the dark. For the parameters NH₄⁺, NO₂⁻, o-PO₄³⁻ and DOC the samples remain stable several weeks, whereas the first changes normally are observed for NH₄⁺.

Results

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

The target value of the electrical conductivity was set to the laboratory mean (conventional value). When calculated from more than 20 results, the laboratory mean has a smaller uncertainty than our estimate calculated from the target concentrations by Debye-Hückel's theory: 2.4 % (p = 95 %). However, the calculated electrical conductivity was 531 µS/cm in sample N146A and 270 µS/cm in sample N146B.

For the pH no target values can be assigned. The results can be compared on the tables. In this kind of samples containing CO₂ 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 was used for preparation. The results were given in mg/L o- PO_4^{3-} .

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 <0.01 mg/L NH_4^+ in N146B and to <0.009 mg/L o- PO_4^{3-} and <0.009 mg/L total-P (as PO_4^{3-}), in N146A, 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 95.9 % (fluoride in sample N146A) and 109.0 % (ammonium in sample N146A).

The between laboratory CVs covered the range between 0.9 % (conductivity in sample N146A) and 23.8 % (nitrite in sample N146B).

All confidence intervals of the outlier-corrected laboratory mean values except (those) for chloride in sample N146A ($97.4\% \pm 0.9\%$), alkalinity $K_{S4,3}$ in sample N146B ($98.2\% \pm 0.9\%$) and fluoride in samples N146A and N146B ($95.9\% \pm 3.3\%$ and $96.1\% \pm 2.3\%$) 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.

For nitrite in sample N146B the relative standard deviation between the laboratories was 23.8%. As this was well above the z-Score-criteria of 5.6 % in the table below (page 5), no Z-scores were calculated. For this reason the lower limit of 0.005 mg/L, applied in the year 2018, was changed to 0.01 mg/L.

z-scores

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

$$z = \frac{x_i - \bar{x}}{\sigma}$$

z z-score
x_i result of laboratory
 \bar{x} target value or mean value („consensus value“)
 σ standard deviation

Thus, the z-score is the ratio of the estimated bias (difference between result and target value) and a standard deviation. The z-score criteria were determined from relative standard deviations from all interlaboratory comparisons that were organised by the IFA-Tulln in the period from 2008 to 2018. They represent long-term performance data of all former participating laboratories. The z-scores are listed together with the recoveries in the tables of the parameter oriented part.

Additionally, each laboratory obtained for every sample a single sheet that summarises the z-scores of the laboratory in graphical and tabular form.

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

Thus, no z-scores were calculated for nitrite in sample N146B.

Parameter	z-Score-criteria (%)	Lower limit	Unit
Alkalinity K _{S4.3}	2.2	0.2	mmol/L
Ammonium	13	0.01	mg/L
Boron	8.6	0.012	mg/L
Calcium	3.3	9	mg/L
Chloride	3.2	2	mg/L
el. Conductivity	1.3	50	µS/cm
DOC	6.0	1	mg/L
Fluoride	8.0	0.3	mg/L
Hydrogen carbonate	2.5	20	mg/L
Magnesium	3.6	1	mg/L
Nitrate	3.5	2	mg/L
Nitrite	5.6	0.01	mg/L
Orthophosphate	11	0.015	mg/L
Potassium	4.8	0.5	mg/L
Silicon	5.0	0.9	mg/L
Sodium	3.4	1	mg/L
Sulphate	3.1	3	mg/L
Total hardness	2.8	0.1	mmol/L
Total-P (as PO ₄ ³⁻)	11	0.015	mg/L

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

z-Score	Classification
<2	satisfactory
2< z <3	questionable
>3	unsatisfactory

Please note that this evaluation is made on the background of the average performance of all participants of the IFA-Test-Systems proficiency testing scheme during the period from 2008 to 2018.

Illustration of results

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

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

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

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

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

- “FN”: A result is considered false negative when the “< result” reported is lower than the corresponding target value
- “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, 16 April 2019

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

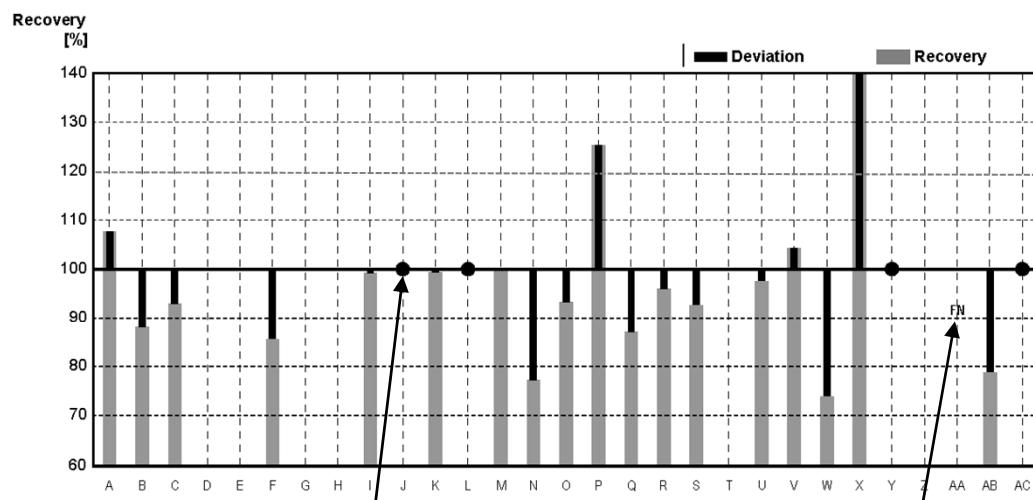


Diagram 2: Recoveries and deviations from target values

Illustration of Results Tables and Parameter Oriented Part

Round N146
Major Ions

Sample Dispatch: 11 March 2019



Results Sample N146A

	pH	Cond.	total-Hardn.	K _{s 4.3}	HCO ₃ ⁻	Ca ²⁺	Mg ²⁺	Na ⁺	K ⁺	NO ₃ ⁻
Unit		µS/cm	mmol/L	mmol/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		526	1.90	1.46	86.3	50.8	15.4	25.2	4.86	54.3
IFA result	6.10	529	1.89	1.43	83.9	50.8	15.2	25.5	4.67	52.8
Stability test										
A	5.86	527		1.43	87					
B	5.9	522		1.40						
C	5.67	529	1.8	1.44	87.9	48.6	14.1			47.9
D	6.41	544		1.44						
E	5.89	516		1.36						52.9
F	6.01	522		1.43						
G	5.94	523	1.88	1.43	87.2	49.8	15.4	24.4	4.83	51.9
H	5.79	528		1.45						52.8
I	5.84	529	1.94	1.44		50.6	16.4			
J	5.81	530		1.41	86.0					
K	5.96	529	0.9	1.44						53.9
L	5.90	528	1.86	1.39	84.9	50.2	14.8			53
M	6.0	526		1.42						
N	5.73	528		1.42						
O	5.9	525	1.88	1.44	87	51	15			
P	5.94	543		1.43						52.7
Q	6.83	528		1.42						52.1
R	5.85	524		1.44	84.9					52.7
S	5.86	533	1.88	1.46	87.8	50.0	15.3	24.2	4.7	52.1
T	5.863	528	1.94	1.404	85.61	52.09	15.586	24.5	4.61	55.45
U	6.04	535	1.86	1.4	87.7	47.08	14.93	24.15	4.696	53.45
V	6.5	532	1.97	1.47	90.0	51.2	15.6	25.35	4.79	53.71
W		524	1.90	1.32	80.3	50.6	15.4	25.0	4.8	53.3
X	6.23	513	1.85	1.44	84.6	50.6	14.3	25.3	4.85	53.6
Y	5.88	531								
Z	5.9					49	16	26	5.3	
AA	5.69	528	1.85	1.46	86.0	49.8	14.8	24.9	4.81	53.4
AB				1.4						
AC	6.0	525.6	1.871	1.496	88.2	50	15.2	24.9	4.6	55.4
AD	6.2	529	1.83	1.39	81.7	48.6	15.0	24.8	4.8	53.6
AE	5.9	527		1.432						
AF	5.97	526	1.94	1.40		51.5	16.0	24.8	4.77	53.2
AG	5.87	522	0.55	1.45	85.3	48.99	14.39	25.61	4.79	53.50

Measurement Uncertainties Sample N146A

	pH ±	Cond. ±	total- Hardn. ±	K _{S 4.3} ±	HCO ₃ ⁻ ±	Ca ²⁺ ±	Mg ²⁺ ±	Na ⁺ ±	K ⁺ ±	NO ₃ ⁻ ±
Unit		µS/cm	mmol/L	mmol/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		1	0.02	0.02	1.4	0.6	0.2	0.3	0.03	0.9
IFA result	0.20	16	0.08	0.07	5.0	2.5	0.8	1.3	0.33	2.6
Stability test										
A	0.2	15		0.1	5					
B	0.2	5		0.05						
C										
D	0.1	10		0.1						
E										
F	0.01	3		0.05						
G	0.1	13	0.2	0.08	5	3	2	2	0.3	6
H	0.05	5		0.05						0.8
I										
J										
K										
L	0.1	5	0.05	0.1	5	1	1			2
M										
N	0.05	5		0.1						
O	0.1	10	0.1	0.05		1	0.5			
P										
Q				0.021						1.78
R										
S										
T										
U										
V	0.2	22	0.10	0.10	7	2.5	0.7	1.2	0.2	5.0
W		10	0.13	0.07	4.0	2.5	0.8	1.2	0.2	2.7
X	0.06	1.1	0.046	0.08	1.69	0.70	1.04	0.50	0.479	0.48
Y										
Z	0.1					2.5	0.80	1.3	0.27	
AA						9.0	0.25	1.5	0.13	1.2
AB				0.14						
AC										
AD	0.2	21	0.98	0.11	7.0	2.3	1.0	1.3	0.2	6.6
AE	0.1	11		0.143						
AF	0.1	5	0.2	0.14		5.2	1.6	2.5	0.48	5.3
AG	0.20	10	0.07	0.13	7.7	4.90	1.15	2.31	0.43	4.82

Results Sample N146A

	pH	Cond.	total-Hardn.	K _{s 4.3}	HCO ₃ ⁻	Ca ²⁺	Mg ²⁺	Na ⁺	K ⁺	NO ₃ ⁻
Unit		µS/cm	mmol/L	mmol/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		526	1.90	1.46	86.3	50.8	15.4	25.2	4.86	54.3
IFA result	6.10	529	1.89	1.43	83.9	50.8	15.2	25.5	4.67	52.8
Stability test										
AH	5.97	791	1.84	1.45	87.6	49.1	14.9	24.5	4.7	54.0
AI	6.14	525	1.95	1.44	87.9	52.3	16.3	26.3	5.03	53.9
AJ	6.00	529	1.93	1.58	93.35	52.57	14.93	25.05	4.83	54.78
AK	5.85	531	1.87	1.49	90.92	45.2	13.7	22.8	4.4	52.9
AL	6.5		1.84			49.15	16.74	26.94	5.23	49.46
AM	6.08	528	1.92	1.41	83.0	51.1	15.6	24.5	4.68	53.0
AN	5.87	529	1.81	1.46	89.1	48.1	14.8	25.3	4.72	54.0
AO						51.4	15.3	26.2	5.07	
AP	5.80	530	1.87	1.38		49.95	15.08	25.40	4.96	55.48
AQ		529	1.90	1.51	89.3	50.8	15.4	24.8	4.75	56.4
AR	5.85	502				47.5	15.3		5.53	
AS										>30
AT				1.43						54.8
AU	6.20	534	1.84	1.44	84.8	49.4	14.6	24.5	4.84	54.8
AV	5.8	512	1.89	1.35	82.4	50.96	15.19	24.34	5.08	53.476
AW	5.94	519	1.9	1.39	85	50	14.8	25.4	4.7	54.5
AX	6.15	518	1.89	1.41	83.0	50.8	15.2	24.5	4.92	47.4
AY	6.2	524	1.88	1.443	85.1	49.9	15.5	25.0	5.0	53.7
AZ										54.9
BA				1.44						56.0
BB	5.9	513	2.1			57.5	15.2	24.6	4.60	52.5
BC	6.2	527	1.87	1.42	83.7	50.5	14.8	25.1	4.82	54.7
BD	5.81	534	1.89	1.46	89.2	51	15	25	5.1	54
BE	5.97	471	1.925	1.43	87.48	49.4	14.9	29.6	4.98	52.4
BF										
BG	5.8	526	2.49	1.36		52.5	15.9	27.0	4.75	53.4
BH	6.07	523	1.92	1.34	81.8	51.6	15.2	23.4	4.91	52.2
BI	5.98	521	2.0	1.5	90	50.2	15.4	25.5	5.20	64
BJ	6.3	520	1.88	1.5	92	51	14.9	24.1	4.9	57
BK	6.37	527.0	1.85	1.45	88.25	50.15	14.67	23.95	4.67	52.14
BL	5.87	513.5	1.81	1.48	87.3	47.46	15.1	24.84	4.89	54.74
BM										

Measurement Uncertainties Sample N146A

	pH ±	Cond. ±	total- Hardn. ±	K _{S 4.3} ±	HCO ₃ ⁻ ±	Ca ²⁺ ±	Mg ²⁺ ±	Na ⁺ ±	K ⁺ ±	NO ₃ ⁻ ±
Unit		µS/cm	mmol/L	mmol/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		1	0.02	0.02	1.4	0.6	0.2	0.3	0.03	0.9
IFA result	0.20	16	0.08	0.07	5.0	2.5	0.8	1.3	0.33	2.6
Stability test										
AH	0.11	15	0.42	0.09	4.0	4.9	0.9	1.5	0.5	3.2
AI	0.92	16	0.29	0.22	8.79	7.85	2.4	3.9	0.75	8.1
AJ	0.1	4.51		0.16		5.2	1.5	2.5	0.5	5.4
AK										
AL						4.42	1.51	2.42	0.37	10.0
AM	0.1	5	0.2	0.14	8	5.1	1.6	2.5	0.47	5.3
AN	0.18	16	0.20	0.16	9.8	5.8	1.3	2.5	0.57	4.9
AO						2.68	1.22	3.46	0.50	
AP			0.13	0.043		1.948	0.875	1.60	0.25	2.72
AQ		10	0.08	0.1	4.0	3.0	1.5	1.8	0.5	4.0
AR	0.04	20				4	1.5		0.5	
AS										
AT										
AU	0.30	16	0.21	0.05	2.6	4.5	1.3	2.0	0.34	4.9
AV	0.35	20.5		0.203	12.36	2.038	0.911	1.46	0.508	2.1391
AW	0.03	3	0.02	0.05	3	0.2	0.1	0.1	0.04	0.5
AX	0.006	0.577	0.007	0.0001	0.153	0.208	0.058	0.208	0.012	0.115
AY	0.02	10.0		0.097		3.44	2.03	2.38	0.51	5.58
AZ										1.4
BA										
BB	0.1	10	0.1			1.0	0.3	0.4	0.12	0.5
BC	0.3	22	0.1	0.1	4	5	1.8	4	0.7	4
BD			0.15	0.12	7	5.1	1.5	2.5	0.5	5.4
BE			0.17	0.13	7.9	4.94	1.49	2.96	0.50	5.24
BF										
BG	0.02	30	0.05	0.02		0.6	0.6	0.3	0.06	0.5
BH	0.05	16	0.16	0.07	3.9	2.4	1.3	1.7	0.35	5.2
BI	0.06	52	0.2	0.2	9	5	1.5	2.5	0.52	6.4
BJ	0.2	52	0.19	0.15	9.2	5.1	1.5	2.4	0.49	5.7
BK										
BL	0.130	5.032	0.18	0.084	8.7	3.132	0.513	2.062	0.462	3.482
BM										

Results Sample N146A

	NO₂⁻	NH₄⁺	Cl⁻	SO₄²⁻	o-PO₄³⁻	Boron	DOC	total-P (as PO₄³⁻)	Silicon	F⁻
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value	0.032	0.028	43.3	70.5	<0.009	0.045	1.18	<0.009	1.00	0.605
IFA result	0.032	0.029	42.1	70.7	<0.009	0.044	1.09	<0.009	0.99	0.610
Stability test	0.031	0.028			<0.009		1.22			
A	0.033	0.033			<0.015			<0.015		
B										
C	0.037	0.025	42.6		<0.02			<0.02	1.05	0.588
D	0.0328	0.0317			<0.02		1.27	0.0220		
E	0.034	0.040	41.1		<0.02			<0.02	1.02	
F	0.030	0.03			<0.015			<0.015	1.05	
G	0.032	0.062	42.4	70.9	<0.02	0.0480	1.49	<0.03	1.01	0.53
H	0.036	0.03	42.2		<0.015			<0.015	0.98	
I	0.033	0.035			<0.02		1.06	<0.02	1.02	
J	0.0324	0.031	42.1		<0.02		1.38	<0.02	1.02	
K	0.0313	0.028	42.8	70.7	<0.015			<0.0153	0.951	0.60
L	0.04	0.03	42		<0.015			<0.015	1.01	0.6
M	0.034	0.03			<0.02			<0.02	0.98	
N	0.0329	0.0316			<0.02					
O	0.033	0.033	42		<0.015			<0.015	0.94	
P	0.03	0.03	42.0	67	<0.02		1.0	<0.02	0.9	
Q	0.03	<0.03	41	68	<0.15		1.08	<0.015		0.60
R	0.032	0.032	42.1		<0.006			<0.006		
S	0.034	0.023	41.9	71.2	<0.01		1.3	<0.01		
T			43.57	75.45		0.045			0.996	0.52
U	0.086	0.029	41.65	67.43	<0.10	0.044		0.016	0.287	0.614
V	0.032	0.03	41.57	70.40	<0.04	0.041	1.5	0.19		0.42
W	0.029	0.027	41.8	71.4	<0.02	0.038	0.97		1.1	0.59
X	0.0309	0.0349	43.3	70.6	[0.0035]	0.044	1.19	[0.0032]	0.883	0.62
Y										
Z		0.040				0.044				
AA	0.038	0.046	43.2	72.9	[0.002]	0.045	1.259	[0.00128]	1.209	0.57
AB										
AC	0.26	0.04	42.7	72.8	<0.03	0.152	1.5	<0.015		0.6
AD	0.032	0.026	43.0	71.0	<0.01	0.0435	1.7	<0.01		0.58
AE		0.033					1.19	0.78	3.61	0.58
AF	0.032	0.029	39.8	70.1						0.63
AG	0.0315	0.026	41.43	69.11	<0.01	0.0418	1.53	<0.01	1.00	0.54

Measurement Uncertainties Sample N146A

	$\text{NO}_2^- \pm$	$\text{NH}_4^+ \pm$	$\text{Cl}^- \pm$	$\text{SO}_4^{2-} \pm$	$\text{o-PO}_4^{3-} \pm$	Boron \pm	DOC \pm	total-P (as PO_4^{3-}) \pm	Silicon \pm	F- \pm
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value	0.001	0.004	0.6	0.4		0.001	0.04		0.02	0.004
IFA result	0.001	0.002	2.1	2.1		0.004	0.04		0.10	0.049
Stability test	0.001	0.002					0.05			
A	0.003	0.004			0.005			0.005		
B										
C										
D	0.001	0.001					0.1	0.001		
E										
F	0.003	0.01			0.003			0.003	0.05	
G	0.003	0.006	5	8	0.002	0.005	0.2	0.003	0.1	0.05
H	0.004	0.01	3						0.05	
I										
J										
K										
L	0.05	0.02	2		0.01			0.01	0.1	0.2
M										
N	0.005	0.005			0.005					
O	0.005	0.005	1						0.1	
P										
Q	0.0005		1.7	2.4			0.134			0.008
R										
S										
T										
U										
V	0.003	0.005	4.0	7.0		0.004	0.15	0.02		0.04
W	0.003	0.003	2.1	3.6		0.004	0.15		0.1	0.03
X	0.0008	0.0011	0.80	0.72		0.002	0.01		0.019	0.01
Y										
Z		0.0040				0.0022				
AA	0.001	0.002	0.5	2.6		0.003			0.020	0.13
AB										
AC										
AD	0.005	0.006	3.4	6.5		0.0070	0.3			0.12
AE		0.010					0.10	0.21	0.29	0.07
AF	0.005	0.005	4.0	7.0						0.1
AG	0.0022	0.004	4.97	6.91		0.0088	0.11		0.10	0.03

Results Sample N146A

	NO₂⁻	NH₄⁺	Cl⁻	SO₄²⁻	o-PO₄³⁻	Boron	DOC	total-P (as PO₄³⁻)	Silicon	F⁻
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value	0.032	0.028	43.3	70.5	<0.009	0.045	1.18	<0.009	1.00	0.605
IFA result	0.032	0.029	42.1	70.7	<0.009	0.044	1.09	<0.009	0.99	0.610
Stability test	0.031	0.028			<0.009		1.22			
AH	0.032	0.033	41.9	70.1	0.014	0.044	1.2	0.015		1.34
AI	0.032	0.032	41.9	72.7	<0.015	0.048	1.38	<0.015	1.11	<1
AJ	0.033	0.0254	44.60	69.94	<0.0015		1.39	<0.0018		
AK	0.036	<0.05	41.5	62.9	0.22			0.32		0.44
AL		0.07	40.65	67.66						
AM	0.032	0.028	39.9	69.9	<0.005		1.301	<0.005		
AN	0.030	0.026	42.8	71.9	<0.01	0.047	2.02	<0.01		0.67
AO										
AP	0.0324	0.0854	43.04	71.36	<0.005		1.21	<0.005	2.09	
AQ	0.031	0.033	41.6	69.0			1.26	<0.030		0.63
AR				126						
AS		0.023			<0.019		1.13	<0.02		
AT	0.033		42.0	70.9				<0.03		0.59
AU	0.034	0.028	42.6	70.6	<0.006	0.046	1.17	<0.006	0.99	0.48
AV	0.033	0.019	42.76	69.23	<0.006	0.049	1.4	0.0767		
AW	0.030	0.023	42.8	72.8			1.44			0.6
AX	0.0099	0.0329	40.1	64.5	<0.015	0.0461	1.23	<0.015	0.994	0.49
AY	0.031	<0.05	41.5	69.7		0.046	1.19			
AZ	0.027		42.8	72.1				<0.003		0.550
BA	0.036		44.4	71.9				<0.03		0.584
BB		0.26	41.0	67.7	'0.01				0.95	0.57
BC	0.033	0.027	42.1	71.1	<0.01		1.19	<0.013	0.96	
BD	0.027	0.024	44	71	<0.02	0.042	1.040	<0.15		0.76
BE	0.031	n.n	41.3	70.7	n.n		1.21	0.071		0.570
BF						0.045				
BG	0.024	<0.03	42.0	70.5		<0.05	1.32			0.58
BH	0.040	0.027	42.1	71.4	<0.015	0.043	1.10	<0.015	0.983	0.578
BI	0.11	<0.05	53.2	81	2	<0.1				0.4
BJ	0.034	0.034	43.7	71	<0.008	0.042	1.7	<0.015	1.0	0.61
BK	0.029	0.04	42.16	69.75	0.029					0.56
BL	0.025	0.033	42.58	72.00	0.006	0.042	1.287	<0.010	0.955	0.584
BM										

Measurement Uncertainties Sample N146A

	$\text{NO}_2^- \pm$	$\text{NH}_4^+ \pm$	$\text{Cl}^- \pm$	$\text{SO}_4^{2-} \pm$	$\text{o-PO}_4^{3-} \pm$	Boron \pm	DOC \pm	total-P (as PO_4^{3-}) \pm	Silicon \pm	F- \pm
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value	0.001	0.004	0.6	0.4		0.001	0.04		0.02	0.004
IFA result	0.001	0.002	2.1	2.1		0.004	0.04		0.10	0.049
Stability test	0.001	0.002					0.05			
AH	0.002	0.014	3.4	4.2	0.002	0.004	0.2	0.002		0.13
AI	0.005	0.005	6.3	10.9		0.007	0.21		0.17	
AJ	0.003	0.002	4.5	6.9			0.14			
AK										
AL		0.01	5.28	12.18						
AM	0.003	0.003	3.9	6.9			0.13			
AN	0.005	0.005	4.3	5.0		0.007	0.30			0.10
AO										
AP	0.0020	0.0058	1.68	3.28			0.12		0.10	
AQ	0.005	0.005	3.0	4.0			0.15			0.1
AR				10						
AS		0.011					0.05			
AT										
AU	0.005	0.005	2.1	3.5		0.007	0.11		0.15	0.10
AV	0.0026	0.0019	1.711	4.154		0.0059	0.11	0.0116		
AW	0.01	0.01	0.3	0.7			0.13			0.06
AX	0.0001	0.0004	0.580	0.304	0.0001	0.0001	0.012		0.006	0.006
AY	0.008		5.81	6.62		0.005	0.22			
AZ	0.005		1.1	1.9						0.03
BA										
BB		0.02	0.3	0.5	0.005				0.07	0.02
BC	0.003	0.004	3	5			0.2		0.1	
BD	0.005	0.005	4.4	7.1		0.0034	0.218			0.08
BE	0.006		4.13	10.6			0.24	0.014		0.086
BF										
BG	0.015	0.08	0.25	3.0		0.07	0.03			0.08
BH	0.004	0.002	2.8	3.6		0.005	0.18		0.087	0.058
BI	0.01		5.3	8.1	0.2					0.04
BJ	0.003	0.003	4.4	7.1		0.004	0.17		0.1	0.06
BK										
BL	0.004	0.004	5.13	7.949	0.001	0.006	0.158		0.270	0.120
BM										

Results Sample N146B

	pH	Cond.	total-Hardn.	K _{S 4.3}	HCO ₃ ⁻	Ca ²⁺	Mg ²⁺	Na ⁺	K ⁺	NO ₃ ⁻
Unit		µS/cm	mmol/L	mmol/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		270	0.560	1.37	80.4	16.3	3.73	32.6	2.93	16.6
IFA result	6.53	271	0.548	1.34	79.0	16.0	3.61	33.2	2.92	16.3
Stability test			0.558							
A	6.58	271		1.35	82					
B	6.3	268		1.30						
C	6.13	270		1.37	83.4	15.9				15.0
D	6.65	273		1.36						
E	6.24	265		1.31						15.3
F	6.43	270		1.35						
G	6.33	268	0.553	1.35	82.4	16.1	3.67	31.6	2.95	16.0
H	6.22	270		1.36						15.8
I	6.20	270	0.52	1.35		14.8	3.7			
J	6.24	288		1.32	80.5					
K	6.33	272	0.3	1.33						16.7
L	6.25	272	0.54	1.32	80.7	15.9	3.4			16
M	6.3	269		1.34						
N	6.08	270		1.33						
O	6.3	268	0.56	1.36	83	16	3.8			
P	6.30	272		1.34						16.3
Q	7.46	273		1.35						16.0
R	6.25	269		1.36	80.0					16.2
S	6.30	273	0.57	1.38	81.2	16.3	3.9	31.5	2.8	16.5
T	6.345		0.567	1.332	81.24	16.69	3.648	31.73	2.65	16.55
U	6.63	279	0.62	1.4	82.7	16.00	3.96	33.21	3.025	17.17
V	6.8	274	0.59	1.37	84.0	15.97	3.6	32.6	2.9	15.02
W		269	0.56	1.26	77.0	16.3	3.7	32.7	2.9	15.8
X	6.83	258	0.524	1.35	79.5	15.3	3.46	32.6	2.97	16.4
Y	6.33	274								
Z	6.4					16	3.5	33	3.3	
AA	6.07	270	0.62	1.33	78.1	18.3	4.04	32.3	2.94	16.7
AB				1.3						
AC	6.4	271.2	0.553	1.392	81.9	16.1	3.7	32.4	2.7	16.4
AD	6.6	319	0.545	1.31	77.1	15.8	3.6	31.7	2.9	16.8
AE	6.3	269		1.339						
AF	6.43	271	0.56	1.32		16.4	3.78	31.2	2.78	15.6
AG	6.28	267	0.21	1.35	79.5	16.02	3.54	31.22	2.87	16.55

Measurement Uncertainties Sample N146B

	pH ±	Cond. ±	total- Hardn.±	K _{S 4.3} ±	HCO ₃ ⁻ ±	Ca ²⁺ ±	Mg ²⁺ ±	Na ⁺ ±	K ⁺ ±	NO ₃ ⁻ ±
Unit		µS/cm	mmol/L	mmol/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		1	0.006	0.01	0.7	0.2	0.05	0.2	0.02	0.3
IFA result	0.20	8	0.022	0.07	4.7	0.8	0.18	1.7	0.20	0.8
Stability test			0.022							
A	0.2	15		0.1	5					
B	0.2	5		0.05						
C										
D	0.1	10		0.1						
E										
F	0.01	3		0.05						
G	0.1	7	0.06	0.08	5	1	0.4	2	0.2	2
H	0.05	5		0.05						0.4
I										
J										
K										
L	0.1	5	0.05	0.1	5	1	1			2
M										
N	0.05	5		0.1						
O	0.1	10	0.1	0.05		1	0.5			
P										
Q				0.019						0.55
R										
S										
T										
U										
V	0.2	13	0.05	0.13	5	0.75	0.15	1.5	0.15	1.1
W		5	0.04	0.06	3.9	0.8	0.2	1.6	0.1	0.8
X	0.07	0.2	0.018	0.08	1.59	0.73	0.049	0.51	0.056	0.28
Y										
Z	0.1					0.80	0.18	1.7	0.17	
AA						0.7	0.26	1.5	0.13	0.7
AB				0.13						
AC										
AD	0.2	13	0.32	0.11	7.0	0.8	0.3	1.6	0.2	2.1
AE	0.1	5		0.134						
AF	0.1	5	0.1	0.13		1.7	0.38	3.2	0.28	1.6
AG	0.20	5	0.03	0.12	7.2	1.60	0.28	2.81	0.26	1.49

Results Sample N146B

	pH	Cond.	total-Hardn.	K _{S 4.3}	HCO ₃ ⁻	Ca ²⁺	Mg ²⁺	Na ⁺	K ⁺	NO ₃ ⁻
Unit		µS/cm	mmol/L	mmol/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		270	0.560	1.37	80.4	16.3	3.73	32.6	2.93	16.6
IFA result	6.53	271	0.548	1.34	79.0	16.0	3.61	33.2	2.92	16.3
Stability test			0.558							
AH	6.34	267	0.54	1.36	83.7	15.6	3.4	32.0	2.7	16.3
AI	6.47	263	0.56	1.32	80.5	15.5	4.42	33.8	3.42	16.2
AJ	6.46	267	0.57	1.46	86.02	16.93	3.55	32.48	2.97	17.11
AK	6.18	271	0.57	1.39	84.81	14.7	3.4	26.9	1.7	16.1
AL	7.4		0.54			17.05	3.74	35.21	2.97	16.75
AM	6.48	272	0.57	1.33	78.1	16.5	3.78	31.3	2.82	15.6
AN	6.35	273	0.54	1.38	84.2	15.5	3.62	32.0	2.81	16.6
AO						16.6	3.70	34.5	3.08	
AP	6.33	272	0.57	1.30		15.99	4.10	32.90	3.02	16.45
AQ		273	0.541	1.34	78.8	15.9	3.5	32.3	2.74	17.3
AR	6.29	260				14.8	3.75		3.45	
AS										16.12
AT				1.36						16.2
AU	6.55	270	0.556	1.35	79.3	16.3	3.59	31.8	2.96	16.1
AV	6.3	258	0.553	1.31	79.9	16.3	3.68	30.69	3.16	16.275
AW	6.5	268	0.5	1.35	82	15.3	3.4	32.9	2.8	16.7
AX	6.49	267	0.558	1.33	78.9	16.3	3.69	31.3	2.85	14.5
AY	6.6	269	0.53	1.366	80.4	15.6	3.5	32.5	3.1	15.8
AZ										16.2
BA				1.36						15.7
BB	6.5	269	0.6			17.7	3.59	31.4	2.83	15.8
BC	6.6	270	0.547	1.36	80.2	16.0	3.59	32.3	2.96	16.6
BD	6.23	274	0.55	1.37	83.6	16	3.7	33	2.9	16
BE	6.49	242	0.567	1.35	82.44	15.4	3.43	34.1	3.01	15.5
BF										
BG	6.0	275	0.77	1.26		17.1	3.4	35.0	2.97	16.0
BH	6.47	267	0.566	1.29	78.7	16.5	3.73	30.4	2.93	16.3
BI	6.44	269	0.7	1.4	84	16.4	3.8	33.3	3.21	19
BJ	6.5	263	0.566	1.4	86	16.7	3.7	31.1	3.0	17.2
BK	6.92	270.0	0.57	1.38	83.99	16.85	3.60	31.02	2.82	16.12
BL	6.4	266.5	0.54	1.39	81.8	15.66	3.65	31.02	2.87	17.07
BM										

Measurement Uncertainties Sample N146B

	pH ±	Cond. ±	total- Hardn.±	K _{S 4.3} ±	HCO ₃ ⁻ ±	Ca ²⁺ ±	Mg ²⁺ ±	Na ⁺ ±	K ⁺ ±	NO ₃ ⁻ ±
Unit		µS/cm	mmol/L	mmol/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value		1	0.006	0.01	0.7	0.2	0.05	0.2	0.02	0.3
IFA result	0.20	8	0.022	0.07	4.7	0.8	0.18	1.7	0.20	0.8
Stability test			0.022							
AH	0.11	5	0.12	0.08	3.0	1.6	0.2	1.9	0.3	1.0
AI	0.67	8	0.08	0.20	8.05	2.3	0.66	5.1	0.51	2.4
AJ	0.1	4.51		0.15		2.0	0.35	3.2	0.3	1.7
AK										
AL						1.53	0.34	3.17	0.21	3.02
AM	0.1	5	0.1	0.13	8	1.7	0.38	3.2	0.29	1.6
AN	0.19	8.2	0.06	0.15	9.3	1.9	0.33	3.2	0.34	1.5
AO						0.87	0.30	4.56	0.30	
AP			0.04	0.040		0.624	0.238	2.07	0.15	0.81
AQ		5	0.04	0.1	4.0	1.3	0.4	2.0	0.3	1.7
AR	0.04	20				1.6	0.4		0.3	
AS										0.38
AT										
AU	0.30	8	0.067	0.05	2.4	1.5	0.35	2.5	0.22	1.5
AV	0.38	10.3		0.197	11.99	0.652	0.221	1.841	0.316	0.651
AW	0.03	2	0.01	0.05	3	0.1	0.1	0.2	0.02	0.1
AX	0.006	0.0001	0.002	0.0001	0.058	0.058	0.006	0.100	0.015	0.025
AY	0.02	7.3		0.092		1.08	0.46	3.09	0.32	1.64
AZ										0.5
BA										
BB	0.1	10	0.1			1.0	0.11	0.1	0.16	0.2
BC	0.3	11	0.03	0.1	4	1.3	0.5	5	0.4	1.2
BD			0.044	0.11	6.7	1.6	0.37	3.3	0.29	1.6
BE			0.05	0.12	7.4	1.54	0.34	3.41	0.30	1.55
BF										
BG	0.02	30	0.05	0.02		0.6	0.6	0.3	0.06	0.5
BH	0.05	8	0.047	0.06	3.8	0.8	0.31	2.1	0.21	1.6
BI	0.06	27	0.07	0.1	8	1.6	0.4	3.3	0.32	1.9
BJ	0.2	26.3	0.057	0.14	8.6	1.7	0.37	3.1	0.3	1.7
BK										
BL	0.083	2.612	0.05	0.079	8.2	1.034	0.197	2.575	0.271	1.538
BM										

Results Sample N146B

	NO₂⁻	NH₄⁺	Cl⁻	SO₄²⁻	o-PO₄³⁻	Boron	DOC	total-P (as PO₄³⁻)	Silicon	F⁻
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value	0.0091	<0.01	11.5	28.9	0.160	0.185	2.16	0.070	2.99	1.51
IFA result	0.0096	<0.01	11.1	29.5	0.161	0.195	2.03	0.084	2.91	1.50
Stability test	0.0091	<0.01			0.161		2.20			
A	<0.016	<0.026			0.150			0.066		
B										
C	<0.02	<0.02	11.5		0.161			0.066	3.09	1.474
D	<0.02	<0.03			0.166		2.35	0.0741		
E	<0.02	0.037	11.3		0.161			0.068	2.92	
F	<0.015	<0.03			0.155			0.068	3.1	
G	0.010	<0.03	11.1	28.0	0.160	0.197	2.49	0.083	3.03	1.38
H	<0.016	<0.03	11.5		0.158			0.071	2.93	
I	<0.02	0.016			0.162		2.05	0.072	3.06	
J	<0.02	<0.02	11.7		0.163		2.40	0.074	3.03	
K	<0.0164	<0.025	10.8	28.8	0.154			0.0607	2.89	1.49
L	<0.02	<0.02	11		0.158			0.068	3.03	1.5
M	<0.02	<0.03			0.166			0.069	2.92	
N	<0.02	<0.01			0.163					
O	<0.02	<0.02	11		0.165			0.069	2.89	
P	<0.02	<0.02	11.4	29	0.12		1.8	0.0729	2.8	
Q	<0.03	<0.03	<10	27	0.16		2.00	0.072		1.51
R	0.009	0.008	11.0		0.167			0.069		
S	<0.01	<0.01	11.4	28.8	0.156		2.3	0.067		
T			11.43	29.13		0.187			2.938	1.39
U	0.069	<0.06	11.66	28.51	0.14	0.185		0.540	2.89	1.472
V	0.008	<0.01	10.59	26.75	0.16	0.199	2.48	0.102		1.15
W	0.008	<0.02	11.1	28.7	0.174	0.179	1.93		3.1	1.52
X	<0.0100	<0.0100	11.7	29.0	0.1587	0.186	2.13	0.0753	2.78	1.53
Y										
Z		0.0097				0.19				
AA	0.0146	0.015	11.6	29.5	0.157	0.184	2.199	0.062	3.518	1.31
AB										
AC	0.012	<0.03	11.2	28.4	0.163	0.042	2.5	0.147		1.5
AD	0.009	<0.01	11.2	30.0	0.162	0.182	2.7	0.0675		1.5
AE		<0.010					2.17	0.16	2.95	1.52
AF	<0.010	<0.010	10.7	27.6						1.57
AG	0.0095	<0.01	11.11	28.66	0.145	0.1734	2.51	0.062	2.91	1.43

Measurement Uncertainties Sample N146B

	$\text{NO}_2^- \pm$	$\text{NH}_4^+ \pm$	$\text{Cl}^- \pm$	$\text{SO}_4^{2-} \pm$	$\text{o-PO}_4^{3-} \pm$	Boron	$\text{DOC} \pm$	total-P (as PO_4^{3-}) \pm	Silicon \pm	$\text{F}^- \pm$
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Target value	0.0002		0.1	0.2	0.002	0.001	0.04	0.001	0.07	0.01
IFA result	0.0004		0.6	0.9	0.006	0.018	0.08	0.018	0.29	0.12
Stability test	0.0004				0.006		0.09			
A	0.005	0.009			0.015			0.006		
B										
C										
D					0.01		0.1	0.001		
E										
F	0.003	0.01			0.003			0.003	0.05	
G	0.001	0.003	1	3	0.02	0.02	0.3	0.008	0.3	0.1
H			1		0.005			0.005	0.1	
I										
J										
K										
L	0.05	0.02	2		0.01			0.01	0.1	0.2
M										
N	0.005	0.005			0.005					
O			1		0.005			0.005	0.1	
P										
Q				0.9	0.015		0.249	0.0023		0.021
R										
S										
T										
U										
V	0.001		1.0	2.5	0.02	0.01	0.24	0.01		0.10
W	0.001		0.6	1.4	0.009	0.009	0.29		0.2	0.23
X			0.09	0.35	0.0031	0.002	0.01	0.0028	0.040	0.06
Y										
Z		0.00097				0.0095				
AA	0.0015	0.003	0.5	1.2	0.0008	0.003		0.004	0.103	0.12
AB										
AC										
AD	0.003		1.1	2.9	0.020	0.024	0.5	0.0105		0.3
AE							0.17	0.04	0.24	0.18
AF			1.1	2.8						0.16
AG	0.0007		1.33	2.87	0.022	0.0364	0.18	0.009	0.29	0.09

Results Sample N146B

	NO₂⁻	NH₄⁺	Cl⁻	SO₄²⁻	o-PO₄³⁻	Boron	DOC	total-P (as PO₄³⁻)	Silicon	F⁻
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value	0.0091	<0.01	11.5	28.9	0.160	0.185	2.16	0.070	2.99	1.51
IFA result	0.0096	<0.01	11.1	29.5	0.161	0.195	2.03	0.084	2.91	1.50
Stability test	0.0091	<0.01			0.161		2.20			
AH	0.010	<0.02	11.7	28.5	0.163	0.181	2.1	0.068		2.45
AI	0.008	<0.04	9.93	28.5	0.160	0.198	2.19	0.084	3.05	1.23
AJ	<0.0099	<0.0020	11.46	29.52	0.159		2.23	0.067		
AK	0.021	<0.05	11.7	21.2	0.092			0.18		1.08
AL		0.04	12.09	27.71				0.104		
AM	<0.010	<0.010	10.7	27.4	0.161		2.158	0.067		
AN	<0.01	<0.01	11.9	29.4	0.16	0.20	3.23	0.085		1.51
AO										
AP	0.0093	<0.006	11.49	29.47	0.1369		2.19	0.0805	6.30	
AQ	<0.010	<0.020	11.2	28.5	0.160		2.20	0.080		1.43
AR				76.0						
AS		<0.01			0.132		1.86	0.054		
AT	0.012		11.2	29.4				0.08		1.47
AU	0.010	<0.008	10.5	29.3	0.166	0.190	2.13	0.071	2.93	1.46
AV	0.01	0.00064	11.33	28.59	0.147	0.199	2.4	<0.015		
AW	<0.01	<0.01	10.8	29.8			2.45			1.3
AX	0.0029	0.00516	10.4	26.7	0.136	0.191	2.22	0.0619	2.91	1.43
AY	0.010	<0.05	10.0	28.1		0.192	2.15			
AZ	0.008		11.1	29.1				0.066		1.49
BA	0.010		11.7	28.7				0.077		1.53
BB		0.22	10.9	27.7	0.15				2.87	1.48
BC	<0.01	<0.013	11.3	29.1	0.161		2.11	0.071	2.99	
BD	<0.01	<0.01	12	29	0.16	0.18	2.0	<0.15		1.4
BE	0.008	n.n	10.8	28.8	0.15		2.16	0.236		1.46
BF						0.175				
BG	0.008	<0.03	11.2	28.7		0.18	2.35			1.30
BH	0.0125	<0.01	11.4	28.9	0.166	0.186	1.99	0.072	2.87	1.45
BI	<0.05	<0.05	13.2	36	4	0.186				1.3
BJ	0.010	<0.01	11.7	29.3	0.159	0.176	2.4	0.067	3.0	1.4
BK	<0.02	<0.02	11.01	28.7	0.155					1.47
BL	<0.01	<0.01	11.68	28.92	0.159	0.152	2.293	0.0485	3.036	1.466
BM										

Measurement Uncertainties Sample N146B

	$\text{NO}_2^- \pm$	$\text{NH}_4^+ \pm$	$\text{Cl}^- \pm$	$\text{SO}_4^{2-} \pm$	$\text{o-PO}_4^{3-} \pm$	Boron	$\text{DOC} \pm$	$\text{total-P (as PO}_4^{3-}) \pm$	Silicon	$\text{F}^- \pm$
Unit	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Target value	0.0002		0.1	0.2	0.002	0.001	0.04	0.001	0.07	0.01
IFA result	0.0004		0.6	0.9	0.006	0.018	0.08	0.018	0.29	0.12
Stability test	0.0004				0.006		0.09			
AH	0.001	0.004	0.9	1.7	0.026	0.013	0.3	0.009		0.25
AI	0.001		1.49	4.3	0.024	0.030	0.33	0.013	0.46	0.18
AJ			1.2	2.9	0.016		0.22	0.007		
AK										
AL		0.01	1.57	4.99				0.042		
AM			1.7	2.7	0.016		0.216	0.007		
AN			1.2	2.1	0.03	0.024	0.48	0.013		0.21
AO										
AP	0.0006		0.45	1.36	0.0119		0.21	0.0080	0.32	
AQ			1.1	2.5	0.024		0.20	0.012		0.2
AR				10						
AS					0.015		0.17	0.004		
AT										
AU	0.003		0.6	1.5	0.017	0.028	0.19	0.008	0.44	0.22
AV	0.0008		0.453	1.716	0.0177	0.0239	0.19			
AW			0.1	0.3			0.22			0.13
AX	0.0001	0.0001	0.012	0.151	0.0013	0.0006	0.017	0.0001	0.012	0.0001
AY	0.002		1.40	2.67		0.021	0.40			
AZ	0.002		0.3	0.9				0.005		0.03
BA										
BB		0.02	0.1	0.1	0.03				0.07	0.10
BC			0.8	2	0.02		0.4	0.008	0.3	
BD			1.2	2.9	0.032	0.0144	0.42			0.14
BE	0.006		1.08	4.32	0.04		0.44	0.047		0.22
BF										
BG	0.015	0.08	0.25	3.0		0.07	0.03			0.08
BH	0.002		0.8	1.4	0.017	0.023	0.32	0.007	0.26	0.15
BI			1.3	3.6	0.4	0.02				0.13
BJ	0.001		1.2	2.9	0.016	0.018	0.24	0.007	0.3	0.14
BK										
BL			2.13	3.193	0.025	0.23	0.345	0.009	0.858	0.212
BM										

Sample N146A

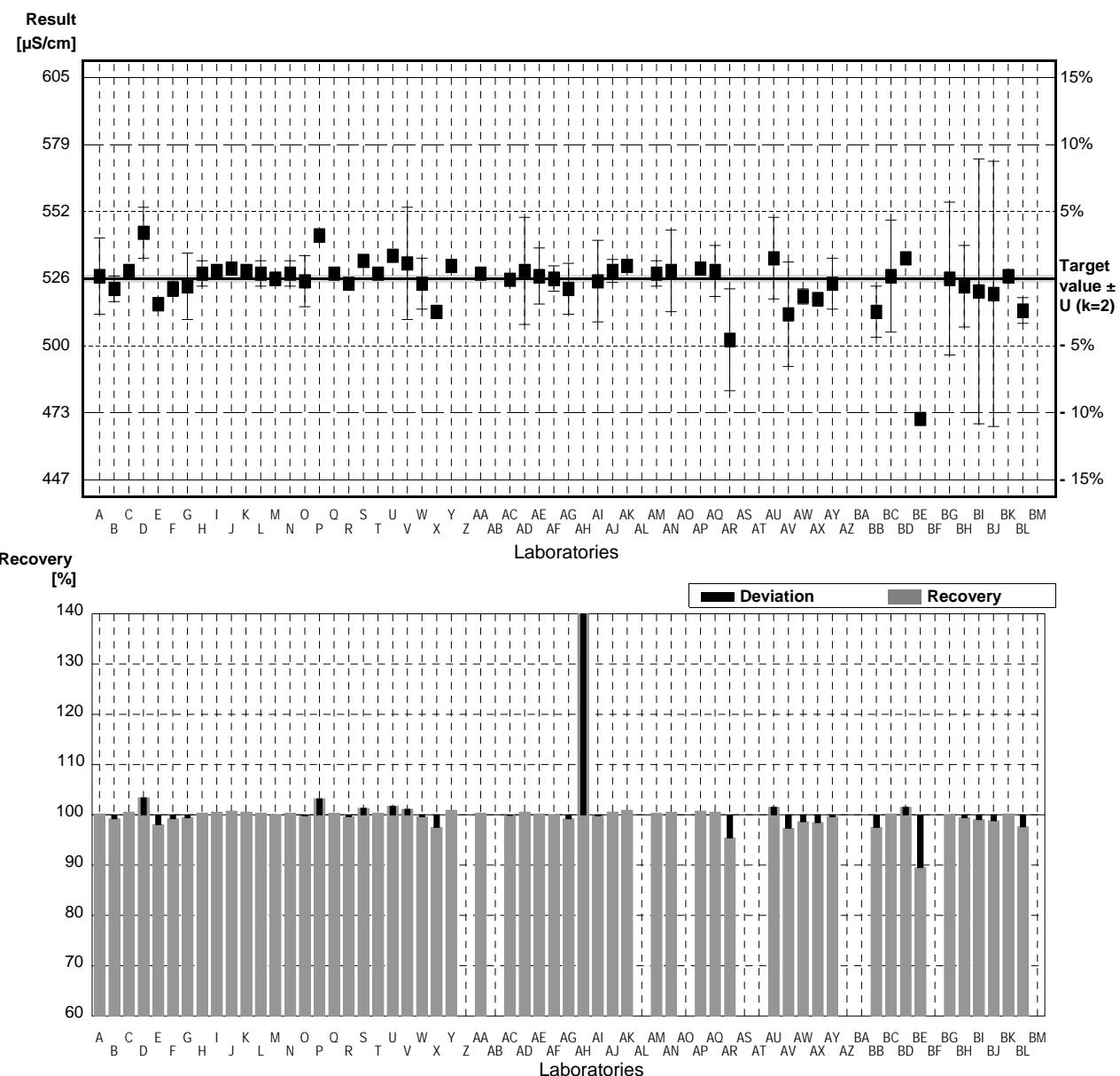
Parameter Conductivity

Target value $\pm U$ ($k=2$) 526 $\mu\text{S}/\text{cm}$ \pm 1 $\mu\text{S}/\text{cm}$

IFA result $\pm U$ ($k=2$) 529 $\mu\text{S}/\text{cm}$ \pm 16 $\mu\text{S}/\text{cm}$

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

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	527	15	$\mu\text{S}/\text{cm}$	100%	0,15
B	522	5	$\mu\text{S}/\text{cm}$	99%	-0,58
C	529		$\mu\text{S}/\text{cm}$	101%	0,44
D	544 *	10	$\mu\text{S}/\text{cm}$	103%	2,63
E	516		$\mu\text{S}/\text{cm}$	98%	-1,46
F	522	3	$\mu\text{S}/\text{cm}$	99%	-0,58
G	523	13	$\mu\text{S}/\text{cm}$	99%	-0,44
H	528	5	$\mu\text{S}/\text{cm}$	100%	0,29
I	529		$\mu\text{S}/\text{cm}$	101%	0,44
J	530		$\mu\text{S}/\text{cm}$	101%	0,58
K	529		$\mu\text{S}/\text{cm}$	101%	0,44
L	528	5	$\mu\text{S}/\text{cm}$	100%	0,29
M	526		$\mu\text{S}/\text{cm}$	100%	0,00
N	528	5	$\mu\text{S}/\text{cm}$	100%	0,29
O	525	10	$\mu\text{S}/\text{cm}$	100%	-0,15
P	543 *		$\mu\text{S}/\text{cm}$	103%	2,49
Q	528		$\mu\text{S}/\text{cm}$	100%	0,29
R	524		$\mu\text{S}/\text{cm}$	100%	-0,29
S	533		$\mu\text{S}/\text{cm}$	101%	1,02
T	528		$\mu\text{S}/\text{cm}$	100%	0,29
U	535		$\mu\text{S}/\text{cm}$	102%	1,32
V	532	22	$\mu\text{S}/\text{cm}$	101%	0,88
W	524	10	$\mu\text{S}/\text{cm}$	100%	-0,29
X	513 *	1,1	$\mu\text{S}/\text{cm}$	98%	-1,90
Y	531		$\mu\text{S}/\text{cm}$	101%	0,73
Z			$\mu\text{S}/\text{cm}$		
AA	528		$\mu\text{S}/\text{cm}$	100%	0,29
AB			$\mu\text{S}/\text{cm}$		
AC	525,6		$\mu\text{S}/\text{cm}$	100%	-0,06
AD	529	21	$\mu\text{S}/\text{cm}$	101%	0,44
AE	527	11	$\mu\text{S}/\text{cm}$	100%	0,15
AF	526	5	$\mu\text{S}/\text{cm}$	100%	0,00
AG	522	10	$\mu\text{S}/\text{cm}$	99%	-0,58
AH	791 *	15	$\mu\text{S}/\text{cm}$	150%	38,75
AI	525	16	$\mu\text{S}/\text{cm}$	100%	-0,15
AJ	529	4,51	$\mu\text{S}/\text{cm}$	101%	0,44
AK	531		$\mu\text{S}/\text{cm}$	101%	0,73
AL			$\mu\text{S}/\text{cm}$		
AM	528	5	$\mu\text{S}/\text{cm}$	100%	0,29
AN	529	16	$\mu\text{S}/\text{cm}$	101%	0,44
AO			$\mu\text{S}/\text{cm}$		



AP	530		µS/cm	101%	0,58
AQ	529	10	µS/cm	101%	0,44
AR	502 *	20	µS/cm	95%	-3,51
AS			µS/cm		
AT			µS/cm		
AU	534	16	µS/cm	102%	1,17
AV	512 *	20,5	µS/cm	97%	-2,05
AW	519	3	µS/cm	99%	-1,02
AX	518	0,577	µS/cm	98%	-1,17
AY	524	10,0	µS/cm	100%	-0,29
AZ			µS/cm		
BA			µS/cm		
BB	513 *	10	µS/cm	98%	-1,90
BC	527	22	µS/cm	100%	0,15
BD	534		µS/cm	102%	1,17
BE	471 *		µS/cm	90%	-8,04
BF			µS/cm		
BG	526	30	µS/cm	100%	0,00
BH	523	16	µS/cm	99%	-0,44
BI	521	52	µS/cm	99%	-0,73
BJ	520	52	µS/cm	99%	-0,88
BK	527,0		µS/cm	100%	0,15
BL	513,5	5,032	µS/cm	98%	-1,83
BM			µS/cm		
	All results	Outliers excl.	Unit		
Mean ± CI(99%)	530 ± 13	526 ± 2	µS/cm		
Recov. ± CI(99%)	100,7 ± 2,6	100,1 ± 0,3	%		
SD between labs	37	5	µS/cm		
RSD between labs	7,0	0,9	%		
n for calculation	55	47			

Sample N146B

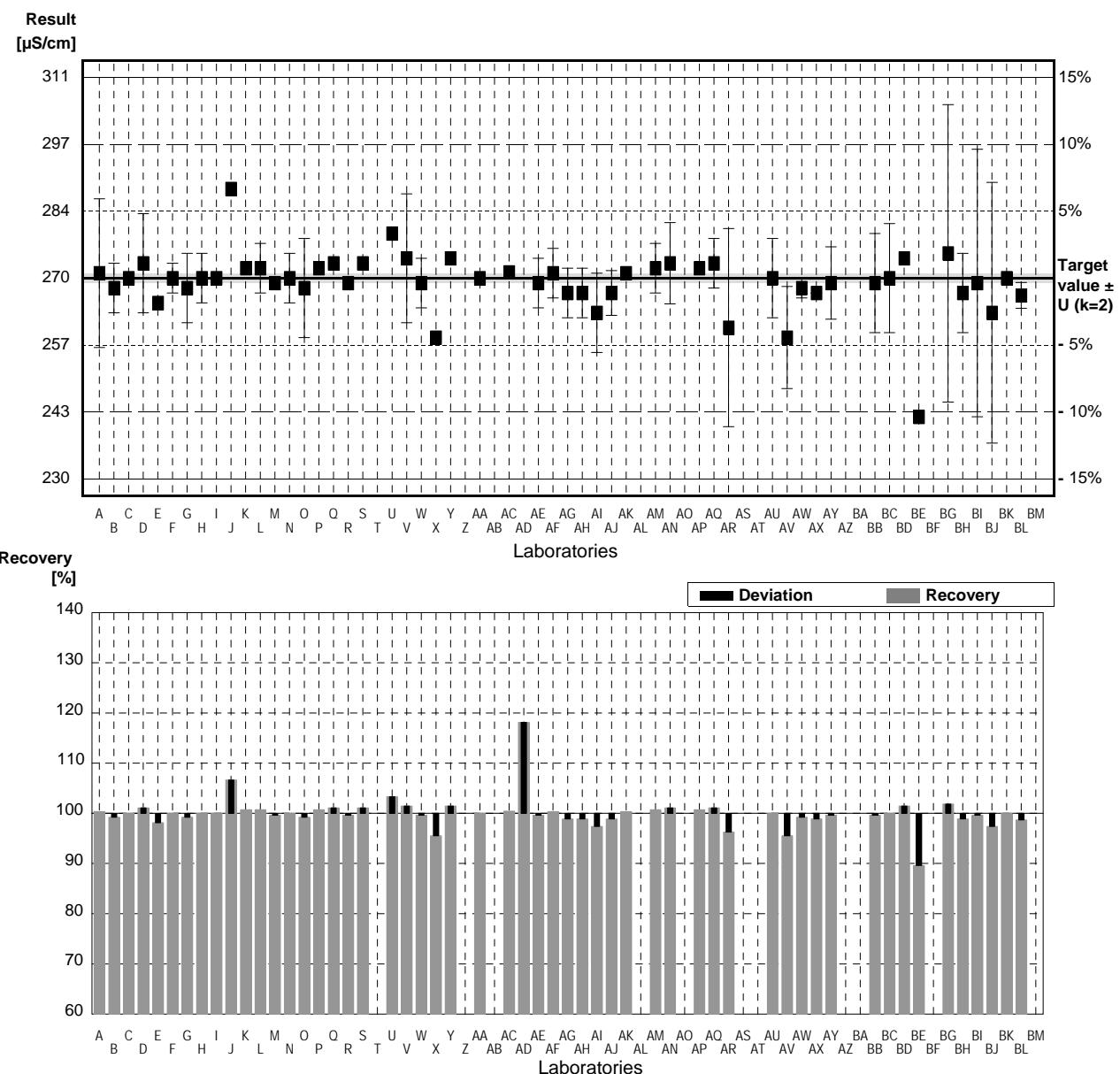
Parameter Conductivity

Target value $\pm U$ ($k=2$) 270 $\mu\text{S}/\text{cm}$ \pm 1 $\mu\text{S}/\text{cm}$

IFA result $\pm U$ ($k=2$) 271 $\mu\text{S}/\text{cm}$ \pm 8 $\mu\text{S}/\text{cm}$

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

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	271	15	$\mu\text{S}/\text{cm}$	100%	0,28
B	268	5	$\mu\text{S}/\text{cm}$	99%	-0,57
C	270		$\mu\text{S}/\text{cm}$	100%	0,00
D	273	10	$\mu\text{S}/\text{cm}$	101%	0,85
E	265		$\mu\text{S}/\text{cm}$	98%	-1,42
F	270	3	$\mu\text{S}/\text{cm}$	100%	0,00
G	268	7	$\mu\text{S}/\text{cm}$	99%	-0,57
H	270	5	$\mu\text{S}/\text{cm}$	100%	0,00
I	270		$\mu\text{S}/\text{cm}$	100%	0,00
J	288 *		$\mu\text{S}/\text{cm}$	107%	5,13
K	272		$\mu\text{S}/\text{cm}$	101%	0,57
L	272	5	$\mu\text{S}/\text{cm}$	101%	0,57
M	269		$\mu\text{S}/\text{cm}$	100%	-0,28
N	270	5	$\mu\text{S}/\text{cm}$	100%	0,00
O	268	10	$\mu\text{S}/\text{cm}$	99%	-0,57
P	272		$\mu\text{S}/\text{cm}$	101%	0,57
Q	273		$\mu\text{S}/\text{cm}$	101%	0,85
R	269		$\mu\text{S}/\text{cm}$	100%	-0,28
S	273		$\mu\text{S}/\text{cm}$	101%	0,85
T			$\mu\text{S}/\text{cm}$		
U	279		$\mu\text{S}/\text{cm}$	103%	2,56
V	274	13	$\mu\text{S}/\text{cm}$	101%	1,14
W	269	5	$\mu\text{S}/\text{cm}$	100%	-0,28
X	258 *	0,2	$\mu\text{S}/\text{cm}$	96%	-3,42
Y	274		$\mu\text{S}/\text{cm}$	101%	1,14
Z			$\mu\text{S}/\text{cm}$		
AA	270		$\mu\text{S}/\text{cm}$	100%	0,00
AB			$\mu\text{S}/\text{cm}$		
AC	271,2		$\mu\text{S}/\text{cm}$	100%	0,34
AD	319 *	13	$\mu\text{S}/\text{cm}$	118%	13,96
AE	269	5	$\mu\text{S}/\text{cm}$	100%	-0,28
AF	271	5	$\mu\text{S}/\text{cm}$	100%	0,28
AG	267	5	$\mu\text{S}/\text{cm}$	99%	-0,85
AH	267	5	$\mu\text{S}/\text{cm}$	99%	-0,85
AI	263	8	$\mu\text{S}/\text{cm}$	97%	-1,99
AJ	267	4,51	$\mu\text{S}/\text{cm}$	99%	-0,85
AK	271		$\mu\text{S}/\text{cm}$	100%	0,28
AL			$\mu\text{S}/\text{cm}$		
AM	272	5	$\mu\text{S}/\text{cm}$	101%	0,57
AN	273	8,2	$\mu\text{S}/\text{cm}$	101%	0,85
AO			$\mu\text{S}/\text{cm}$		



AP	272		µS/cm	101%	0,57
AQ	273	5	µS/cm	101%	0,85
AR	260 *	20	µS/cm	96%	-2,85
AS			µS/cm		
AT			µS/cm		
AU	270	8	µS/cm	100%	0,00
AV	258 *	10,3	µS/cm	96%	-3,42
AW	268	2	µS/cm	99%	-0,57
AX	267	0,0001	µS/cm	99%	-0,85
AY	269	7,3	µS/cm	100%	-0,28
AZ			µS/cm		
BA			µS/cm		
BB	269	10	µS/cm	100%	-0,28
BC	270	11	µS/cm	100%	0,00
BD	274		µS/cm	101%	1,14
BE	242 *		µS/cm	90%	-7,98
BF			µS/cm		
BG	275	30	µS/cm	102%	1,42
BH	267	8	µS/cm	99%	-0,85
BI	269	27	µS/cm	100%	-0,28
BJ	263	26,3	µS/cm	97%	-1,99
BK	270,0		µS/cm	100%	0,00
BL	266,5	2,612	µS/cm	99%	-1,00
BM			µS/cm		
	All results	Outliers excl.	Unit		
Mean ± CI(99%)	270 ± 3	270 ± 1	µS/cm		
Recov. ± CI(99%)	100,1 ± 1,2	100,0 ± 0,4	%		
SD between labs	9	3	µS/cm		
RSD between labs	3,3	1,1	%		
n for calculation	54	48			

Sample N146A

Parameter Total hardness

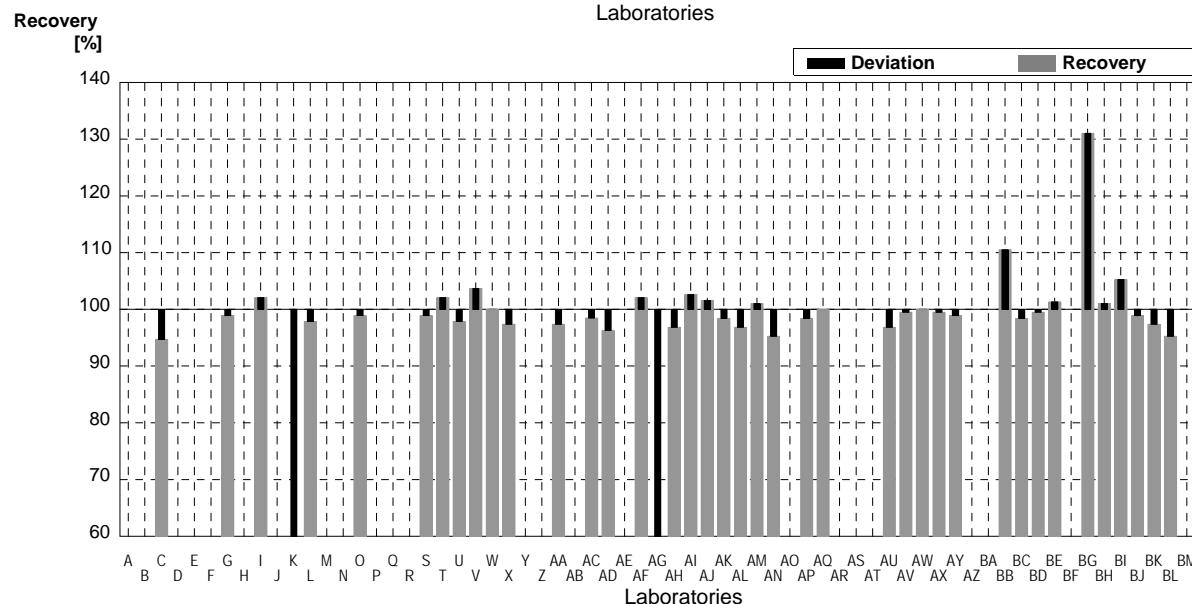
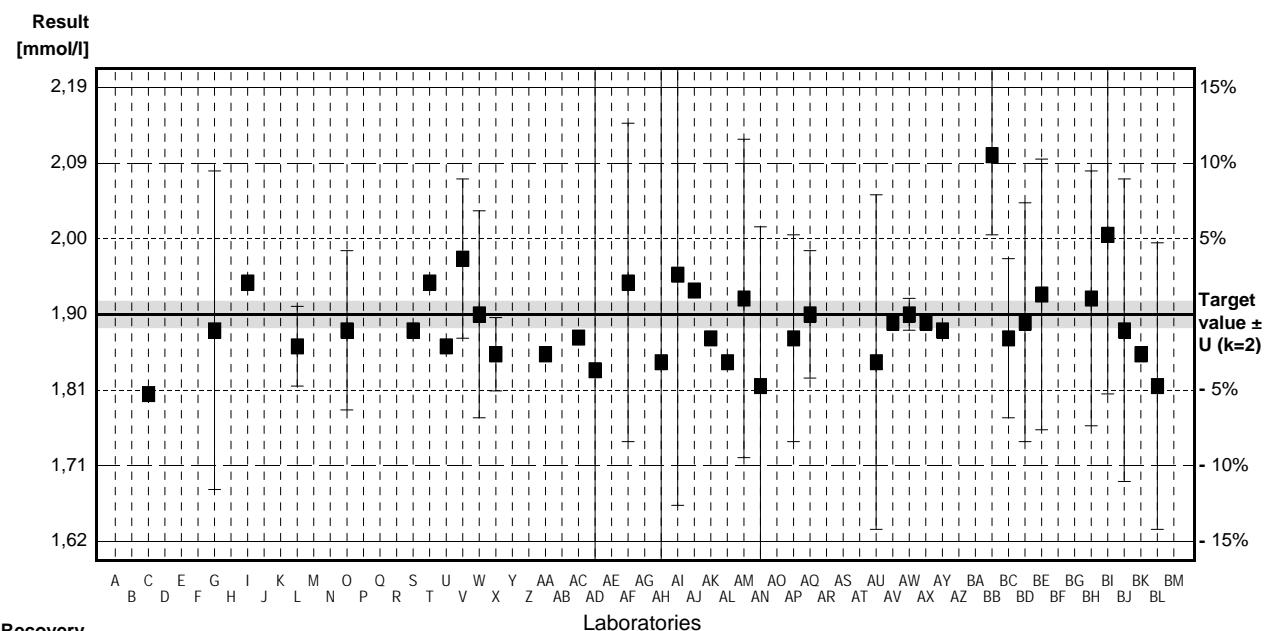
Target value $\pm U$ ($k=2$) 1,90 mmol/l \pm 0,02 mmol/l

IFA result $\pm U$ ($k=2$) 1,89 mmol/l \pm 0,08 mmol/l

Stability test

mmol/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			mmol/l		
B			mmol/l		
C	1,8		mmol/l	95%	-1,88
D			mmol/l		
E			mmol/l		
F			mmol/l		
G	1,88	0,2	mmol/l	99%	-0,38
H			mmol/l		
I	1,94		mmol/l	102%	0,75
J			mmol/l		
K	0,9 *		mmol/l	47%	-18,80
L	1,86	0,05	mmol/l	98%	-0,75
M			mmol/l		
N			mmol/l		
O	1,88	0,1	mmol/l	99%	-0,38
P			mmol/l		
Q			mmol/l		
R			mmol/l		
S	1,88		mmol/l	99%	-0,38
T	1,94		mmol/l	102%	0,75
U	1,86		mmol/l	98%	-0,75
V	1,97	0,10	mmol/l	104%	1,32
W	1,90	0,13	mmol/l	100%	0,00
X	1,85	0,046	mmol/l	97%	-0,94
Y			mmol/l		
Z			mmol/l		
AA	1,85		mmol/l	97%	-0,94
AB			mmol/l		
AC	1,871		mmol/l	98%	-0,55
AD	1,83	0,98	mmol/l	96%	-1,32
AE			mmol/l		
AF	1,94	0,2	mmol/l	102%	0,75
AG	0,55 *	0,07	mmol/l	29%	-25,38
AH	1,84	0,42	mmol/l	97%	-1,13
AI	1,95	0,29	mmol/l	103%	0,94
AJ	1,93		mmol/l	102%	0,56
AK	1,87		mmol/l	98%	-0,56
AL	1,84		mmol/l	97%	-1,13
AM	1,92	0,2	mmol/l	101%	0,38
AN	1,81	0,20	mmol/l	95%	-1,69
AO			mmol/l		



AP	1,87	0,13	mmol/l	98%	-0,56
AQ	1,90	0,08	mmol/l	100%	0,00
AR			mmol/l		
AS			mmol/l		
AT			mmol/l		
AU	1,84	0,21	mmol/l	97%	-1,13
AV	1,89		mmol/l	99%	-0,19
AW	1,9	0,02	mmol/l	100%	0,00
AX	1,89	0,007	mmol/l	99%	-0,19
AY	1,88		mmol/l	99%	-0,38
AZ			mmol/l		
BA			mmol/l		
BB	2,1 *	0,1	mmol/l	111%	3,76
BC	1,87	0,1	mmol/l	98%	-0,56
BD	1,89	0,15	mmol/l	99%	-0,19
BE	1,925	0,17	mmol/l	101%	0,47
BF			mmol/l		
BG	2,49 *	0,05	mmol/l	131%	11,09
BH	1,92	0,16	mmol/l	101%	0,38
BI	2,0	0,2	mmol/l	105%	1,88
BJ	1,88	0,19	mmol/l	99%	-0,38
BK	1,85		mmol/l	97%	-0,94
BL	1,81	0,18	mmol/l	95%	-1,69
BM			mmol/l		
	All results	Outliers excl.	Unit		
Mean ± CI(99%)	1,85 ± 0,12	1,88 ± 0,02	mmol/l		
Recov. ± CI(99%)	97,3 ± 6,3	99,2 ± 1,1	%		
SD between labs	0,28	0,05	mmol/l		
RSD between labs	15,3	2,4	%		
n for calculation	41	37			

Sample N146B

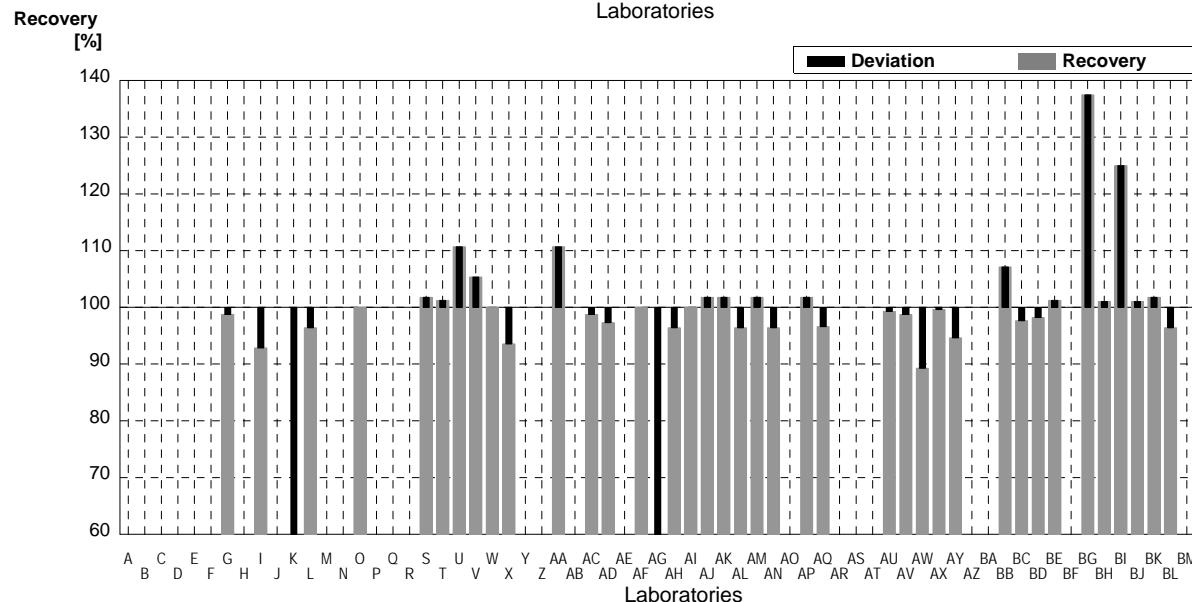
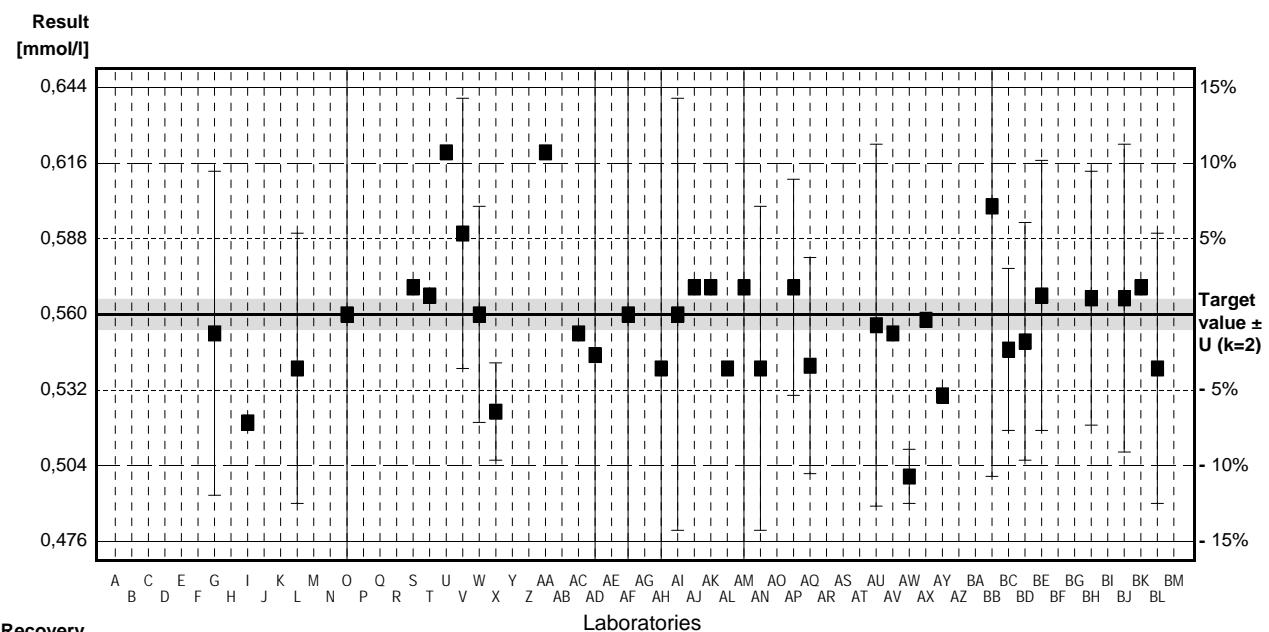
Parameter Total hardness

Target value $\pm U$ ($k=2$) 0,560 mmol/l \pm 0,006 mmol/l

IFA result $\pm U$ ($k=2$) 0,548 mmol/l \pm 0,022 mmol/l

Stability test $\pm U$ ($k=2$) 0,558 mmol/l \pm 0,022 mmol/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			mmol/l		
B			mmol/l		
C			mmol/l		
D			mmol/l		
E			mmol/l		
F			mmol/l		
G	0,553	0,06	mmol/l	99%	-0,45
H			mmol/l		
I	0,52		mmol/l	93%	-2,55
J			mmol/l		
K	0,3 *		mmol/l	54%	-16,58
L	0,54	0,05	mmol/l	96%	-1,28
M			mmol/l		
N			mmol/l		
O	0,56	0,1	mmol/l	100%	0,00
P			mmol/l		
Q			mmol/l		
R			mmol/l		
S	0,57		mmol/l	102%	0,64
T	0,567		mmol/l	101%	0,45
U	0,62 *		mmol/l	111%	3,83
V	0,59	0,05	mmol/l	105%	1,91
W	0,56	0,04	mmol/l	100%	0,00
X	0,524	0,018	mmol/l	94%	-2,30
Y			mmol/l		
Z			mmol/l		
AA	0,62 *		mmol/l	111%	3,83
AB			mmol/l		
AC	0,553		mmol/l	99%	-0,45
AD	0,545	0,32	mmol/l	97%	-0,96
AE			mmol/l		
AF	0,56	0,1	mmol/l	100%	0,00
AG	0,21 *	0,03	mmol/l	38%	-22,32
AH	0,54	0,12	mmol/l	96%	-1,28
AI	0,56	0,08	mmol/l	100%	0,00
AJ	0,57		mmol/l	102%	0,64
AK	0,57		mmol/l	102%	0,64
AL	0,54		mmol/l	96%	-1,28
AM	0,57	0,1	mmol/l	102%	0,64
AN	0,54	0,06	mmol/l	96%	-1,28
AO			mmol/l		



AP	0,57	0,04	mmol/l	102%	0,64
AQ	0,541	0,04	mmol/l	97%	-1,21
AR			mmol/l		
AS			mmol/l		
AT			mmol/l		
AU	0,556	0,067	mmol/l	99%	-0,26
AV	0,553		mmol/l	99%	-0,45
AW	0,5 *	0,01	mmol/l	89%	-3,83
AX	0,558	0,002	mmol/l	100%	-0,13
AY	0,53		mmol/l	95%	-1,91
AZ			mmol/l		
BA			mmol/l		
BB	0,6	0,1	mmol/l	107%	2,55
BC	0,547	0,03	mmol/l	98%	-0,83
BD	0,55	0,044	mmol/l	98%	-0,64
BE	0,567	0,05	mmol/l	101%	0,45
BF			mmol/l		
BG	0,77 *	0,05	mmol/l	138%	13,39
BH	0,566	0,047	mmol/l	101%	0,38
BI	0,7 *	0,07	mmol/l	125%	8,93
BJ	0,566	0,057	mmol/l	101%	0,38
BK	0,57		mmol/l	102%	0,64
BL	0,54	0,05	mmol/l	96%	-1,28
BM			mmol/l		
	All results	Outliers excl.	Unit		
Mean ± CI(99%)	0,552 ± 0,036	0,556 ± 0,008	mmol/l		
Recov. ± CI(99%)	98,5 ± 6,4	99,3 ± 1,5	%		
SD between labs	0,083	0,017	mmol/l		
RSD between labs	15,1	3,1	%		
n for calculation	40	33			

Sample N146A

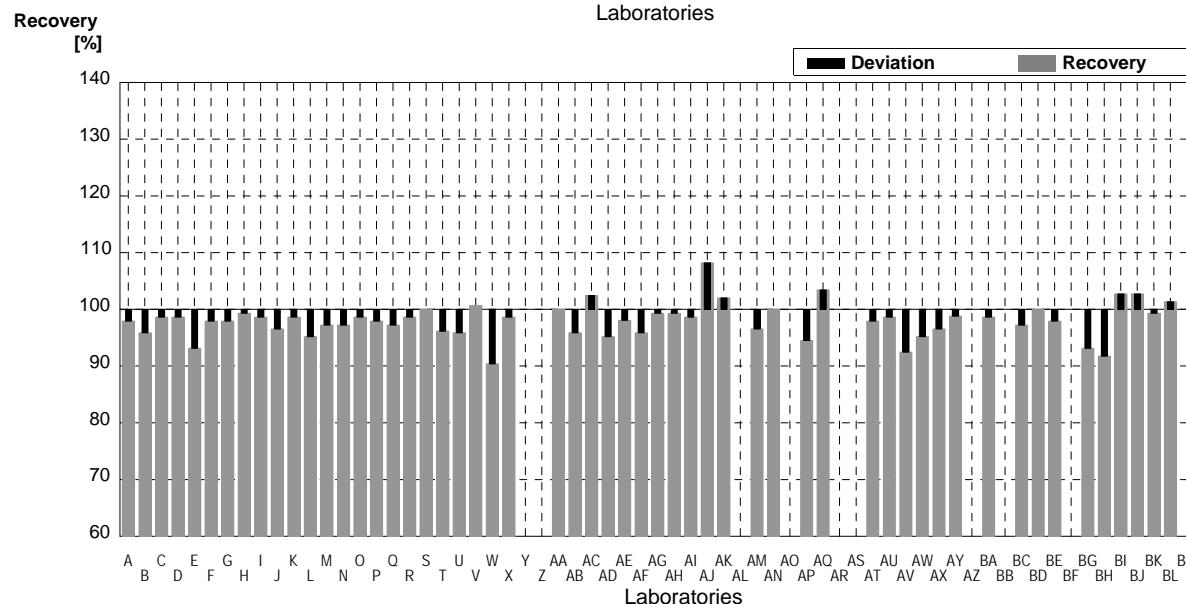
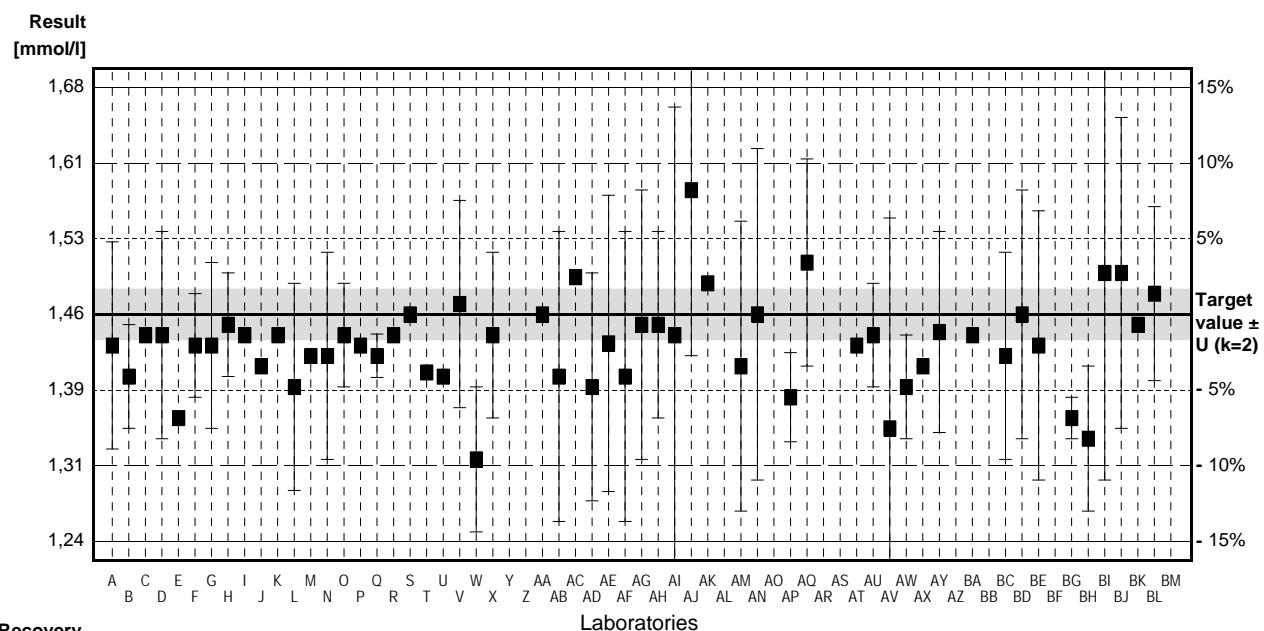
Parameter Alkalinity

Target value $\pm U$ ($k=2$) 1,46 mmol/l \pm 0,02 mmol/l

IFA result $\pm U$ ($k=2$) 1,43 mmol/l \pm 0,07 mmol/l

Stability test mmol/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	1,43	0,1	mmol/l	98%	-0,93
B	1,40	0,05	mmol/l	96%	-1,87
C	1,44		mmol/l	99%	-0,62
D	1,44	0,1	mmol/l	99%	-0,62
E	1,36		mmol/l	93%	-3,11
F	1,43	0,05	mmol/l	98%	-0,93
G	1,43	0,08	mmol/l	98%	-0,93
H	1,45	0,05	mmol/l	99%	-0,31
I	1,44		mmol/l	99%	-0,62
J	1,41		mmol/l	97%	-1,56
K	1,44		mmol/l	99%	-0,62
L	1,39	0,1	mmol/l	95%	-2,18
M	1,42		mmol/l	97%	-1,25
N	1,42	0,1	mmol/l	97%	-1,25
O	1,44	0,05	mmol/l	99%	-0,62
P	1,43		mmol/l	98%	-0,93
Q	1,42	0,021	mmol/l	97%	-1,25
R	1,44		mmol/l	99%	-0,62
S	1,46		mmol/l	100%	0,00
T	1,404		mmol/l	96%	-1,74
U	1,4		mmol/l	96%	-1,87
V	1,47	0,10	mmol/l	101%	0,31
W	1,32 *	0,07	mmol/l	90%	-4,36
X	1,44	0,08	mmol/l	99%	-0,62
Y			mmol/l		
Z			mmol/l		
AA	1,46		mmol/l	100%	0,00
AB	1,4	0,14	mmol/l	96%	-1,87
AC	1,496		mmol/l	102%	1,12
AD	1,39	0,11	mmol/l	95%	-2,18
AE	1,432	0,143	mmol/l	98%	-0,87
AF	1,40	0,14	mmol/l	96%	-1,87
AG	1,45	0,13	mmol/l	99%	-0,31
AH	1,45	0,09	mmol/l	99%	-0,31
AI	1,44	0,22	mmol/l	99%	-0,62
AJ	1,58 *	0,16	mmol/l	108%	3,74
AK	1,49		mmol/l	102%	0,93
AL			mmol/l		
AM	1,41	0,14	mmol/l	97%	-1,56
AN	1,46	0,16	mmol/l	100%	0,00
AO			mmol/l		



AP	1,38	0,043	mmol/l	95%	-2,49
AQ	1,51	0,1	mmol/l	103%	1,56
AR			mmol/l		
AS			mmol/l		
AT	1,43		mmol/l	98%	-0,93
AU	1,44	0,05	mmol/l	99%	-0,62
AV	1,35	0,203	mmol/l	92%	-3,42
AW	1,39	0,05	mmol/l	95%	-2,18
AX	1,41	0,0001	mmol/l	97%	-1,56
AY	1,443	0,097	mmol/l	99%	-0,53
AZ			mmol/l		
BA	1,44		mmol/l	99%	-0,62
BB			mmol/l		
BC	1,42	0,1	mmol/l	97%	-1,25
BD	1,46	0,12	mmol/l	100%	0,00
BE	1,43	0,13	mmol/l	98%	-0,93
BF			mmol/l		
BG	1,36	0,02	mmol/l	93%	-3,11
BH	1,34	0,07	mmol/l	92%	-3,74
BI	1,5	0,2	mmol/l	103%	1,25
BJ	1,5	0,15	mmol/l	103%	1,25
BK	1,45		mmol/l	99%	-0,31
BL	1,48	0,084	mmol/l	101%	0,62
BM			mmol/l		
	All results	Outliers excl.	Unit		
Mean \pm CI(99%)	1,43 \pm 0,02	1,43 \pm 0,01	mmol/l		
Recov. \pm CI(99%)	98,0 \pm 1,1	98,0 \pm 0,9	%		
SD between labs	0,04	0,04	mmol/l		
RSD between labs	3,1	2,6	%		
n for calculation	55	53			

Sample N146B

Parameter Alkalinity

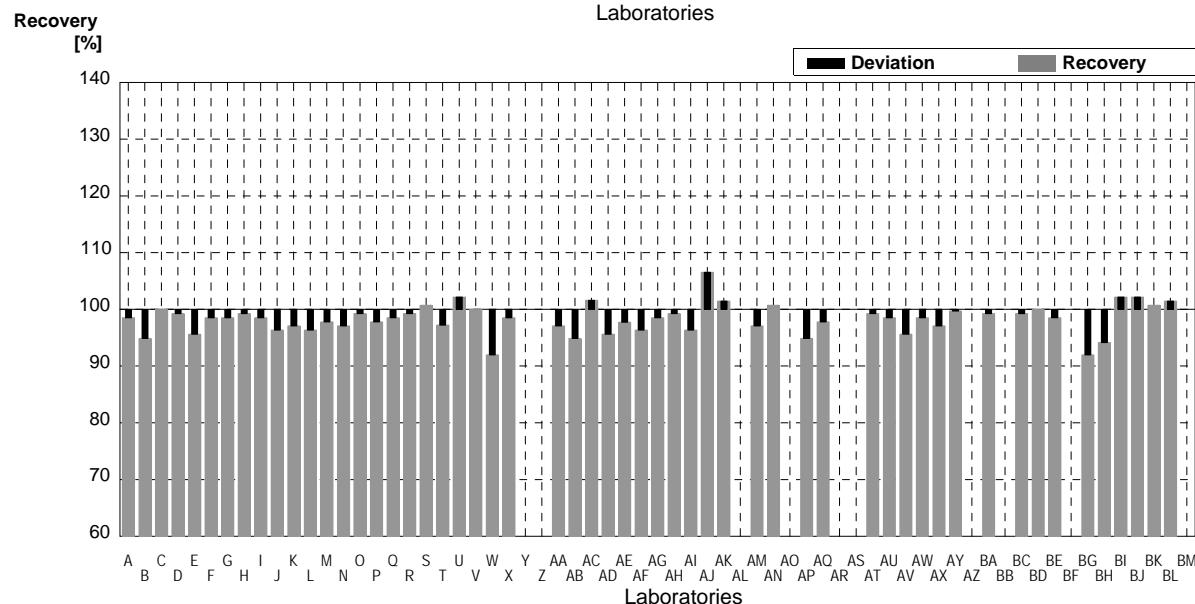
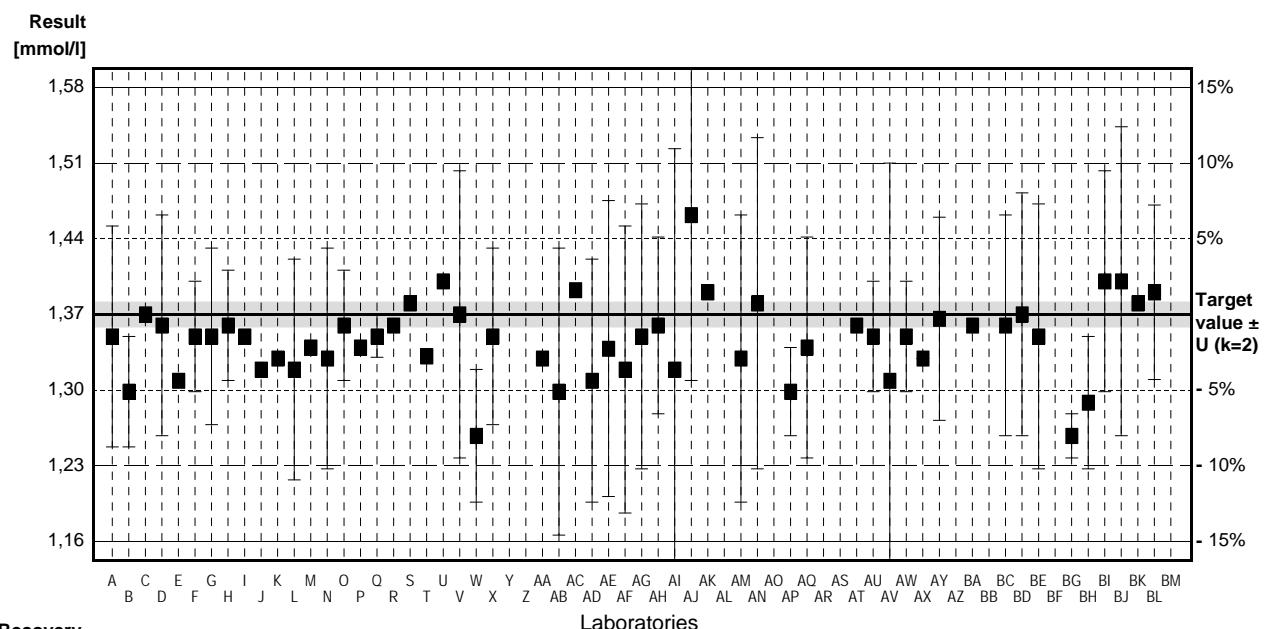
Target value $\pm U$ ($k=2$) 1,37 mmol/l \pm 0,01 mmol/l

IFA result $\pm U$ ($k=2$) 1,34 mmol/l \pm 0,07 mmol/l

Stability test

mmol/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	1,35	0,1	mmol/l	99%	-0,66
B	1,30	0,05	mmol/l	95%	-2,32
C	1,37		mmol/l	100%	0,00
D	1,36	0,1	mmol/l	99%	-0,33
E	1,31		mmol/l	96%	-1,99
F	1,35	0,05	mmol/l	99%	-0,66
G	1,35	0,08	mmol/l	99%	-0,66
H	1,36	0,05	mmol/l	99%	-0,33
I	1,35		mmol/l	99%	-0,66
J	1,32		mmol/l	96%	-1,66
K	1,33		mmol/l	97%	-1,33
L	1,32	0,1	mmol/l	96%	-1,66
M	1,34		mmol/l	98%	-1,00
N	1,33	0,1	mmol/l	97%	-1,33
O	1,36	0,05	mmol/l	99%	-0,33
P	1,34		mmol/l	98%	-1,00
Q	1,35	0,019	mmol/l	99%	-0,66
R	1,36		mmol/l	99%	-0,33
S	1,38		mmol/l	101%	0,33
T	1,332		mmol/l	97%	-1,26
U	1,4		mmol/l	102%	1,00
V	1,37	0,13	mmol/l	100%	0,00
W	1,26	0,06	mmol/l	92%	-3,65
X	1,35	0,08	mmol/l	99%	-0,66
Y			mmol/l		
Z			mmol/l		
AA	1,33		mmol/l	97%	-1,33
AB	1,3	0,13	mmol/l	95%	-2,32
AC	1,392		mmol/l	102%	0,73
AD	1,31	0,11	mmol/l	96%	-1,99
AE	1,339	0,134	mmol/l	98%	-1,03
AF	1,32	0,13	mmol/l	96%	-1,66
AG	1,35	0,12	mmol/l	99%	-0,66
AH	1,36	0,08	mmol/l	99%	-0,33
AI	1,32	0,20	mmol/l	96%	-1,66
AJ	1,46 *	0,15	mmol/l	107%	2,99
AK	1,39		mmol/l	101%	0,66
AL			mmol/l		
AM	1,33	0,13	mmol/l	97%	-1,33
AN	1,38	0,15	mmol/l	101%	0,33
AO			mmol/l		



AP	1,30	0,040	mmol/l	95%	-2,32
AQ	1,34	0,1	mmol/l	98%	-1,00
AR			mmol/l		
AS			mmol/l		
AT	1,36		mmol/l	99%	-0,33
AU	1,35	0,05	mmol/l	99%	-0,66
AV	1,31	0,197	mmol/l	96%	-1,99
AW	1,35	0,05	mmol/l	99%	-0,66
AX	1,33	0,0001	mmol/l	97%	-1,33
AY	1,366	0,092	mmol/l	100%	-0,13
AZ			mmol/l		
BA	1,36		mmol/l	99%	-0,33
BB			mmol/l		
BC	1,36	0,1	mmol/l	99%	-0,33
BD	1,37	0,11	mmol/l	100%	0,00
BE	1,35	0,12	mmol/l	99%	-0,66
BF			mmol/l		
BG	1,26	0,02	mmol/l	92%	-3,65
BH	1,29	0,06	mmol/l	94%	-2,65
BI	1,4	0,1	mmol/l	102%	1,00
BJ	1,4	0,14	mmol/l	102%	1,00
BK	1,38		mmol/l	101%	0,33
BL	1,39	0,079	mmol/l	101%	0,66
BM			mmol/l		
	All results	Outliers excl.	Unit		
Mean \pm CI(99%)	1,35 \pm 0,01	1,34 \pm 0,01	mmol/l		
Recov. \pm CI(99%)	98,3 \pm 0,9	98,2 \pm 0,9	%		
SD between labs	0,04	0,03	mmol/l		
RSD between labs	2,6	2,4	%		
n for calculation	55	54			

Sample N146A

Parameter Hydrogen carbonate

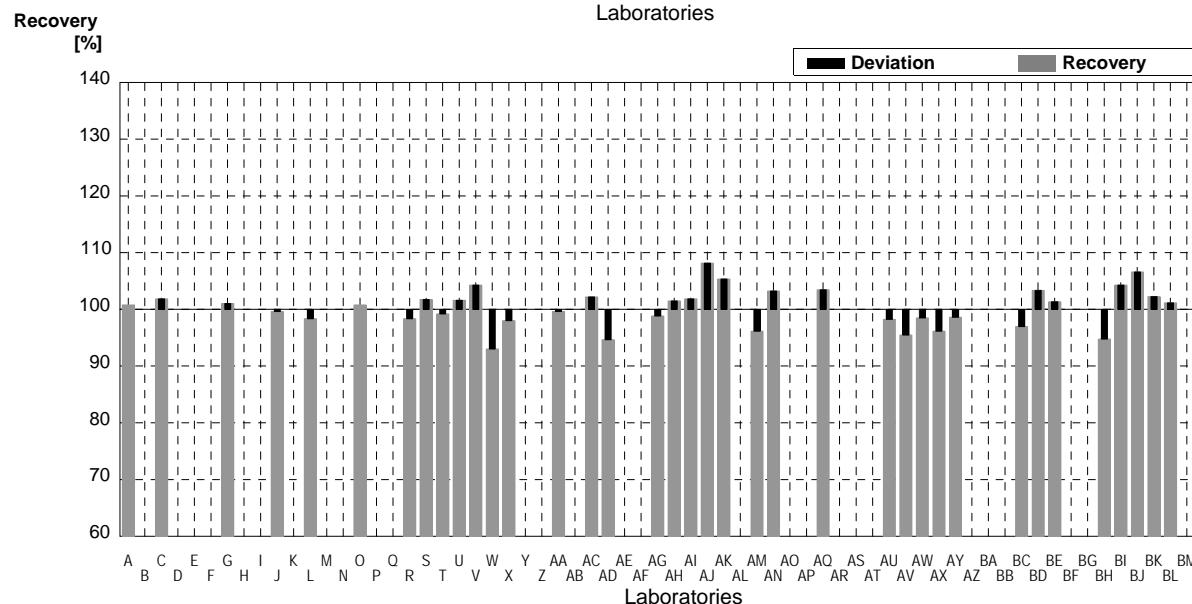
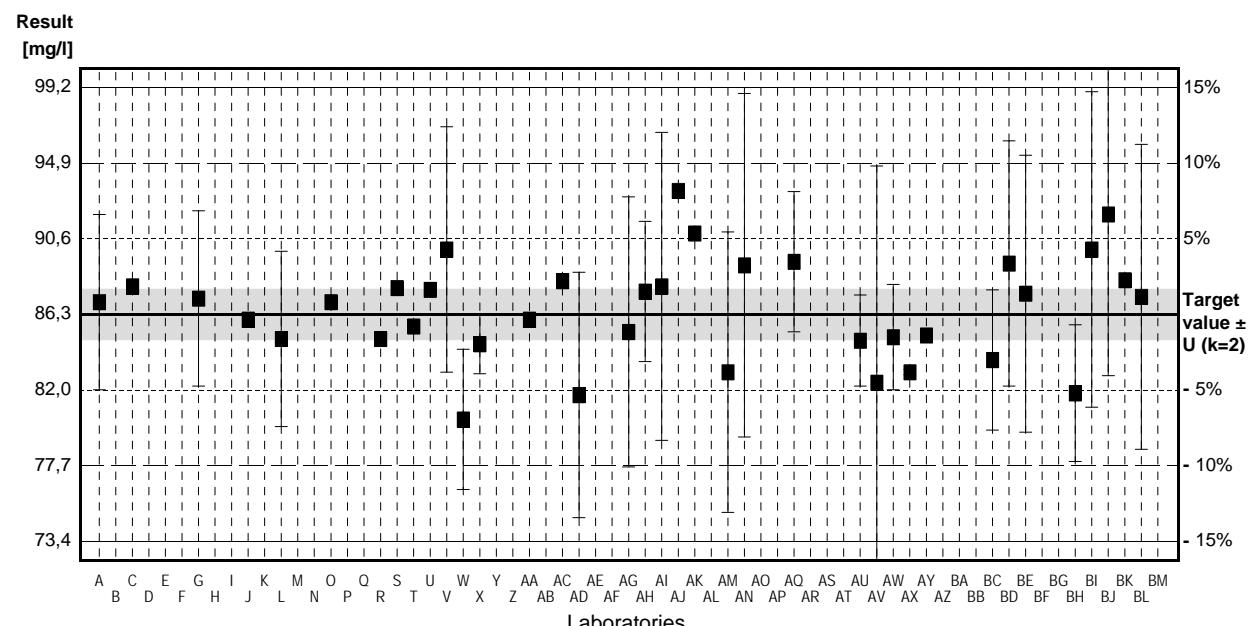
Target value $\pm U$ ($k=2$) 86,3 mg/l \pm 1,4 mg/l

IFA result $\pm U$ ($k=2$) 83,9 mg/l \pm 5,0 mg/l

Stability test

mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	87	5	mg/l	101%	0,32
B			mg/l		
C	87,9		mg/l	102%	0,74
D			mg/l		
E			mg/l		
F			mg/l		
G	87,2	5	mg/l	101%	0,42
H			mg/l		
I			mg/l		
J	86,0		mg/l	100%	-0,14
K			mg/l		
L	84,9	5	mg/l	98%	-0,65
M			mg/l		
N			mg/l		
O	87		mg/l	101%	0,32
P			mg/l		
Q			mg/l		
R	84,9		mg/l	98%	-0,65
S	87,8		mg/l	102%	0,70
T	85,61		mg/l	99%	-0,32
U	87,7		mg/l	102%	0,65
V	90,0	7	mg/l	104%	1,71
W	80,3	4,0	mg/l	93%	-2,78
X	84,6	1,69	mg/l	98%	-0,79
Y			mg/l		
Z			mg/l		
AA	86,0		mg/l	100%	-0,14
AB			mg/l		
AC	88,2		mg/l	102%	0,88
AD	81,7	7,0	mg/l	95%	-2,13
AE			mg/l		
AF			mg/l		
AG	85,3	7,7	mg/l	99%	-0,46
AH	87,6	4,0	mg/l	102%	0,60
AI	87,9	8,79	mg/l	102%	0,74
AJ	93,35		mg/l	108%	3,27
AK	90,92		mg/l	105%	2,14
AL			mg/l		
AM	83,0	8	mg/l	96%	-1,53
AN	89,1	9,8	mg/l	103%	1,30
AO			mg/l		



AP			mg/l		
AQ	89,3	4,0	mg/l	103%	1,39
AR			mg/l		
AS			mg/l		
AT			mg/l		
AU	84,8	2,6	mg/l	98%	-0,70
AV	82,4	12,36	mg/l	95%	-1,81
AW	85	3	mg/l	98%	-0,60
AX	83,0	0,153	mg/l	96%	-1,53
AY	85,1		mg/l	99%	-0,56
AZ			mg/l		
BA			mg/l		
BB			mg/l		
BC	83,7	4	mg/l	97%	-1,21
BD	89,2	7	mg/l	103%	1,34
BE	87,48	7,9	mg/l	101%	0,55
BF			mg/l		
BG			mg/l		
BH	81,8	3,9	mg/l	95%	-2,09
BI	90	9	mg/l	104%	1,71
BJ	92	9,2	mg/l	107%	2,64
BK	88,25		mg/l	102%	0,90
BL	87,3	8,7	mg/l	101%	0,46
BM			mg/l		
	All results	Outliers excl.		Unit	
Mean \pm CI(99%)	86,6 \pm 1,3	86,6 \pm 1,3		mg/l	
Recov. \pm CI(99%)	100,3 \pm 1,5	100,3 \pm 1,5		%	
SD between labs	2,9	2,9		mg/l	
RSD between labs	3,4	3,4		%	
n for calculation	37	37			

Sample N146B

Parameter Hydrogen carbonate

Target value $\pm U$ ($k=2$) 80,4 mg/l \pm 0,7 mg/l

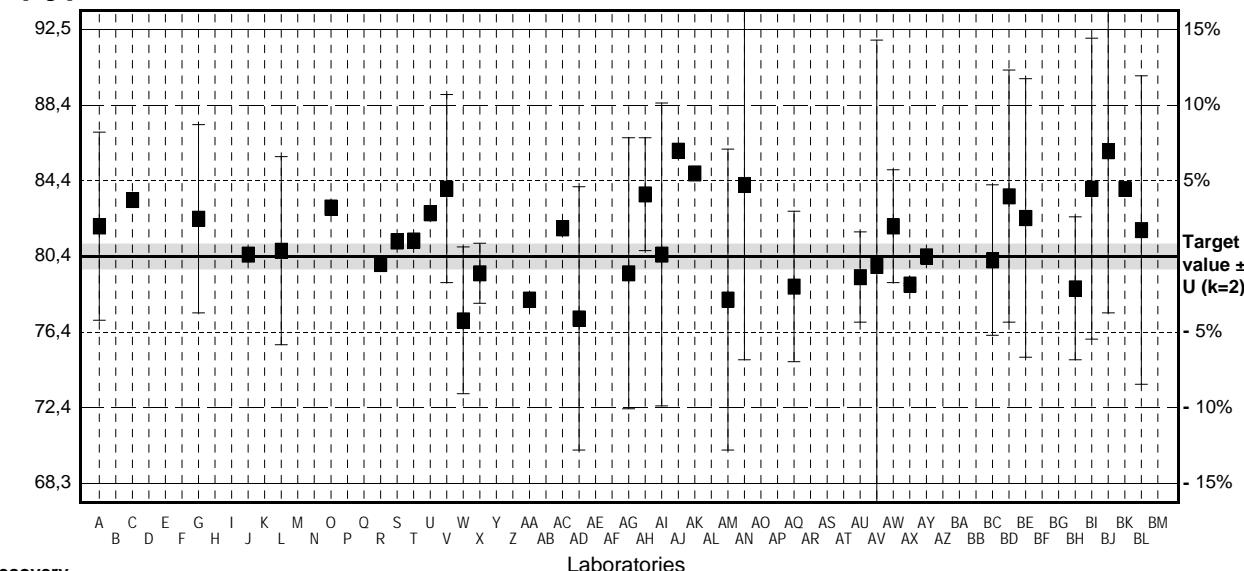
IFA result $\pm U$ ($k=2$) 79,0 mg/l \pm 4,7 mg/l

Stability test

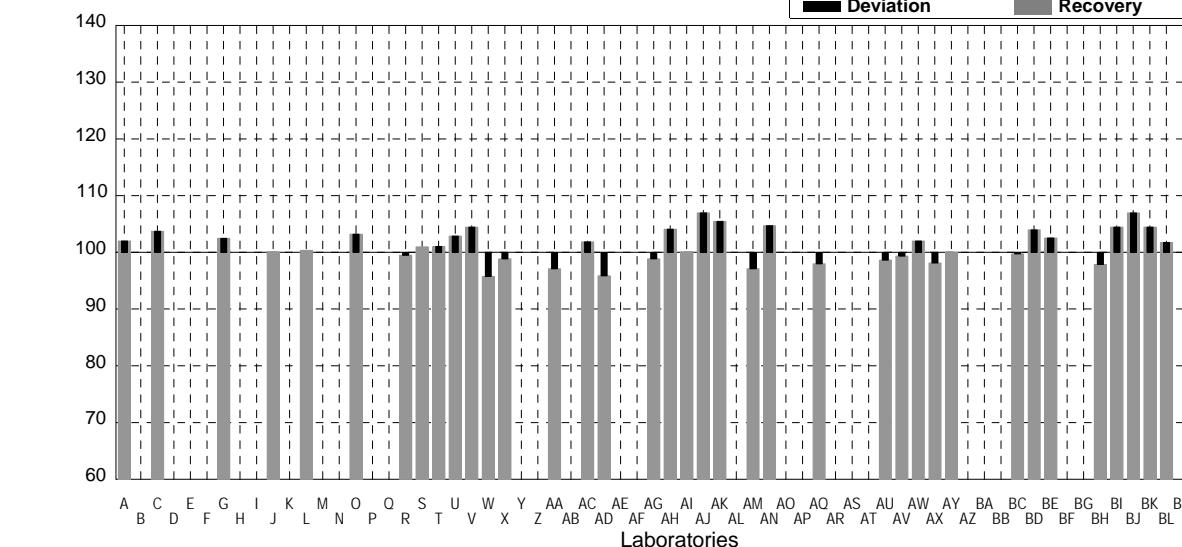
mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	82	5	mg/l	102%	0,80
B			mg/l		
C	83,4		mg/l	104%	1,49
D			mg/l		
E			mg/l		
F			mg/l		
G	82,4	5	mg/l	102%	1,00
H			mg/l		
I			mg/l		
J	80,5		mg/l	100%	0,05
K			mg/l		
L	80,7	5	mg/l	100%	0,15
M			mg/l		
N			mg/l		
O	83		mg/l	103%	1,29
P			mg/l		
Q			mg/l		
R	80,0		mg/l	100%	-0,20
S	81,2		mg/l	101%	0,40
T	81,24		mg/l	101%	0,42
U	82,7		mg/l	103%	1,14
V	84,0	5	mg/l	104%	1,79
W	77,0	3,9	mg/l	96%	-1,69
X	79,5	1,59	mg/l	99%	-0,45
Y			mg/l		
Z			mg/l		
AA	78,1		mg/l	97%	-1,14
AB			mg/l		
AC	81,9		mg/l	102%	0,75
AD	77,1	7,0	mg/l	96%	-1,64
AE			mg/l		
AF			mg/l		
AG	79,5	7,2	mg/l	99%	-0,45
AH	83,7	3,0	mg/l	104%	1,64
AI	80,5	8,05	mg/l	100%	0,05
AJ	86,02		mg/l	107%	2,80
AK	84,81		mg/l	105%	2,19
AL			mg/l		
AM	78,1	8	mg/l	97%	-1,14
AN	84,2	9,3	mg/l	105%	1,89
AO			mg/l		

Result
[mg/l]



Recovery
[%]



AP			mg/l		
AQ	78,8	4,0	mg/l	98%	-0,80
AR			mg/l		
AS			mg/l		
AT			mg/l		
AU	79,3	2,4	mg/l	99%	-0,55
AV	79,9	11,99	mg/l	99%	-0,25
AW	82	3	mg/l	102%	0,80
AX	78,9	0,058	mg/l	98%	-0,75
AY	80,4		mg/l	100%	0,00
AZ			mg/l		
BA			mg/l		
BB			mg/l		
BC	80,2	4	mg/l	100%	-0,10
BD	83,6	6,7	mg/l	104%	1,59
BE	82,44	7,4	mg/l	103%	1,01
BF			mg/l		
BG			mg/l		
BH	78,7	3,8	mg/l	98%	-0,85
BI	84	8	mg/l	104%	1,79
BJ	86	8,6	mg/l	107%	2,79
BK	83,99		mg/l	104%	1,79
BL	81,8	8,2	mg/l	102%	0,70
BM			mg/l		
	All results	Outliers excl.	Unit		
Mean \pm CI(99%)	81,4 \pm 1,1	81,4 \pm 1,1	mg/l		
Recov. \pm CI(99%)	101,2 \pm 1,3	101,2 \pm 1,3	%		
SD between labs	2,4	2,4	mg/l		
RSD between labs	2,9	2,9	%		
n for calculation	37	37			

Sample N146A

Parameter Calcium

Target value $\pm U$ ($k=2$) 50,8 mg/l \pm 0,6 mg/l

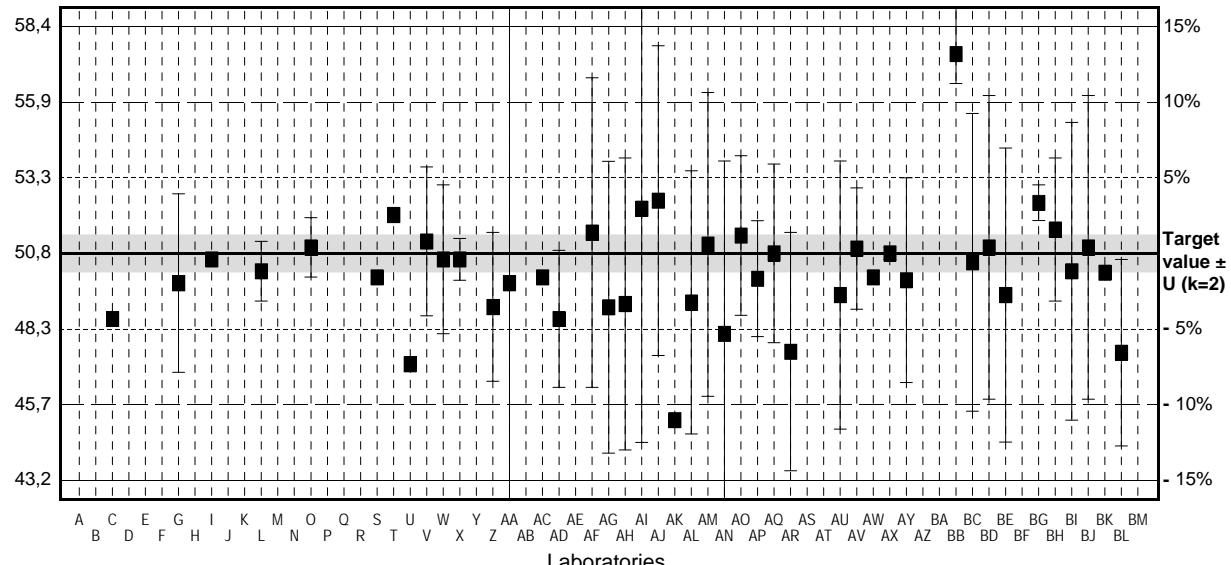
IFA result $\pm U$ ($k=2$) 50,8 mg/l \pm 2,5 mg/l

Stability test

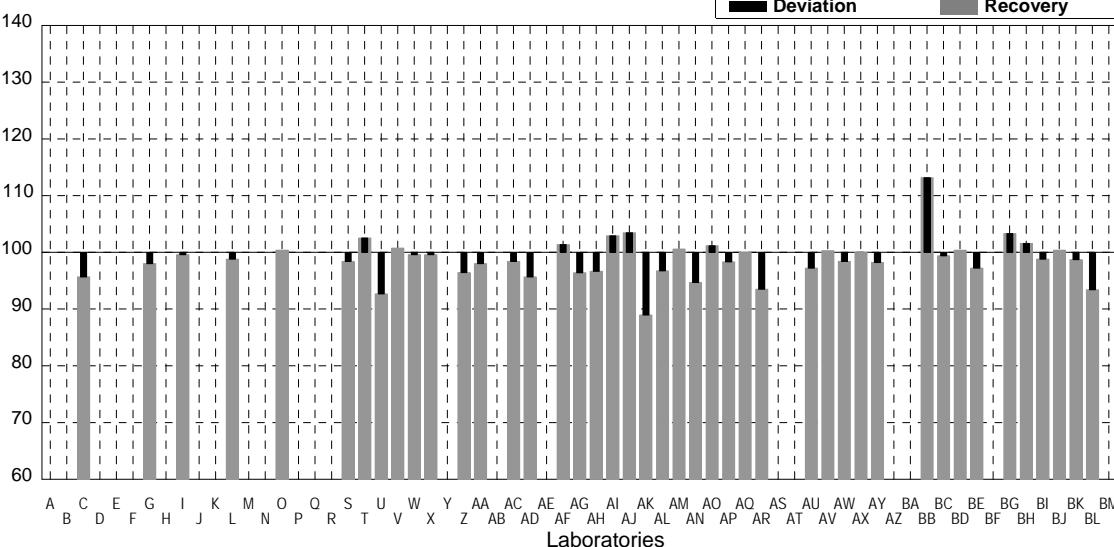
mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			mg/l		
B			mg/l		
C	48,6		mg/l	96%	-1,31
D			mg/l		
E			mg/l		
F			mg/l		
G	49,8	3	mg/l	98%	-0,60
H			mg/l		
I	50,6		mg/l	100%	-0,12
J			mg/l		
K			mg/l		
L	50,2	1	mg/l	99%	-0,36
M			mg/l		
N			mg/l		
O	51	1	mg/l	100%	0,12
P			mg/l		
Q			mg/l		
R			mg/l		
S	50,0		mg/l	98%	-0,48
T	52,09		mg/l	103%	0,77
U	47,08		mg/l	93%	-2,22
V	51,2	2,5	mg/l	101%	0,24
W	50,6	2,5	mg/l	100%	-0,12
X	50,6	0,70	mg/l	100%	-0,12
Y			mg/l		
Z	49	2,5	mg/l	96%	-1,07
AA	49,8	9,0	mg/l	98%	-0,60
AB			mg/l		
AC	50		mg/l	98%	-0,48
AD	48,6	2,3	mg/l	96%	-1,31
AE			mg/l		
AF	51,5	5,2	mg/l	101%	0,42
AG	48,99	4,90	mg/l	96%	-1,08
AH	49,1	4,9	mg/l	97%	-1,01
AI	52,3	7,85	mg/l	103%	0,89
AJ	52,57	5,2	mg/l	103%	1,06
AK	45,2	*	mg/l	89%	-3,34
AL	49,15	4,42	mg/l	97%	-0,98
AM	51,1	5,1	mg/l	101%	0,18
AN	48,1	5,8	mg/l	95%	-1,61
AO	51,4	2,68	mg/l	101%	0,36

Result
[mg/l]



Recovery
[%]



AP	49,95	1,948	mg/l	98%	-0,51
AQ	50,8	3,0	mg/l	100%	0,00
AR	47,5	4	mg/l	94%	-1,97
AS			mg/l		
AT			mg/l		
AU	49,4	4,5	mg/l	97%	-0,84
AV	50,96	2,038	mg/l	100%	0,10
AW	50	0,2	mg/l	98%	-0,48
AX	50,8	0,208	mg/l	100%	0,00
AY	49,9	3,44	mg/l	98%	-0,54
AZ			mg/l		
BA			mg/l		
BB	57,5 *	1,0	mg/l	113%	4,00
BC	50,5	5	mg/l	99%	-0,18
BD	51	5,1	mg/l	100%	0,12
BE	49,4	4,94	mg/l	97%	-0,84
BF			mg/l		
BG	52,5	0,6	mg/l	103%	1,01
BH	51,6	2,4	mg/l	102%	0,48
BI	50,2	5	mg/l	99%	-0,36
BJ	51	5,1	mg/l	100%	0,12
BK	50,15		mg/l	99%	-0,39
BL	47,46	3,132	mg/l	93%	-1,99
BM			mg/l		
	All results	Outliers excl.	Unit		
Mean \pm CI(99%)	50,2 \pm 0,8	50,2 \pm 0,6	mg/l		
Recov. \pm CI(99%)	98,8 \pm 1,5	98,7 \pm 1,1	%		
SD between labs	1,9	1,3	mg/l		
RSD between labs	3,8	2,6	%		
n for calculation	43	41			

Sample N146B

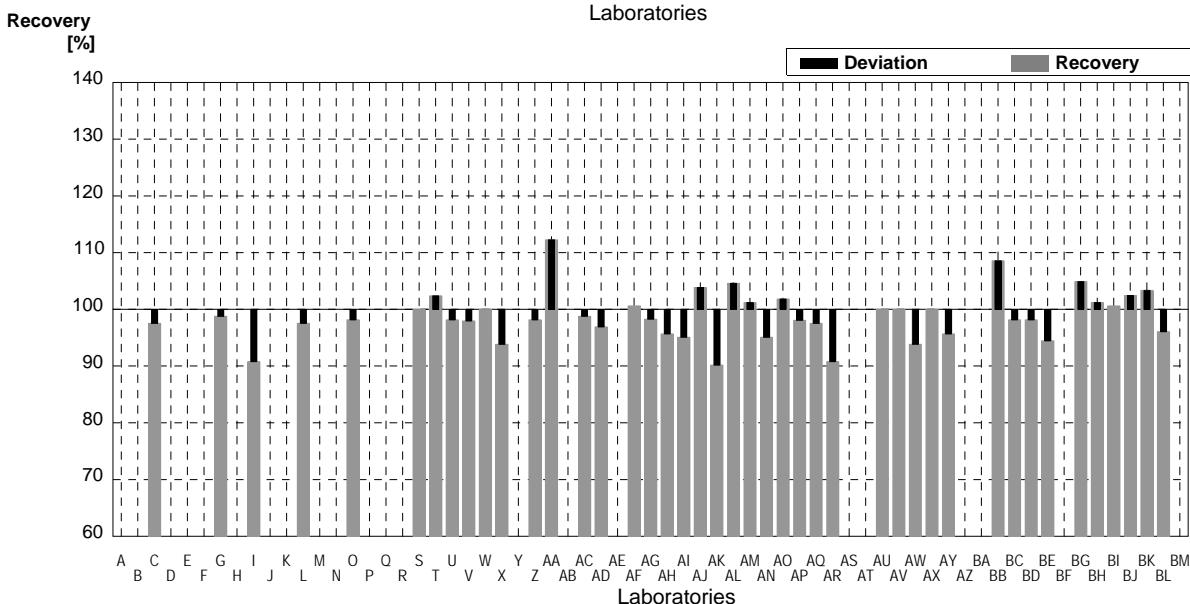
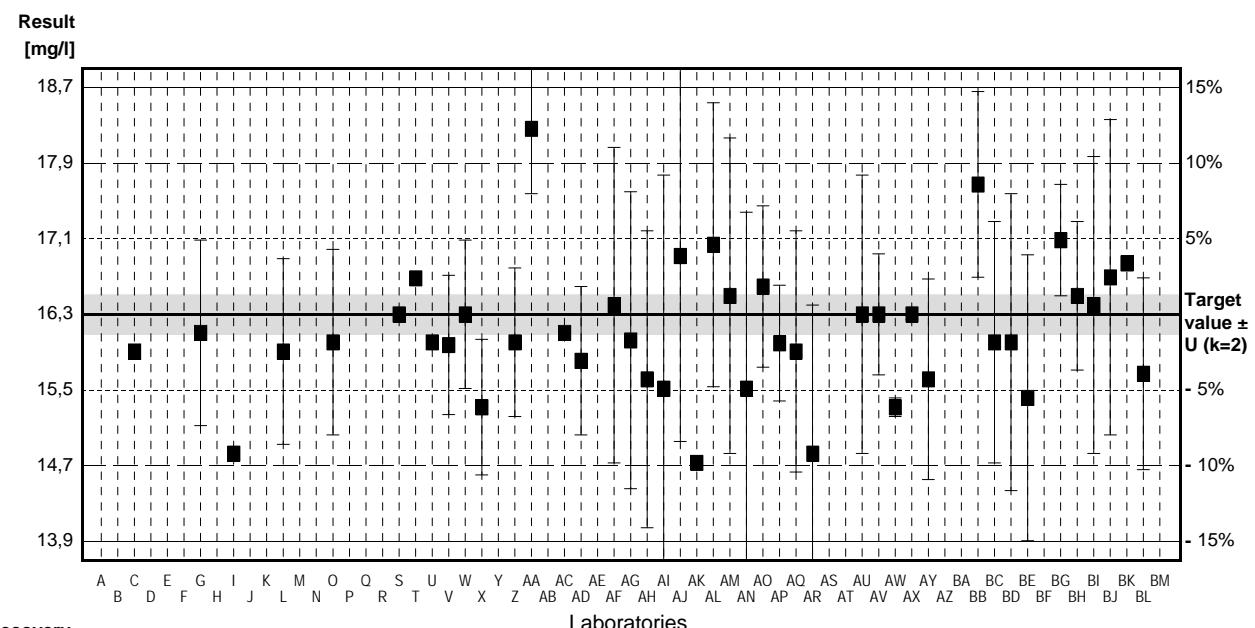
Parameter Calcium

Target value $\pm U$ ($k=2$) 16,3 mg/l \pm 0,2 mg/l

IFA result $\pm U$ ($k=2$) 16,0 mg/l \pm 0,8 mg/l

Stability test mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			mg/l		
B			mg/l		
C	15,9		mg/l	98%	-0,74
D			mg/l		
E			mg/l		
F			mg/l		
G	16,1	1	mg/l	99%	-0,37
H			mg/l		
I	14,8		mg/l	91%	-2,79
J			mg/l		
K			mg/l		
L	15,9	1	mg/l	98%	-0,74
M			mg/l		
N			mg/l		
O	16	1	mg/l	98%	-0,56
P			mg/l		
Q			mg/l		
R			mg/l		
S	16,3		mg/l	100%	0,00
T	16,69		mg/l	102%	0,73
U	16,00		mg/l	98%	-0,56
V	15,97	0,75	mg/l	98%	-0,61
W	16,3	0,8	mg/l	100%	0,00
X	15,3	0,73	mg/l	94%	-1,86
Y			mg/l		
Z	16	0,80	mg/l	98%	-0,56
AA	18,3 *	0,7	mg/l	112%	3,72
AB			mg/l		
AC	16,1		mg/l	99%	-0,37
AD	15,8	0,8	mg/l	97%	-0,93
AE			mg/l		
AF	16,4	1,7	mg/l	101%	0,19
AG	16,02	1,60	mg/l	98%	-0,52
AH	15,6	1,6	mg/l	96%	-1,30
AI	15,5	2,3	mg/l	95%	-1,49
AJ	16,93	2,0	mg/l	104%	1,17
AK	14,7		mg/l	90%	-2,97
AL	17,05	1,53	mg/l	105%	1,39
AM	16,5	1,7	mg/l	101%	0,37
AN	15,5	1,9	mg/l	95%	-1,49
AO	16,6	0,87	mg/l	102%	0,56



AP	15,99	0,624	mg/l	98%	-0,58
AQ	15,9	1,3	mg/l	98%	-0,74
AR	14,8	1,6	mg/l	91%	-2,79
AS			mg/l		
AT			mg/l		
AU	16,3	1,5	mg/l	100%	0,00
AV	16,3	0,652	mg/l	100%	0,00
AW	15,3	0,1	mg/l	94%	-1,86
AX	16,3	0,058	mg/l	100%	0,00
AY	15,6	1,08	mg/l	96%	-1,30
AZ			mg/l		
BA			mg/l		
BB	17,7	1,0	mg/l	109%	2,60
BC	16,0	1,3	mg/l	98%	-0,56
BD	16	1,6	mg/l	98%	-0,56
BE	15,4	1,54	mg/l	94%	-1,67
BF			mg/l		
BG	17,1	0,6	mg/l	105%	1,49
BH	16,5	0,8	mg/l	101%	0,37
BI	16,4	1,6	mg/l	101%	0,19
BJ	16,7	1,7	mg/l	102%	0,74
BK	16,85		mg/l	103%	1,02
BL	15,66	1,034	mg/l	96%	-1,19
BM			mg/l		
	All results	Outliers excl.	Unit		
Mean \pm CI(99%)	16,1 \pm 0,3	16,1 \pm 0,3	mg/l		
Recov. \pm CI(99%)	98,9 \pm 1,8	98,6 \pm 1,6	%		
SD between labs	0,7	0,6	mg/l		
RSD between labs	4,4	3,9	%		
n for calculation	43	42			

Sample N146A

Parameter Magnesium

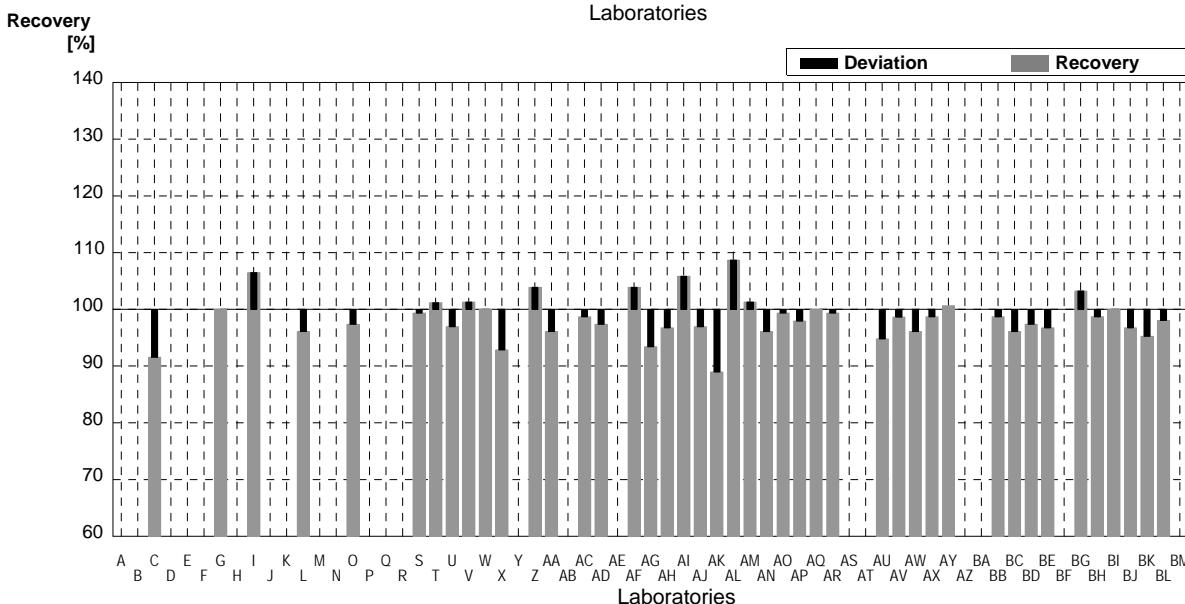
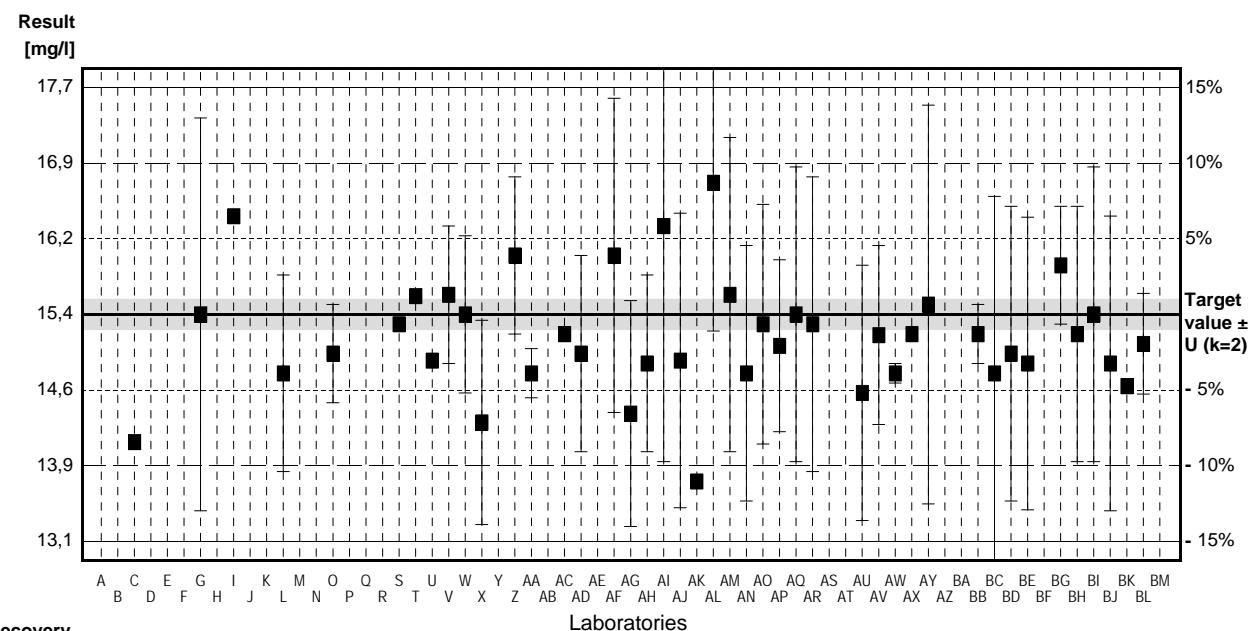
Target value $\pm U$ ($k=2$) 15,4 mg/l \pm 0,2 mg/l

IFA result $\pm U$ ($k=2$) 15,2 mg/l \pm 0,8 mg/l

Stability test

mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			mg/l		
B			mg/l		
C	14,1		mg/l	92%	-2,34
D			mg/l		
E			mg/l		
F			mg/l		
G	15,4	2	mg/l	100%	0,00
H			mg/l		
I	16,4		mg/l	106%	1,80
J			mg/l		
K			mg/l		
L	14,8	1	mg/l	96%	-1,08
M			mg/l		
N			mg/l		
O	15	0,5	mg/l	97%	-0,72
P			mg/l		
Q			mg/l		
R			mg/l		
S	15,3		mg/l	99%	-0,18
T	15,586		mg/l	101%	0,34
U	14,93		mg/l	97%	-0,85
V	15,6	0,7	mg/l	101%	0,36
W	15,4	0,8	mg/l	100%	0,00
X	14,3	1,04	mg/l	93%	-1,98
Y			mg/l		
Z	16	0,80	mg/l	104%	1,08
AA	14,8	0,25	mg/l	96%	-1,08
AB			mg/l		
AC	15,2		mg/l	99%	-0,36
AD	15,0	1,0	mg/l	97%	-0,72
AE			mg/l		
AF	16,0	1,6	mg/l	104%	1,08
AG	14,39	1,15	mg/l	93%	-1,82
AH	14,9	0,9	mg/l	97%	-0,90
AI	16,3	2,4	mg/l	106%	1,62
AJ	14,93	1,5	mg/l	97%	-0,85
AK	13,7 *		mg/l	89%	-3,07
AL	16,74 *	1,51	mg/l	109%	2,42
AM	15,6	1,6	mg/l	101%	0,36
AN	14,8	1,3	mg/l	96%	-1,08
AO	15,3	1,22	mg/l	99%	-0,18



AP	15,08	0,875	mg/l	98%	-0,58
AQ	15,4	1,5	mg/l	100%	0,00
AR	15,3	1,5	mg/l	99%	-0,18
AS			mg/l		
AT			mg/l		
AU	14,6	1,3	mg/l	95%	-1,44
AV	15,19	0,911	mg/l	99%	-0,38
AW	14,8	0,1	mg/l	96%	-1,08
AX	15,2	0,058	mg/l	99%	-0,36
AY	15,5	2,03	mg/l	101%	0,18
AZ			mg/l		
BA			mg/l		
BB	15,2	0,3	mg/l	99%	-0,36
BC	14,8	1,8	mg/l	96%	-1,08
BD	15	1,5	mg/l	97%	-0,72
BE	14,9	1,49	mg/l	97%	-0,90
BF			mg/l		
BG	15,9	0,6	mg/l	103%	0,90
BH	15,2	1,3	mg/l	99%	-0,36
BI	15,4	1,5	mg/l	100%	0,00
BJ	14,9	1,5	mg/l	97%	-0,90
BK	14,67		mg/l	95%	-1,32
BL	15,1	0,513	mg/l	98%	-0,54
BM			mg/l		
	All results	Outliers excl.	Unit		
Mean \pm CI(99%)	15,2 \pm 0,2	15,2 \pm 0,2	mg/l		
Recov. \pm CI(99%)	98,6 \pm 1,6	98,5 \pm 1,4	%		
SD between labs	0,6	0,5	mg/l		
RSD between labs	3,9	3,3	%		
n for calculation	43	41			

Sample N146B

Parameter Magnesium

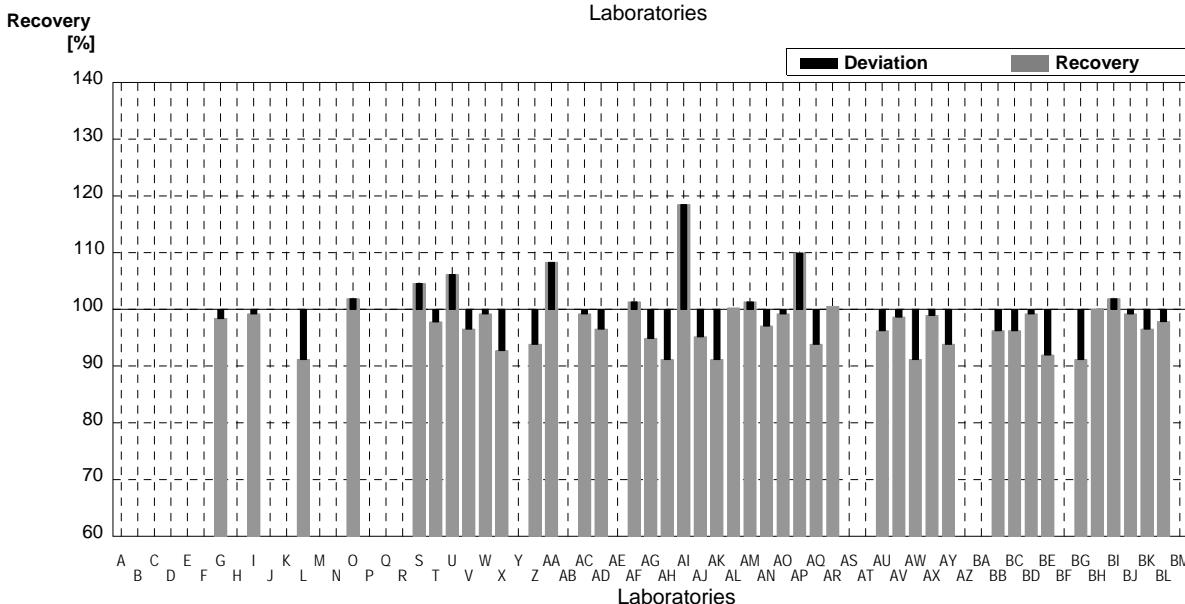
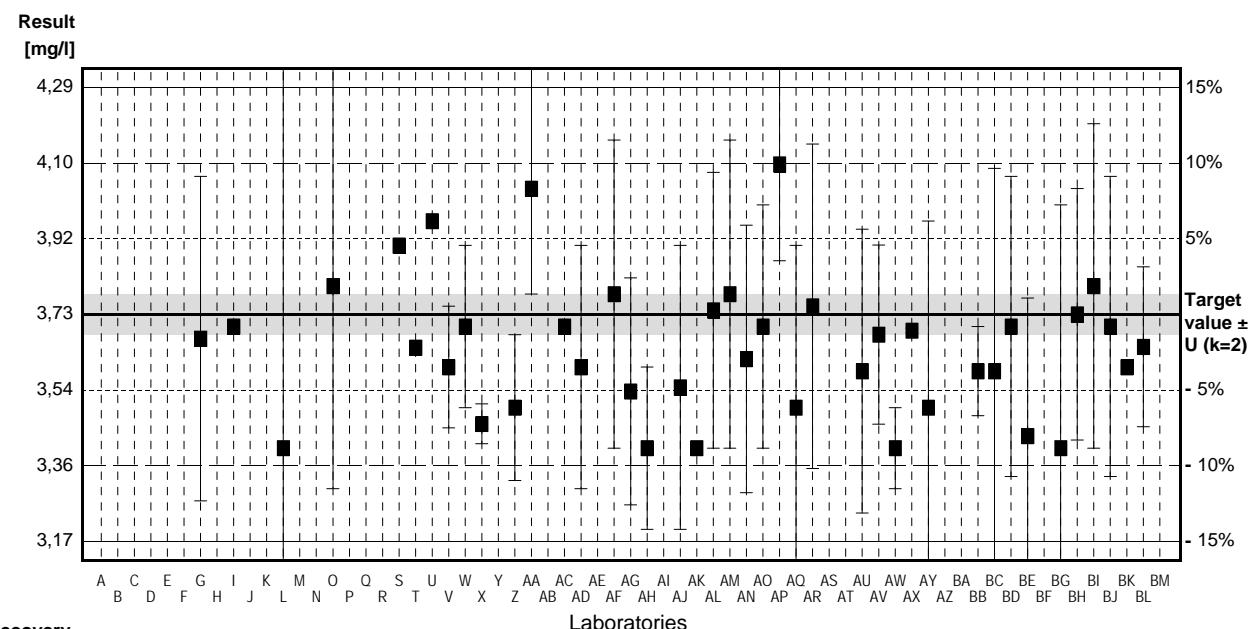
Target value $\pm U$ ($k=2$) 3,73 mg/l \pm 0,05 mg/l

IFA result $\pm U$ ($k=2$) 3,61 mg/l \pm 0,18 mg/l

Stability test

mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			mg/l		
B			mg/l		
C			mg/l		
D			mg/l		
E			mg/l		
F			mg/l		
G	3,67	0,4	mg/l	98%	-0,45
H			mg/l		
I	3,7		mg/l	99%	-0,22
J			mg/l		
K			mg/l		
L	3,4	1	mg/l	91%	-2,46
M			mg/l		
N			mg/l		
O	3,8	0,5	mg/l	102%	0,52
P			mg/l		
Q			mg/l		
R			mg/l		
S	3,9		mg/l	105%	1,27
T	3,648		mg/l	98%	-0,61
U	3,96		mg/l	106%	1,71
V	3,6	0,15	mg/l	97%	-0,97
W	3,7	0,2	mg/l	99%	-0,22
X	3,46	0,049	mg/l	93%	-2,01
Y			mg/l		
Z	3,5	0,18	mg/l	94%	-1,71
AA	4,04	0,26	mg/l	108%	2,31
AB			mg/l		
AC	3,7		mg/l	99%	-0,22
AD	3,6	0,3	mg/l	97%	-0,97
AE			mg/l		
AF	3,78	0,38	mg/l	101%	0,37
AG	3,54	0,28	mg/l	95%	-1,41
AH	3,4	0,2	mg/l	91%	-2,46
AI	4,42 *	0,66	mg/l	118%	5,14
AJ	3,55	0,35	mg/l	95%	-1,34
AK	3,4		mg/l	91%	-2,46
AL	3,74	0,34	mg/l	100%	0,07
AM	3,78	0,38	mg/l	101%	0,37
AN	3,62	0,33	mg/l	97%	-0,82
AO	3,70	0,30	mg/l	99%	-0,22



AP	4,10	0,238	mg/l	110%	2,76
AQ	3,5	0,4	mg/l	94%	-1,71
AR	3,75	0,4	mg/l	101%	0,15
AS			mg/l		
AT			mg/l		
AU	3,59	0,35	mg/l	96%	-1,04
AV	3,68	0,221	mg/l	99%	-0,37
AW	3,4	0,1	mg/l	91%	-2,46
AX	3,69	0,006	mg/l	99%	-0,30
AY	3,5	0,46	mg/l	94%	-1,71
AZ			mg/l		
BA			mg/l		
BB	3,59	0,11	mg/l	96%	-1,04
BC	3,59	0,5	mg/l	96%	-1,04
BD	3,7	0,37	mg/l	99%	-0,22
BE	3,43	0,34	mg/l	92%	-2,23
BF			mg/l		
BG	3,4	0,6	mg/l	91%	-2,46
BH	3,73	0,31	mg/l	100%	0,00
BI	3,8	0,4	mg/l	102%	0,52
BJ	3,7	0,37	mg/l	99%	-0,22
BK	3,60		mg/l	97%	-0,97
BL	3,65	0,197	mg/l	98%	-0,60
BM			mg/l		
	All results	Outliers excl.	Unit		
Mean \pm CI(99%)	3,67 \pm 0,09	3,65 \pm 0,07	mg/l		
Recov. \pm CI(99%)	98,3 \pm 2,3	97,8 \pm 1,9	%		
SD between labs	0,20	0,17	mg/l		
RSD between labs	5,6	4,6	%		
n for calculation	42	41			

Sample N146A

Parameter Sodium

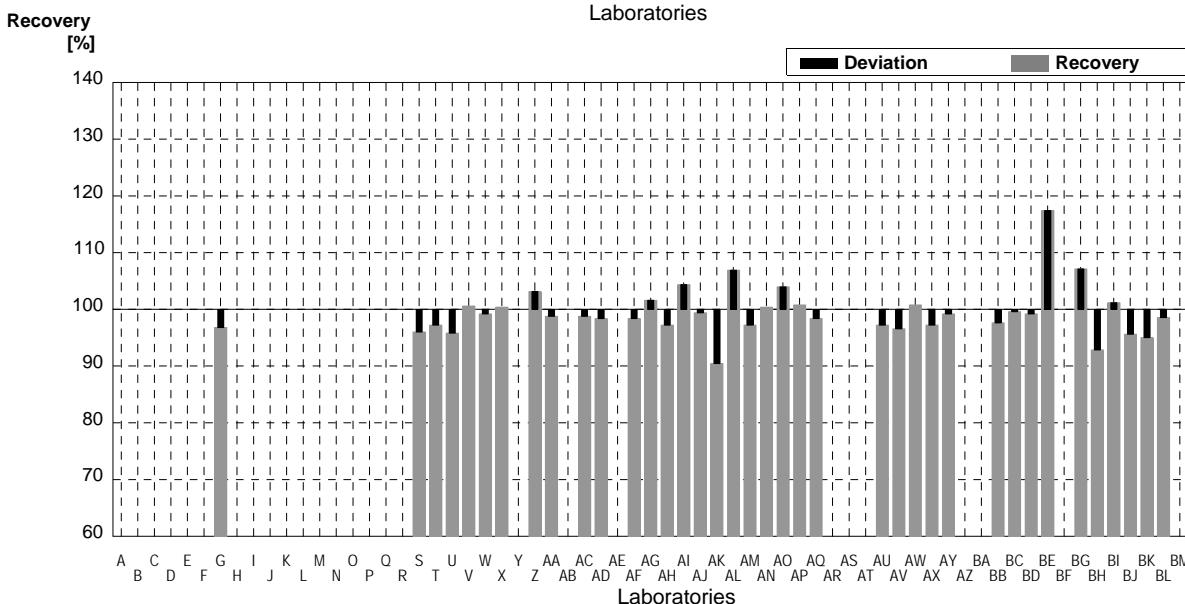
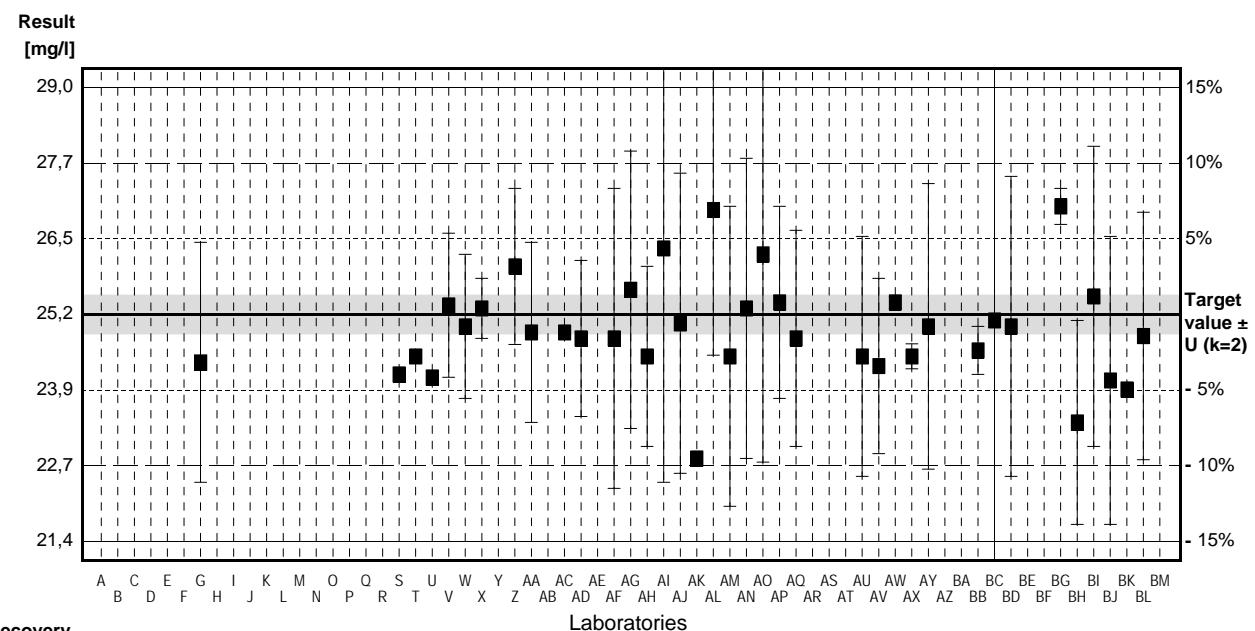
Target value \pm U (k=2) 25,2 mg/l \pm 0,3 mg/l

IFA result \pm U (k=2) 25,5 mg/l \pm 1,3 mg/l

Stability test

mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			mg/l		
B			mg/l		
C			mg/l		
D			mg/l		
E			mg/l		
F			mg/l		
G	24,4	2	mg/l	97%	-0,93
H			mg/l		
I			mg/l		
J			mg/l		
K			mg/l		
L			mg/l		
M			mg/l		
N			mg/l		
O			mg/l		
P			mg/l		
Q			mg/l		
R			mg/l		
S	24,2		mg/l	96%	-1,17
T	24,5		mg/l	97%	-0,82
U	24,15		mg/l	96%	-1,23
V	25,35	1,2	mg/l	101%	0,18
W	25,0	1,2	mg/l	99%	-0,23
X	25,3	0,50	mg/l	100%	0,12
Y			mg/l		
Z	26	1,3	mg/l	103%	0,93
AA	24,9	1,5	mg/l	99%	-0,35
AB			mg/l		
AC	24,9		mg/l	99%	-0,35
AD	24,8	1,3	mg/l	98%	-0,47
AE			mg/l		
AF	24,8	2,5	mg/l	98%	-0,47
AG	25,61	2,31	mg/l	102%	0,48
AH	24,5	1,5	mg/l	97%	-0,82
AI	26,3	3,9	mg/l	104%	1,28
AJ	25,05	2,5	mg/l	99%	-0,18
AK	22,8 *		mg/l	90%	-2,80
AL	26,94 *	2,42	mg/l	107%	2,03
AM	24,5	2,5	mg/l	97%	-0,82
AN	25,3	2,5	mg/l	100%	0,12
AO	26,2	3,46	mg/l	104%	1,17



AP	25,40	1,60	mg/l	101%	0,23
AQ	24,8	1,8	mg/l	98%	-0,47
AR			mg/l		
AS			mg/l		
AT			mg/l		
AU	24,5	2,0	mg/l	97%	-0,82
AV	24,34	1,46	mg/l	97%	-1,00
AW	25,4	0,1	mg/l	101%	0,23
AX	24,5	0,208	mg/l	97%	-0,82
AY	25,0	2,38	mg/l	99%	-0,23
AZ			mg/l		
BA			mg/l		
BB	24,6	0,4	mg/l	98%	-0,70
BC	25,1	4	mg/l	100%	-0,12
BD	25	2,5	mg/l	99%	-0,23
BE	29,6 *	2,96	mg/l	117%	5,14
BF			mg/l		
BG	27,0 *	0,3	mg/l	107%	2,10
BH	23,4	1,7	mg/l	93%	-2,10
BI	25,5	2,5	mg/l	101%	0,35
BJ	24,1	2,4	mg/l	96%	-1,28
BK	23,95		mg/l	95%	-1,46
BL	24,84	2,062	mg/l	99%	-0,42
BM			mg/l		
	All results	Outliers excl.	Unit		
Mean \pm CI(99%)	25,1 \pm 0,5	24,9 \pm 0,3	mg/l		
Recov. \pm CI(99%)	99,5 \pm 2,0	98,8 \pm 1,2	%		
SD between labs	1,1	0,6	mg/l		
RSD between labs	4,5	2,5	%		
n for calculation	38	34			

Sample N146B

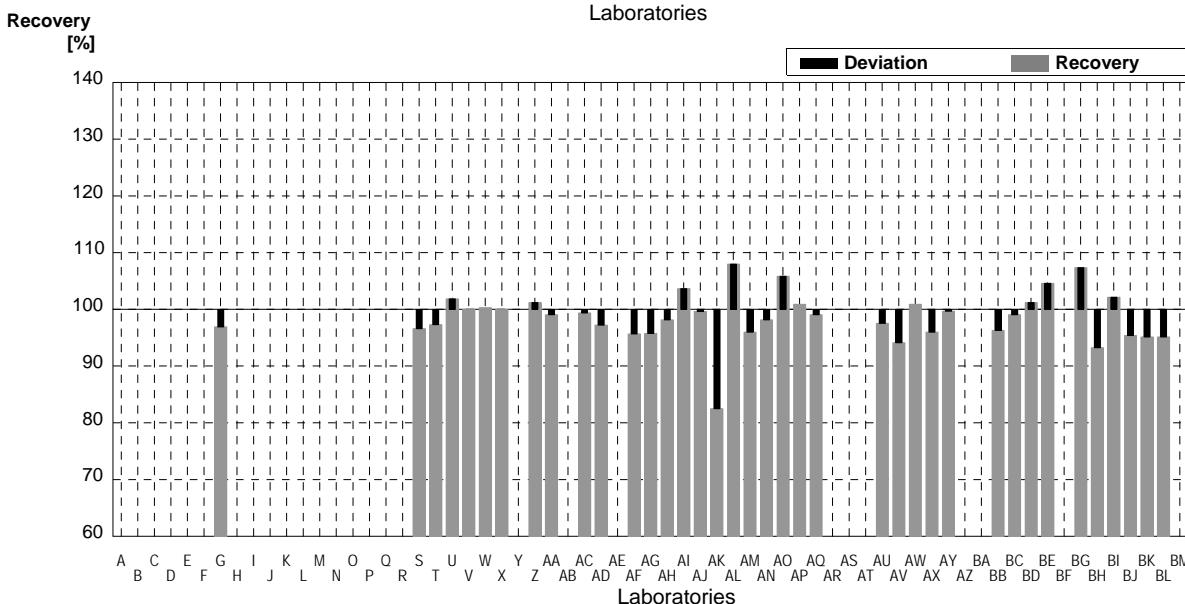
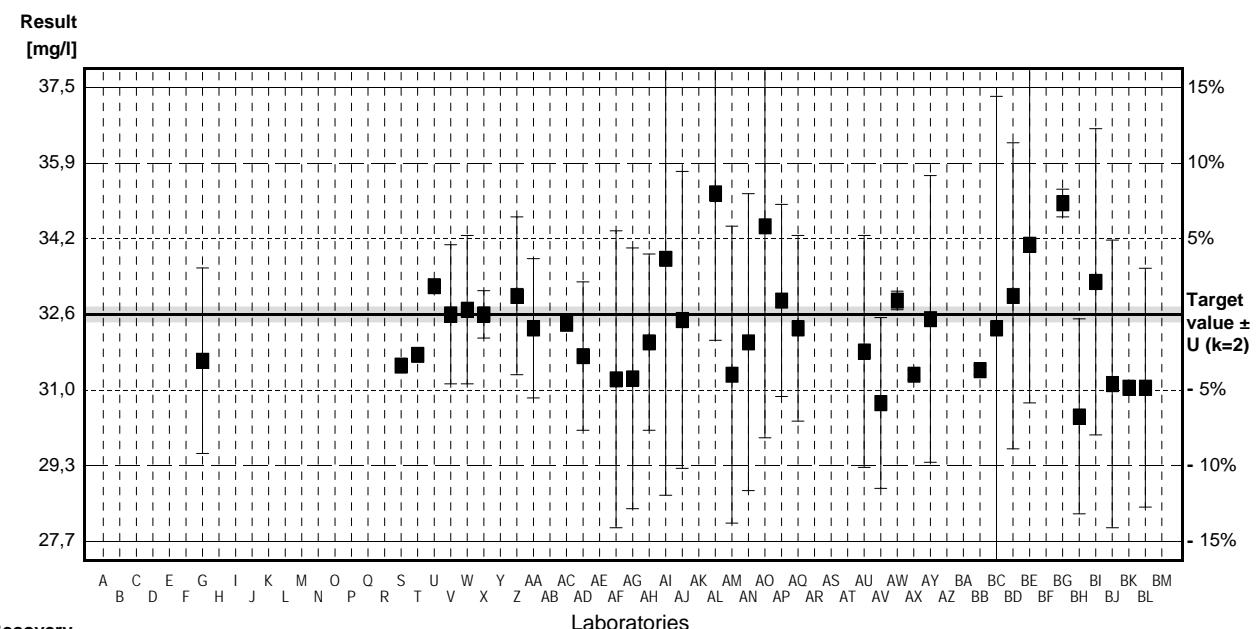
Parameter Sodium

Target value $\pm U$ ($k=2$) 32,6 mg/l \pm 0,2 mg/l
 IFA result $\pm U$ ($k=2$) 33,2 mg/l \pm 1,7 mg/l

Stability test

mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			mg/l		
B			mg/l		
C			mg/l		
D			mg/l		
E			mg/l		
F			mg/l		
G	31,6	2	mg/l	97%	-0,90
H			mg/l		
I			mg/l		
J			mg/l		
K			mg/l		
L			mg/l		
M			mg/l		
N			mg/l		
O			mg/l		
P			mg/l		
Q			mg/l		
R			mg/l		
S	31,5		mg/l	97%	-0,99
T	31,73		mg/l	97%	-0,78
U	33,21		mg/l	102%	0,55
V	32,6	1,5	mg/l	100%	0,00
W	32,7	1,6	mg/l	100%	0,09
X	32,6	0,51	mg/l	100%	0,00
Y			mg/l		
Z	33	1,7	mg/l	101%	0,36
AA	32,3	1,5	mg/l	99%	-0,27
AB			mg/l		
AC	32,4		mg/l	99%	-0,18
AD	31,7	1,6	mg/l	97%	-0,81
AE			mg/l		
AF	31,2	3,2	mg/l	96%	-1,26
AG	31,22	2,81	mg/l	96%	-1,25
AH	32,0	1,9	mg/l	98%	-0,54
AI	33,8	5,1	mg/l	104%	1,08
AJ	32,48	3,2	mg/l	100%	-0,11
AK	26,9 *		mg/l	83%	-5,14
AL	35,21	3,17	mg/l	108%	2,35
AM	31,3	3,2	mg/l	96%	-1,17
AN	32,0	3,2	mg/l	98%	-0,54
AO	34,5	4,56	mg/l	106%	1,71



AP	32,90	2,07	mg/l	101%	0,27
AQ	32,3	2,0	mg/l	99%	-0,27
AR			mg/l		
AS			mg/l		
AT			mg/l		
AU	31,8	2,5	mg/l	98%	-0,72
AV	30,69	1,841	mg/l	94%	-1,72
AW	32,9	0,2	mg/l	101%	0,27
AX	31,3	0,100	mg/l	96%	-1,17
AY	32,5	3,09	mg/l	100%	-0,09
AZ			mg/l		
BA			mg/l		
BB	31,4	0,1	mg/l	96%	-1,08
BC	32,3	5	mg/l	99%	-0,27
BD	33	3,3	mg/l	101%	0,36
BE	34,1	3,41	mg/l	105%	1,35
BF			mg/l		
BG	35,0	0,3	mg/l	107%	2,17
BH	30,4	2,1	mg/l	93%	-1,98
BI	33,3	3,3	mg/l	102%	0,63
BJ	31,1	3,1	mg/l	95%	-1,35
BK	31,02		mg/l	95%	-1,43
BL	31,02	2,575	mg/l	95%	-1,43
BM			mg/l		
	All results	Outliers excl.	Unit		
Mean \pm CI(99%)	32,2 \pm 0,6	32,3 \pm 0,5	mg/l		
Recov. \pm CI(99%)	98,7 \pm 2,0	99,2 \pm 1,6	%		
SD between labs	1,4	1,2	mg/l		
RSD between labs	4,5	3,6	%		
n for calculation	38	37			

Sample N146A

Parameter Potassium

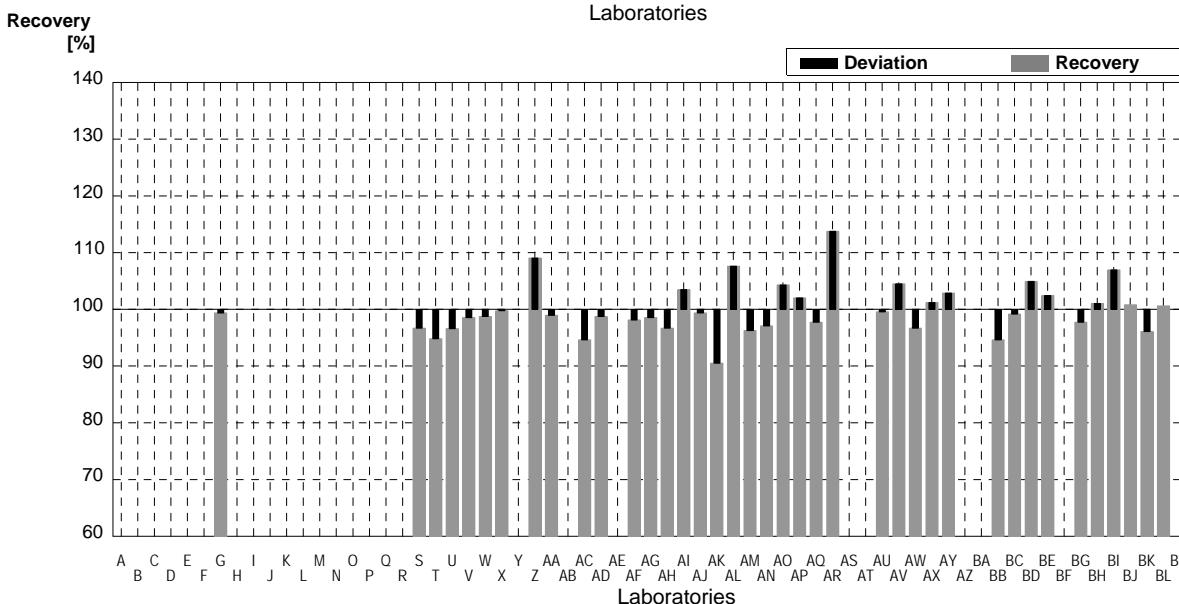
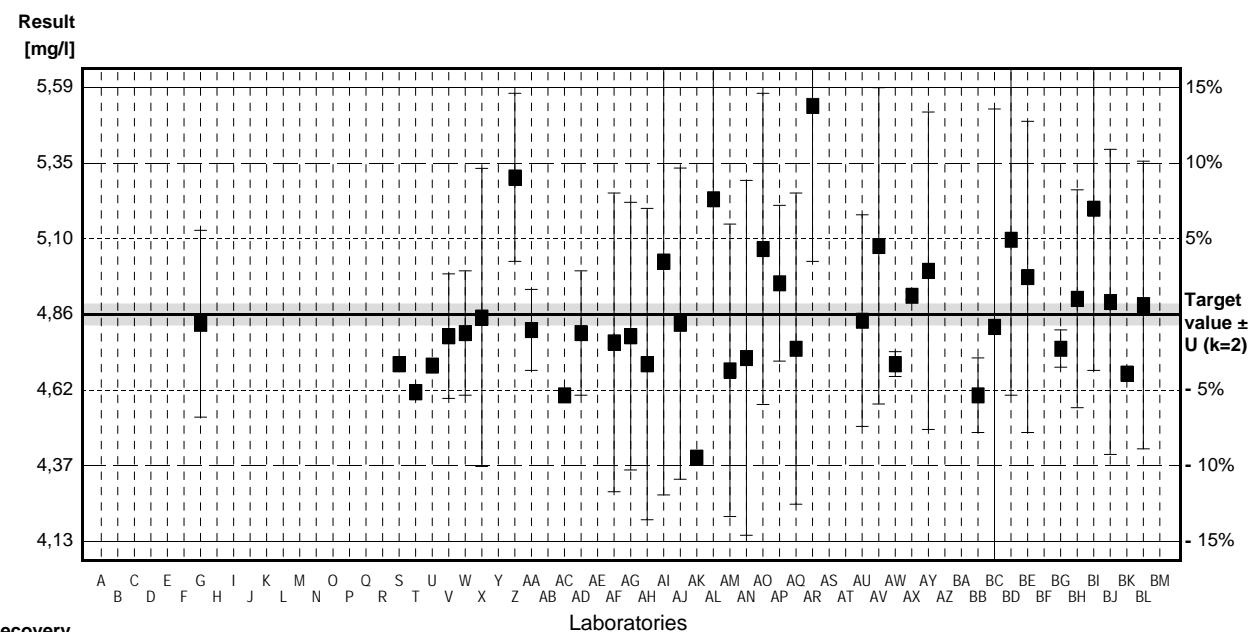
Target value $\pm U$ ($k=2$) 4,86 mg/l \pm 0,03 mg/l

IFA result $\pm U$ ($k=2$) 4,67 mg/l \pm 0,33 mg/l

Stability test

mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			mg/l		
B			mg/l		
C			mg/l		
D			mg/l		
E			mg/l		
F			mg/l		
G	4,83	0,3	mg/l	99%	-0,13
H			mg/l		
I			mg/l		
J			mg/l		
K			mg/l		
L			mg/l		
M			mg/l		
N			mg/l		
O			mg/l		
P			mg/l		
Q			mg/l		
R			mg/l		
S	4,7		mg/l	97%	-0,69
T	4,61		mg/l	95%	-1,07
U	4,696		mg/l	97%	-0,70
V	4,79	0,2	mg/l	99%	-0,30
W	4,8	0,2	mg/l	99%	-0,26
X	4,85	0,479	mg/l	100%	-0,04
Y			mg/l		
Z	5,3	0,27	mg/l	109%	1,89
AA	4,81	0,13	mg/l	99%	-0,21
AB			mg/l		
AC	4,6		mg/l	95%	-1,11
AD	4,8	0,2	mg/l	99%	-0,26
AE			mg/l		
AF	4,77	0,48	mg/l	98%	-0,39
AG	4,79	0,43	mg/l	99%	-0,30
AH	4,7	0,5	mg/l	97%	-0,69
AI	5,03	0,75	mg/l	103%	0,73
AJ	4,83	0,5	mg/l	99%	-0,13
AK	4,4		mg/l	91%	-1,97
AL	5,23	0,37	mg/l	108%	1,59
AM	4,68	0,47	mg/l	96%	-0,77
AN	4,72	0,57	mg/l	97%	-0,60
AO	5,07	0,50	mg/l	104%	0,90



AP	4,96	0,25	mg/l	102%	0,43
AQ	4,75	0,5	mg/l	98%	-0,47
AR	5,53 *	0,5	mg/l	114%	2,87
AS			mg/l		
AT			mg/l		
AU	4,84	0,34	mg/l	100%	-0,09
AV	5,08	0,508	mg/l	105%	0,94
AW	4,7	0,04	mg/l	97%	-0,69
AX	4,92	0,012	mg/l	101%	0,26
AY	5,0	0,51	mg/l	103%	0,60
AZ			mg/l		
BA			mg/l		
BB	4,60	0,12	mg/l	95%	-1,11
BC	4,82	0,7	mg/l	99%	-0,17
BD	5,1	0,5	mg/l	105%	1,03
BE	4,98	0,50	mg/l	102%	0,51
BF			mg/l		
BG	4,75	0,06	mg/l	98%	-0,47
BH	4,91	0,35	mg/l	101%	0,21
BI	5,20	0,52	mg/l	107%	1,46
BJ	4,9	0,49	mg/l	101%	0,17
BK	4,67		mg/l	96%	-0,81
BL	4,89	0,462	mg/l	101%	0,13
BM			mg/l		
	All results	Outliers excl.	Unit		
Mean ± CI(99%)	4,86 ± 0,09	4,84 ± 0,08	mg/l		
Recov. ± CI(99%)	100,0 ± 1,9	99,7 ± 1,7	%		
SD between labs	0,22	0,19	mg/l		
RSD between labs	4,5	3,9	%		
n for calculation	39	38			

Sample N146B

Parameter Potassium

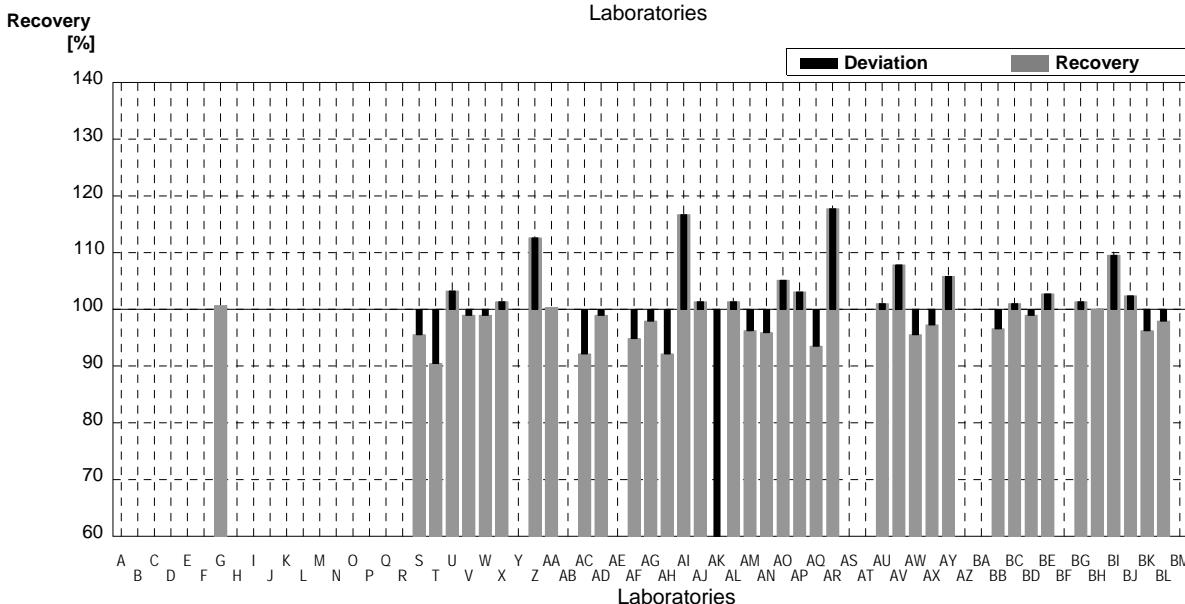
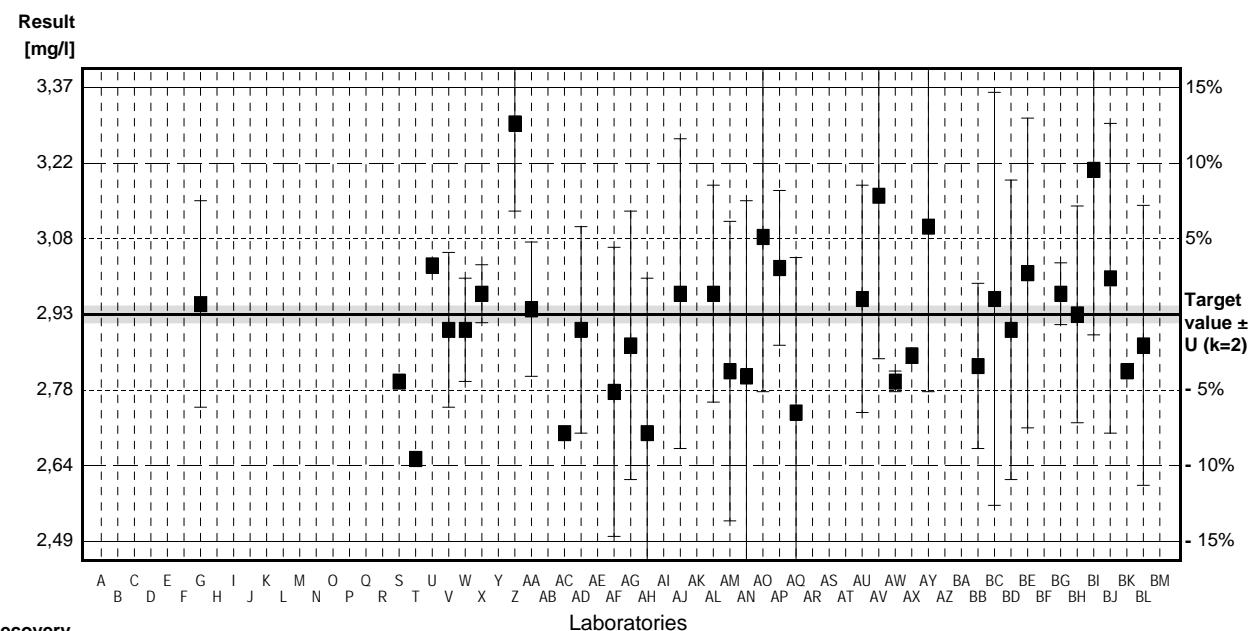
Target value $\pm U$ ($k=2$) 2,93 mg/l \pm 0,02 mg/l

IFA result $\pm U$ ($k=2$) 2,92 mg/l \pm 0,20 mg/l

Stability test

mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			mg/l		
B			mg/l		
C			mg/l		
D			mg/l		
E			mg/l		
F			mg/l		
G	2,95	0,2	mg/l	101%	0,14
H			mg/l		
I			mg/l		
J			mg/l		
K			mg/l		
L			mg/l		
M			mg/l		
N			mg/l		
O			mg/l		
P			mg/l		
Q			mg/l		
R			mg/l		
S	2,8		mg/l	96%	-0,92
T	2,65		mg/l	90%	-1,99
U	3,025		mg/l	103%	0,68
V	2,9	0,15	mg/l	99%	-0,21
W	2,9	0,1	mg/l	99%	-0,21
X	2,97	0,056	mg/l	101%	0,28
Y			mg/l		
Z	3,3	0,17	mg/l	113%	2,63
AA	2,94	0,13	mg/l	100%	0,07
AB			mg/l		
AC	2,7		mg/l	92%	-1,64
AD	2,9	0,2	mg/l	99%	-0,21
AE			mg/l		
AF	2,78	0,28	mg/l	95%	-1,07
AG	2,87	0,26	mg/l	98%	-0,43
AH	2,7	0,3	mg/l	92%	-1,64
AI	3,42 *	0,51	mg/l	117%	3,48
AJ	2,97	0,3	mg/l	101%	0,28
AK	1,7 *		mg/l	58%	-8,75
AL	2,97	0,21	mg/l	101%	0,28
AM	2,82	0,29	mg/l	96%	-0,78
AN	2,81	0,34	mg/l	96%	-0,85
AO	3,08	0,30	mg/l	105%	1,07



AP	3,02	0,15	mg/l	103%	0,64
AQ	2,74	0,3	mg/l	94%	-1,35
AR	3,45 *	0,3	mg/l	118%	3,70
AS			mg/l		
AT			mg/l		
AU	2,96	0,22	mg/l	101%	0,21
AV	3,16	0,316	mg/l	108%	1,64
AW	2,8	0,02	mg/l	96%	-0,92
AX	2,85	0,015	mg/l	97%	-0,57
AY	3,1	0,32	mg/l	106%	1,21
AZ			mg/l		
BA			mg/l		
BB	2,83	0,16	mg/l	97%	-0,71
BC	2,96	0,4	mg/l	101%	0,21
BD	2,9	0,29	mg/l	99%	-0,21
BE	3,01	0,30	mg/l	103%	0,57
BF			mg/l		
BG	2,97	0,06	mg/l	101%	0,28
BH	2,93	0,21	mg/l	100%	0,00
BI	3,21	0,32	mg/l	110%	1,99
BJ	3,0	0,3	mg/l	102%	0,50
BK	2,82		mg/l	96%	-0,78
BL	2,87	0,271	mg/l	98%	-0,43
BM			mg/l		
	All results	Outliers excl.	Unit		
Mean \pm CI(99%)	2,92 \pm 0,12	2,92 \pm 0,06	mg/l		
Recov. \pm CI(99%)	99,5 \pm 4,0	99,7 \pm 2,2	%		
SD between labs	0,27	0,14	mg/l		
RSD between labs	9,2	4,8	%		
n for calculation	39	36			

Sample N146A

Parameter Nitrate

Target value $\pm U$ ($k=2$) 54,3 mg/l \pm 0,9 mg/l

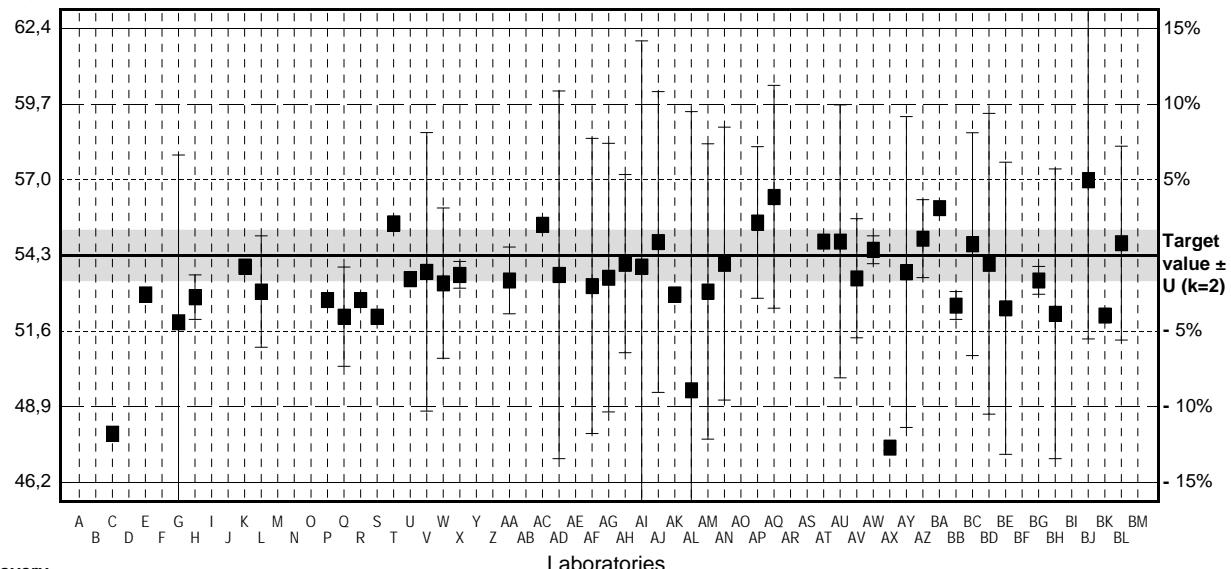
IFA result $\pm U$ ($k=2$) 52,8 mg/l \pm 2,6 mg/l

Stability test

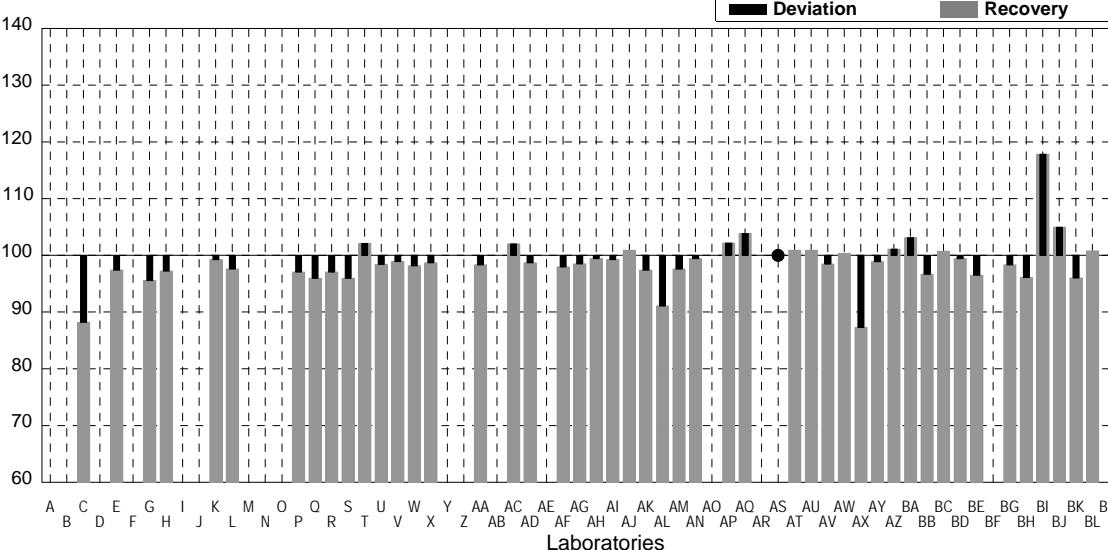
mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			mg/l		
B			mg/l		
C	47,9 *		mg/l	88%	-3,37
D			mg/l		
E	52,9		mg/l	97%	-0,74
F			mg/l		
G	51,9	6	mg/l	96%	-1,26
H	52,8	0,8	mg/l	97%	-0,79
I			mg/l		
J			mg/l		
K	53,9		mg/l	99%	-0,21
L	53	2	mg/l	98%	-0,68
M			mg/l		
N			mg/l		
O			mg/l		
P	52,7		mg/l	97%	-0,84
Q	52,1	1,78	mg/l	96%	-1,16
R	52,7		mg/l	97%	-0,84
S	52,1		mg/l	96%	-1,16
T	55,45		mg/l	102%	0,61
U	53,45		mg/l	98%	-0,45
V	53,71	5,0	mg/l	99%	-0,31
W	53,3	2,7	mg/l	98%	-0,53
X	53,6	0,48	mg/l	99%	-0,37
Y			mg/l		
Z			mg/l		
AA	53,4	1,2	mg/l	98%	-0,47
AB			mg/l		
AC	55,4		mg/l	102%	0,58
AD	53,6	6,6	mg/l	99%	-0,37
AE			mg/l		
AF	53,2	5,3	mg/l	98%	-0,58
AG	53,50	4,82	mg/l	99%	-0,42
AH	54,0	3,2	mg/l	99%	-0,16
AI	53,9	8,1	mg/l	99%	-0,21
AJ	54,78	5,4	mg/l	101%	0,25
AK	52,9		mg/l	97%	-0,74
AL	49,46	10,0	mg/l	91%	-2,55
AM	53,0	5,3	mg/l	98%	-0,68
AN	54,0	4,9	mg/l	99%	-0,16
AO			mg/l		

Result
[mg/l]



Recovery
[%]



AP	55,48	2,72	mg/l	102%	0,62
AQ	56,4	4,0	mg/l	104%	1,10
AR			mg/l		
AS	>30		mg/l	•	
AT	54,8		mg/l	101%	0,26
AU	54,8	4,9	mg/l	101%	0,26
AV	53,476	2,1391	mg/l	98%	-0,43
AW	54,5	0,5	mg/l	100%	0,11
AX	47,4 *	0,115	mg/l	87%	-3,63
AY	53,7	5,58	mg/l	99%	-0,32
AZ	54,9	1,4	mg/l	101%	0,32
BA	56,0		mg/l	103%	0,89
BB	52,5	0,5	mg/l	97%	-0,95
BC	54,7	4	mg/l	101%	0,21
BD	54	5,4	mg/l	99%	-0,16
BE	52,4	5,24	mg/l	97%	-1,00
BF			mg/l		
BG	53,4	0,5	mg/l	98%	-0,47
BH	52,2	5,2	mg/l	96%	-1,10
BI	64 *	6,4	mg/l	118%	5,10
BJ	57	5,7	mg/l	105%	1,42
BK	52,14		mg/l	96%	-1,14
BL	54,74	3,482	mg/l	101%	0,23
BM			mg/l		
	All results	Outliers excl.	Unit		
Mean ± CI(99%)	53,6 ± 0,9	53,7 ± 0,6	mg/l		
Recov. ± CI(99%)	98,8 ± 1,7	98,9 ± 1,0	%		
SD between labs	2,4	1,4	mg/l		
RSD between labs	4,4	2,6	%		
n for calculation	47	44			

Sample N146B

Parameter Nitrate

Target value $\pm U$ ($k=2$) 16,6 mg/l \pm 0,3 mg/l

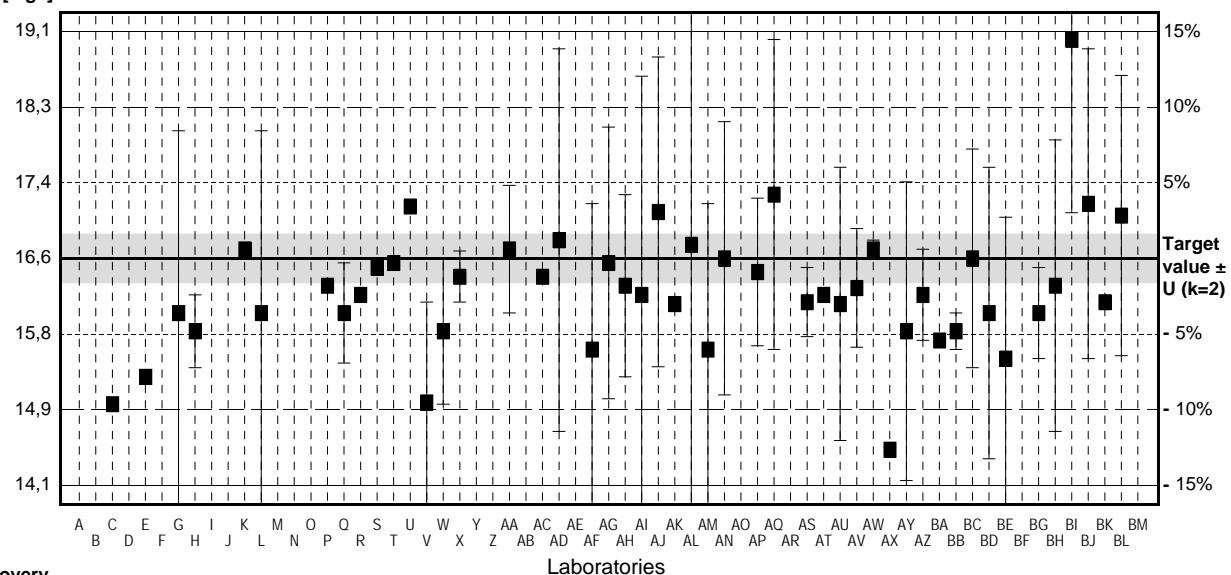
IFA result $\pm U$ ($k=2$) 16,3 mg/l \pm 0,8 mg/l

Stability test

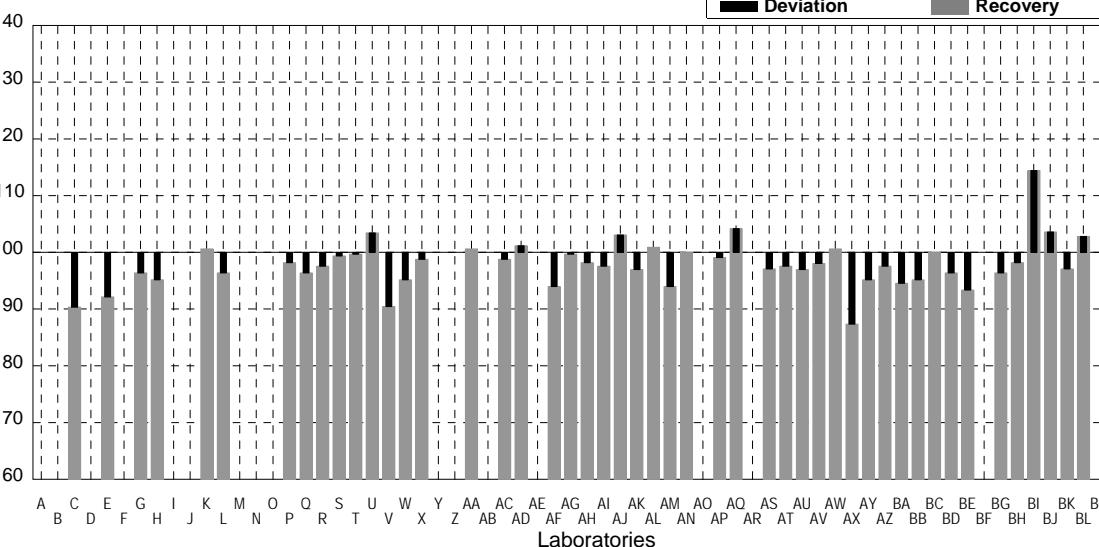
mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			mg/l		
B			mg/l		
C	15,0		mg/l	90%	-2,75
D			mg/l		
E	15,3		mg/l	92%	-2,24
F			mg/l		
G	16,0	2	mg/l	96%	-1,03
H	15,8	0,4	mg/l	95%	-1,38
I			mg/l		
J			mg/l		
K	16,7		mg/l	101%	0,17
L	16	2	mg/l	96%	-1,03
M			mg/l		
N			mg/l		
O			mg/l		
P	16,3		mg/l	98%	-0,52
Q	16,0	0,55	mg/l	96%	-1,03
R	16,2		mg/l	98%	-0,69
S	16,5		mg/l	99%	-0,17
T	16,55		mg/l	100%	-0,09
U	17,17		mg/l	103%	0,98
V	15,02	1,1	mg/l	90%	-2,72
W	15,8	0,8	mg/l	95%	-1,38
X	16,4	0,28	mg/l	99%	-0,34
Y			mg/l		
Z			mg/l		
AA	16,7	0,7	mg/l	101%	0,17
AB			mg/l		
AC	16,4		mg/l	99%	-0,34
AD	16,8	2,1	mg/l	101%	0,34
AE			mg/l		
AF	15,6	1,6	mg/l	94%	-1,72
AG	16,55	1,49	mg/l	100%	-0,09
AH	16,3	1,0	mg/l	98%	-0,52
AI	16,2	2,4	mg/l	98%	-0,69
AJ	17,11	1,7	mg/l	103%	0,88
AK	16,1		mg/l	97%	-0,86
AL	16,75	3,02	mg/l	101%	0,26
AM	15,6	1,6	mg/l	94%	-1,72
AN	16,6	1,5	mg/l	100%	0,00
AO			mg/l		

Result
[mg/l]



Recovery
[%]



AP	16,45	0,81	mg/l	99%	-0,26
AQ	17,3	1,7	mg/l	104%	1,20
AR			mg/l		
AS	16,12	0,38	mg/l	97%	-0,83
AT	16,2		mg/l	98%	-0,69
AU	16,1	1,5	mg/l	97%	-0,86
AV	16,275	0,651	mg/l	98%	-0,56
AW	16,7	0,1	mg/l	101%	0,17
AX	14,5	0,025	mg/l	87%	-3,61
AY	15,8	1,64	mg/l	95%	-1,38
AZ	16,2	0,5	mg/l	98%	-0,69
BA	15,7		mg/l	95%	-1,55
BB	15,8	0,2	mg/l	95%	-1,38
BC	16,6	1,2	mg/l	100%	0,00
BD	16	1,6	mg/l	96%	-1,03
BE	15,5	1,55	mg/l	93%	-1,89
BF			mg/l		
BG	16,0	0,5	mg/l	96%	-1,03
BH	16,3	1,6	mg/l	98%	-0,52
BI	19 *	1,9	mg/l	114%	4,13
BJ	17,2	1,7	mg/l	104%	1,03
BK	16,12		mg/l	97%	-0,83
BL	17,07	1,538	mg/l	103%	0,81
BM			mg/l		
	All results	Outliers excl.	Unit		
Mean \pm CI(99%)	16,3 \pm 0,3	16,2 \pm 0,2	mg/l		
Recov. \pm CI(99%)	97,9 \pm 1,6	97,6 \pm 1,4	%		
SD between labs	0,7	0,6	mg/l		
RSD between labs	4,4	3,6	%		
n for calculation	48	47			

Sample N146A

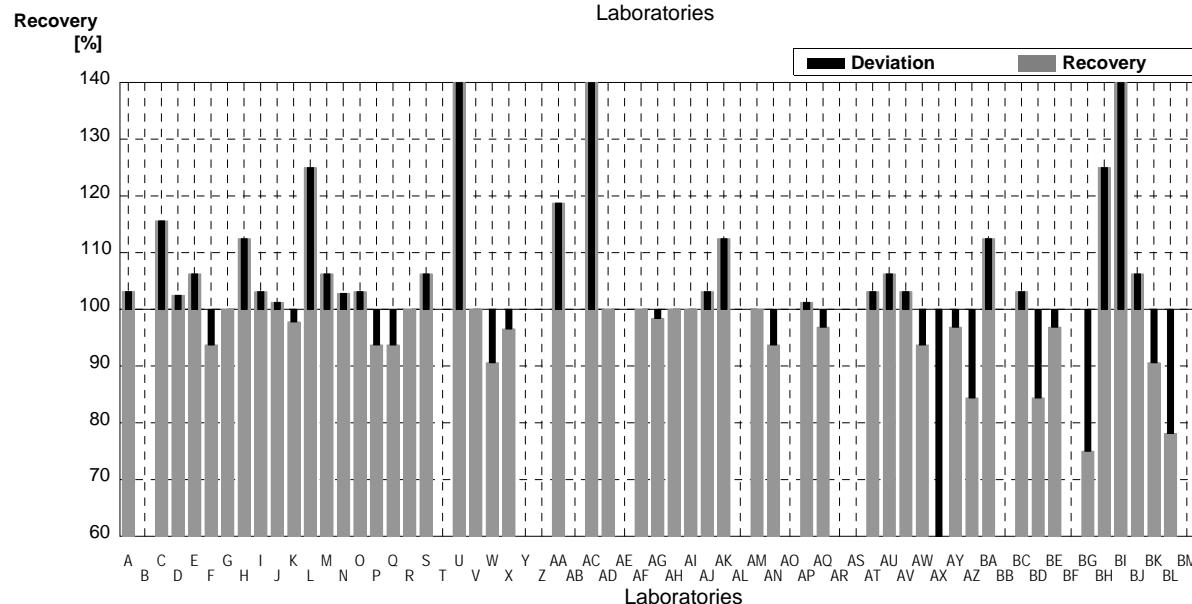
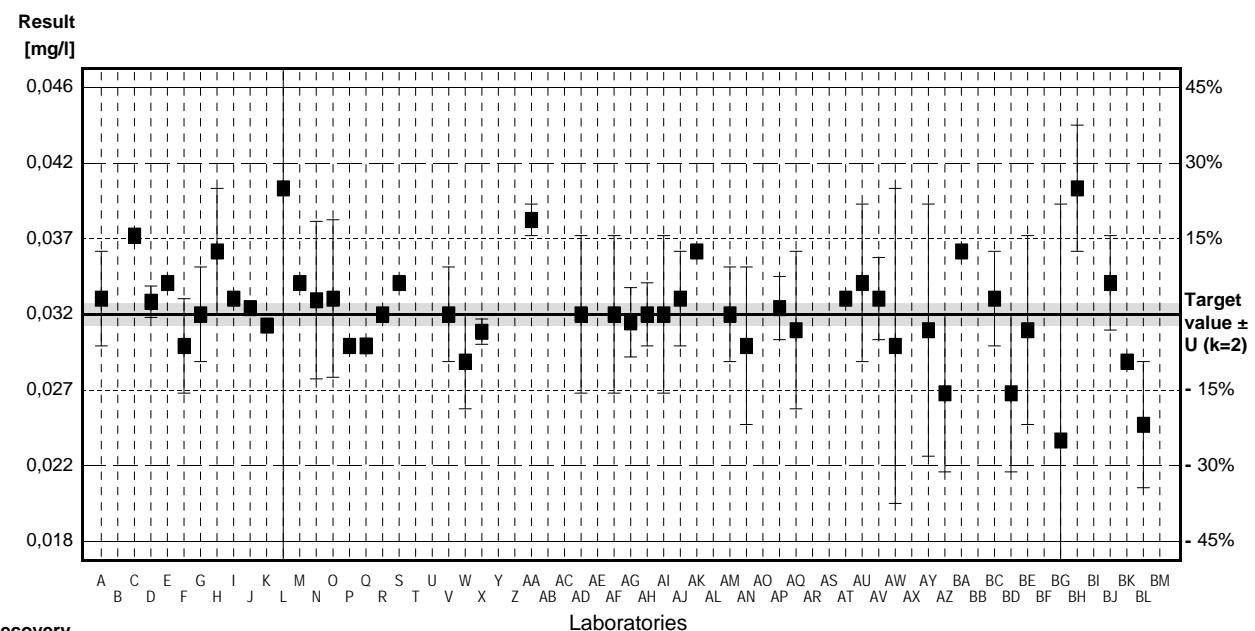
Parameter Nitrite

Target value $\pm U$ ($k=2$) 0,032 mg/l \pm 0,001 mg/l

IFA result $\pm U$ ($k=2$) 0,032 mg/l \pm 0,001 mg/l

Stability test $\pm U$ ($k=2$) 0,031 mg/l \pm 0,001 mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	0,033	0,003	mg/l	103%	0,56
B			mg/l		
C	0,037		mg/l	116%	2,79
D	0,0328	0,001	mg/l	103%	0,45
E	0,034		mg/l	106%	1,12
F	0,030	0,003	mg/l	94%	-1,12
G	0,032	0,003	mg/l	100%	0,00
H	0,036	0,004	mg/l	113%	2,23
I	0,033		mg/l	103%	0,56
J	0,0324		mg/l	101%	0,22
K	0,0313		mg/l	98%	-0,39
L	0,04	0,05	mg/l	125%	4,46
M	0,034		mg/l	106%	1,12
N	0,0329	0,005	mg/l	103%	0,50
O	0,033	0,005	mg/l	103%	0,56
P	0,03		mg/l	94%	-1,12
Q	0,03	0,0005	mg/l	94%	-1,12
R	0,032		mg/l	100%	0,00
S	0,034		mg/l	106%	1,12
T			mg/l		
U	0,086 *		mg/l	269%	30,13
V	0,032	0,003	mg/l	100%	0,00
W	0,029	0,003	mg/l	91%	-1,67
X	0,0309	0,0008	mg/l	97%	-0,61
Y			mg/l		
Z			mg/l		
AA	0,038	0,001	mg/l	119%	3,35
AB			mg/l		
AC	0,26 *		mg/l	813%	127,23
AD	0,032	0,005	mg/l	100%	0,00
AE			mg/l		
AF	0,032	0,005	mg/l	100%	0,00
AG	0,0315	0,0022	mg/l	98%	-0,28
AH	0,032	0,002	mg/l	100%	0,00
AI	0,032	0,005	mg/l	100%	0,00
AJ	0,033	0,003	mg/l	103%	0,56
AK	0,036		mg/l	113%	2,23
AL			mg/l		
AM	0,032	0,003	mg/l	100%	0,00
AN	0,030	0,005	mg/l	94%	-1,12
AO			mg/l		



AP	0,0324	0,0020	mg/l	101%	0,22
AQ	0,031	0,005	mg/l	97%	-0,56
AR			mg/l		
AS			mg/l		
AT	0,033		mg/l	103%	0,56
AU	0,034	0,005	mg/l	106%	1,12
AV	0,033	0,0026	mg/l	103%	0,56
AW	0,030	0,01	mg/l	94%	-1,12
AX	0,0099 *	0,0001	mg/l	31%	-12,33
AY	0,031	0,008	mg/l	97%	-0,56
AZ	0,027	0,005	mg/l	84%	-2,79
BA	0,036		mg/l	113%	2,23
BB			mg/l		
BC	0,033	0,003	mg/l	103%	0,56
BD	0,027	0,005	mg/l	84%	-2,79
BE	0,031	0,006	mg/l	97%	-0,56
BF			mg/l		
BG	0,024 *	0,015	mg/l	75%	-4,46
BH	0,040	0,004	mg/l	125%	4,46
BI	0,11 *	0,01	mg/l	344%	43,53
BJ	0,034	0,003	mg/l	106%	1,12
BK	0,029		mg/l	91%	-1,67
BL	0,025	0,004	mg/l	78%	-3,91
BM			mg/l		
	All results	Outliers excl.	Unit		
Mean \pm CI(99%)	0,039 \pm 0,013	0,032 \pm 0,001	mg/l		
Recov. \pm CI(99%)	121,0 \pm 39,6	101,3 \pm 3,6	%		
SD between labs	0,034	0,003	mg/l		
RSD between labs	88,2	9,1	%		
n for calculation	52	47			

Sample N146B

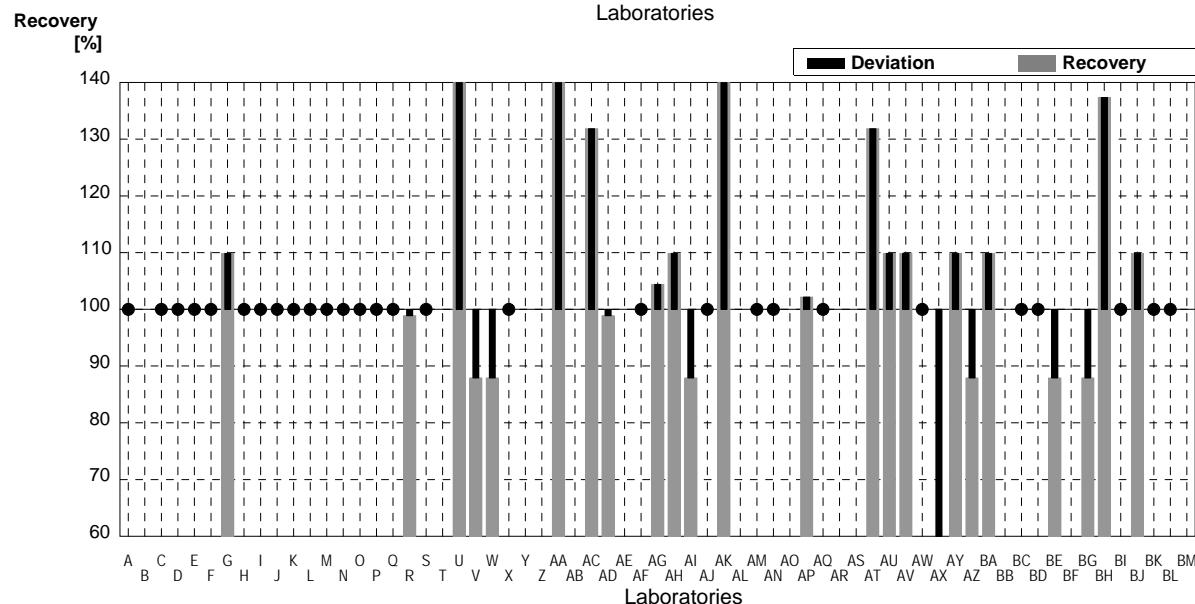
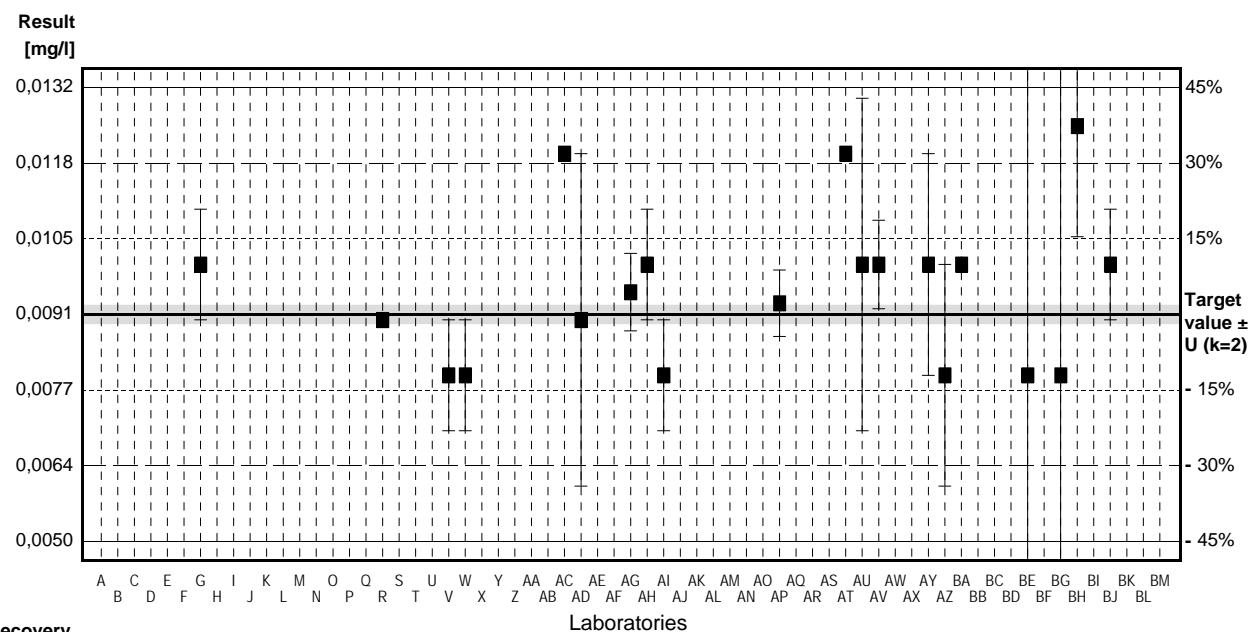
Parameter Nitrite

Target value $\pm U$ ($k=2$) 0,0091 mg/l \pm 0,0002 mg/l

IFA result $\pm U$ ($k=2$) 0,0096 mg/l \pm 0,0004 mg/l

Stability test $\pm U$ ($k=2$) 0,0091 mg/l \pm 0,0004 mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	<0,016	0,005	mg/l	•	
B			mg/l		
C	<0,02		mg/l	•	
D	<0,02		mg/l	•	
E	<0,02		mg/l	•	
F	<0,015	0,003	mg/l	•	
G	0,010	0,001	mg/l	110%	
H	<0,016		mg/l	•	
I	<0,02		mg/l	•	
J	<0,02		mg/l	•	
K	<0,0164		mg/l	•	
L	<0,02	0,05	mg/l	•	
M	<0,02		mg/l	•	
N	<0,02	0,005	mg/l	•	
O	<0,02		mg/l	•	
P	<0,02		mg/l	•	
Q	<0,03		mg/l	•	
R	0,009		mg/l	99%	
S	<0,01		mg/l	•	
T			mg/l		
U	0,069 *		mg/l	758%	
V	0,008	0,001	mg/l	88%	
W	0,008	0,001	mg/l	88%	
X	<0,0100		mg/l	•	
Y			mg/l		
Z			mg/l		
AA	0,0146	0,0015	mg/l	160%	
AB			mg/l		
AC	0,012		mg/l	132%	
AD	0,009	0,003	mg/l	99%	
AE			mg/l		
AF	<0,010		mg/l	•	
AG	0,0095	0,0007	mg/l	104%	
AH	0,010	0,001	mg/l	110%	
AI	0,008	0,001	mg/l	88%	
AJ	<0,0099		mg/l	•	
AK	0,021 *		mg/l	231%	
AL			mg/l		
AM	<0,010		mg/l	•	
AN	<0,01		mg/l	•	
AO			mg/l		



AP	0,0093	0,0006	mg/l	102%	
AQ	<0,010		mg/l	•	
AR			mg/l		
AS			mg/l		
AT	0,012		mg/l	132%	
AU	0,010	0,003	mg/l	110%	
AV	0,01	0,0008	mg/l	110%	
AW	<0,01		mg/l	•	
AX	0,0029	0,0001	mg/l	32%	
AY	0,010	0,002	mg/l	110%	
AZ	0,008	0,002	mg/l	88%	
BA	0,010		mg/l	110%	
BB			mg/l		
BC	<0,01		mg/l	•	
BD	<0,01		mg/l	•	
BE	0,008	0,006	mg/l	88%	
BF			mg/l		
BG	0,008	0,015	mg/l	88%	
BH	0,0125	0,002	mg/l	137%	
BI	<0,05		mg/l	•	
BJ	0,010	0,001	mg/l	110%	
BK	<0,02		mg/l	•	
BL	<0,01		mg/l	•	
BM			mg/l		
	All results	Outliers excl.		Unit	
Mean ± CI(99%)	0,0125 ± 0,007	0,0095 ± 0,001		mg/l	
Recov. ± CI(99%)	136,8 ± 78,5	104,3 ± 15,0		%	
SD between labs	0,0125	0,0023		mg/l	
RSD between labs	100,1	23,8		%	
n for calculation	24	22			

Sample N146A

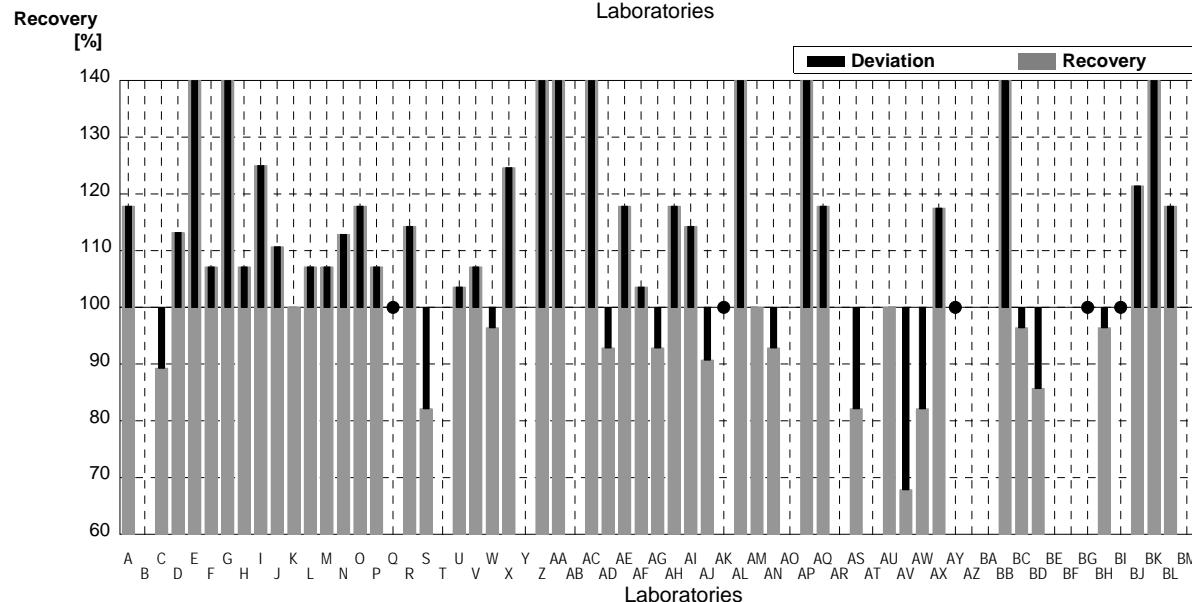
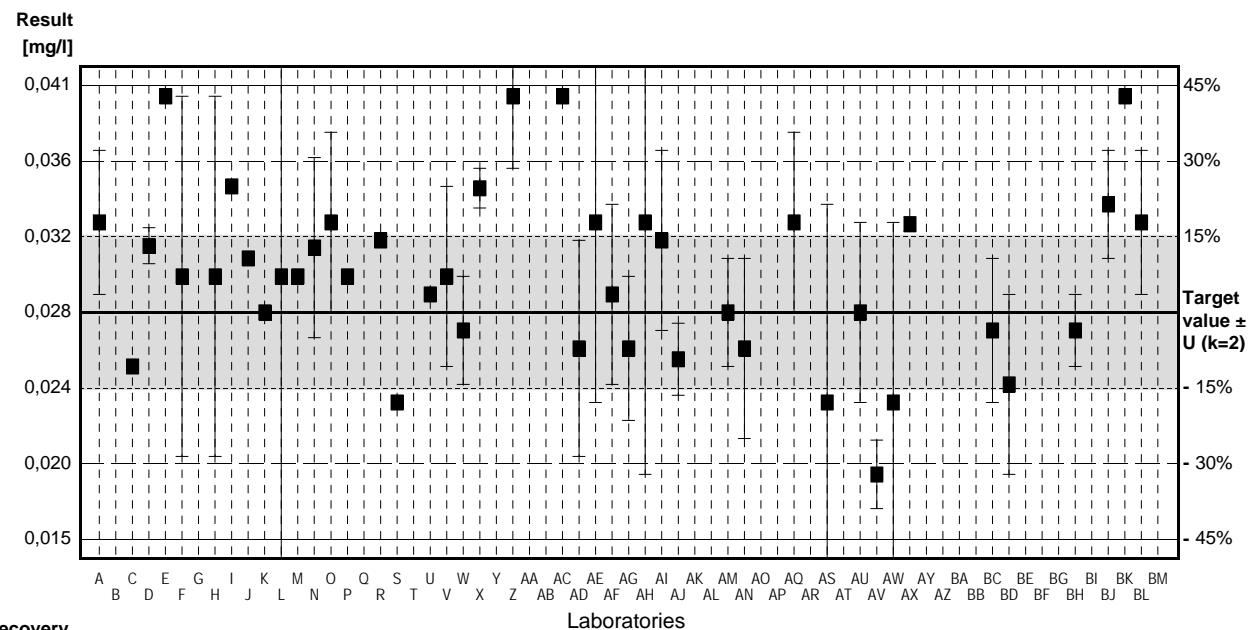
Parameter Ammonium

Target value $\pm U$ ($k=2$) 0,028 mg/l \pm 0,004 mg/l

IFA result $\pm U$ ($k=2$) 0,029 mg/l \pm 0,002 mg/l

Stability test $\pm U$ ($k=2$) 0,028 mg/l \pm 0,002 mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	0,033	0,004	mg/l	118%	1,37
B			mg/l		
C	0,025		mg/l	89%	-0,82
D	0,0317	0,001	mg/l	113%	1,02
E	0,040		mg/l	143%	3,30
F	0,03	0,01	mg/l	107%	0,55
G	0,062 *	0,006	mg/l	221%	9,34
H	0,03	0,01	mg/l	107%	0,55
I	0,035		mg/l	125%	1,92
J	0,031		mg/l	111%	0,82
K	0,028		mg/l	100%	0,00
L	0,03	0,02	mg/l	107%	0,55
M	0,03		mg/l	107%	0,55
N	0,0316	0,005	mg/l	113%	0,99
O	0,033	0,005	mg/l	118%	1,37
P	0,03		mg/l	107%	0,55
Q	<0,03		mg/l	•	
R	0,032		mg/l	114%	1,10
S	0,023		mg/l	82%	-1,37
T			mg/l		
U	0,029		mg/l	104%	0,27
V	0,03	0,005	mg/l	107%	0,55
W	0,027	0,003	mg/l	96%	-0,27
X	0,0349	0,0011	mg/l	125%	1,90
Y			mg/l		
Z	0,040	0,0040	mg/l	143%	3,30
AA	0,046	0,002	mg/l	164%	4,95
AB			mg/l		
AC	0,04		mg/l	143%	3,30
AD	0,026	0,006	mg/l	93%	-0,55
AE	0,033	0,010	mg/l	118%	1,37
AF	0,029	0,005	mg/l	104%	0,27
AG	0,026	0,004	mg/l	93%	-0,55
AH	0,033	0,014	mg/l	118%	1,37
AI	0,032	0,005	mg/l	114%	1,10
AJ	0,0254	0,002	mg/l	91%	-0,71
AK	<0,05		mg/l	•	
AL	0,07 *	0,01	mg/l	250%	11,54
AM	0,028	0,003	mg/l	100%	0,00
AN	0,026	0,005	mg/l	93%	-0,55
AO			mg/l		



AP	0,0854 *	0,0058	mg/l	305%	15,77
AQ	0,033	0,005	mg/l	118%	1,37
AR			mg/l		
AS	0,023	0,011	mg/l	82%	-1,37
AT			mg/l		
AU	0,028	0,005	mg/l	100%	0,00
AV	0,019	0,0019	mg/l	68%	-2,47
AW	0,023	0,01	mg/l	82%	-1,37
AX	0,0329	0,0004	mg/l	118%	1,35
AY	<0,05		mg/l	*	
AZ			mg/l		
BA			mg/l		
BB	0,26 *	0,02	mg/l	929%	63,74
BC	0,027	0,004	mg/l	96%	-0,27
BD	0,024	0,005	mg/l	86%	-1,10
BE	n,n		mg/l		
BF			mg/l		
BG	<0,03	0,08	mg/l	*	
BH	0,027	0,002	mg/l	96%	-0,27
BI	<0,05		mg/l	*	
BJ	0,034	0,003	mg/l	121%	1,65
BK	0,04		mg/l	143%	3,30
BL	0,033	0,004	mg/l	118%	1,37
BM			mg/l		
	All results	Outliers excl.		Unit	
Mean ± CI(99%)	0,038 ± 0,013	0,031 ± 0,002		mg/l	
Recov. ± CI(99%)	135,4 ± 48,0	109,0 ± 7,7		%	
SD between labs	0,035	0,005		mg/l	
RSD between labs	91,7	17,5		%	
n for calculation	48	44			

Sample N146B

Parameter Ammonium

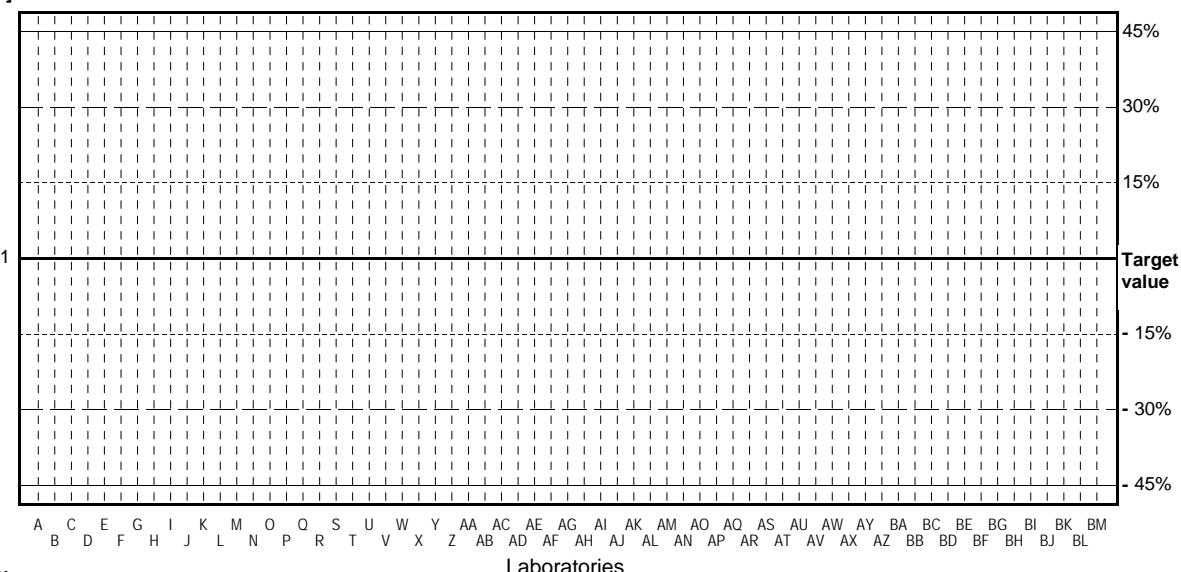
Target value <0,01 mg/l

IFA result <0,01 mg/l

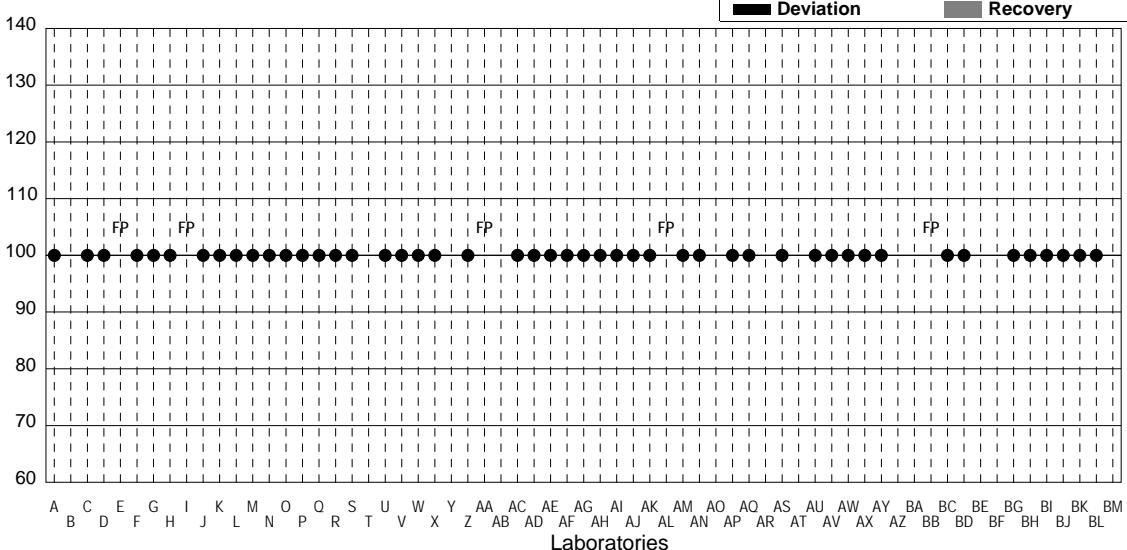
Stability test <0,01 mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	<0,026	0,009	mg/l	•	
B			mg/l		
C	<0,02		mg/l	•	
D	<0,03		mg/l	•	
E	0,037		mg/l	FP	
F	<0,03	0,01	mg/l	•	
G	<0,03	0,003	mg/l	•	
H	<0,03		mg/l	•	
I	0,016		mg/l	FP	
J	<0,02		mg/l	•	
K	<0,025		mg/l	•	
L	<0,02	0,02	mg/l	•	
M	<0,03		mg/l	•	
N	<0,01	0,005	mg/l	•	
O	<0,02		mg/l	•	
P	<0,02		mg/l	•	
Q	<0,03		mg/l	•	
R	0,008		mg/l	•	
S	<0,01		mg/l	•	
T			mg/l		
U	<0,06		mg/l	•	
V	<0,01		mg/l	•	
W	<0,02		mg/l	•	
X	<0,0100		mg/l	•	
Y			mg/l		
Z	0,0097	0,00097	mg/l	•	
AA	0,015	0,003	mg/l	FP	
AB			mg/l		
AC	<0,03		mg/l	•	
AD	<0,01		mg/l	•	
AE	<0,010		mg/l	•	
AF	<0,010		mg/l	•	
AG	<0,01		mg/l	•	
AH	<0,02	0,004	mg/l	•	
AI	<0,04		mg/l	•	
AJ	<0,0020		mg/l	•	
AK	<0,05		mg/l	•	
AL	0,04	0,01	mg/l	FP	
AM	<0,010		mg/l	•	
AN	<0,01		mg/l	•	
AO			mg/l		

Result
[mg/l]



Recovery
[%]



AP	<0,006		mg/l	•	
AQ	<0,020		mg/l	•	
AR			mg/l		
AS	<0,01		mg/l	•	
AT			mg/l		
AU	<0,008		mg/l	•	
AV	0,00064		mg/l	•	
AW	<0,01		mg/l	•	
AX	0,00516	0,0001	mg/l	•	
AY	<0,05		mg/l	•	
AZ			mg/l		
BA			mg/l		
BB	0,22	0,02	mg/l	FP	
BC	<0,013		mg/l	•	
BD	<0,01		mg/l	•	
BE	n,n		mg/l		
BF			mg/l		
BG	<0,03	0,08	mg/l	•	
BH	<0,01		mg/l	•	
BI	<0,05		mg/l	•	
BJ	<0,01		mg/l	•	
BK	<0,02		mg/l	•	
BL	<0,01		mg/l	•	
BM			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 N146A

Parameter Chloride

Target value $\pm U$ ($k=2$) 43,3 mg/l \pm 0,6 mg/l

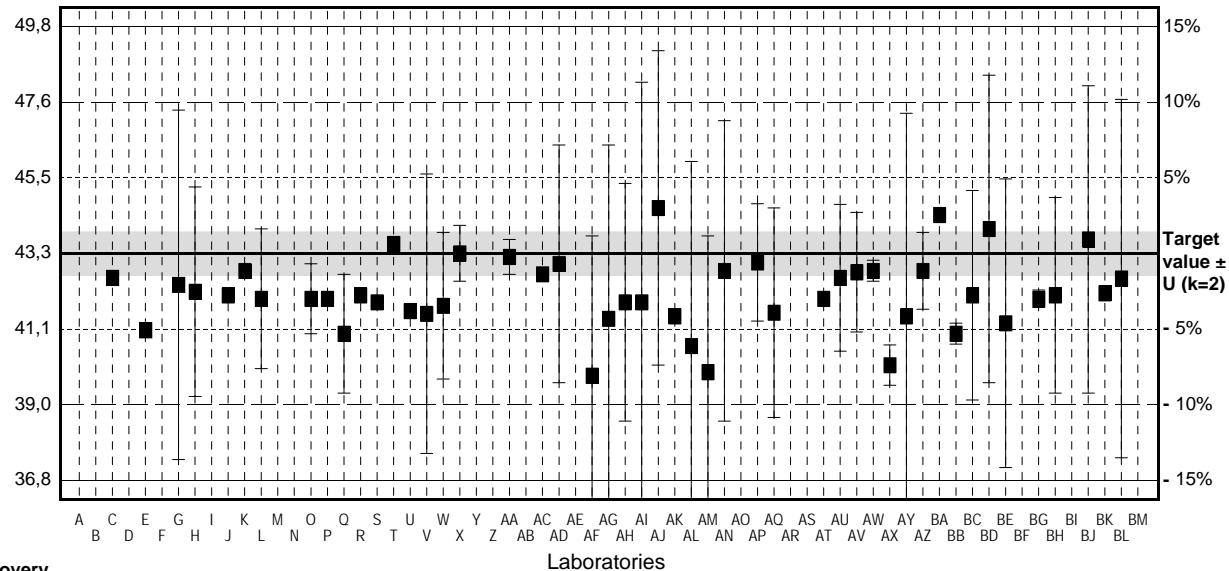
IFA result $\pm U$ ($k=2$) 42,1 mg/l \pm 2,1 mg/l

Stability test

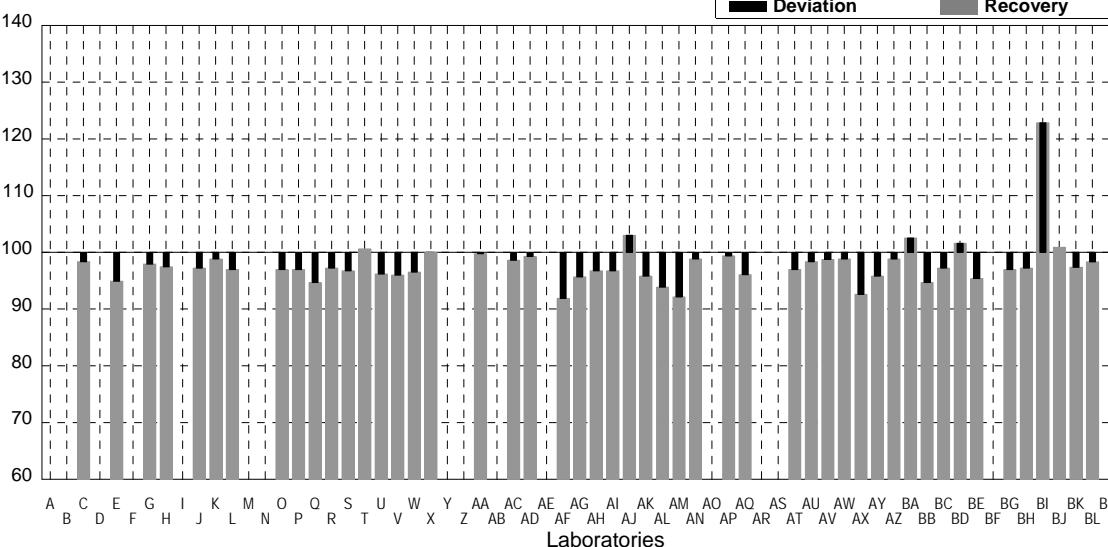
mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			mg/l		
B			mg/l		
C	42,6		mg/l	98%	-0,51
D			mg/l		
E	41,1		mg/l	95%	-1,59
F			mg/l		
G	42,4	5	mg/l	98%	-0,65
H	42,2	3	mg/l	97%	-0,79
I			mg/l		
J	42,1		mg/l	97%	-0,87
K	42,8		mg/l	99%	-0,36
L	42	2	mg/l	97%	-0,94
M			mg/l		
N			mg/l		
O	42	1	mg/l	97%	-0,94
P	42,0		mg/l	97%	-0,94
Q	41	1,7	mg/l	95%	-1,66
R	42,1		mg/l	97%	-0,87
S	41,9		mg/l	97%	-1,01
T	43,57		mg/l	101%	0,19
U	41,65		mg/l	96%	-1,19
V	41,57	4,0	mg/l	96%	-1,25
W	41,8	2,1	mg/l	97%	-1,08
X	43,3	0,80	mg/l	100%	0,00
Y			mg/l		
Z			mg/l		
AA	43,2	0,5	mg/l	100%	-0,07
AB			mg/l		
AC	42,7		mg/l	99%	-0,43
AD	43,0	3,4	mg/l	99%	-0,22
AE			mg/l		
AF	39,8	4,0	mg/l	92%	-2,53
AG	41,43	4,97	mg/l	96%	-1,35
AH	41,9	3,4	mg/l	97%	-1,01
AI	41,9	6,3	mg/l	97%	-1,01
AJ	44,60	4,5	mg/l	103%	0,94
AK	41,5		mg/l	96%	-1,30
AL	40,65	5,28	mg/l	94%	-1,91
AM	39,9	3,9	mg/l	92%	-2,45
AN	42,8	4,3	mg/l	99%	-0,36
AO			mg/l		

Result
[mg/l]



Recovery
[%]



AP	43,04	1,68	mg/l	99%	-0,19
AQ	41,6	3,0	mg/l	96%	-1,23
AR			mg/l		
AS			mg/l		
AT	42,0		mg/l	97%	-0,94
AU	42,6	2,1	mg/l	98%	-0,51
AV	42,76	1,711	mg/l	99%	-0,39
AW	42,8	0,3	mg/l	99%	-0,36
AX	40,1	0,580	mg/l	93%	-2,31
AY	41,5	5,81	mg/l	96%	-1,30
AZ	42,8	1,1	mg/l	99%	-0,36
BA	44,4		mg/l	103%	0,79
BB	41,0	0,3	mg/l	95%	-1,66
BC	42,1	3	mg/l	97%	-0,87
BD	44	4,4	mg/l	102%	0,51
BE	41,3	4,13	mg/l	95%	-1,44
BF			mg/l		
BG	42,0	0,25	mg/l	97%	-0,94
BH	42,1	2,8	mg/l	97%	-0,87
BI	53,2 *	5,3	mg/l	123%	7,14
BJ	43,7	4,4	mg/l	101%	0,29
BK	42,16		mg/l	97%	-0,82
BL	42,58	5,13	mg/l	98%	-0,52
BM			mg/l		
	All results	Outliers excl.	Unit		
Mean \pm CI(99%)	42,4 \pm 0,7	42,2 \pm 0,4	mg/l		
Recov. \pm CI(99%)	97,9 \pm 1,7	97,4 \pm 0,9	%		
SD between labs	1,9	1,0	mg/l		
RSD between labs	4,4	2,4	%		
n for calculation	49	48			

Sample N146B

Parameter Chloride

Target value $\pm U$ ($k=2$) 11,5 mg/l \pm 0,1 mg/l

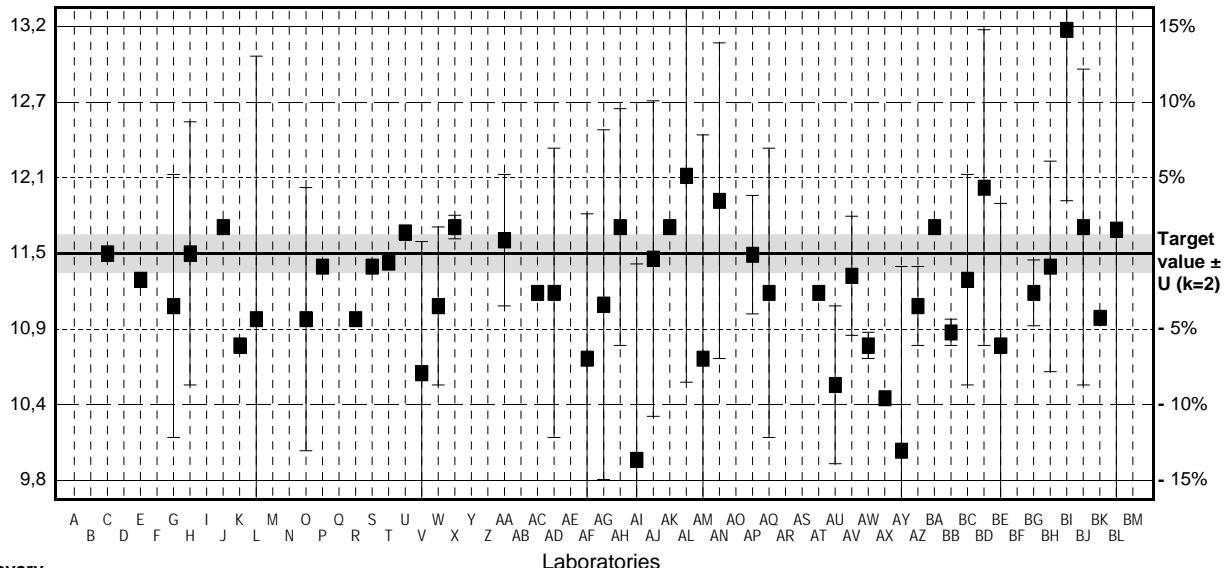
IFA result $\pm U$ ($k=2$) 11,1 mg/l \pm 0,6 mg/l

Stability test

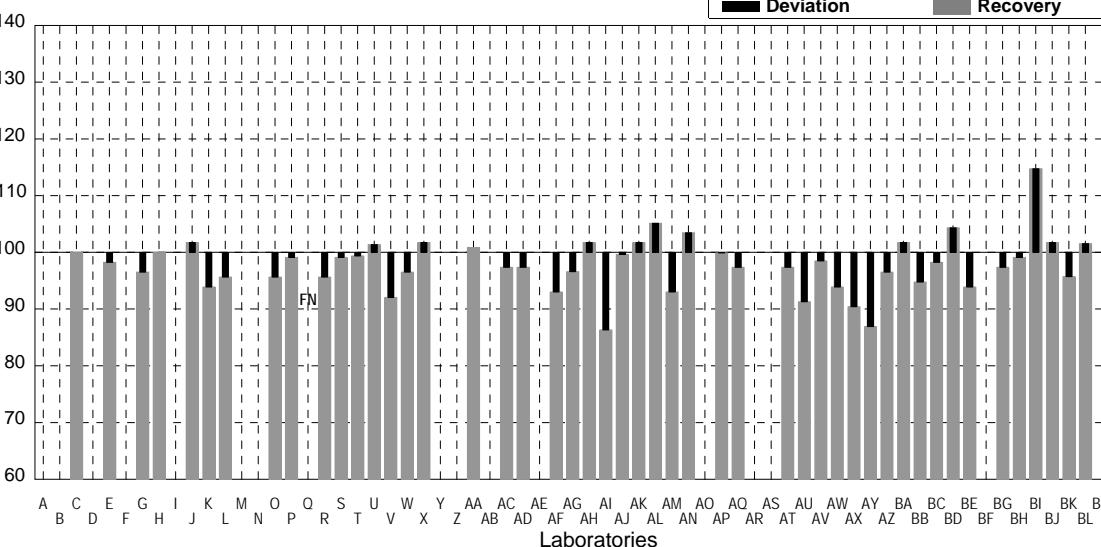
mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			mg/l		
B			mg/l		
C	11,5		mg/l	100%	0,00
D			mg/l		
E	11,3		mg/l	98%	-0,54
F			mg/l		
G	11,1	1	mg/l	97%	-1,09
H	11,5	1	mg/l	100%	0,00
I			mg/l		
J	11,7		mg/l	102%	0,54
K	10,8		mg/l	94%	-1,90
L	11	2	mg/l	96%	-1,36
M			mg/l		
N			mg/l		
O	11	1	mg/l	96%	-1,36
P	11,4		mg/l	99%	-0,27
Q	<10		mg/l	FN	
R	11,0		mg/l	96%	-1,36
S	11,4		mg/l	99%	-0,27
T	11,43		mg/l	99%	-0,19
U	11,66		mg/l	101%	0,43
V	10,59	1,0	mg/l	92%	-2,47
W	11,1	0,6	mg/l	97%	-1,09
X	11,7	0,09	mg/l	102%	0,54
Y			mg/l		
Z			mg/l		
AA	11,6	0,5	mg/l	101%	0,27
AB			mg/l		
AC	11,2		mg/l	97%	-0,82
AD	11,2	1,1	mg/l	97%	-0,82
AE			mg/l		
AF	10,7	1,1	mg/l	93%	-2,17
AG	11,11	1,33	mg/l	97%	-1,06
AH	11,7	0,9	mg/l	102%	0,54
AI	9,93	1,49	mg/l	86%	-4,27
AJ	11,46	1,2	mg/l	100%	-0,11
AK	11,7		mg/l	102%	0,54
AL	12,09	1,57	mg/l	105%	1,60
AM	10,7	1,7	mg/l	93%	-2,17
AN	11,9	1,2	mg/l	103%	1,09
AO			mg/l		

Result
[mg/l]



Recovery
[%]



AP	11,49	0,45	mg/l	100%	-0,03
AQ	11,2	1,1	mg/l	97%	-0,82
AR			mg/l		
AS			mg/l		
AT	11,2		mg/l	97%	-0,82
AU	10,5	0,6	mg/l	91%	-2,72
AV	11,33	0,453	mg/l	99%	-0,46
AW	10,8	0,1	mg/l	94%	-1,90
AX	10,4	0,012	mg/l	90%	-2,99
AY	10,0	1,40	mg/l	87%	-4,08
AZ	11,1	0,3	mg/l	97%	-1,09
BA	11,7		mg/l	102%	0,54
BB	10,9	0,1	mg/l	95%	-1,63
BC	11,3	0,8	mg/l	98%	-0,54
BD	12	1,2	mg/l	104%	1,36
BE	10,8	1,08	mg/l	94%	-1,90
BF			mg/l		
BG	11,2	0,25	mg/l	97%	-0,82
BH	11,4	0,8	mg/l	99%	-0,27
BI	13,2 *	1,3	mg/l	115%	4,62
BJ	11,7	1,2	mg/l	102%	0,54
BK	11,01		mg/l	96%	-1,33
BL	11,68	2,13	mg/l	102%	0,49
BM			mg/l		
	All results	Outliers excl.	Unit		
Mean \pm CI(99%)	11,3 \pm 0,2	11,2 \pm 0,2	mg/l		
Recov. \pm CI(99%)	97,9 \pm 1,9	97,5 \pm 1,6	%		
SD between labs	0,6	0,5	mg/l		
RSD between labs	4,9	4,2	%		
n for calculation	48	47			

Sample N146A

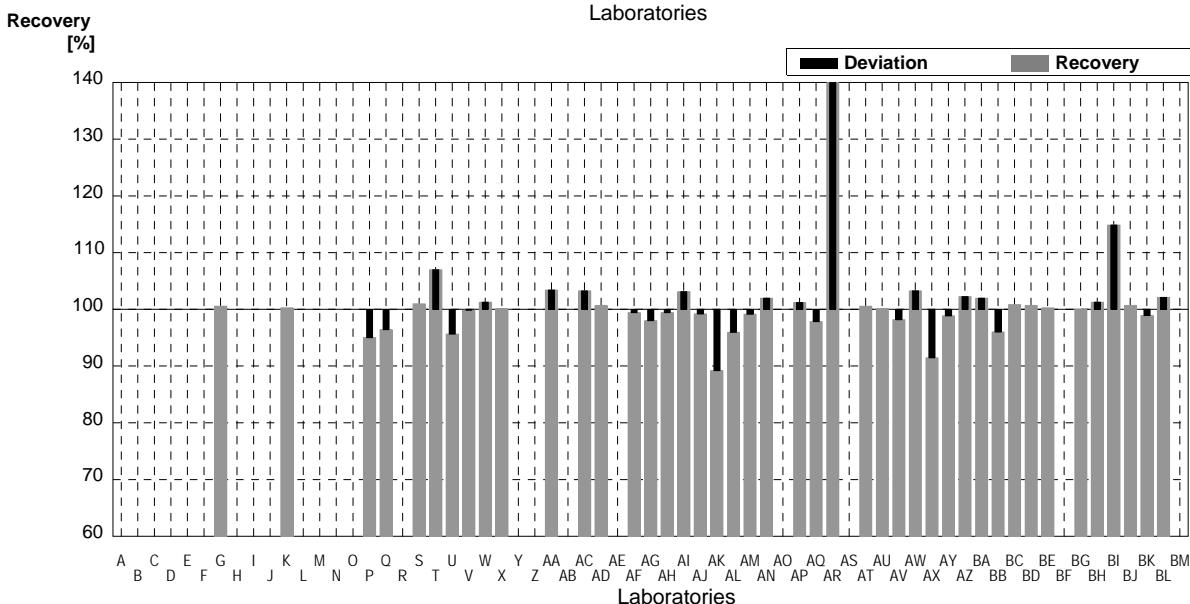
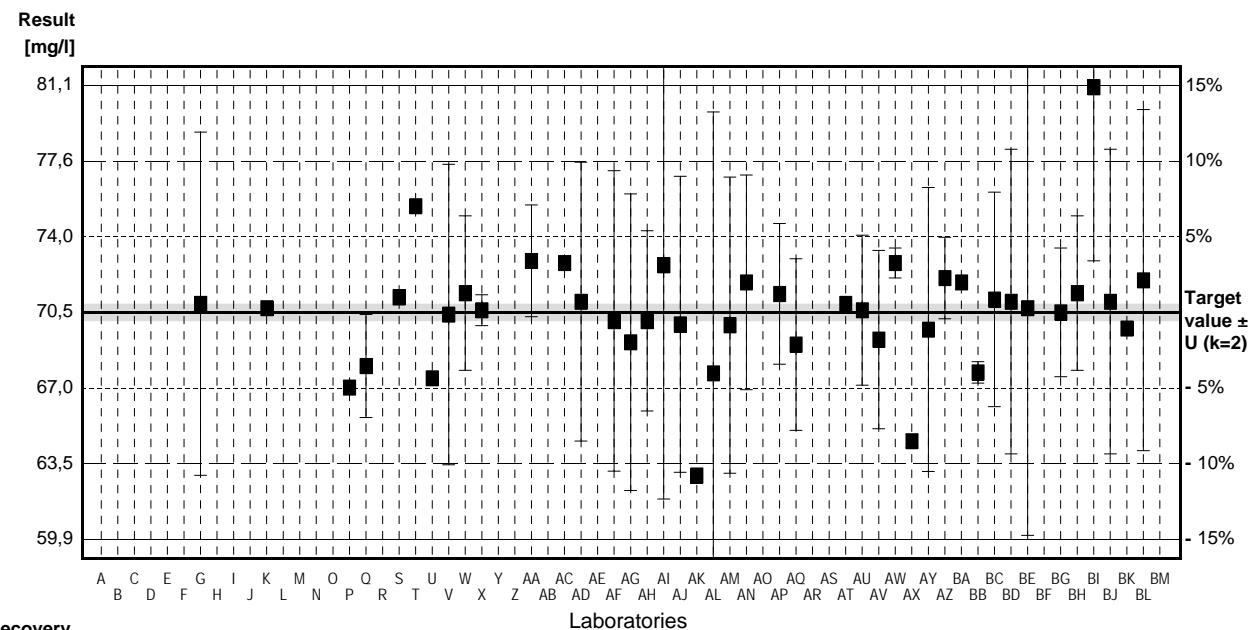
Parameter Sulphate

Target value $\pm U$ ($k=2$) 70,5 mg/l \pm 0,4 mg/l

IFA result $\pm U$ ($k=2$) 70,7 mg/l \pm 2,1 mg/l

Stability test mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			mg/l		
B			mg/l		
C			mg/l		
D			mg/l		
E			mg/l		
F			mg/l		
G	70,9	8	mg/l	101%	0,18
H			mg/l		
I			mg/l		
J			mg/l		
K	70,7		mg/l	100%	0,09
L			mg/l		
M			mg/l		
N			mg/l		
O			mg/l		
P	67		mg/l	95%	-1,60
Q	68	2,4	mg/l	96%	-1,14
R			mg/l		
S	71,2		mg/l	101%	0,32
T	75,45 *		mg/l	107%	2,26
U	67,43		mg/l	96%	-1,40
V	70,40	7,0	mg/l	100%	-0,05
W	71,4	3,6	mg/l	101%	0,41
X	70,6	0,72	mg/l	100%	0,05
Y			mg/l		
Z			mg/l		
AA	72,9	2,6	mg/l	103%	1,10
AB			mg/l		
AC	72,8		mg/l	103%	1,05
AD	71,0	6,5	mg/l	101%	0,23
AE			mg/l		
AF	70,1	7,0	mg/l	99%	-0,18
AG	69,11	6,91	mg/l	98%	-0,64
AH	70,1	4,2	mg/l	99%	-0,18
AI	72,7	10,9	mg/l	103%	1,01
AJ	69,94	6,9	mg/l	99%	-0,26
AK	62,9 *		mg/l	89%	-3,48
AL	67,66	12,18	mg/l	96%	-1,30
AM	69,9	6,9	mg/l	99%	-0,27
AN	71,9	5,0	mg/l	102%	0,64
AO			mg/l		



AP	71,36	3,28	mg/l	101%	0,39
AQ	69,0	4,0	mg/l	98%	-0,69
AR	126 *	10	mg/l	179%	25,39
AS			mg/l		
AT	70,9		mg/l	101%	0,18
AU	70,6	3,5	mg/l	100%	0,05
AV	69,23	4,154	mg/l	98%	-0,58
AW	72,8	0,7	mg/l	103%	1,05
AX	64,5 *	0,304	mg/l	91%	-2,75
AY	69,7	6,62	mg/l	99%	-0,37
AZ	72,1	1,9	mg/l	102%	0,73
BA	71,9		mg/l	102%	0,64
BB	67,7	0,5	mg/l	96%	-1,28
BC	71,1	5	mg/l	101%	0,27
BD	71	7,1	mg/l	101%	0,23
BE	70,7	10,6	mg/l	100%	0,09
BF			mg/l		
BG	70,5	3,0	mg/l	100%	0,00
BH	71,4	3,6	mg/l	101%	0,41
BI	81 *	8,1	mg/l	115%	4,80
BJ	71	7,1	mg/l	101%	0,23
BK	69,75		mg/l	99%	-0,34
BL	72,00	7,949	mg/l	102%	0,69
BM			mg/l		
	All results	Outliers excl.		Unit	
Mean ± CI(99%)	71,8 ± 3,7	70,5 ± 0,7	mg/l		
Recov. ± CI(99%)	101,9 ± 5,2	100,0 ± 1,0	%		
SD between labs	8,9	1,5	mg/l		
RSD between labs	12,4	2,2	%		
n for calculation	43	38			

Sample N146B

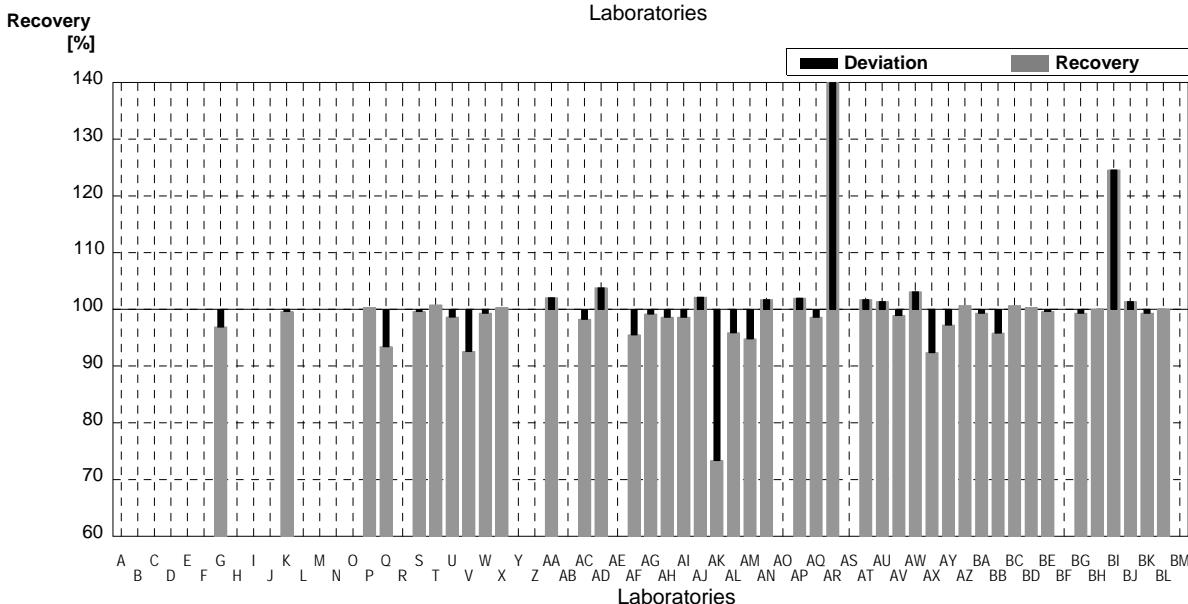
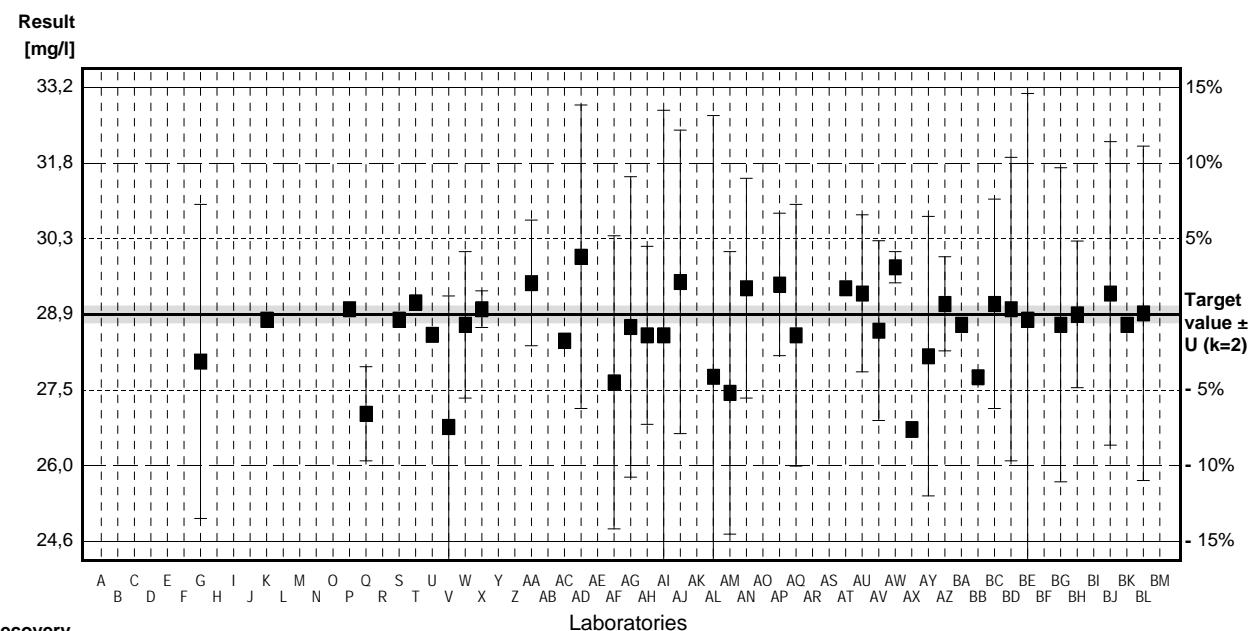
Parameter Sulphate

Target value $\pm U$ ($k=2$) 28,9 mg/l \pm 0,2 mg/l

IFA result $\pm U$ ($k=2$) 29,5 mg/l \pm 0,9 mg/l

Stability test mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			mg/l		
B			mg/l		
C			mg/l		
D			mg/l		
E			mg/l		
F			mg/l		
G	28,0	3	mg/l	97%	-1,00
H			mg/l		
I			mg/l		
J			mg/l		
K	28,8		mg/l	100%	-0,11
L			mg/l		
M			mg/l		
N			mg/l		
O			mg/l		
P	29		mg/l	100%	0,11
Q	27	0,9	mg/l	93%	-2,12
R			mg/l		
S	28,8		mg/l	100%	-0,11
T	29,13		mg/l	101%	0,26
U	28,51		mg/l	99%	-0,44
V	26,75 *	2,5	mg/l	93%	-2,40
W	28,7	1,4	mg/l	99%	-0,22
X	29,0	0,35	mg/l	100%	0,11
Y			mg/l		
Z			mg/l		
AA	29,5	1,2	mg/l	102%	0,67
AB			mg/l		
AC	28,4		mg/l	98%	-0,56
AD	30,0	2,9	mg/l	104%	1,23
AE			mg/l		
AF	27,6	2,8	mg/l	96%	-1,45
AG	28,66	2,87	mg/l	99%	-0,27
AH	28,5	1,7	mg/l	99%	-0,45
AI	28,5	4,3	mg/l	99%	-0,45
AJ	29,52	2,9	mg/l	102%	0,69
AK	21,2 *		mg/l	73%	-8,59
AL	27,71	4,99	mg/l	96%	-1,33
AM	27,4	2,7	mg/l	95%	-1,67
AN	29,4	2,1	mg/l	102%	0,56
AO			mg/l		



AP	29,47	1,36	mg/l	102%	0,64
AQ	28,5	2,5	mg/l	99%	-0,45
AR	76,0 *	10	mg/l	263%	52,57
AS			mg/l		
AT	29,4		mg/l	102%	0,56
AU	29,3	1,5	mg/l	101%	0,45
AV	28,59	1,716	mg/l	99%	-0,35
AW	29,8	0,3	mg/l	103%	1,00
AX	26,7 *	0,151	mg/l	92%	-2,46
AY	28,1	2,67	mg/l	97%	-0,89
AZ	29,1	0,9	mg/l	101%	0,22
BA	28,7		mg/l	99%	-0,22
BB	27,7	0,1	mg/l	96%	-1,34
BC	29,1	2	mg/l	101%	0,22
BD	29	2,9	mg/l	100%	0,11
BE	28,8	4,32	mg/l	100%	-0,11
BF			mg/l		
BG	28,7	3,0	mg/l	99%	-0,22
BH	28,9	1,4	mg/l	100%	0,00
BI	36 *	3,6	mg/l	125%	7,92
BJ	29,3	2,9	mg/l	101%	0,45
BK	28,7		mg/l	99%	-0,22
BL	28,92	3,193	mg/l	100%	0,02
BM			mg/l		
	All results	Outliers excl.	Unit		
Mean \pm CI(99%)	29,7 \pm 3,1	28,7 \pm 0,3	mg/l		
Recov. \pm CI(99%)	102,9 \pm 10,6	99,5 \pm 1,0	%		
SD between labs	7,4	0,7	mg/l		
RSD between labs	25,0	2,3	%		
n for calculation	43	38			

Sample N146A

Parameter Orthophosphate

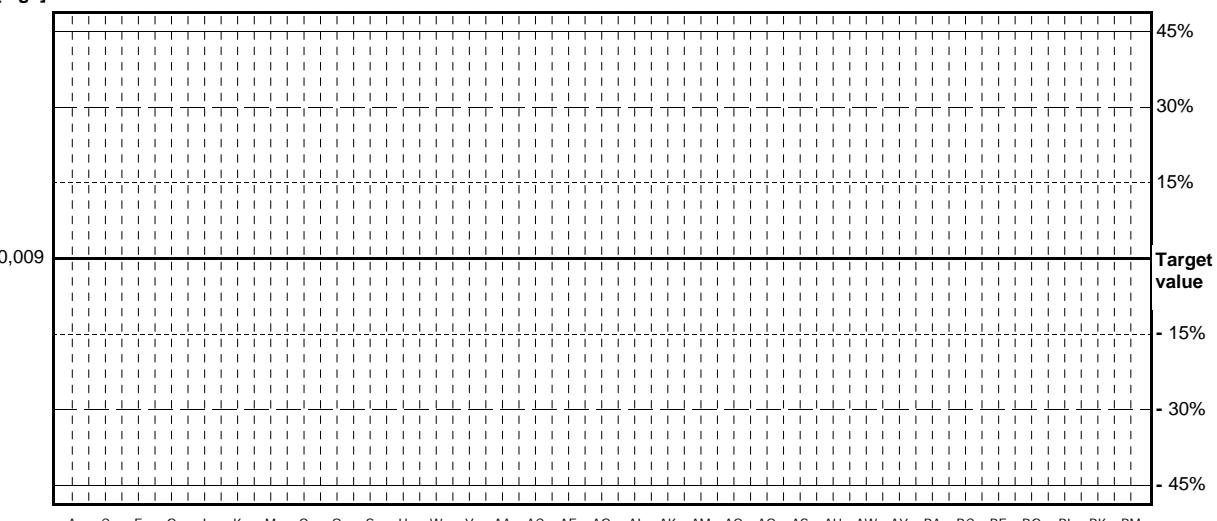
Target value <0,009 mg/l

IFA result <0,009 mg/l

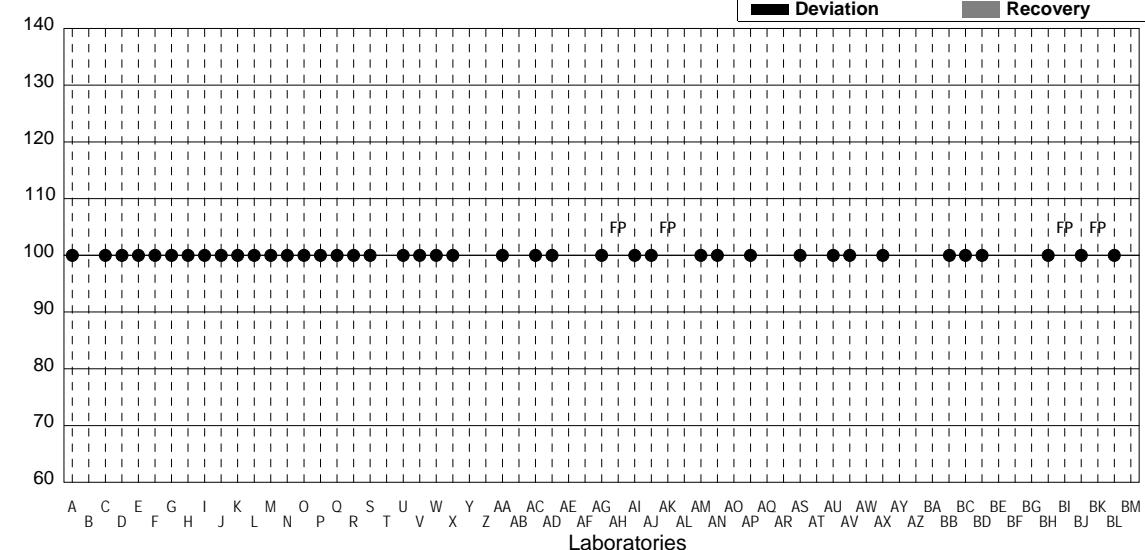
Stability test <0,009 mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	<0,015	0,005	mg/l	•	
B			mg/l		
C	<0,02		mg/l	•	
D	<0,02		mg/l	•	
E	<0,02		mg/l	•	
F	<0,015	0,003	mg/l	•	
G	<0,02	0,002	mg/l	•	
H	<0,015		mg/l	•	
I	<0,02		mg/l	•	
J	<0,02		mg/l	•	
K	<0,015		mg/l	•	
L	<0,015	0,01	mg/l	•	
M	<0,02		mg/l	•	
N	<0,02	0,005	mg/l	•	
O	<0,015		mg/l	•	
P	<0,02		mg/l	•	
Q	<0,15		mg/l	•	
R	<0,006		mg/l	•	
S	<0,01		mg/l	•	
T			mg/l		
U	<0,10		mg/l	•	
V	<0,04		mg/l	•	
W	<0,02		mg/l	•	
X	[0,0035]		mg/l	•	
Y			mg/l		
Z			mg/l		
AA	[0,002]		mg/l	•	
AB			mg/l		
AC	<0,03		mg/l	•	
AD	<0,01		mg/l	•	
AE			mg/l		
AF			mg/l		
AG	<0,01		mg/l	•	
AH	0,014	0,002	mg/l	FP	
AI	<0,015		mg/l	•	
AJ	<0,0015		mg/l	•	
AK	0,22		mg/l	FP	
AL			mg/l		
AM	<0,005		mg/l	•	
AN	<0,01		mg/l	•	
AO			mg/l		

Result
[mg/l]



Recovery
[%]



AP	<0,005		mg/l	•	
AQ			mg/l		
AR			mg/l		
AS	<0,019		mg/l	•	
AT			mg/l		
AU	<0,006		mg/l	•	
AV	<0,006		mg/l	•	
AW			mg/l		
AX	<0,015	0,0001	mg/l	•	
AY			mg/l		
AZ			mg/l		
BA			mg/l		
BB	'0,01	0,005	mg/l	•	
BC	<0,01		mg/l	•	
BD	<0,02		mg/l	•	
BE	n,n		mg/l		
BF			mg/l		
BG			mg/l		
BH	<0,015		mg/l	•	
BI	2	0,2	mg/l	FP	
BJ	<0,008		mg/l	•	
BK	0,029		mg/l	FP	
BL	0,006	0,001	mg/l	•	
BM			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 N146B

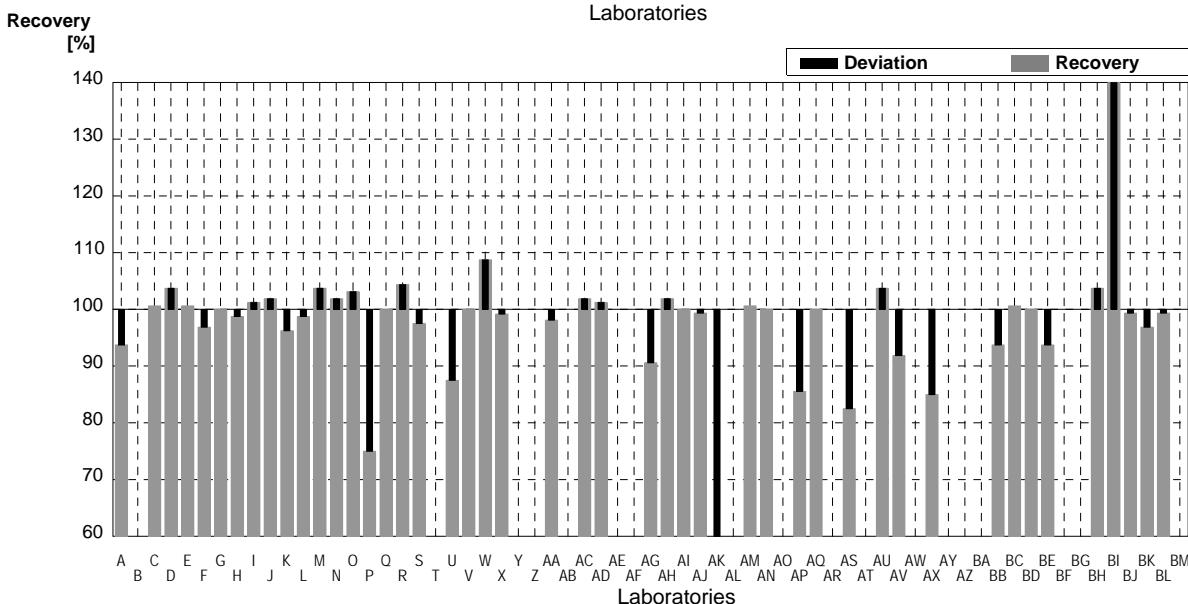
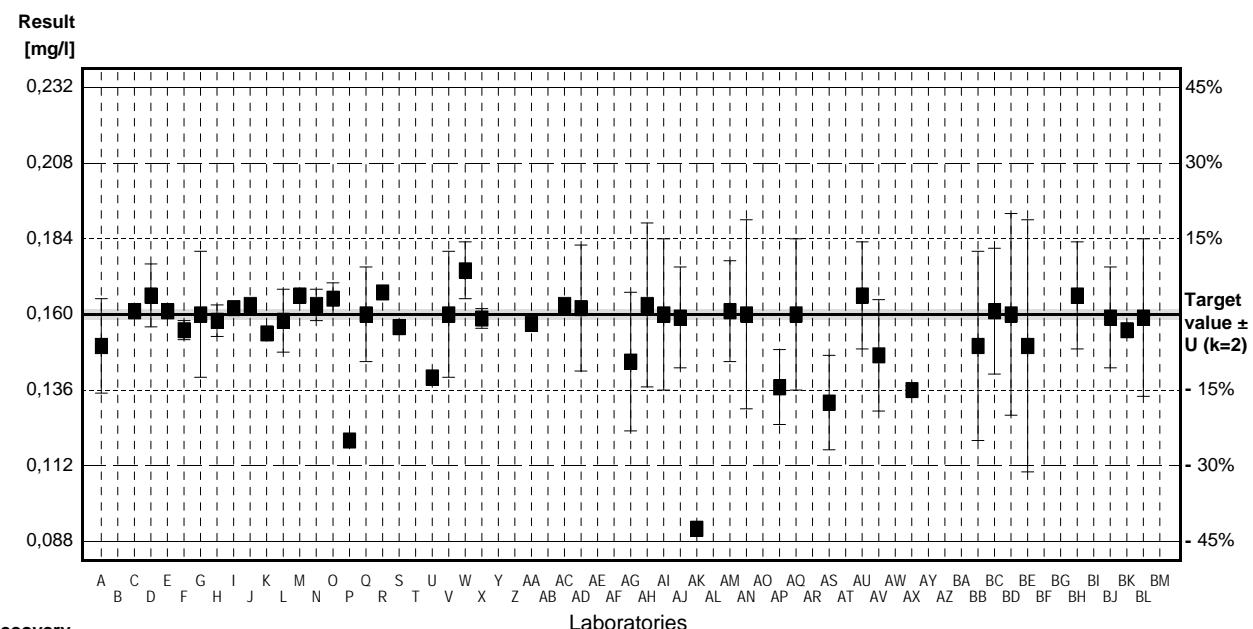
Parameter Orthophosphate

Target value $\pm U$ ($k=2$) 0,160 mg/l \pm 0,002 mg/l

IFA result $\pm U$ ($k=2$) 0,161 mg/l \pm 0,006 mg/l

Stability test $\pm U$ ($k=2$) 0,161 mg/l \pm 0,006 mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	0,150	0,015	mg/l	94%	-0,57
B			mg/l		
C	0,161		mg/l	101%	0,06
D	0,166	0,01	mg/l	104%	0,34
E	0,161		mg/l	101%	0,06
F	0,155	0,003	mg/l	97%	-0,28
G	0,160	0,02	mg/l	100%	0,00
H	0,158	0,005	mg/l	99%	-0,11
I	0,162		mg/l	101%	0,11
J	0,163		mg/l	102%	0,17
K	0,154		mg/l	96%	-0,34
L	0,158	0,01	mg/l	99%	-0,11
M	0,166		mg/l	104%	0,34
N	0,163	0,005	mg/l	102%	0,17
O	0,165	0,005	mg/l	103%	0,28
P	0,12 *		mg/l	75%	-2,27
Q	0,16	0,015	mg/l	100%	0,00
R	0,167		mg/l	104%	0,40
S	0,156		mg/l	98%	-0,23
T			mg/l		
U	0,14 *		mg/l	88%	-1,14
V	0,16	0,02	mg/l	100%	0,00
W	0,174 *	0,009	mg/l	109%	0,80
X	0,1587	0,0031	mg/l	99%	-0,07
Y			mg/l		
Z			mg/l		
AA	0,157	0,0008	mg/l	98%	-0,17
AB			mg/l		
AC	0,163		mg/l	102%	0,17
AD	0,162	0,020	mg/l	101%	0,11
AE			mg/l		
AF			mg/l		
AG	0,145 *	0,022	mg/l	91%	-0,85
AH	0,163	0,026	mg/l	102%	0,17
AI	0,160	0,024	mg/l	100%	0,00
AJ	0,159	0,016	mg/l	99%	-0,06
AK	0,092 *		mg/l	58%	-3,86
AL			mg/l		
AM	0,161	0,016	mg/l	101%	0,06
AN	0,16	0,03	mg/l	100%	0,00
AO			mg/l		



AP	0,1369 *	0,0119	mg/l	86%	-1,31
AQ	0,160	0,024	mg/l	100%	0,00
AR			mg/l		
AS	0,132 *	0,015	mg/l	83%	-1,59
AT			mg/l		
AU	0,166	0,017	mg/l	104%	0,34
AV	0,147	0,0177	mg/l	92%	-0,74
AW			mg/l		
AX	0,136 *	0,0013	mg/l	85%	-1,36
AY			mg/l		
AZ			mg/l		
BA			mg/l		
BB	0,15	0,03	mg/l	94%	-0,57
BC	0,161	0,02	mg/l	101%	0,06
BD	0,16	0,032	mg/l	100%	0,00
BE	0,15	0,04	mg/l	94%	-0,57
BF			mg/l		
BG			mg/l		
BH	0,166	0,017	mg/l	104%	0,34
BI	4 *	0,4	mg/l	2500%	218,18
BJ	0,159	0,016	mg/l	99%	-0,06
BK	0,155		mg/l	97%	-0,28
BL	0,159	0,025	mg/l	99%	-0,06
BM			mg/l		
	All results	Outliers excl.	Unit		
Mean ± CI(99%)	0,237 ± 0,219	0,160 ± 0,002	mg/l		
Recov. ± CI(99%)	148,1 ± 137,1	99,7 ± 1,3	%		
SD between labs	0,561	0,005	mg/l		
RSD between labs	236,7	3,0	%		
n for calculation	47	38			

Sample N146A

Parameter Boron

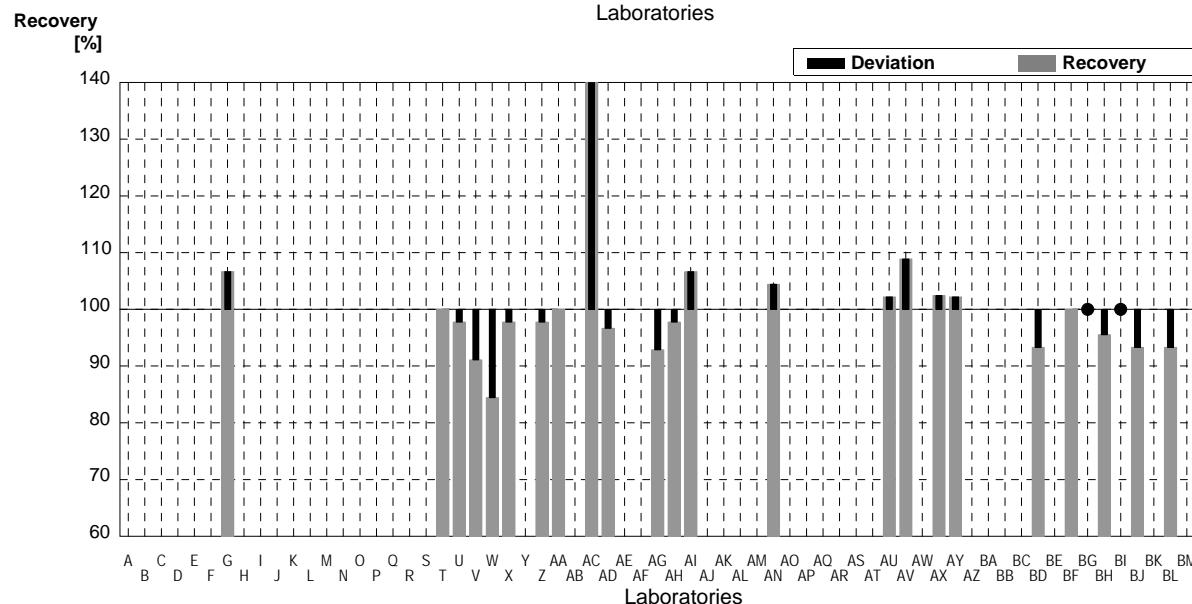
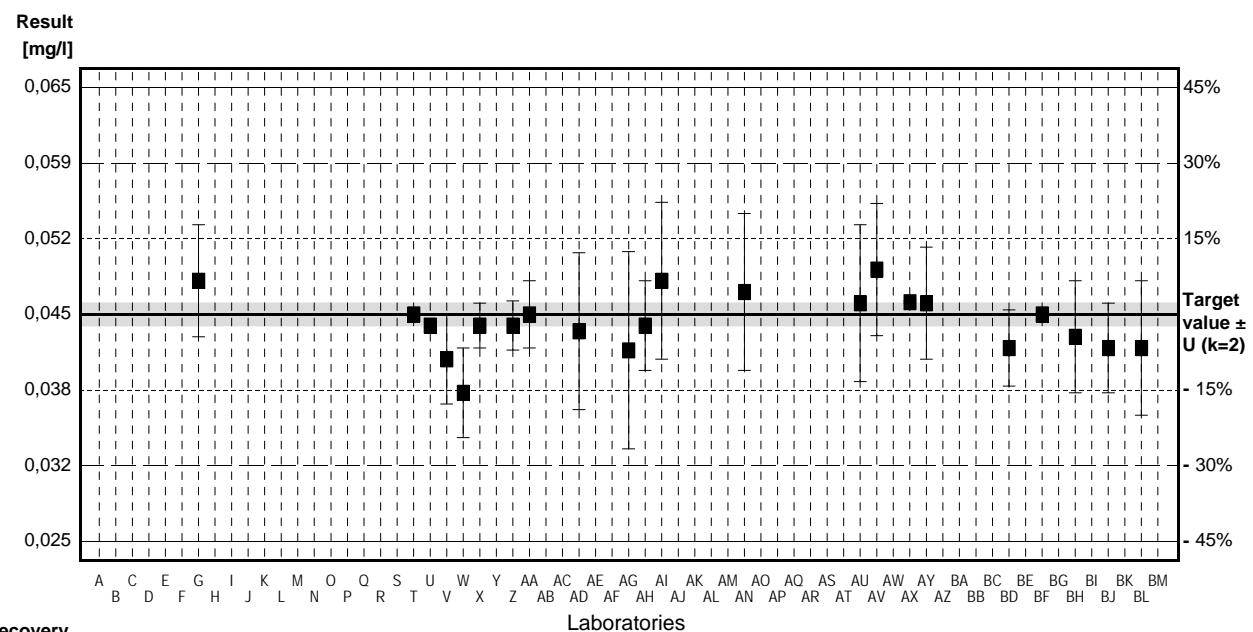
Target value $\pm U$ ($k=2$) 0,045 mg/l \pm 0,001 mg/l

IFA result $\pm U$ ($k=2$) 0,044 mg/l \pm 0,004 mg/l

Stability test

mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			mg/l		
B			mg/l		
C			mg/l		
D			mg/l		
E			mg/l		
F			mg/l		
G	0,0480	0,005	mg/l	107%	0,78
H			mg/l		
I			mg/l		
J			mg/l		
K			mg/l		
L			mg/l		
M			mg/l		
N			mg/l		
O			mg/l		
P			mg/l		
Q			mg/l		
R			mg/l		
S			mg/l		
T	0,045		mg/l	100%	0,00
U	0,044		mg/l	98%	-0,26
V	0,041	0,004	mg/l	91%	-1,03
W	0,038	0,004	mg/l	84%	-1,81
X	0,044	0,002	mg/l	98%	-0,26
Y			mg/l		
Z	0,044	0,0022	mg/l	98%	-0,26
AA	0,045	0,003	mg/l	100%	0,00
AB			mg/l		
AC	0,152 *		mg/l	338%	27,65
AD	0,0435	0,0070	mg/l	97%	-0,39
AE			mg/l		
AF			mg/l		
AG	0,0418	0,0088	mg/l	93%	-0,83
AH	0,044	0,004	mg/l	98%	-0,26
AI	0,048	0,007	mg/l	107%	0,78
AJ			mg/l		
AK			mg/l		
AL			mg/l		
AM			mg/l		
AN	0,047	0,007	mg/l	104%	0,52
AO			mg/l		



AP			mg/l		
AQ			mg/l		
AR			mg/l		
AS			mg/l		
AT			mg/l		
AU	0,046	0,007	mg/l	102%	0,26
AV	0,049	0,0059	mg/l	109%	1,03
AW			mg/l		
AX	0,0461	0,0001	mg/l	102%	0,28
AY	0,046	0,005	mg/l	102%	0,26
AZ			mg/l		
BA			mg/l		
BB			mg/l		
BC			mg/l		
BD	0,042	0,0034	mg/l	93%	-0,78
BE			mg/l		
BF	0,045		mg/l	100%	0,00
BG	<0,05	0,07	mg/l	•	
BH	0,043	0,005	mg/l	96%	-0,52
BI	<0,1		mg/l	•	
BJ	0,042	0,004	mg/l	93%	-0,78
BK			mg/l		
BL	0,042	0,006	mg/l	93%	-0,78
BM			mg/l		
	All results	Outliers excl.		Unit	
Mean \pm CI(99%)	0,049 \pm 0,013	0,044 \pm 0,002		mg/l	
Recov. \pm CI(99%)	108,8 \pm 29,5	98,4 \pm 3,5		%	
SD between labs	0,023	0,003		mg/l	
RSD between labs	46,2	5,9		%	
n for calculation	23	22			

Sample N146B

Parameter Boron

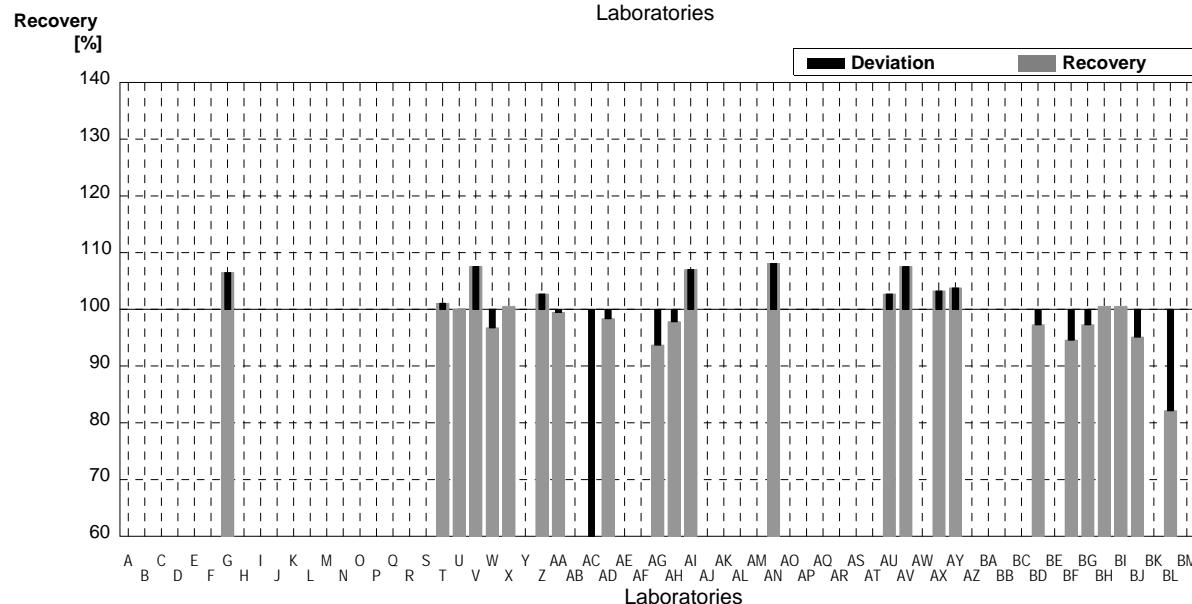
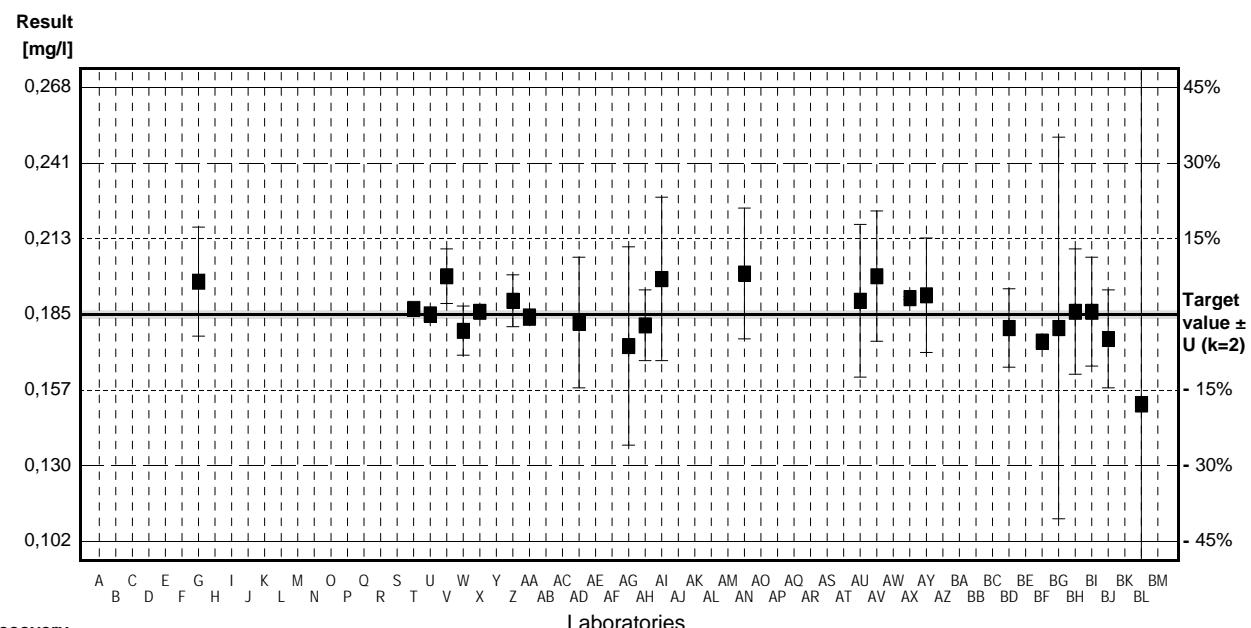
Target value $\pm U$ ($k=2$) 0,185 mg/l \pm 0,001 mg/l

IFA result $\pm U$ ($k=2$) 0,195 mg/l \pm 0,018 mg/l

Stability test

mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			mg/l		
B			mg/l		
C			mg/l		
D			mg/l		
E			mg/l		
F			mg/l		
G	0,197	0,02	mg/l	106%	0,75
H			mg/l		
I			mg/l		
J			mg/l		
K			mg/l		
L			mg/l		
M			mg/l		
N			mg/l		
O			mg/l		
P			mg/l		
Q			mg/l		
R			mg/l		
S			mg/l		
T	0,187		mg/l	101%	0,13
U	0,185		mg/l	100%	0,00
V	0,199	0,01	mg/l	108%	0,88
W	0,179	0,009	mg/l	97%	-0,38
X	0,186	0,002	mg/l	101%	0,06
Y			mg/l		
Z	0,19	0,0095	mg/l	103%	0,31
AA	0,184	0,003	mg/l	99%	-0,06
AB			mg/l		
AC	0,042 *		mg/l	23%	-8,99
AD	0,182	0,024	mg/l	98%	-0,19
AE			mg/l		
AF			mg/l		
AG	0,1734	0,0364	mg/l	94%	-0,73
AH	0,181	0,013	mg/l	98%	-0,25
AI	0,198	0,030	mg/l	107%	0,82
AJ			mg/l		
AK			mg/l		
AL			mg/l		
AM			mg/l		
AN	0,20	0,024	mg/l	108%	0,94
AO			mg/l		



AP			mg/l		
AQ			mg/l		
AR			mg/l		
AS			mg/l		
AT			mg/l		
AU	0,190	0,028	mg/l	103%	0,31
AV	0,199	0,0239	mg/l	108%	0,88
AW			mg/l		
AX	0,191	0,0006	mg/l	103%	0,38
AY	0,192	0,021	mg/l	104%	0,44
AZ			mg/l		
BA			mg/l		
BB			mg/l		
BC			mg/l		
BD	0,18	0,0144	mg/l	97%	-0,31
BE			mg/l		
BF	0,175		mg/l	95%	-0,63
BG	0,18	0,07	mg/l	97%	-0,31
BH	0,186	0,023	mg/l	101%	0,06
BI	0,186	0,02	mg/l	101%	0,06
BJ	0,176	0,018	mg/l	95%	-0,57
BK			mg/l		
BL	0,152 *	0,23	mg/l	82%	-2,07
BM			mg/l		
	All results	Outliers excl.		Unit	
Mean \pm CI(99%)	0,180 \pm 0,017	0,187 \pm 0,005		mg/l	
Recov. \pm CI(99%)	97,1 \pm 9,2	101,0 \pm 2,6		%	
SD between labs	0,030	0,008		mg/l	
RSD between labs	17,0	4,3		%	
n for calculation	25	23			

Sample N146A

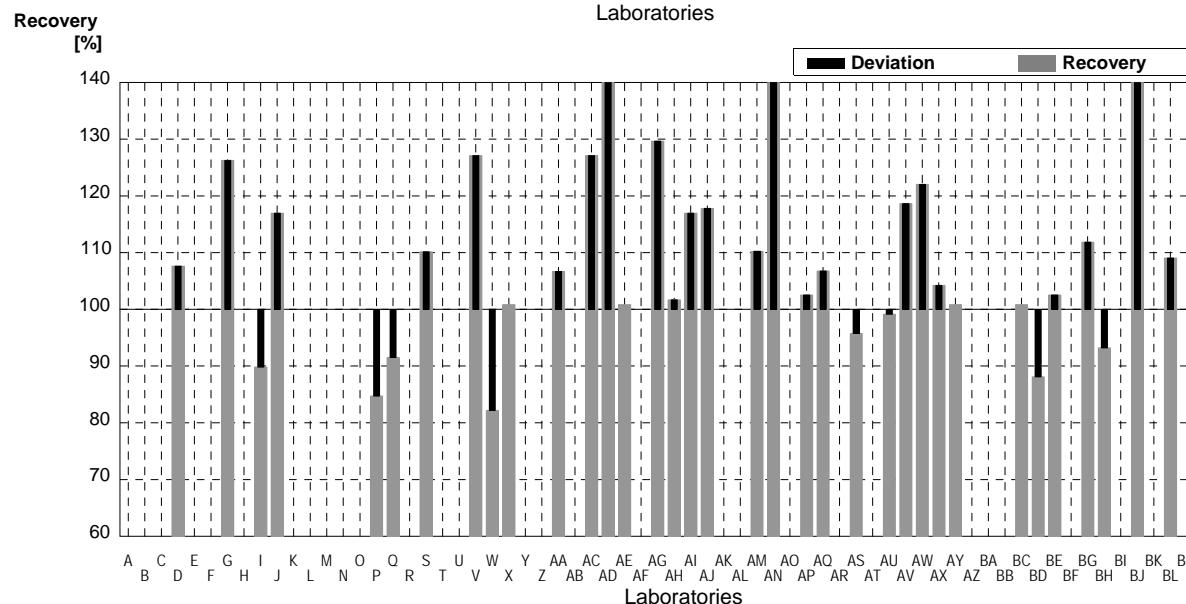
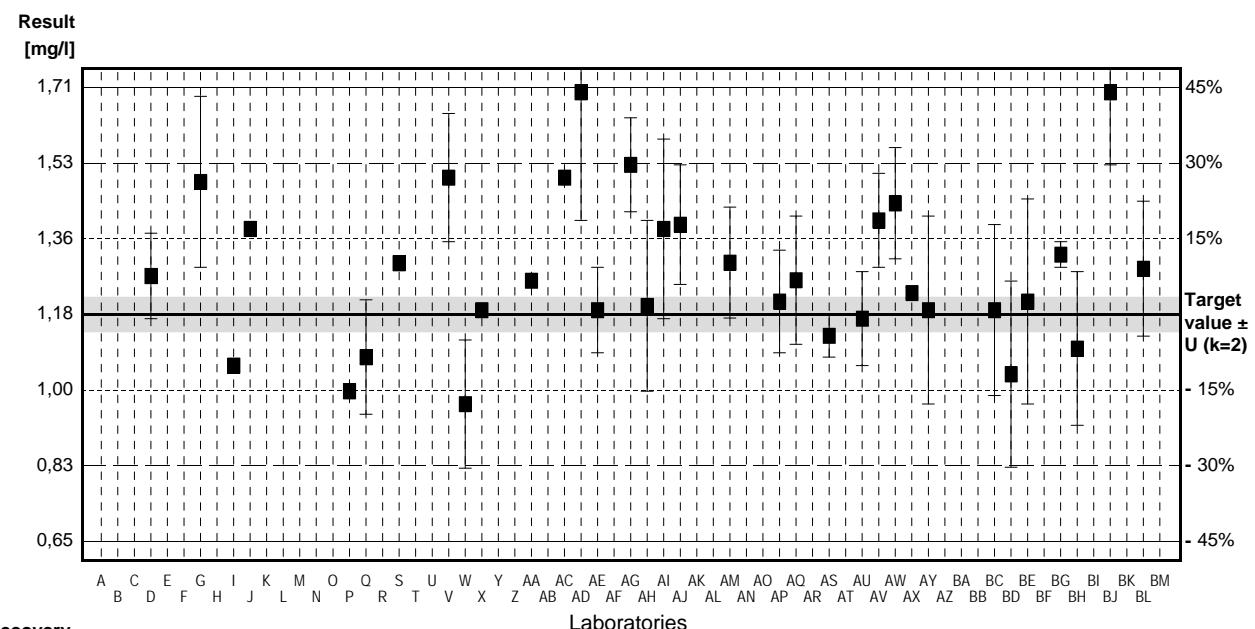
Parameter DOC

Target value $\pm U$ ($k=2$) 1,18 mg/l \pm 0,04 mg/l

IFA result $\pm U$ ($k=2$) 1,09 mg/l \pm 0,04 mg/l

Stability test $\pm U$ ($k=2$) 1,22 mg/l \pm 0,05 mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			mg/l		
B			mg/l		
C			mg/l		
D	1,27	0,1	mg/l	108%	1,27
E			mg/l		
F			mg/l		
G	1,49	0,2	mg/l	126%	4,38
H			mg/l		
I	1,06		mg/l	90%	-1,69
J	1,38		mg/l	117%	2,82
K			mg/l		
L			mg/l		
M			mg/l		
N			mg/l		
O			mg/l		
P	1,0		mg/l	85%	-2,54
Q	1,08	0,134	mg/l	92%	-1,41
R			mg/l		
S	1,3		mg/l	110%	1,69
T			mg/l		
U			mg/l		
V	1,5	0,15	mg/l	127%	4,52
W	0,97	0,15	mg/l	82%	-2,97
X	1,19	0,01	mg/l	101%	0,14
Y			mg/l		
Z			mg/l		
AA	1,259		mg/l	107%	1,12
AB			mg/l		
AC	1,5		mg/l	127%	4,52
AD	1,7	0,3	mg/l	144%	7,34
AE	1,19	0,10	mg/l	101%	0,14
AF			mg/l		
AG	1,53	0,11	mg/l	130%	4,94
AH	1,2	0,2	mg/l	102%	0,28
AI	1,38	0,21	mg/l	117%	2,82
AJ	1,39	0,14	mg/l	118%	2,97
AK			mg/l		
AL			mg/l		
AM	1,301	0,13	mg/l	110%	1,71
AN	2,02 *	0,30	mg/l	171%	11,86
AO			mg/l		



AP	1,21	0,12	mg/l	103%	0,42
AQ	1,26	0,15	mg/l	107%	1,13
AR			mg/l		
AS	1,13	0,05	mg/l	96%	-0,71
AT			mg/l		
AU	1,17	0,11	mg/l	99%	-0,14
AV	1,4	0,11	mg/l	119%	3,11
AW	1,44	0,13	mg/l	122%	3,67
AX	1,23	0,012	mg/l	104%	0,71
AY	1,19	0,22	mg/l	101%	0,14
AZ			mg/l		
BA			mg/l		
BB			mg/l		
BC	1,19	0,2	mg/l	101%	0,14
BD	1,040	0,218	mg/l	88%	-1,98
BE	1,21	0,24	mg/l	103%	0,42
BF			mg/l		
BG	1,32	0,03	mg/l	112%	1,98
BH	1,10	0,18	mg/l	93%	-1,13
BI			mg/l		
BJ	1,7	0,17	mg/l	144%	7,34
BK			mg/l		
BL	1,287	0,158	mg/l	109%	1,51
BM			mg/l		
	All results	Outliers excl.	Unit		
Mean \pm CI(99%)	1,30 \pm 0,10	1,28 \pm 0,08	mg/l		
Recov. \pm CI(99%)	110,4 \pm 8,5	108,6 \pm 7,2	%		
SD between labs	0,22	0,18	mg/l		
RSD between labs	16,7	14,1	%		
n for calculation	35	34			

Sample N146B

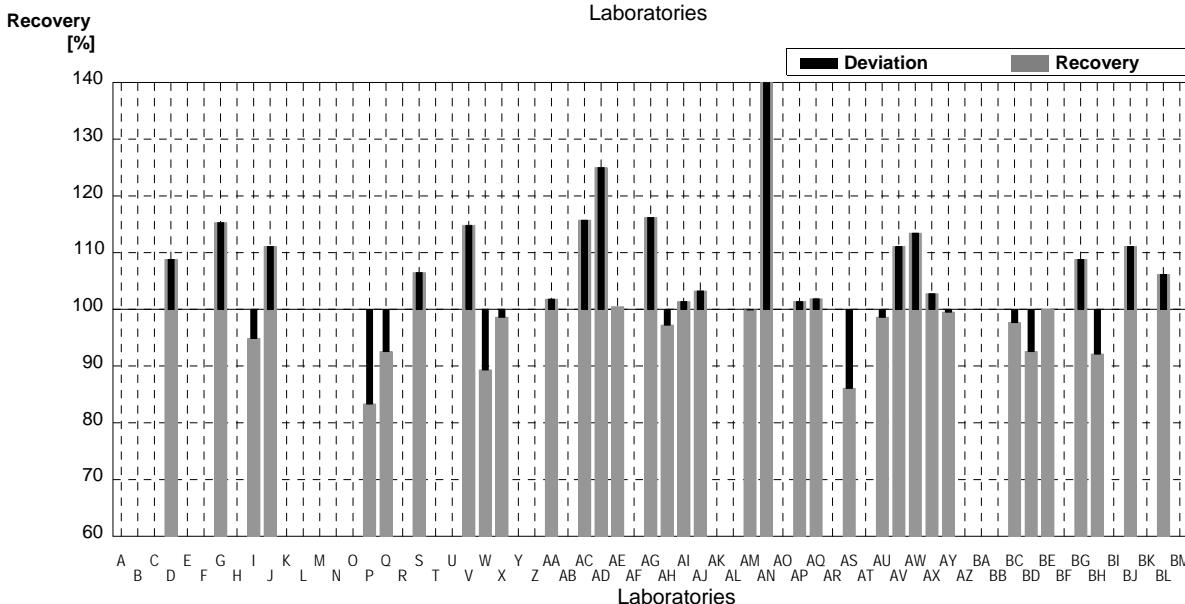
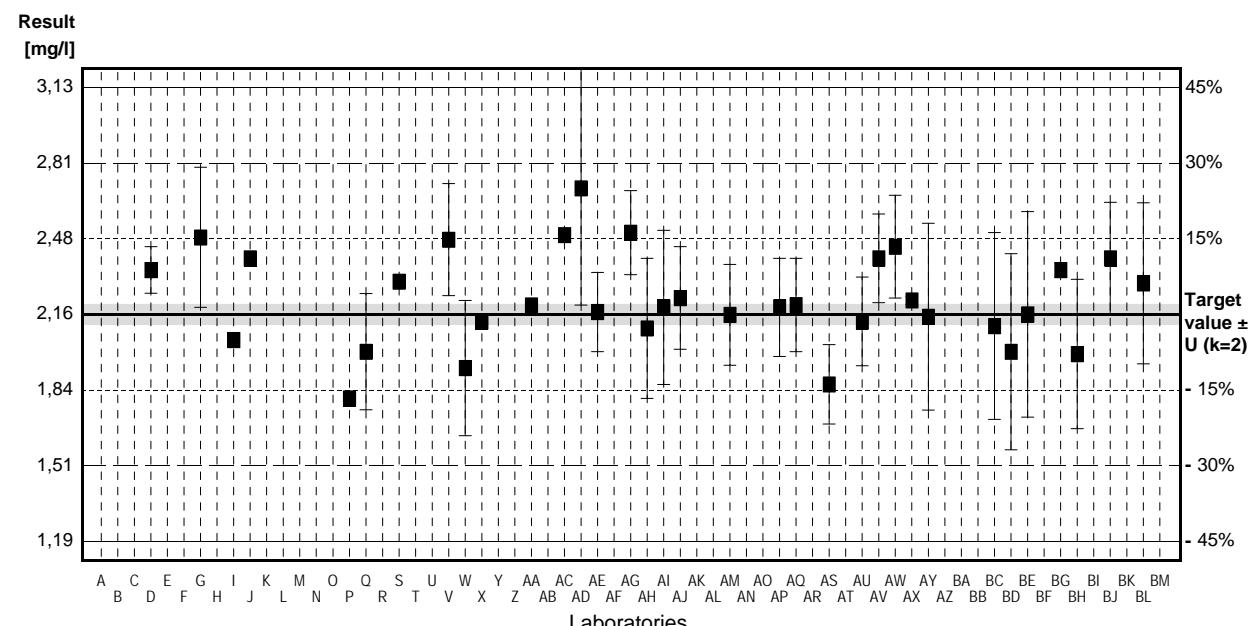
Parameter DOC

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

IFA result $\pm U$ ($k=2$) 2,03 mg/l \pm 0,08 mg/l

Stability test $\pm U$ ($k=2$) 2,20 mg/l \pm 0,09 mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			mg/l		
B			mg/l		
C			mg/l		
D	2,35	0,1	mg/l	109%	1,47
E			mg/l		
F			mg/l		
G	2,49	0,3	mg/l	115%	2,55
H			mg/l		
I	2,05		mg/l	95%	-0,85
J	2,40		mg/l	111%	1,85
K			mg/l		
L			mg/l		
M			mg/l		
N			mg/l		
O			mg/l		
P	1,8		mg/l	83%	-2,78
Q	2,00	0,249	mg/l	93%	-1,23
R			mg/l		
S	2,3		mg/l	106%	1,08
T			mg/l		
U			mg/l		
V	2,48	0,24	mg/l	115%	2,47
W	1,93	0,29	mg/l	89%	-1,77
X	2,13	0,01	mg/l	99%	-0,23
Y			mg/l		
Z			mg/l		
AA	2,199		mg/l	102%	0,30
AB			mg/l		
AC	2,5		mg/l	116%	2,62
AD	2,7	0,5	mg/l	125%	4,17
AE	2,17	0,17	mg/l	100%	0,08
AF			mg/l		
AG	2,51	0,18	mg/l	116%	2,70
AH	2,1	0,3	mg/l	97%	-0,46
AI	2,19	0,33	mg/l	101%	0,23
AJ	2,23	0,22	mg/l	103%	0,54
AK			mg/l		
AL			mg/l		
AM	2,158	0,216	mg/l	100%	-0,02
AN	3,23 *	0,48	mg/l	150%	8,26
AO			mg/l		



AP	2,19	0,21	mg/l	101%	0,23
AQ	2,20	0,20	mg/l	102%	0,31
AR			mg/l		
AS	1,86	0,17	mg/l	86%	-2,31
AT			mg/l		
AU	2,13	0,19	mg/l	99%	-0,23
AV	2,4	0,19	mg/l	111%	1,85
AW	2,45	0,22	mg/l	113%	2,24
AX	2,22	0,017	mg/l	103%	0,46
AY	2,15	0,40	mg/l	100%	-0,08
AZ			mg/l		
BA			mg/l		
BB			mg/l		
BC	2,11	0,4	mg/l	98%	-0,39
BD	2,0	0,42	mg/l	93%	-1,23
BE	2,16	0,44	mg/l	100%	0,00
BF			mg/l		
BG	2,35	0,03	mg/l	109%	1,47
BH	1,99	0,32	mg/l	92%	-1,31
BI			mg/l		
BJ	2,4	0,24	mg/l	111%	1,85
BK			mg/l		
BL	2,293	0,345	mg/l	106%	1,03
BM			mg/l		
	All results	Outliers excl.	Unit		
Mean \pm CI(99%)	2,25 \pm 0,12	2,22 \pm 0,10	mg/l		
Recov. \pm CI(99%)	104,3 \pm 5,6	102,9 \pm 4,4	%		
SD between labs	0,26	0,20	mg/l		
RSD between labs	11,7	9,1	%		
n for calculation	35	34			

Sample N146A

Parameter Total P (as PO₄)

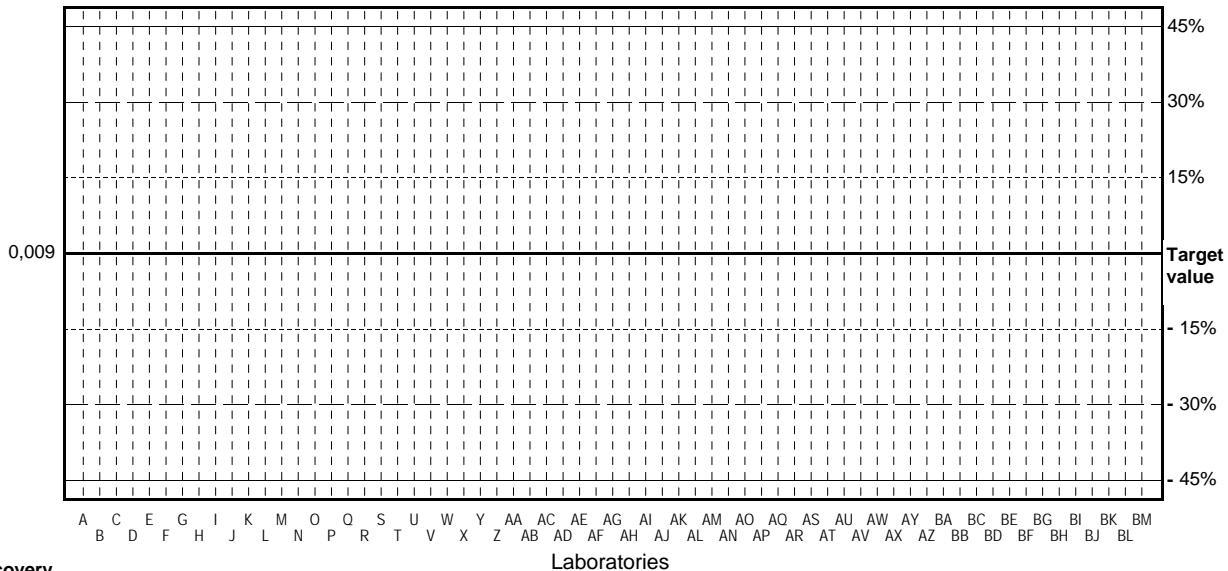
Target value <0,009 mg/l

IFA result <0,009 mg/l

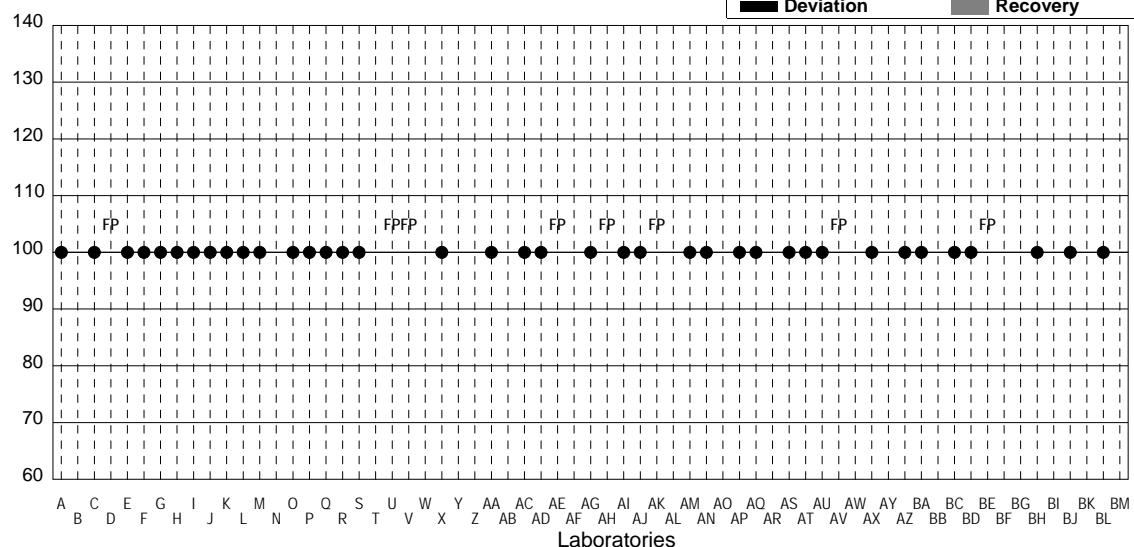
Stability test mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	<0,015	0,005	mg/l	•	
B			mg/l		
C	<0,02		mg/l	•	
D	0,0220	0,001	mg/l	FP	
E	<0,02		mg/l	•	
F	<0,015	0,003	mg/l	•	
G	<0,03	0,003	mg/l	•	
H	<0,015		mg/l	•	
I	<0,02		mg/l	•	
J	<0,02		mg/l	•	
K	<0,0153		mg/l	•	
L	<0,015	0,01	mg/l	•	
M	<0,02		mg/l	•	
N			mg/l		
O	<0,015		mg/l	•	
P	<0,02		mg/l	•	
Q	<0,015		mg/l	•	
R	<0,006		mg/l	•	
S	<0,01		mg/l	•	
T			mg/l		
U	0,016		mg/l	FP	
V	0,19	0,02	mg/l	FP	
W			mg/l		
X	[0,0032]		mg/l	•	
Y			mg/l		
Z			mg/l		
AA	[0,00128]		mg/l	•	
AB			mg/l		
AC	<0,015		mg/l	•	
AD	<0,01		mg/l	•	
AE	0,78	0,21	mg/l	FP	
AF			mg/l		
AG	<0,01		mg/l	•	
AH	0,015	0,002	mg/l	FP	
AI	<0,015		mg/l	•	
AJ	<0,0018		mg/l	•	
AK	0,32		mg/l	FP	
AL			mg/l		
AM	<0,005		mg/l	•	
AN	<0,01		mg/l	•	
AO			mg/l		

Result
[mg/l]



Recovery
[%]



AP	<0,005		mg/l	•	
AQ	<0,030		mg/l	•	
AR			mg/l		
AS	<0,02		mg/l	•	
AT	<0,03		mg/l	•	
AU	<0,006		mg/l	•	
AV	0,0767	0,0116	mg/l	FP	
AW			mg/l		
AX	<0,015		mg/l	•	
AY			mg/l		
AZ	<0,003		mg/l	•	
BA	<0,03		mg/l	•	
BB			mg/l		
BC	<0,013		mg/l	•	
BD	<0,15		mg/l	•	
BE	0,071	0,014	mg/l	FP	
BF			mg/l		
BG			mg/l		
BH	<0,015		mg/l	•	
BI			mg/l		
BJ	<0,015		mg/l	•	
BK			mg/l		
BL	<0,010		mg/l	•	
BM			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 N146B

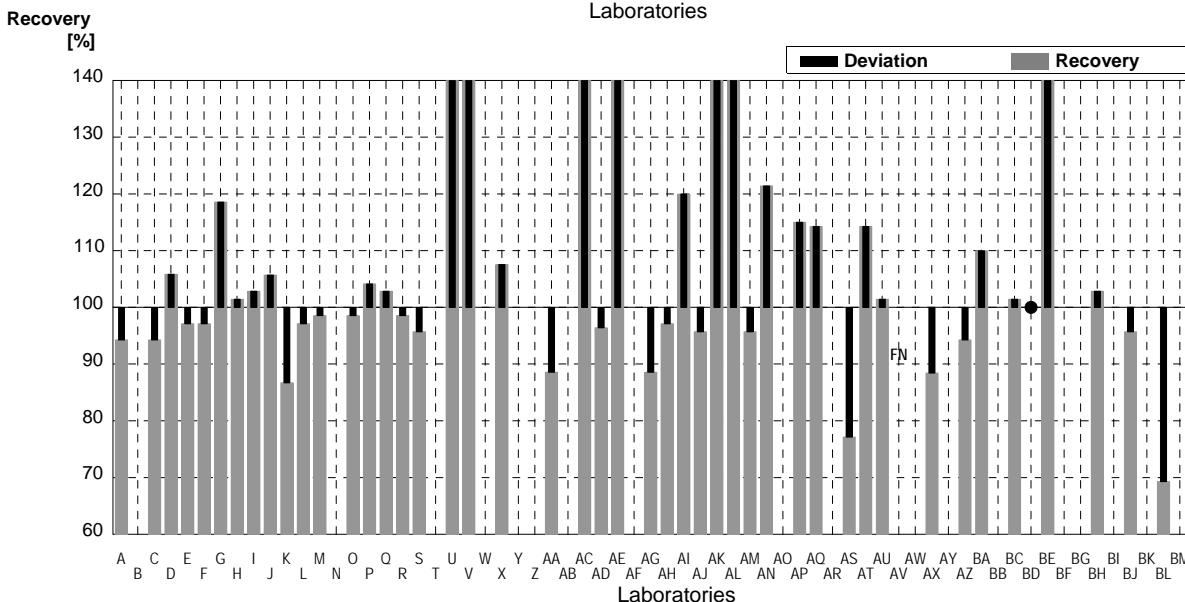
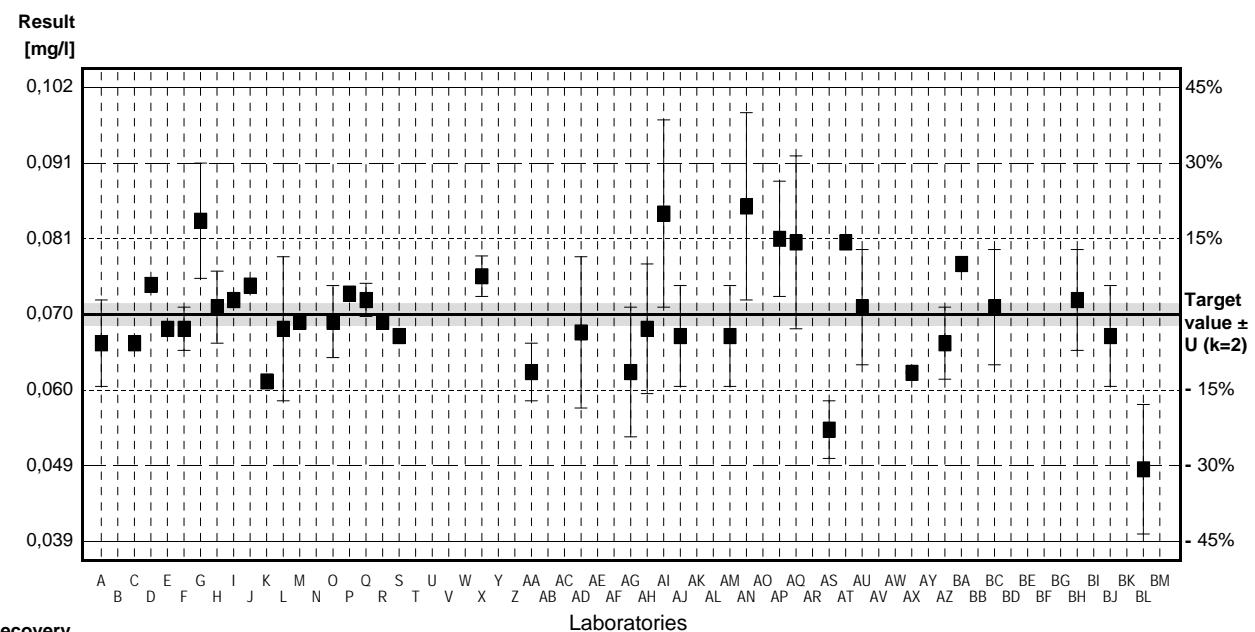
Parameter Total P (as PO₄)

Target value \pm U (k=2) 0,070 mg/l \pm 0,001 mg/l

IFA result \pm U (k=2) 0,084 mg/l \pm 0,018 mg/l

Stability test mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	0,066	0,006	mg/l	94%	-0,52
B			mg/l		
C	0,066		mg/l	94%	-0,52
D	0,0741	0,001	mg/l	106%	0,53
E	0,068		mg/l	97%	-0,26
F	0,068	0,003	mg/l	97%	-0,26
G	0,083	0,008	mg/l	119%	1,69
H	0,071	0,005	mg/l	101%	0,13
I	0,072		mg/l	103%	0,26
J	0,074		mg/l	106%	0,52
K	0,0607		mg/l	87%	-1,21
L	0,068	0,01	mg/l	97%	-0,26
M	0,069		mg/l	99%	-0,13
N			mg/l		
O	0,069	0,005	mg/l	99%	-0,13
P	0,0729		mg/l	104%	0,38
Q	0,072	0,0023	mg/l	103%	0,26
R	0,069		mg/l	99%	-0,13
S	0,067		mg/l	96%	-0,39
T			mg/l		
U	0,540 *		mg/l	771%	61,04
V	0,102 *	0,01	mg/l	146%	4,16
W			mg/l		
X	0,0753	0,0028	mg/l	108%	0,69
Y			mg/l		
Z			mg/l		
AA	0,062	0,004	mg/l	89%	-1,04
AB			mg/l		
AC	0,147 *		mg/l	210%	10,00
AD	0,0675	0,0105	mg/l	96%	-0,32
AE	0,16 *	0,04	mg/l	229%	11,69
AF			mg/l		
AG	0,062	0,009	mg/l	89%	-1,04
AH	0,068	0,009	mg/l	97%	-0,26
AI	0,084	0,013	mg/l	120%	1,82
AJ	0,067	0,007	mg/l	96%	-0,39
AK	0,18 *		mg/l	257%	14,29
AL	0,104 *	0,042	mg/l	149%	4,42
AM	0,067	0,007	mg/l	96%	-0,39
AN	0,085	0,013	mg/l	121%	1,95
AO			mg/l		



AP	0,0805	0,0080	mg/l	115%	1,36
AQ	0,080	0,012	mg/l	114%	1,30
AR			mg/l		
AS	0,054	0,004	mg/l	77%	-2,08
AT	0,08		mg/l	114%	1,30
AU	0,071	0,008	mg/l	101%	0,13
AV	<0,015		mg/l	FN	
AW			mg/l		
AX	0,0619	0,0001	mg/l	88%	-1,05
AY			mg/l		
AZ	0,066	0,005	mg/l	94%	-0,52
BA	0,077		mg/l	110%	0,91
BB			mg/l		
BC	0,071	0,008	mg/l	101%	0,13
BD	<0,15		mg/l	*	
BE	0,236 *	0,047	mg/l	337%	21,56
BF			mg/l		
BG			mg/l		
BH	0,072	0,007	mg/l	103%	0,26
BI			mg/l		
BJ	0,067	0,007	mg/l	96%	-0,39
BK			mg/l		
BL	0,0485	0,009	mg/l	69%	-2,79
BM			mg/l		
	All results	Outliers excl.		Unit	
Mean ± CI(99%)	0,092 ± 0,031	0,070 ± 0,003	mg/l		
Recov. ± CI(99%)	131,0 ± 43,8	99,9 ± 4,8	%		
SD between labs	0,077	0,008	mg/l		
RSD between labs	83,5	10,9	%		
n for calculation	45	38			

Sample N146A

Parameter Silicon

Target value $\pm U$ ($k=2$) 1,00 mg/l \pm 0,02 mg/l

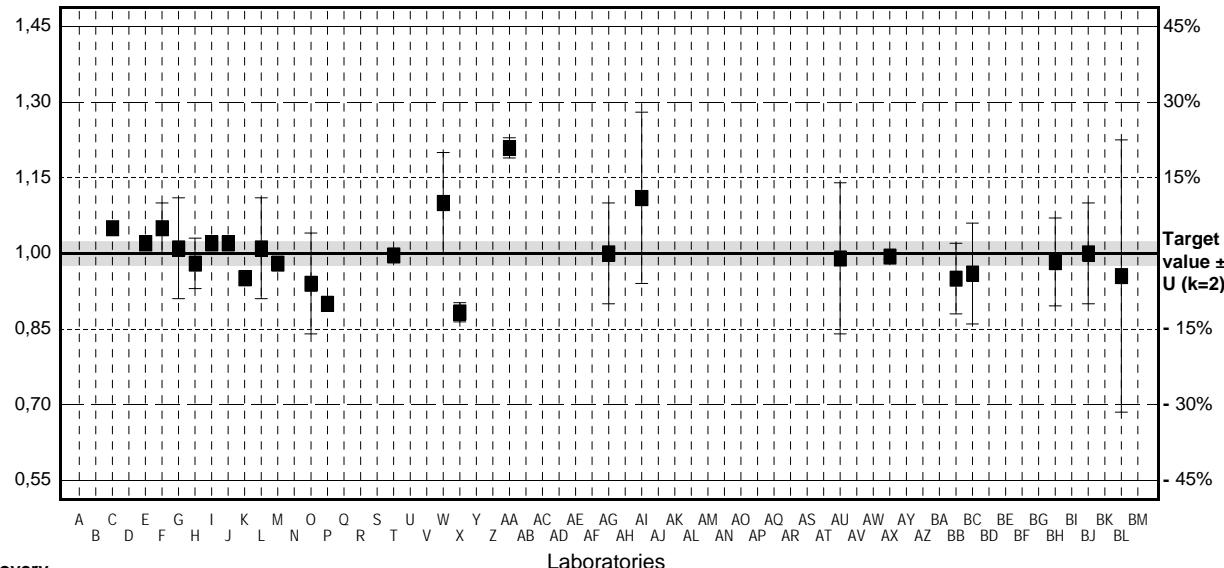
IFA result $\pm U$ ($k=2$) 0,99 mg/l \pm 0,10 mg/l

Stability test

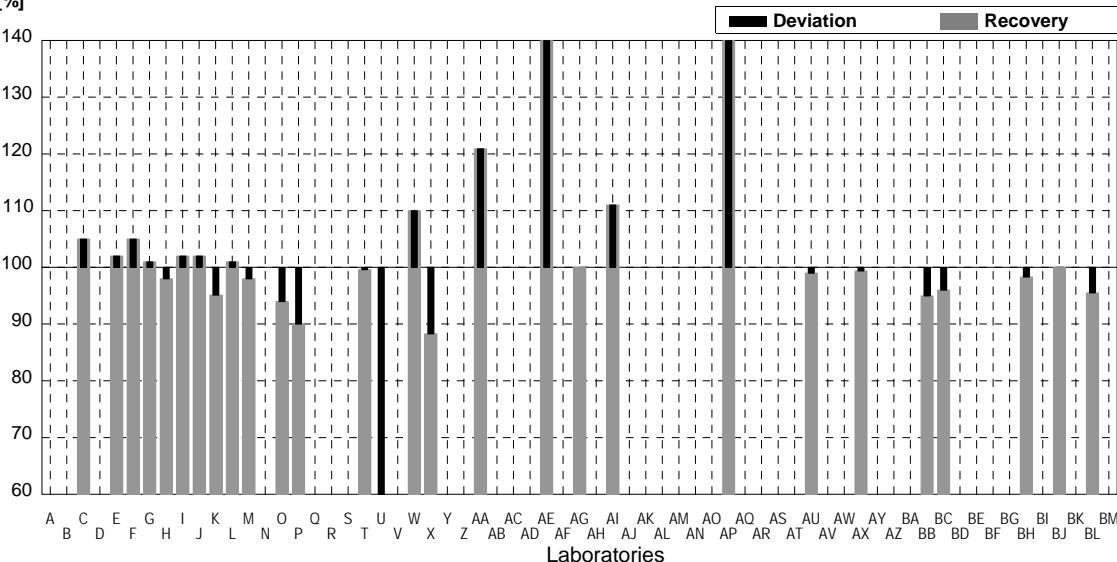
mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			mg/l		
B			mg/l		
C	1,05		mg/l	105%	1,00
D			mg/l		
E	1,02		mg/l	102%	0,40
F	1,05	0,05	mg/l	105%	1,00
G	1,01	0,1	mg/l	101%	0,20
H	0,98	0,05	mg/l	98%	-0,40
I	1,02		mg/l	102%	0,40
J	1,02		mg/l	102%	0,40
K	0,951		mg/l	95%	-0,98
L	1,01	0,1	mg/l	101%	0,20
M	0,98		mg/l	98%	-0,40
N			mg/l		
O	0,94	0,1	mg/l	94%	-1,20
P	0,9		mg/l	90%	-2,00
Q			mg/l		
R			mg/l		
S			mg/l		
T	0,996		mg/l	100%	-0,08
U	0,287 *		mg/l	29%	-14,26
V			mg/l		
W	1,1	0,1	mg/l	110%	2,00
X	0,883	0,019	mg/l	88%	-2,34
Y			mg/l		
Z			mg/l		
AA	1,209 *	0,020	mg/l	121%	4,18
AB			mg/l		
AC			mg/l		
AD			mg/l		
AE	3,61 *	0,29	mg/l	361%	52,20
AF			mg/l		
AG	1,00	0,10	mg/l	100%	0,00
AH			mg/l		
AI	1,11	0,17	mg/l	111%	2,20
AJ			mg/l		
AK			mg/l		
AL			mg/l		
AM			mg/l		
AN			mg/l		
AO			mg/l		

Result
[mg/l]



Recovery
[%]



AP	2,09	*	0,10	mg/l	209%	21,80
AQ				mg/l		
AR				mg/l		
AS				mg/l		
AT				mg/l		
AU	0,99		0,15	mg/l	99%	-0,20
AV				mg/l		
AW				mg/l		
AX	0,994		0,006	mg/l	99%	-0,12
AY				mg/l		
AZ				mg/l		
BA				mg/l		
BB	0,95		0,07	mg/l	95%	-1,00
BC	0,96		0,1	mg/l	96%	-0,80
BD				mg/l		
BE				mg/l		
BF				mg/l		
BG				mg/l		
BH	0,983		0,087	mg/l	98%	-0,34
BI				mg/l		
BJ	1,0		0,1	mg/l	100%	0,00
BK				mg/l		
BL	0,955		0,270	mg/l	96%	-0,90
BM				mg/l		
	All results		Outliers excl.		Unit	
Mean \pm CI(99%)	1,11 \pm 0,29		0,99 \pm 0,03		mg/l	
Recov. \pm CI(99%)	110,9 \pm 29,0		99,4 \pm 3,0		%	
SD between labs	0,55		0,05		mg/l	
RSD between labs	50,0		5,3		%	
n for calculation	28		24			

Sample N146B

Parameter Silicon

Target value $\pm U$ ($k=2$) 2,99 mg/l \pm 0,07 mg/l

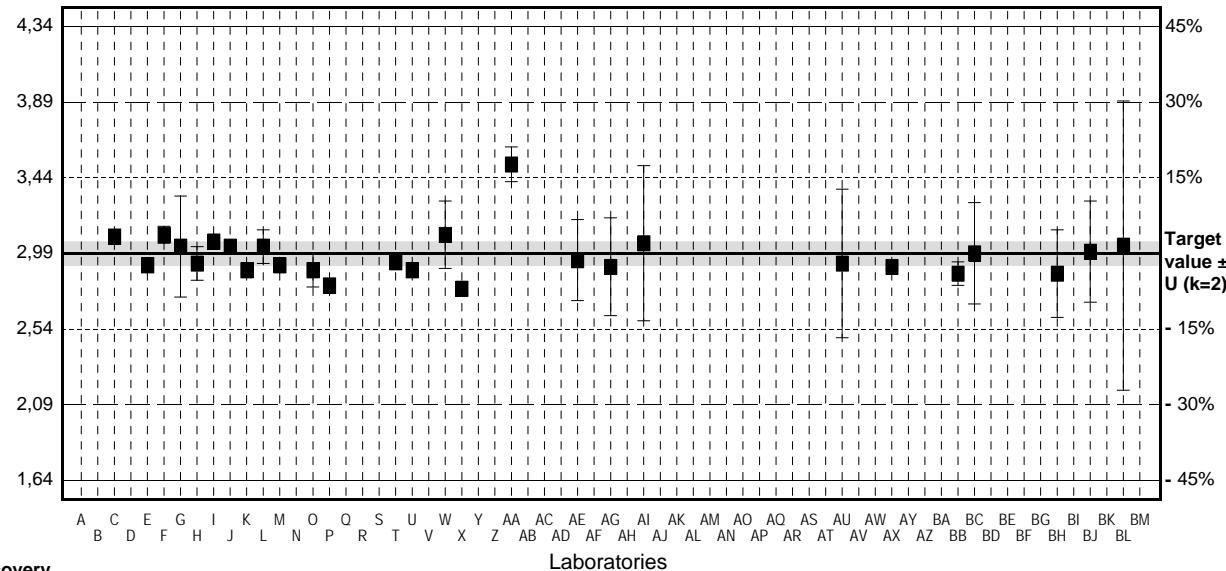
IFA result $\pm U$ ($k=2$) 2,91 mg/l \pm 0,29 mg/l

Stability test

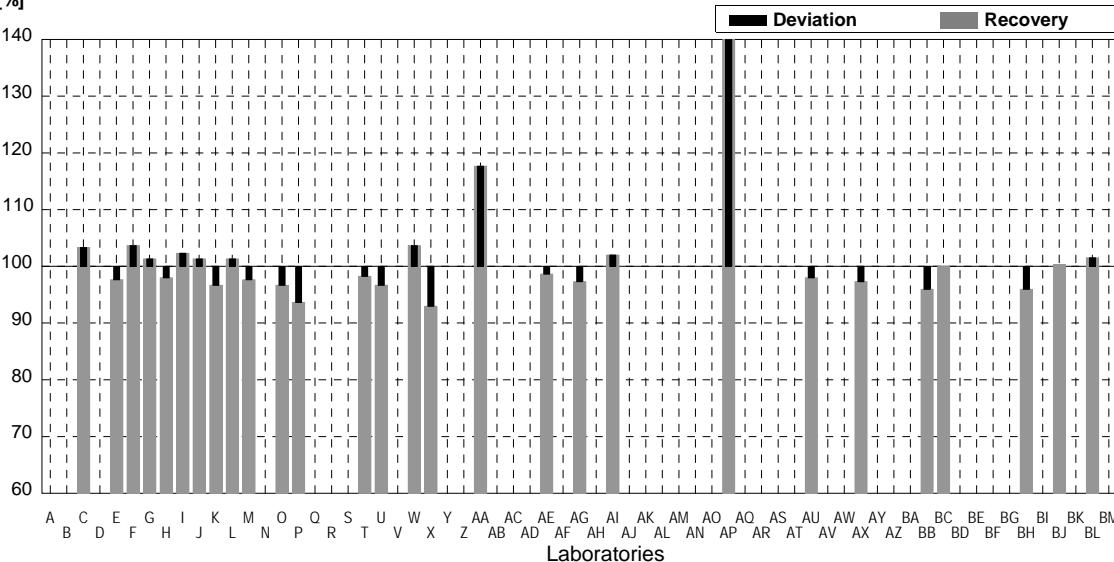
mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			mg/l		
B			mg/l		
C	3,09		mg/l	103%	0,67
D			mg/l		
E	2,92		mg/l	98%	-0,47
F	3,1	0,05	mg/l	104%	0,74
G	3,03	0,3	mg/l	101%	0,27
H	2,93	0,1	mg/l	98%	-0,40
I	3,06		mg/l	102%	0,47
J	3,03		mg/l	101%	0,27
K	2,89		mg/l	97%	-0,67
L	3,03	0,1	mg/l	101%	0,27
M	2,92		mg/l	98%	-0,47
N			mg/l		
O	2,89	0,1	mg/l	97%	-0,67
P	2,8		mg/l	94%	-1,27
Q			mg/l		
R			mg/l		
S			mg/l		
T	2,938		mg/l	98%	-0,35
U	2,89		mg/l	97%	-0,67
V			mg/l		
W	3,1	0,2	mg/l	104%	0,74
X	2,78	0,040	mg/l	93%	-1,40
Y			mg/l		
Z			mg/l		
AA	3,518 *	0,103	mg/l	118%	3,53
AB			mg/l		
AC			mg/l		
AD			mg/l		
AE	2,95	0,24	mg/l	99%	-0,27
AF			mg/l		
AG	2,91	0,29	mg/l	97%	-0,54
AH			mg/l		
AI	3,05	0,46	mg/l	102%	0,40
AJ			mg/l		
AK			mg/l		
AL			mg/l		
AM			mg/l		
AN			mg/l		
AO			mg/l		

Result
[mg/l]



Recovery
[%]



AP	6,30	*	0,32	mg/l	211%	22,14
AQ				mg/l		
AR				mg/l		
AS				mg/l		
AT				mg/l		
AU	2,93		0,44	mg/l	98%	-0,40
AV				mg/l		
AW				mg/l		
AX	2,91		0,012	mg/l	97%	-0,54
AY				mg/l		
AZ				mg/l		
BA				mg/l		
BB	2,87		0,07	mg/l	96%	-0,80
BC	2,99		0,3	mg/l	100%	0,00
BD				mg/l		
BE				mg/l		
BF				mg/l		
BG				mg/l		
BH	2,87		0,26	mg/l	96%	-0,80
BI				mg/l		
BJ	3,0		0,3	mg/l	100%	0,07
BK				mg/l		
BL	3,036		0,858	mg/l	102%	0,31
BM				mg/l		
	All results		Outliers excl.		Unit	
Mean ± CI(99%)	3,10 ± 0,34		2,96 ± 0,05	mg/l		
Recov. ± CI(99%)	103,6 ± 11,2		98,9 ± 1,6	%		
SD between labs	0,64		0,09	mg/l		
RSD between labs	20,7		3,0	%		
n for calculation	28		26			

Sample N146A

Parameter Fluoride

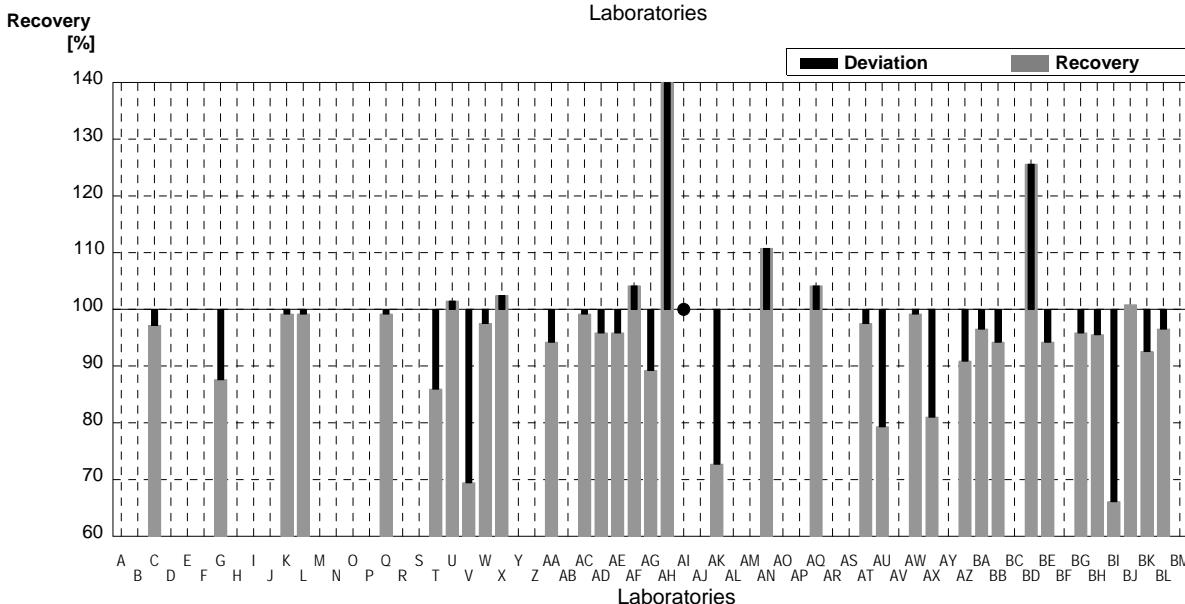
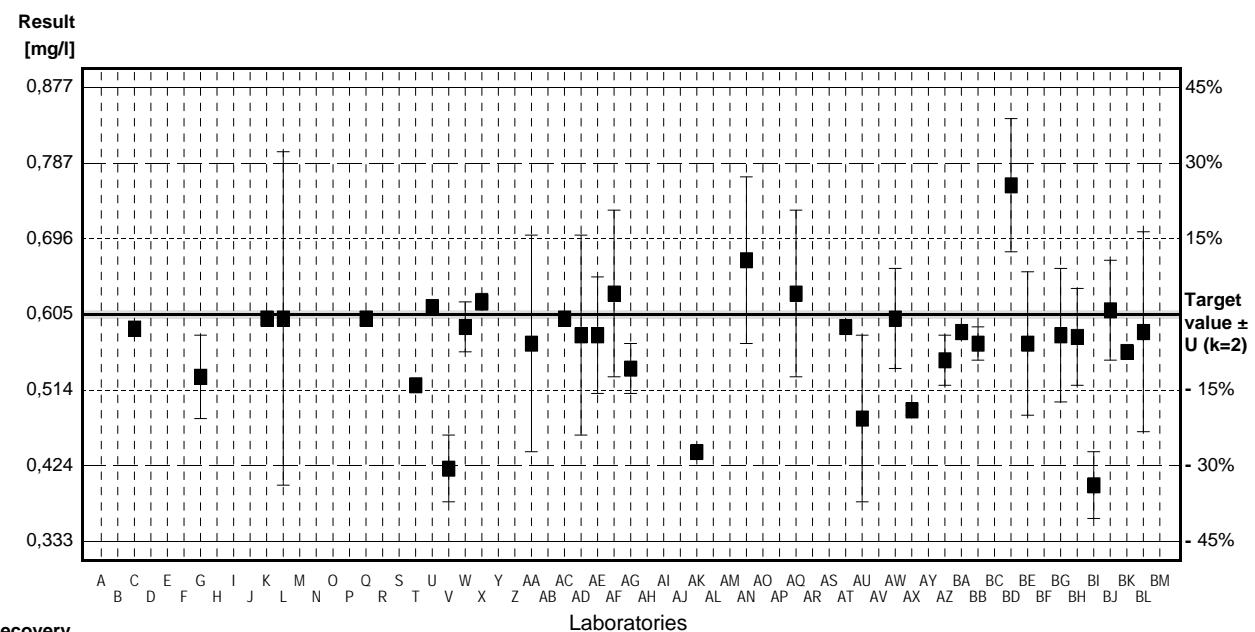
Target value $\pm U$ ($k=2$) 0,605 mg/l \pm 0,004 mg/l

IFA result $\pm U$ ($k=2$) 0,610 mg/l \pm 0,049 mg/l

Stability test

mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			mg/l		
B			mg/l		
C	0,588		mg/l	97%	-0,35
D			mg/l		
E			mg/l		
F			mg/l		
G	0,53	0,05	mg/l	88%	-1,55
H			mg/l		
I			mg/l		
J			mg/l		
K	0,60		mg/l	99%	-0,10
L	0,6	0,2	mg/l	99%	-0,10
M			mg/l		
N			mg/l		
O			mg/l		
P			mg/l		
Q	0,60	0,008	mg/l	99%	-0,10
R			mg/l		
S			mg/l		
T	0,52		mg/l	86%	-1,76
U	0,614		mg/l	101%	0,19
V	0,42 *	0,04	mg/l	69%	-3,82
W	0,59	0,03	mg/l	98%	-0,31
X	0,62	0,01	mg/l	102%	0,31
Y			mg/l		
Z			mg/l		
AA	0,57	0,13	mg/l	94%	-0,72
AB			mg/l		
AC	0,6		mg/l	99%	-0,10
AD	0,58	0,12	mg/l	96%	-0,52
AE	0,58	0,07	mg/l	96%	-0,52
AF	0,63	0,1	mg/l	104%	0,52
AG	0,54	0,03	mg/l	89%	-1,34
AH	1,34 *	0,13	mg/l	221%	15,19
AI	<1		mg/l	*	
AJ			mg/l		
AK	0,44 *		mg/l	73%	-3,41
AL			mg/l		
AM			mg/l		
AN	0,67	0,10	mg/l	111%	1,34
AO			mg/l		



AP			mg/l		
AQ	0,63	0,1	mg/l	104%	0,52
AR			mg/l		
AS			mg/l		
AT	0,59		mg/l	98%	-0,31
AU	0,48	0,10	mg/l	79%	-2,58
AV			mg/l		
AW	0,6	0,06	mg/l	99%	-0,10
AX	0,49	0,006	mg/l	81%	-2,38
AY			mg/l		
AZ	0,550	0,03	mg/l	91%	-1,14
BA	0,584		mg/l	97%	-0,43
BB	0,57	0,02	mg/l	94%	-0,72
BC			mg/l		
BD	0,76 *	0,08	mg/l	126%	3,20
BE	0,570	0,086	mg/l	94%	-0,72
BF			mg/l		
BG	0,58	0,08	mg/l	96%	-0,52
BH	0,578	0,058	mg/l	96%	-0,56
BI	0,4 *	0,04	mg/l	66%	-4,24
BJ	0,61	0,06	mg/l	101%	0,10
BK	0,56		mg/l	93%	-0,93
BL	0,584	0,120	mg/l	97%	-0,43
BM			mg/l		
	All results	Outliers excl.		Unit	
Mean ± CI(99%)	0,593 ± 0,068	0,580 ± 0,020	mg/l		
Recov. ± CI(99%)	98,1 ± 11,2	95,9 ± 3,3	%		
SD between labs	0,146	0,040	mg/l		
RSD between labs	24,7	6,9	%		
n for calculation	35	30			

Sample N146B

Parameter Fluoride

Target value $\pm U$ ($k=2$) 1,51 mg/l \pm 0,01 mg/l

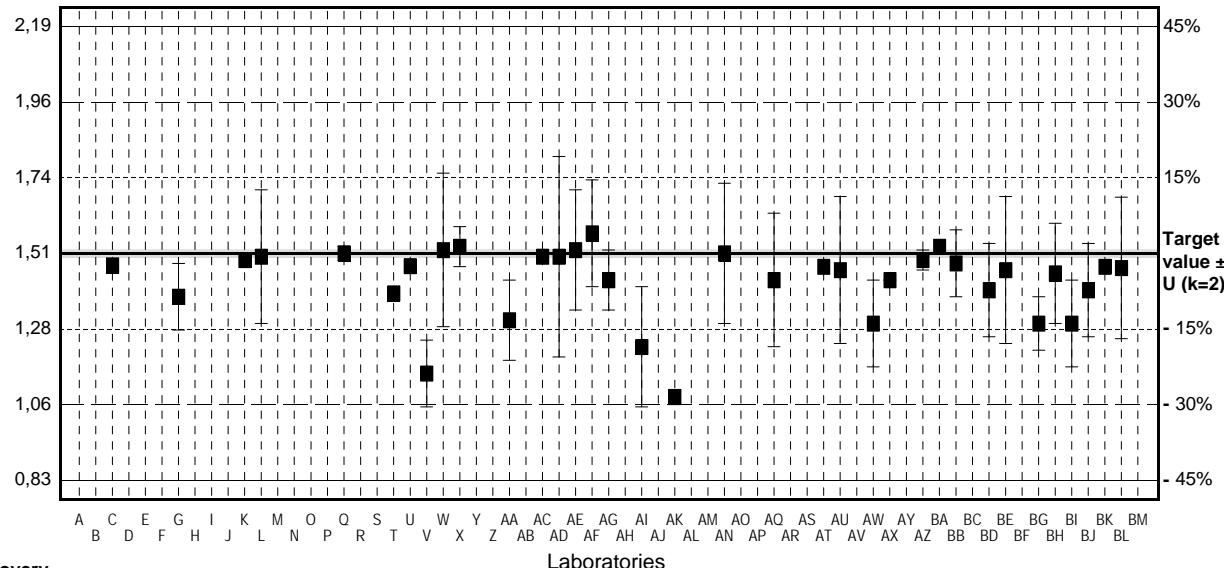
IFA result $\pm U$ ($k=2$) 1,50 mg/l \pm 0,12 mg/l

Stability test

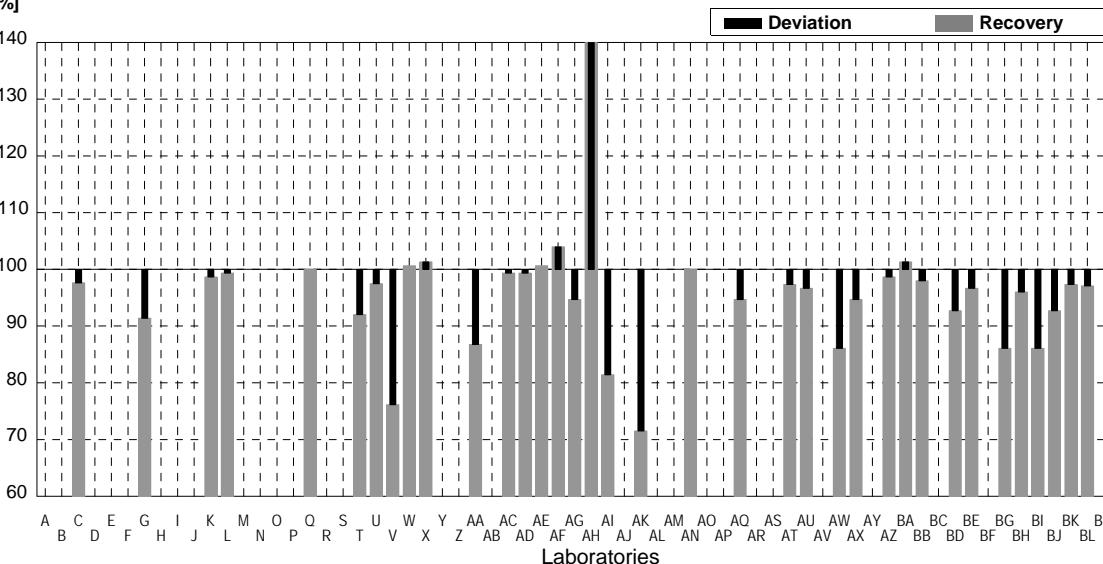
mg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			mg/l		
B			mg/l		
C	1,474		mg/l	98%	-0,30
D			mg/l		
E			mg/l		
F			mg/l		
G	1,38	0,1	mg/l	91%	-1,08
H			mg/l		
I			mg/l		
J			mg/l		
K	1,49		mg/l	99%	-0,17
L	1,5	0,2	mg/l	99%	-0,08
M			mg/l		
N			mg/l		
O			mg/l		
P			mg/l		
Q	1,51	0,021	mg/l	100%	0,00
R			mg/l		
S			mg/l		
T	1,39		mg/l	92%	-0,99
U	1,472		mg/l	97%	-0,31
V	1,15 *	0,10	mg/l	76%	-2,98
W	1,52	0,23	mg/l	101%	0,08
X	1,53	0,06	mg/l	101%	0,17
Y			mg/l		
Z			mg/l		
AA	1,31	0,12	mg/l	87%	-1,66
AB			mg/l		
AC	1,5		mg/l	99%	-0,08
AD	1,5	0,3	mg/l	99%	-0,08
AE	1,52	0,18	mg/l	101%	0,08
AF	1,57	0,16	mg/l	104%	0,50
AG	1,43	0,09	mg/l	95%	-0,66
AH	2,45 *	0,25	mg/l	162%	7,78
AI	1,23 *	0,18	mg/l	81%	-2,32
AJ			mg/l		
AK	1,08 *		mg/l	72%	-3,56
AL			mg/l		
AM			mg/l		
AN	1,51	0,21	mg/l	100%	0,00
AO			mg/l		

Result
[mg/l]



Recovery
[%]



AP			mg/l		
AQ	1,43	0,2	mg/l	95%	-0,66
AR			mg/l		
AS			mg/l		
AT	1,47		mg/l	97%	-0,33
AU	1,46	0,22	mg/l	97%	-0,41
AV			mg/l		
AW	1,3	0,13	mg/l	86%	-1,74
AX	1,43	0,0001	mg/l	95%	-0,66
AY			mg/l		
AZ	1,49	0,03	mg/l	99%	-0,17
BA	1,53		mg/l	101%	0,17
BB	1,48	0,10	mg/l	98%	-0,25
BC			mg/l		
BD	1,4	0,14	mg/l	93%	-0,91
BE	1,46	0,22	mg/l	97%	-0,41
BF			mg/l		
BG	1,30	0,08	mg/l	86%	-1,74
BH	1,45	0,15	mg/l	96%	-0,50
BI	1,3	0,13	mg/l	86%	-1,74
BJ	1,4	0,14	mg/l	93%	-0,91
BK	1,47		mg/l	97%	-0,33
BL	1,466	0,212	mg/l	97%	-0,36
BM			mg/l		
	All results	Outliers excl.	Unit		
Mean ± CI(99%)	1,45 ± 0,09	1,45 ± 0,03	mg/l		
Recov. ± CI(99%)	96,3 ± 6,1	96,1 ± 2,3	%		
SD between labs	0,20	0,07	mg/l		
RSD between labs	13,9	4,9	%		
n for calculation	36	32			

Illustration of Results Laboratory Oriented Part

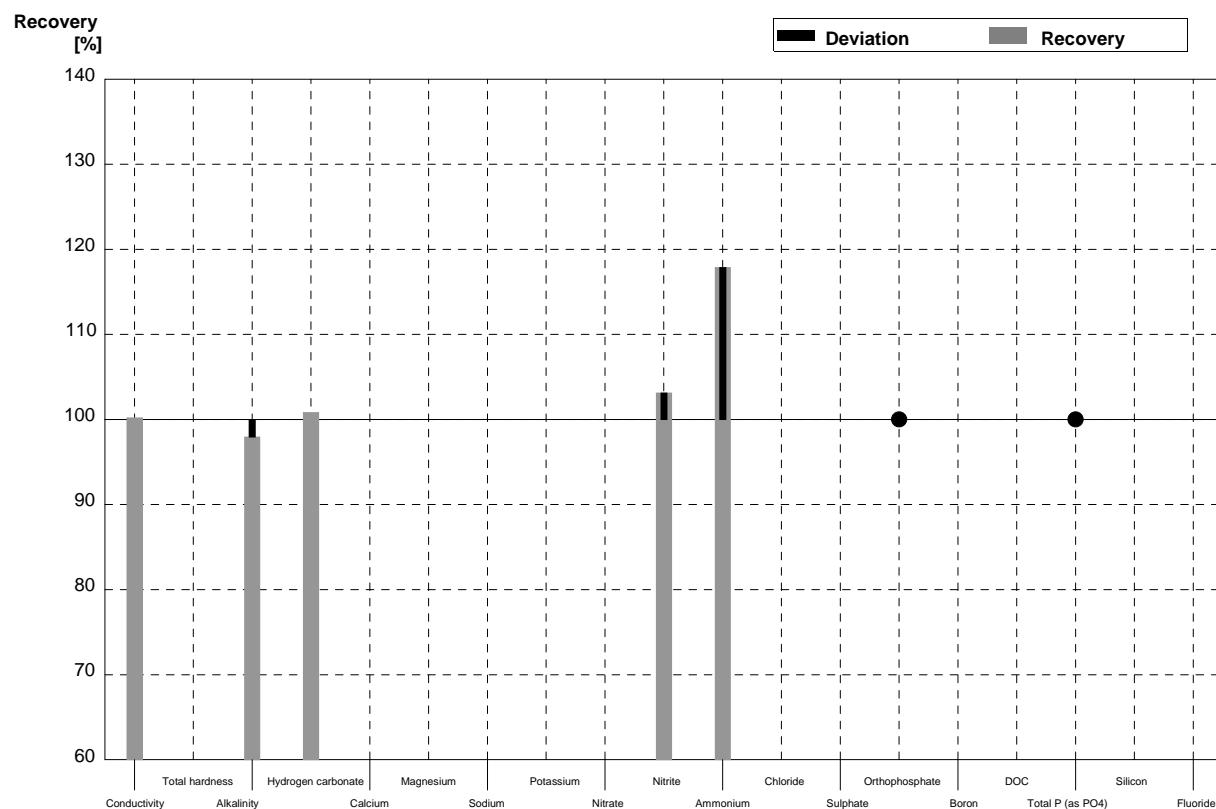
**Round N146
Major Ions**

Sample Dispatch: 11 March 2019



Sample N146A**Laboratory A**

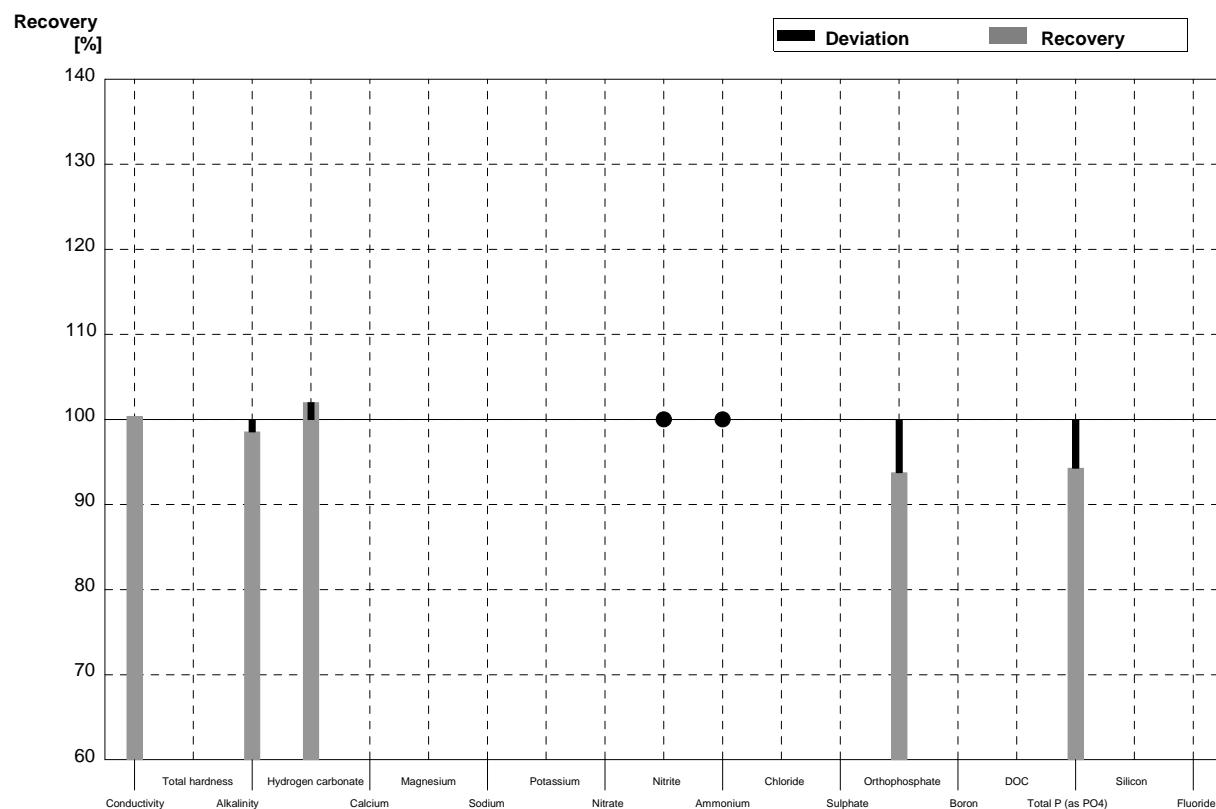
Parameter	Target value	$\pm U$ ($k=2$)	Result	\pm	Unit	Recovery
Conductivity	526	1	527	15	$\mu\text{S}/\text{cm}$	100%
Total hardness	1,90	0,02			mmol/l	
Alkalinity	1,46	0,02	1,43	0,1	mmol/l	98%
Hydrogen carbonate	86,3	1,4	87	5	mg/l	101%
Calcium	50,8	0,6			mg/l	
Magnesium	15,4	0,2			mg/l	
Sodium	25,2	0,3			mg/l	
Potassium	4,86	0,03			mg/l	
Nitrate	54,3	0,9			mg/l	
Nitrite	0,032	0,001	0,033	0,003	mg/l	103%
Ammonium	0,028	0,004	0,033	0,004	mg/l	118%
Chloride	43,3	0,6			mg/l	
Sulphate	70,5	0,4			mg/l	
Orthophosphate	<0,009		<0,015	0,005	mg/l	•
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04			mg/l	
Total P (as PO ₄)	<0,009		<0,015	0,005	mg/l	•
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004			mg/l	



Sample N146B

Laboratory A

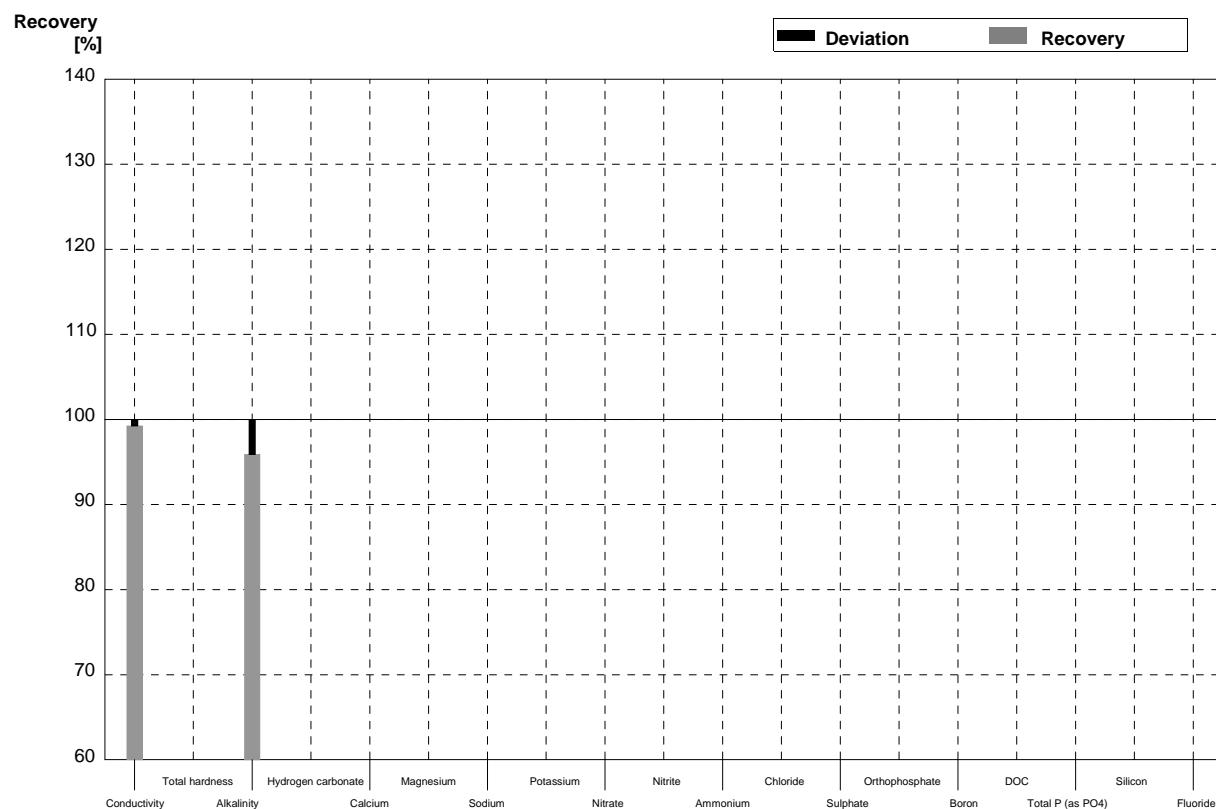
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1	271	15	µS/cm	100%
Total hardness	0,560	0,006			mmol/l	
Alkalinity	1,37	0,01	1,35	0,1	mmol/l	99%
Hydrogen carbonate	80,4	0,7	82	5	mg/l	102%
Calcium	16,3	0,2			mg/l	
Magnesium	3,73	0,05			mg/l	
Sodium	32,6	0,2			mg/l	
Potassium	2,93	0,02			mg/l	
Nitrate	16,6	0,3			mg/l	
Nitrite	0,0091	0,0002	<0,016	0,005	mg/l	•
Ammonium	<0,01		<0,026	0,009	mg/l	•
Chloride	11,5	0,1			mg/l	
Sulphate	28,9	0,2			mg/l	
Orthophosphate	0,160	0,002	0,150	0,015	mg/l	94%
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04			mg/l	
Total P (as PO ₄)	0,070	0,001	0,066	0,006	mg/l	94%
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01			mg/l	



Sample N146A

Laboratory B

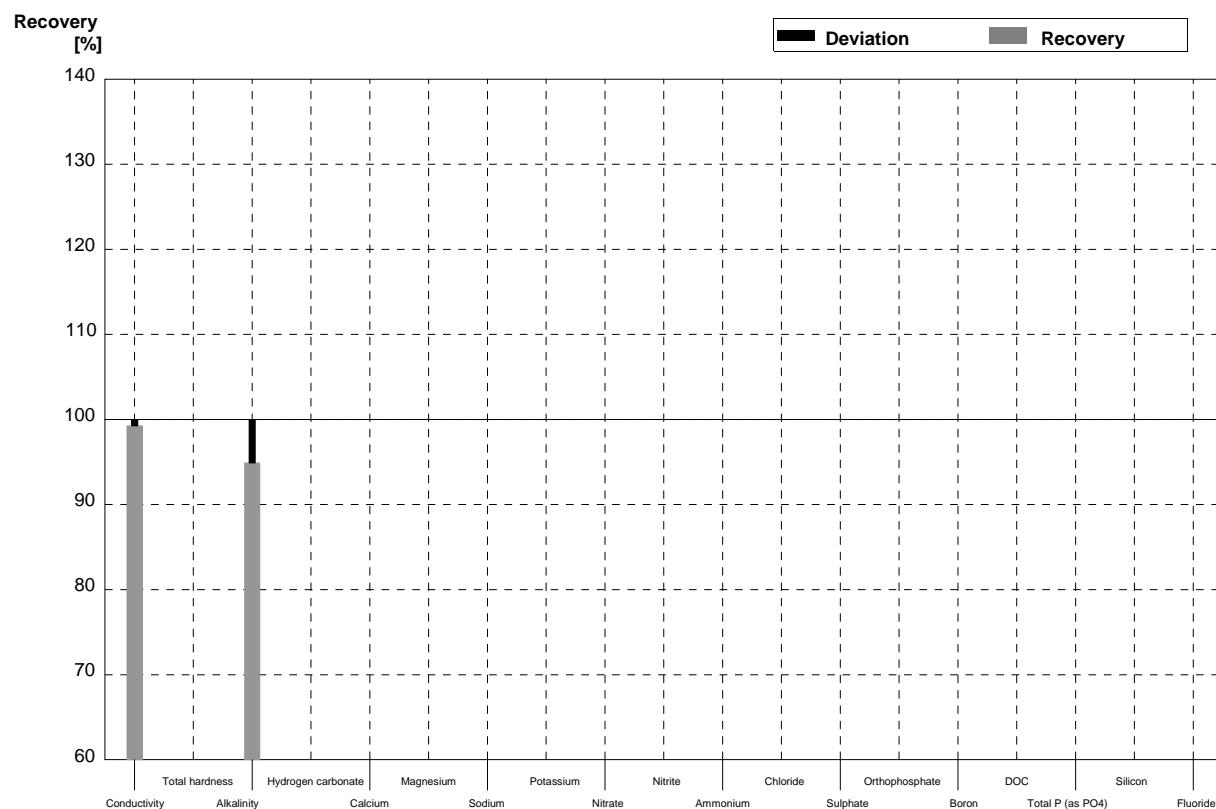
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	526	1	522	5	µS/cm	99%
Total hardness	1,90	0,02			mmol/l	
Alkalinity	1,46	0,02	1,40	0,05	mmol/l	96%
Hydrogen carbonate	86,3	1,4			mg/l	
Calcium	50,8	0,6			mg/l	
Magnesium	15,4	0,2			mg/l	
Sodium	25,2	0,3			mg/l	
Potassium	4,86	0,03			mg/l	
Nitrate	54,3	0,9			mg/l	
Nitrite	0,032	0,001			mg/l	
Ammonium	0,028	0,004			mg/l	
Chloride	43,3	0,6			mg/l	
Sulphate	70,5	0,4			mg/l	
Orthophosphate	<0,009				mg/l	
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04			mg/l	
Total P (as PO ₄)	<0,009				mg/l	
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004			mg/l	



Sample N146B

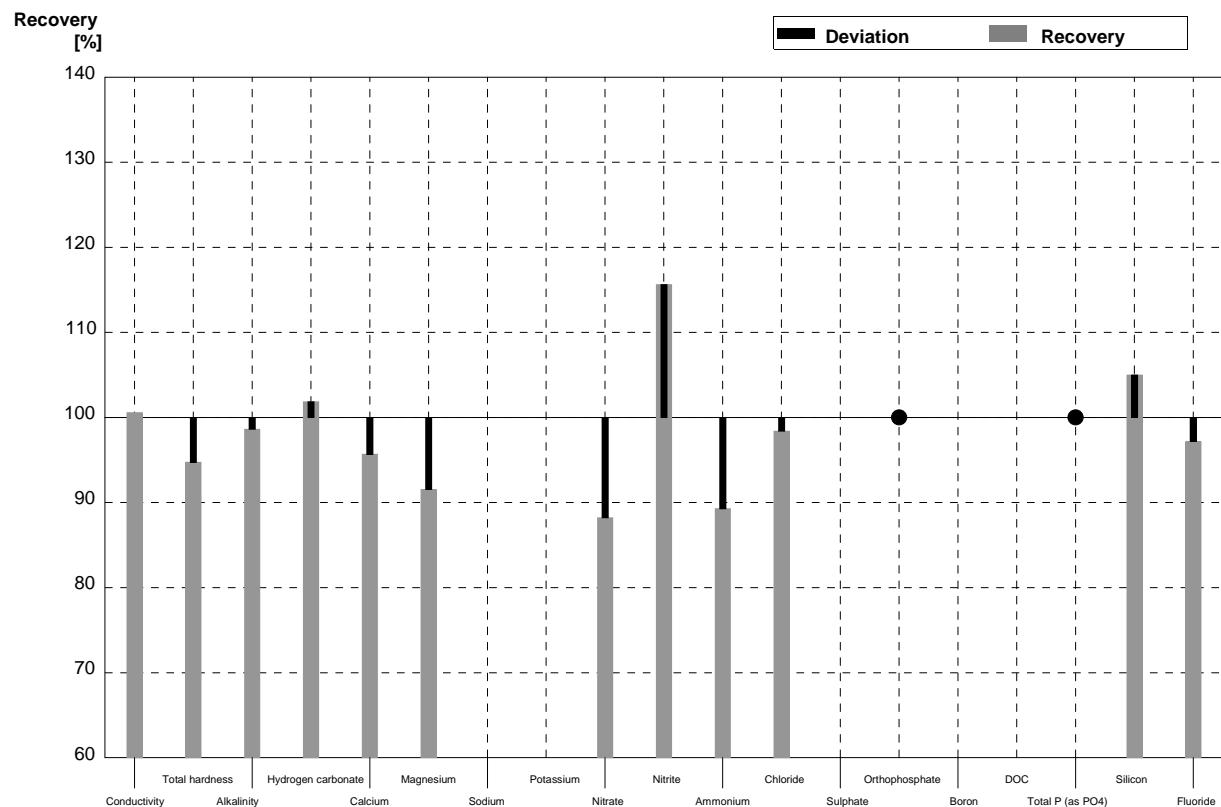
Laboratory B

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1	268	5	µS/cm	99%
Total hardness	0,560	0,006			mmol/l	
Alkalinity	1,37	0,01	1,30	0,05	mmol/l	95%
Hydrogen carbonate	80,4	0,7			mg/l	
Calcium	16,3	0,2			mg/l	
Magnesium	3,73	0,05			mg/l	
Sodium	32,6	0,2			mg/l	
Potassium	2,93	0,02			mg/l	
Nitrate	16,6	0,3			mg/l	
Nitrite	0,0091	0,0002			mg/l	
Ammonium	<0,01				mg/l	
Chloride	11,5	0,1			mg/l	
Sulphate	28,9	0,2			mg/l	
Orthophosphate	0,160	0,002			mg/l	
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04			mg/l	
Total P (as PO ₄)	0,070	0,001			mg/l	
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01			mg/l	



Sample N146A**Laboratory C**

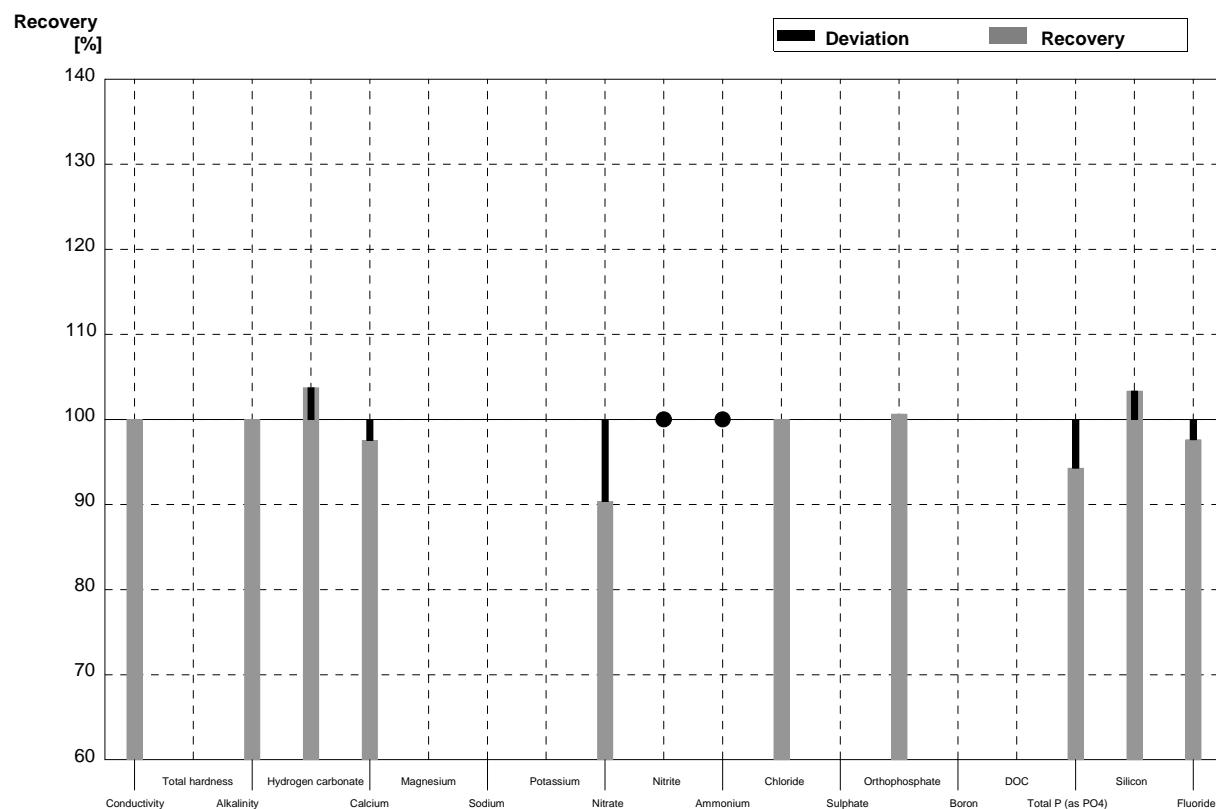
Parameter	Target value	$\pm U$ ($k=2$)	Result	\pm	Unit	Recovery
Conductivity	526	1	529		$\mu\text{S}/\text{cm}$	101%
Total hardness	1,90	0,02	1,8		mmol/l	95%
Alkalinity	1,46	0,02	1,44		mmol/l	99%
Hydrogen carbonate	86,3	1,4	87,9		mg/l	102%
Calcium	50,8	0,6	48,6		mg/l	96%
Magnesium	15,4	0,2	14,1		mg/l	92%
Sodium	25,2	0,3			mg/l	
Potassium	4,86	0,03			mg/l	
Nitrate	54,3	0,9	47,9		mg/l	88%
Nitrite	0,032	0,001	0,037		mg/l	116%
Ammonium	0,028	0,004	0,025		mg/l	89%
Chloride	43,3	0,6	42,6		mg/l	98%
Sulphate	70,5	0,4			mg/l	
Orthophosphate	<0,009		<0,02		mg/l	•
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04			mg/l	
Total P (as PO ₄)	<0,009		<0,02		mg/l	•
Silicon	1,00	0,02	1,05		mg/l	105%
Fluoride	0,605	0,004	0,588		mg/l	97%



Sample N146B

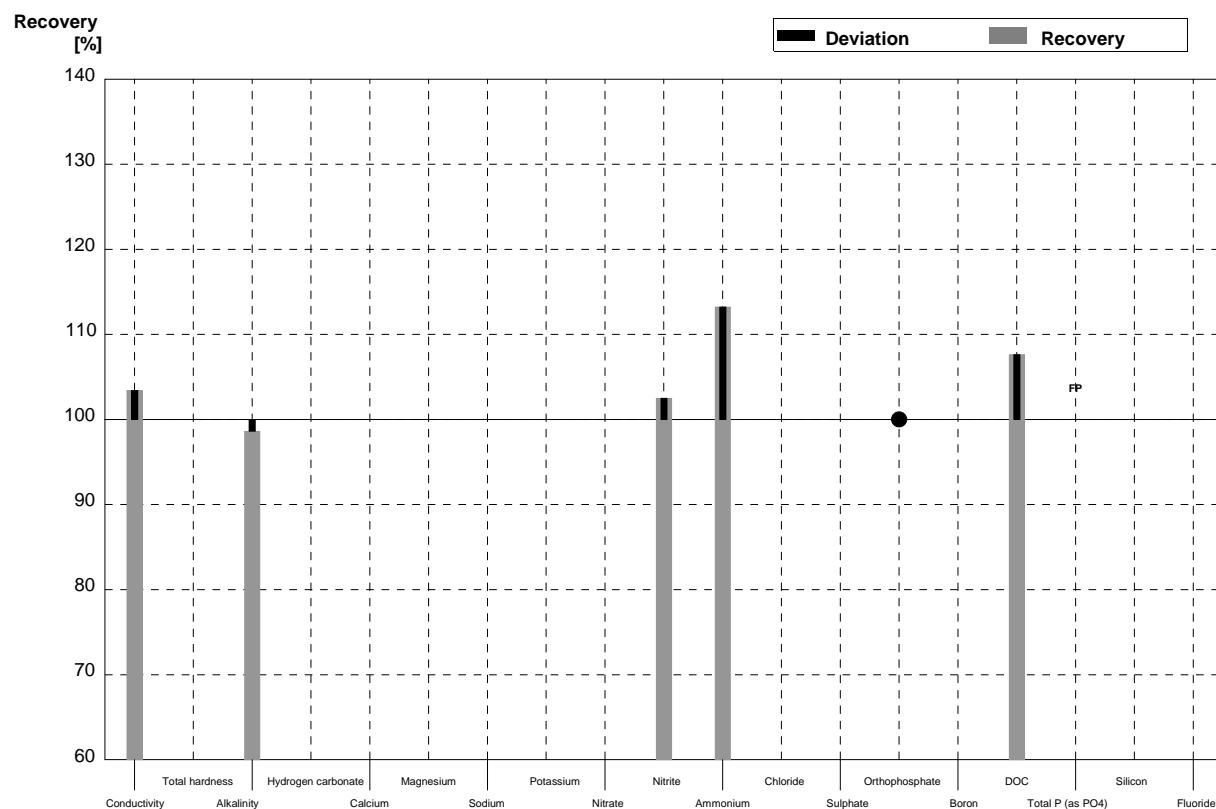
Laboratory C

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1	270		µS/cm	100%
Total hardness	0,560	0,006			mmol/l	
Alkalinity	1,37	0,01	1,37		mmol/l	100%
Hydrogen carbonate	80,4	0,7	83,4		mg/l	104%
Calcium	16,3	0,2	15,9		mg/l	98%
Magnesium	3,73	0,05			mg/l	
Sodium	32,6	0,2			mg/l	
Potassium	2,93	0,02			mg/l	
Nitrate	16,6	0,3	15,0		mg/l	90%
Nitrite	0,0091	0,0002	<0,02		mg/l	•
Ammonium	<0,01		<0,02		mg/l	•
Chloride	11,5	0,1	11,5		mg/l	100%
Sulphate	28,9	0,2			mg/l	
Orthophosphate	0,160	0,002	0,161		mg/l	101%
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04			mg/l	
Total P (as PO ₄)	0,070	0,001	0,066		mg/l	94%
Silicon	2,99	0,07	3,09		mg/l	103%
Fluoride	1,51	0,01	1,474		mg/l	98%



Sample N146A**Laboratory D**

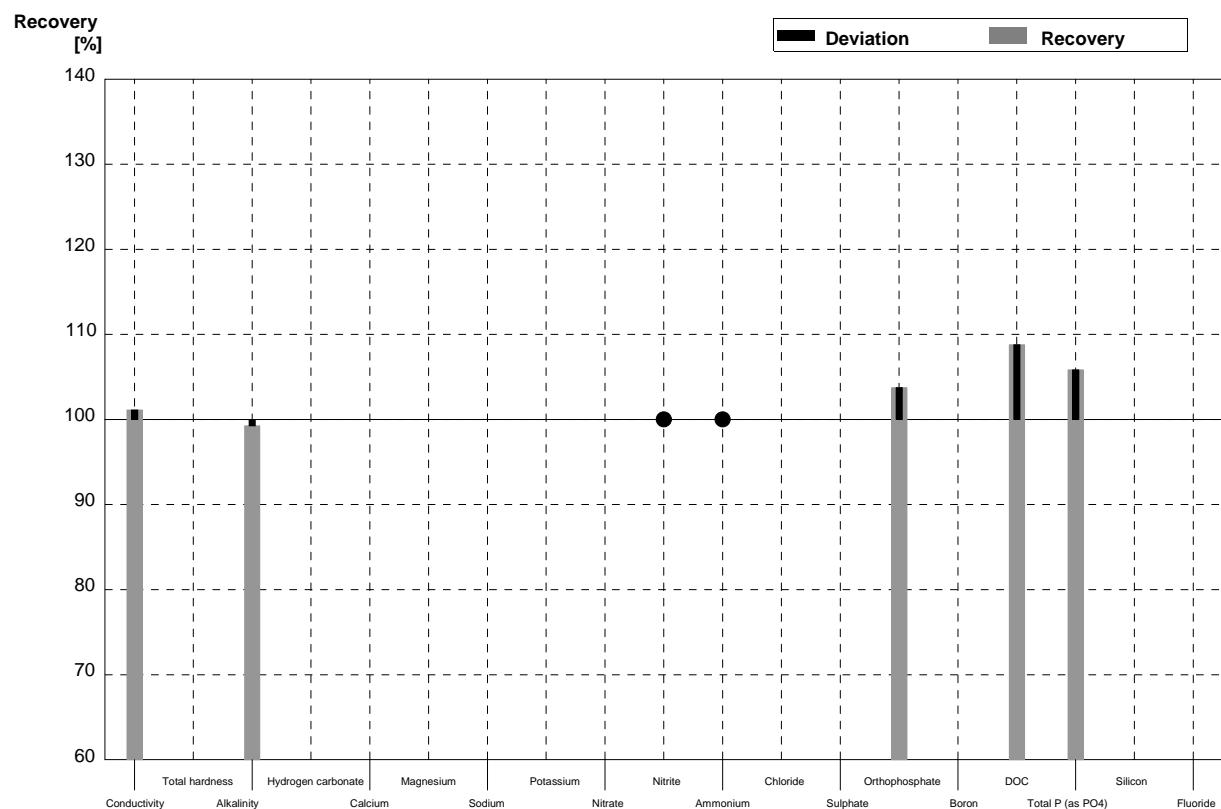
Parameter	Target value	$\pm U$ ($k=2$)	Result	\pm	Unit	Recovery
Conductivity	526	1	544	10	$\mu\text{S}/\text{cm}$	103%
Total hardness	1,90	0,02			mmol/l	
Alkalinity	1,46	0,02	1,44	0,1	mmol/l	99%
Hydrogen carbonate	86,3	1,4			mg/l	
Calcium	50,8	0,6			mg/l	
Magnesium	15,4	0,2			mg/l	
Sodium	25,2	0,3			mg/l	
Potassium	4,86	0,03			mg/l	
Nitrate	54,3	0,9			mg/l	
Nitrite	0,032	0,001	0,0328	0,001	mg/l	103%
Ammonium	0,028	0,004	0,0317	0,001	mg/l	113%
Chloride	43,3	0,6			mg/l	
Sulphate	70,5	0,4			mg/l	
Orthophosphate	<0,009		<0,02		mg/l	•
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04	1,27	0,1	mg/l	108%
Total P (as PO ₄)	<0,009		0,0220	0,001	mg/l	FP
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004			mg/l	



Sample N146B

Laboratory D

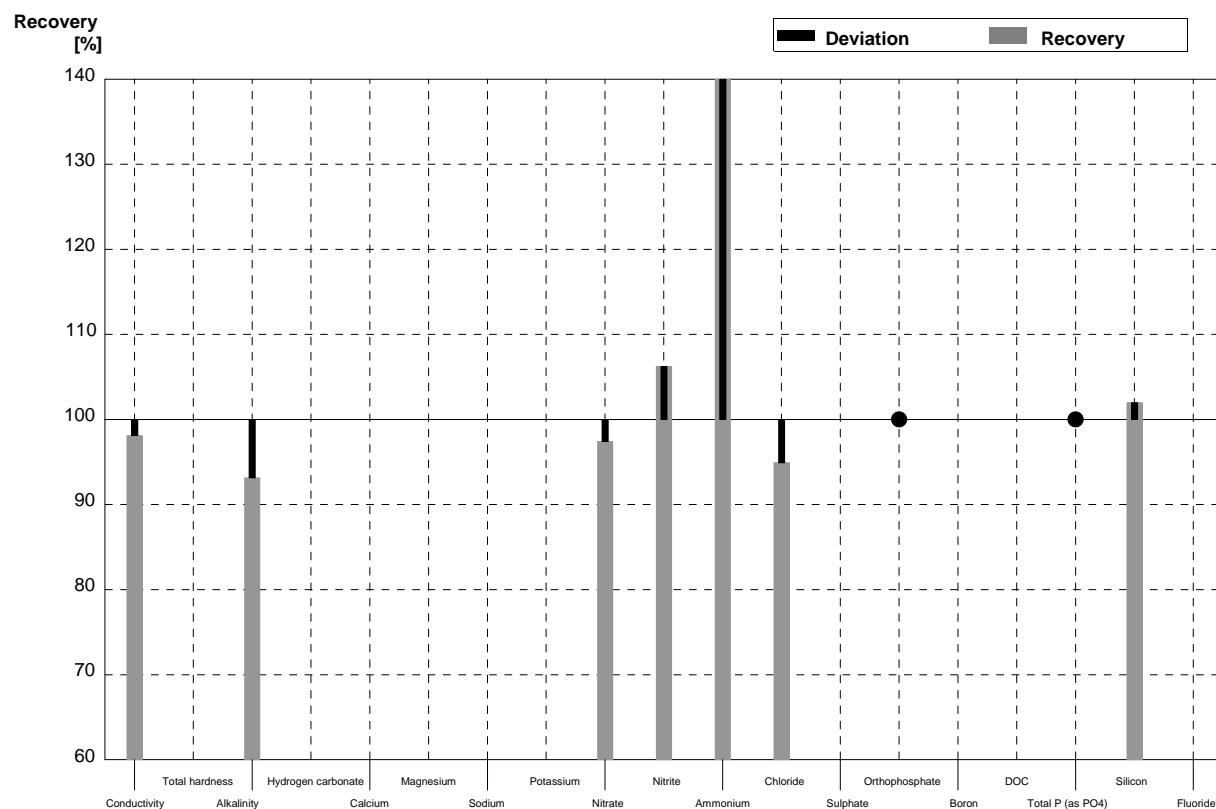
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1	273	10	µS/cm	101%
Total hardness	0,560	0,006			mmol/l	
Alkalinity	1,37	0,01	1,36	0,1	mmol/l	99%
Hydrogen carbonate	80,4	0,7			mg/l	
Calcium	16,3	0,2			mg/l	
Magnesium	3,73	0,05			mg/l	
Sodium	32,6	0,2			mg/l	
Potassium	2,93	0,02			mg/l	
Nitrate	16,6	0,3			mg/l	
Nitrite	0,0091	0,0002	<0,02		mg/l	•
Ammonium	<0,01		<0,03		mg/l	•
Chloride	11,5	0,1			mg/l	
Sulphate	28,9	0,2			mg/l	
Orthophosphate	0,160	0,002	0,166	0,01	mg/l	104%
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04	2,35	0,1	mg/l	109%
Total P (as PO ₄)	0,070	0,001	0,0741	0,001	mg/l	106%
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01			mg/l	



Sample N146A

Laboratory E

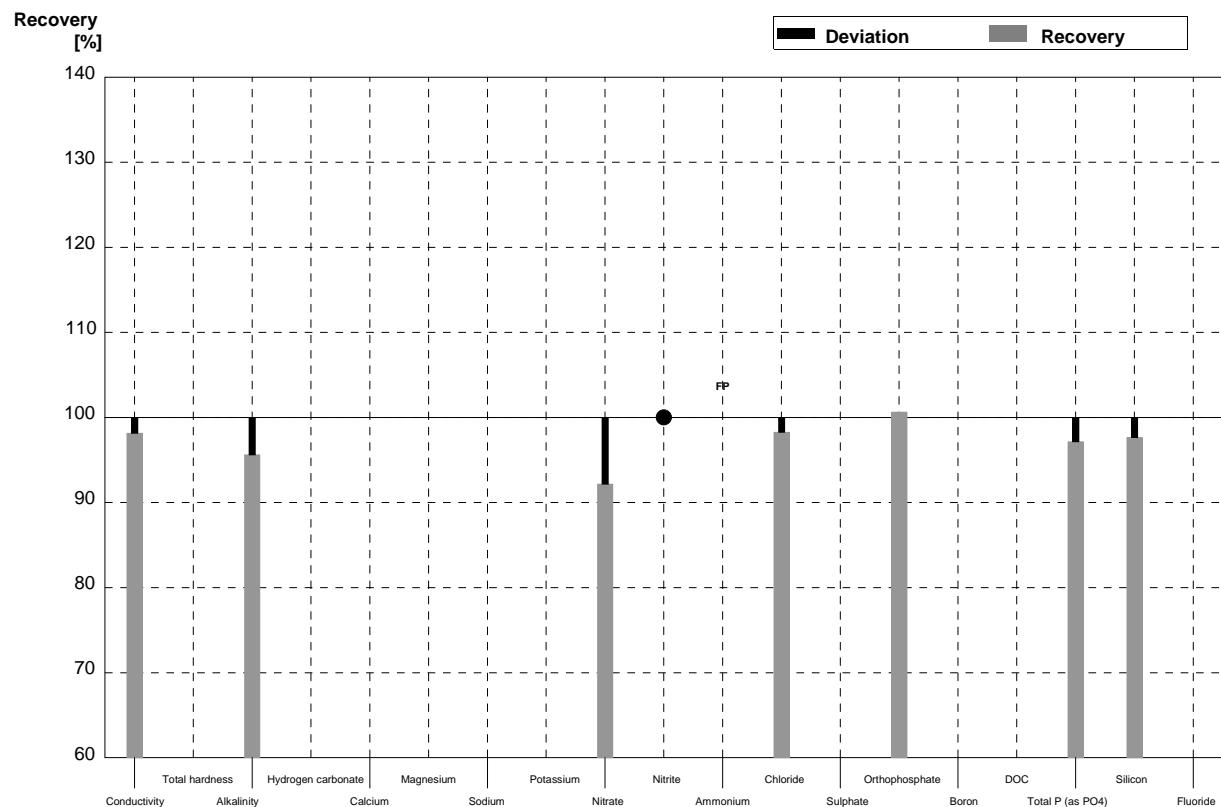
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	526	1	516		µS/cm	98%
Total hardness	1,90	0,02			mmol/l	
Alkalinity	1,46	0,02	1,36		mmol/l	93%
Hydrogen carbonate	86,3	1,4			mg/l	
Calcium	50,8	0,6			mg/l	
Magnesium	15,4	0,2			mg/l	
Sodium	25,2	0,3			mg/l	
Potassium	4,86	0,03			mg/l	
Nitrate	54,3	0,9	52,9		mg/l	97%
Nitrite	0,032	0,001	0,034		mg/l	106%
Ammonium	0,028	0,004	0,040		mg/l	143%
Chloride	43,3	0,6	41,1		mg/l	95%
Sulphate	70,5	0,4			mg/l	
Orthophosphate	<0,009		<0,02		mg/l	•
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04			mg/l	
Total P (as PO ₄)	<0,009		<0,02		mg/l	•
Silicon	1,00	0,02	1,02		mg/l	102%
Fluoride	0,605	0,004			mg/l	



Sample N146B

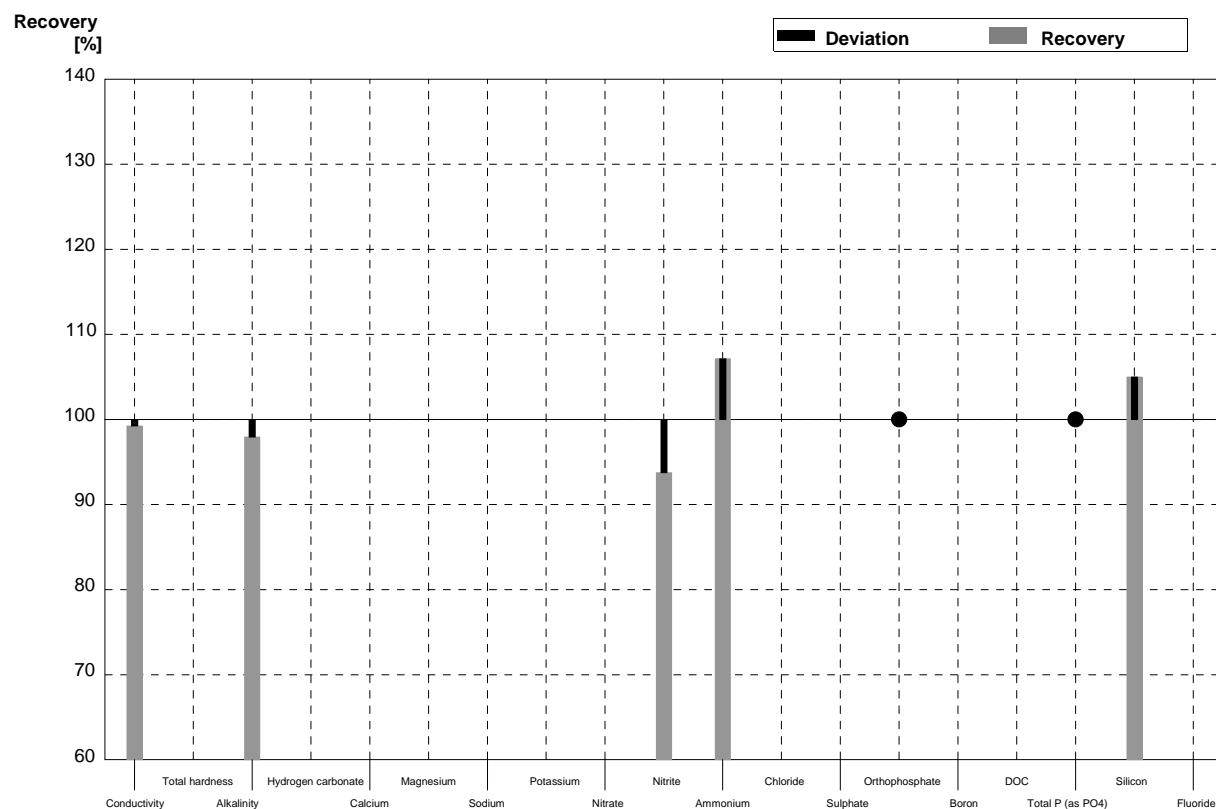
Laboratory E

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1	265		µS/cm	98%
Total hardness	0,560	0,006			mmol/l	
Alkalinity	1,37	0,01	1,31		mmol/l	96%
Hydrogen carbonate	80,4	0,7			mg/l	
Calcium	16,3	0,2			mg/l	
Magnesium	3,73	0,05			mg/l	
Sodium	32,6	0,2			mg/l	
Potassium	2,93	0,02			mg/l	
Nitrate	16,6	0,3	15,3		mg/l	92%
Nitrite	0,0091	0,0002	<0,02		mg/l	•
Ammonium	<0,01		0,037		mg/l	FP
Chloride	11,5	0,1	11,3		mg/l	98%
Sulphate	28,9	0,2			mg/l	
Orthophosphate	0,160	0,002	0,161		mg/l	101%
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04			mg/l	
Total P (as PO ₄)	0,070	0,001	0,068		mg/l	97%
Silicon	2,99	0,07	2,92		mg/l	98%
Fluoride	1,51	0,01			mg/l	



Sample N146A**Laboratory F**

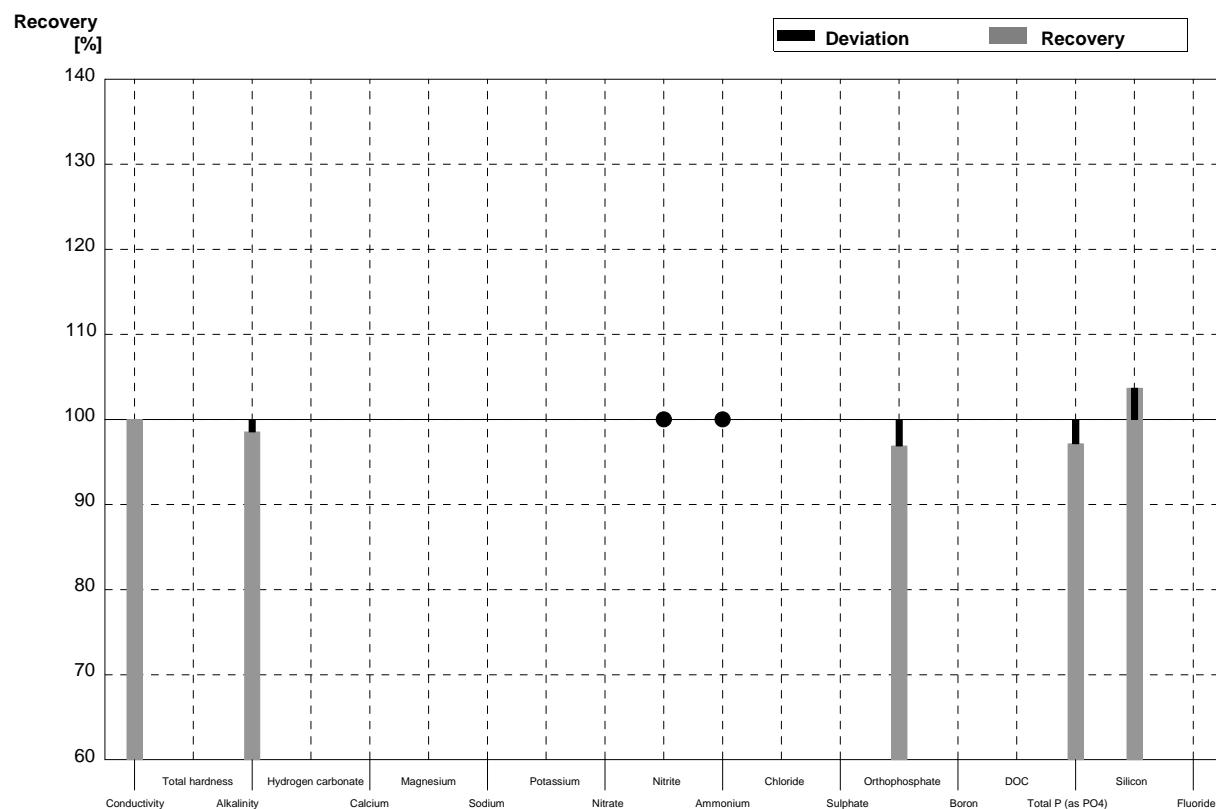
Parameter	Target value	$\pm U$ (k=2)	Result	\pm	Unit	Recovery
Conductivity	526	1	522	3	$\mu\text{S}/\text{cm}$	99%
Total hardness	1,90	0,02			mmol/l	
Alkalinity	1,46	0,02	1,43	0,05	mmol/l	98%
Hydrogen carbonate	86,3	1,4			mg/l	
Calcium	50,8	0,6			mg/l	
Magnesium	15,4	0,2			mg/l	
Sodium	25,2	0,3			mg/l	
Potassium	4,86	0,03			mg/l	
Nitrate	54,3	0,9			mg/l	
Nitrite	0,032	0,001	0,030	0,003	mg/l	94%
Ammonium	0,028	0,004	0,03	0,01	mg/l	107%
Chloride	43,3	0,6			mg/l	
Sulphate	70,5	0,4			mg/l	
Orthophosphate	<0,009		<0,015	0,003	mg/l	•
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04			mg/l	
Total P (as PO ₄)	<0,009		<0,015	0,003	mg/l	•
Silicon	1,00	0,02	1,05	0,05	mg/l	105%
Fluoride	0,605	0,004			mg/l	



Sample N146B

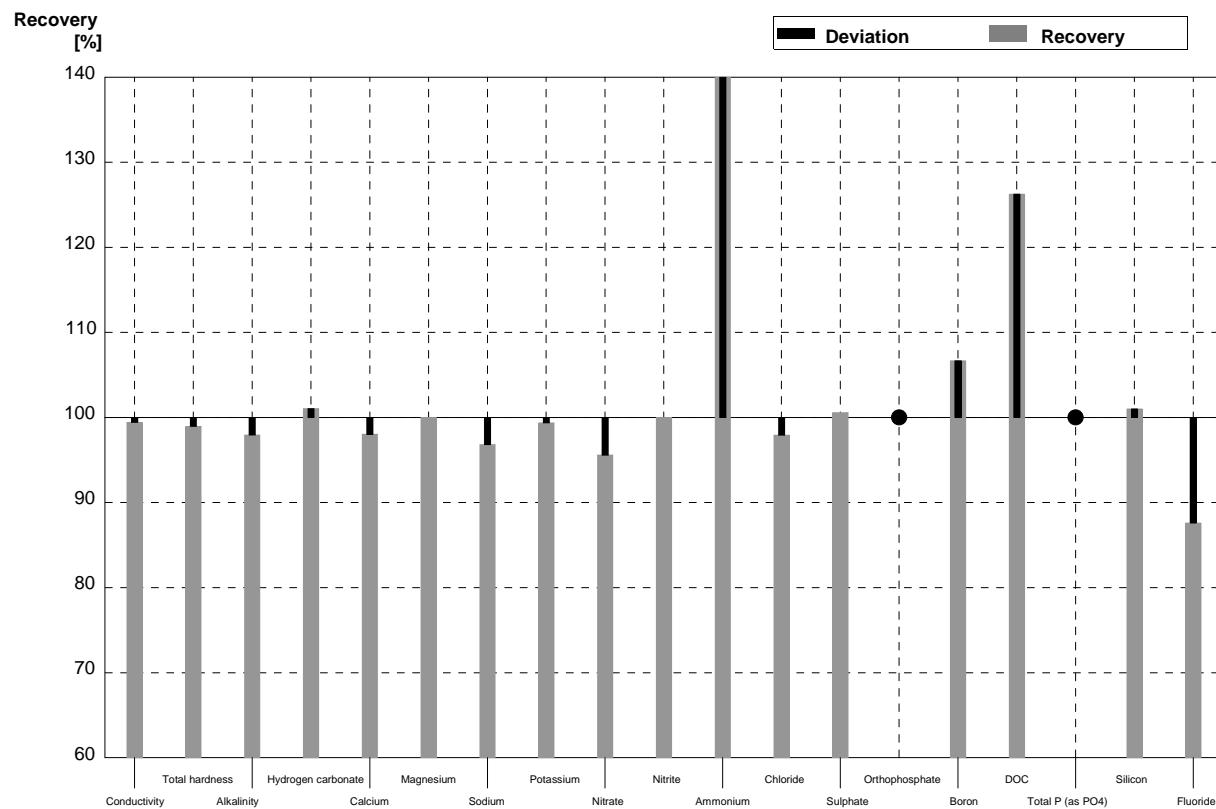
Laboratory F

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1	270	3	µS/cm	100%
Total hardness	0,560	0,006			mmol/l	
Alkalinity	1,37	0,01	1,35	0,05	mmol/l	99%
Hydrogen carbonate	80,4	0,7			mg/l	
Calcium	16,3	0,2			mg/l	
Magnesium	3,73	0,05			mg/l	
Sodium	32,6	0,2			mg/l	
Potassium	2,93	0,02			mg/l	
Nitrate	16,6	0,3			mg/l	
Nitrite	0,0091	0,0002	<0,015	0,003	mg/l	•
Ammonium	<0,01		<0,03	0,01	mg/l	•
Chloride	11,5	0,1			mg/l	
Sulphate	28,9	0,2			mg/l	
Orthophosphate	0,160	0,002	0,155	0,003	mg/l	97%
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04			mg/l	
Total P (as PO4)	0,070	0,001	0,068	0,003	mg/l	97%
Silicon	2,99	0,07	3,1	0,05	mg/l	104%
Fluoride	1,51	0,01			mg/l	



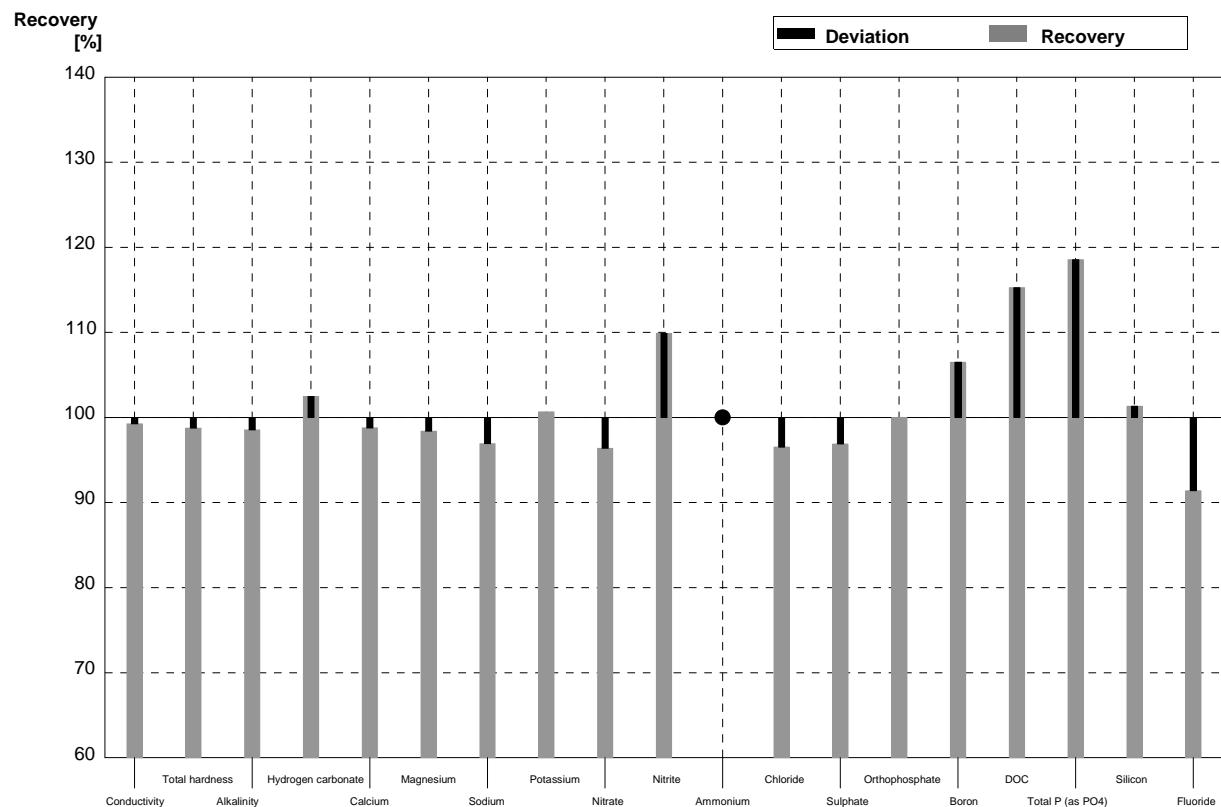
Sample N146A**Laboratory G**

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Conductivity	526	1	523	13	$\mu\text{S}/\text{cm}$	99%
Total hardness	1,90	0,02	1,88	0,2	mmol/l	99%
Alkalinity	1,46	0,02	1,43	0,08	mmol/l	98%
Hydrogen carbonate	86,3	1,4	87,2	5	mg/l	101%
Calcium	50,8	0,6	49,8	3	mg/l	98%
Magnesium	15,4	0,2	15,4	2	mg/l	100%
Sodium	25,2	0,3	24,4	2	mg/l	97%
Potassium	4,86	0,03	4,83	0,3	mg/l	99%
Nitrate	54,3	0,9	51,9	6	mg/l	96%
Nitrite	0,032	0,001	0,032	0,003	mg/l	100%
Ammonium	0,028	0,004	0,062	0,006	mg/l	221%
Chloride	43,3	0,6	42,4	5	mg/l	98%
Sulphate	70,5	0,4	70,9	8	mg/l	101%
Orthophosphate	<0,009		<0,02	0,002	mg/l	•
Boron	0,045	0,001	0,0480	0,005	mg/l	107%
DOC	1,18	0,04	1,49	0,2	mg/l	126%
Total P (as PO ₄)	<0,009		<0,03	0,003	mg/l	•
Silicon	1,00	0,02	1,01	0,1	mg/l	101%
Fluoride	0,605	0,004	0,53	0,05	mg/l	88%



Sample N146B**Laboratory G**

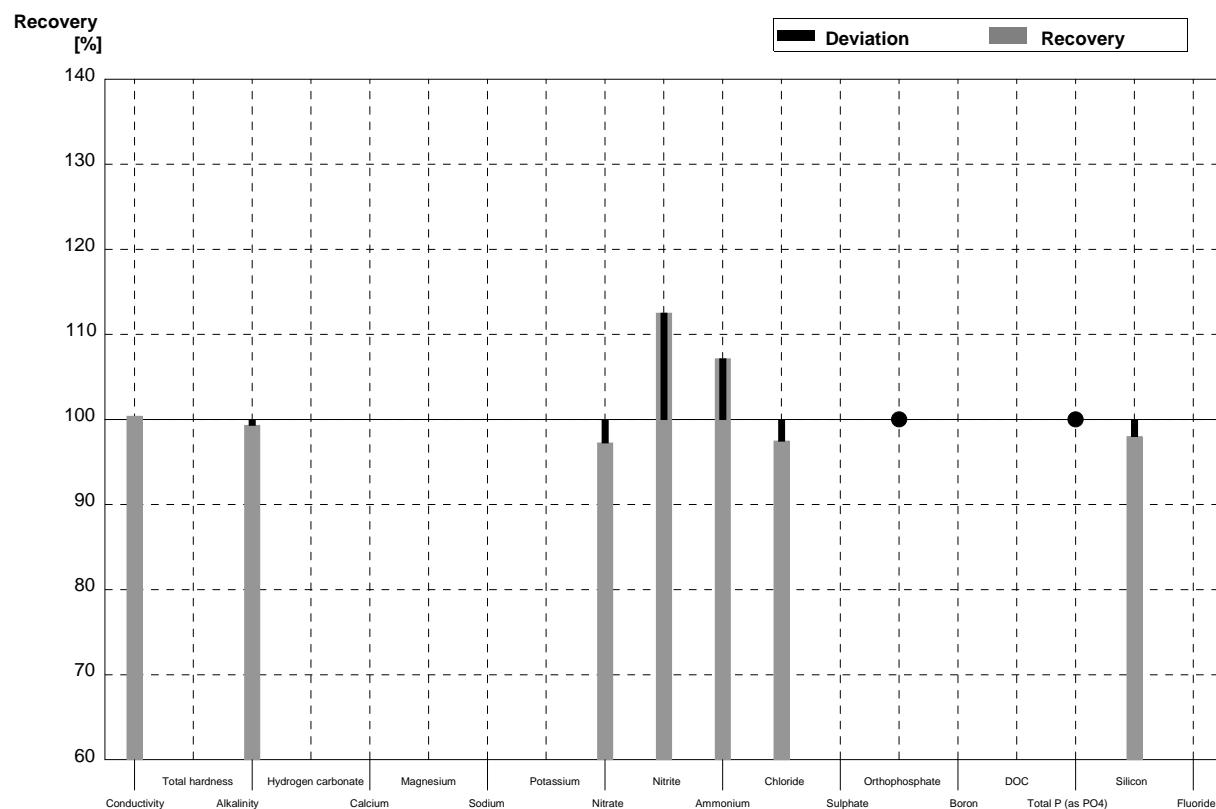
Parameter	Target value	$\pm U$ (k=2)	Result	\pm	Unit	Recovery
Conductivity	270	1	268	7	$\mu\text{S}/\text{cm}$	99%
Total hardness	0,560	0,006	0,553	0,06	mmol/l	99%
Alkalinity	1,37	0,01	1,35	0,08	mmol/l	99%
Hydrogen carbonate	80,4	0,7	82,4	5	mg/l	102%
Calcium	16,3	0,2	16,1	1	mg/l	99%
Magnesium	3,73	0,05	3,67	0,4	mg/l	98%
Sodium	32,6	0,2	31,6	2	mg/l	97%
Potassium	2,93	0,02	2,95	0,2	mg/l	101%
Nitrate	16,6	0,3	16,0	2	mg/l	96%
Nitrite	0,0091	0,0002	0,010	0,001	mg/l	110%
Ammonium	<0,01		<0,03	0,003	mg/l	•
Chloride	11,5	0,1	11,1	1	mg/l	97%
Sulphate	28,9	0,2	28,0	3	mg/l	97%
Orthophosphate	0,160	0,002	0,160	0,02	mg/l	100%
Boron	0,185	0,001	0,197	0,02	mg/l	106%
DOC	2,16	0,04	2,49	0,3	mg/l	115%
Total P (as PO ₄)	0,070	0,001	0,083	0,008	mg/l	119%
Silicon	2,99	0,07	3,03	0,3	mg/l	101%
Fluoride	1,51	0,01	1,38	0,1	mg/l	91%



Sample N146A

Laboratory H

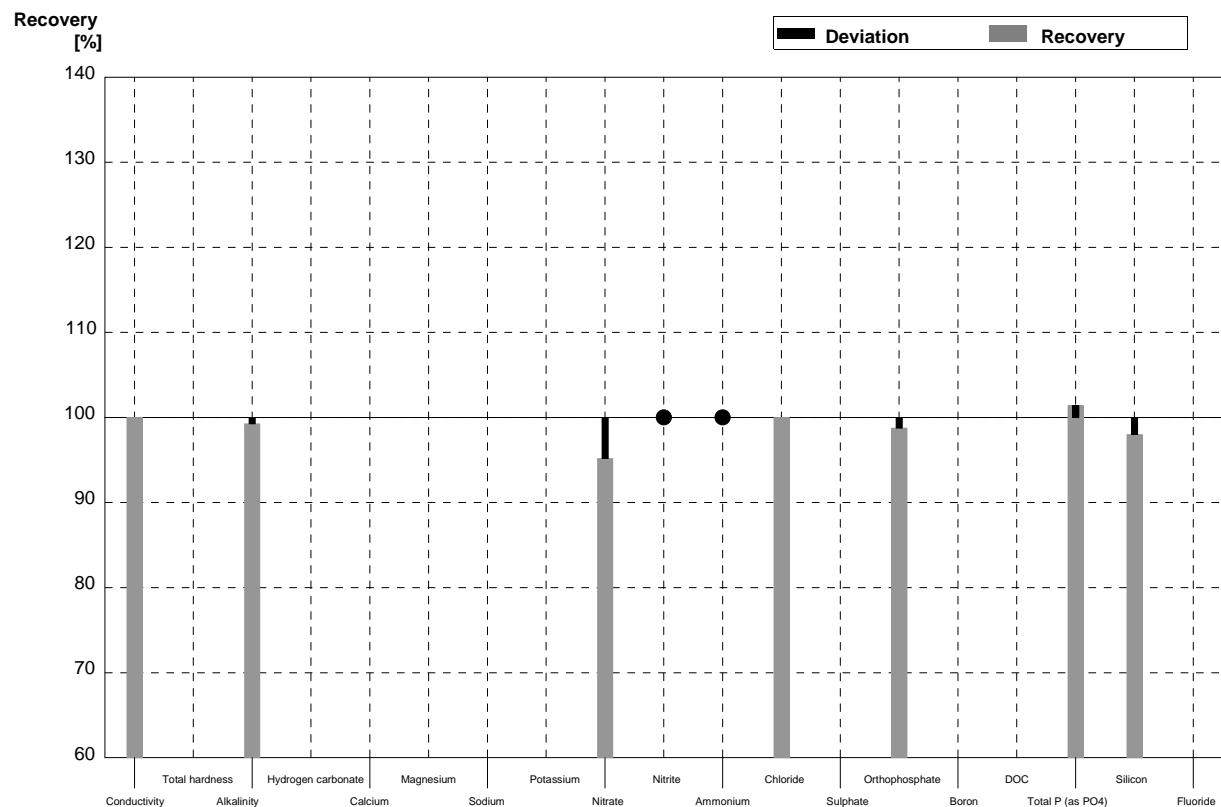
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	526	1	528	5	µS/cm	100%
Total hardness	1,90	0,02			mmol/l	
Alkalinity	1,46	0,02	1,45	0,05	mmol/l	99%
Hydrogen carbonate	86,3	1,4			mg/l	
Calcium	50,8	0,6			mg/l	
Magnesium	15,4	0,2			mg/l	
Sodium	25,2	0,3			mg/l	
Potassium	4,86	0,03			mg/l	
Nitrate	54,3	0,9	52,8	0,8	mg/l	97%
Nitrite	0,032	0,001	0,036	0,004	mg/l	113%
Ammonium	0,028	0,004	0,03	0,01	mg/l	107%
Chloride	43,3	0,6	42,2	3	mg/l	97%
Sulphate	70,5	0,4			mg/l	
Orthophosphate	<0,009		<0,015		mg/l	•
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04			mg/l	
Total P (as PO ₄)	<0,009		<0,015		mg/l	•
Silicon	1,00	0,02	0,98	0,05	mg/l	98%
Fluoride	0,605	0,004			mg/l	



Sample N146B

Laboratory H

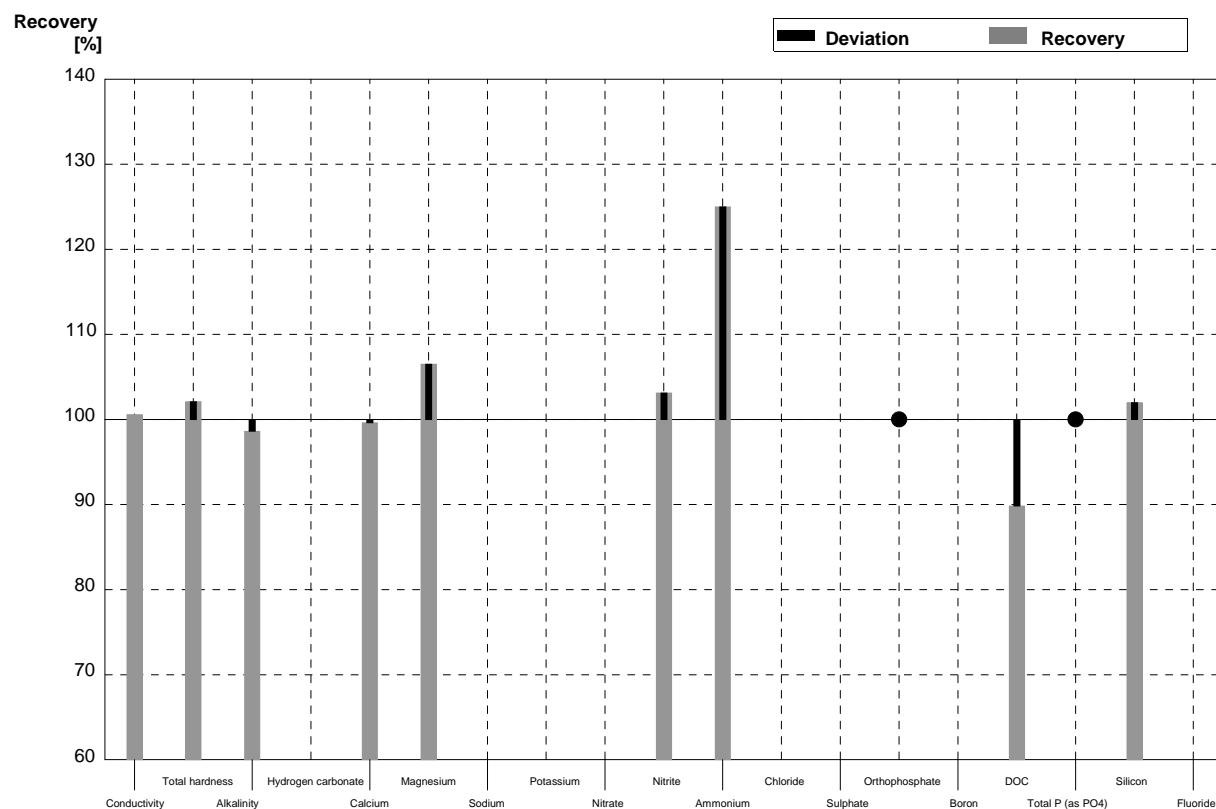
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1	270	5	µS/cm	100%
Total hardness	0,560	0,006			mmol/l	
Alkalinity	1,37	0,01	1,36	0,05	mmol/l	99%
Hydrogen carbonate	80,4	0,7			mg/l	
Calcium	16,3	0,2			mg/l	
Magnesium	3,73	0,05			mg/l	
Sodium	32,6	0,2			mg/l	
Potassium	2,93	0,02			mg/l	
Nitrate	16,6	0,3	15,8	0,4	mg/l	95%
Nitrite	0,0091	0,0002	<0,016		mg/l	•
Ammonium	<0,01		<0,03		mg/l	•
Chloride	11,5	0,1	11,5	1	mg/l	100%
Sulphate	28,9	0,2			mg/l	
Orthophosphate	0,160	0,002	0,158	0,005	mg/l	99%
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04			mg/l	
Total P (as PO4)	0,070	0,001	0,071	0,005	mg/l	101%
Silicon	2,99	0,07	2,93	0,1	mg/l	98%
Fluoride	1,51	0,01			mg/l	



Sample N146A

Laboratory I

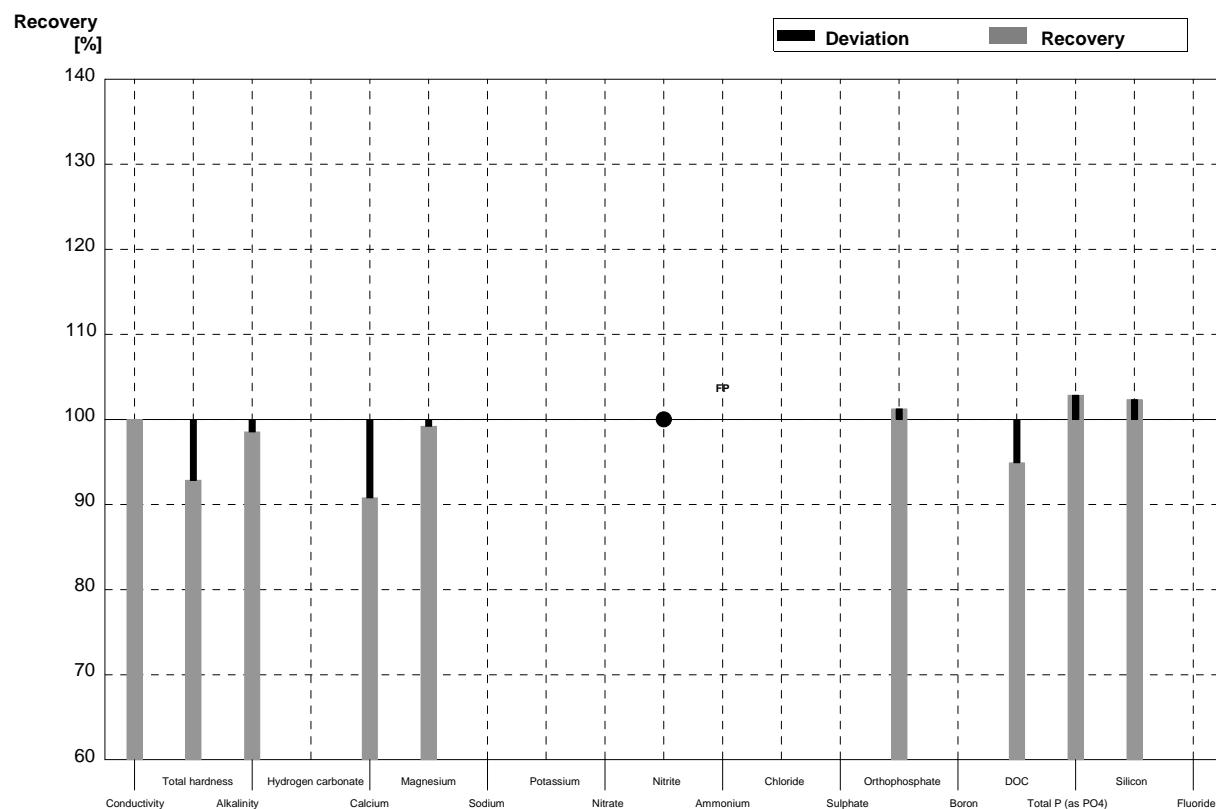
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	526	1	529		µS/cm	101%
Total hardness	1,90	0,02	1,94		mmol/l	102%
Alkalinity	1,46	0,02	1,44		mmol/l	99%
Hydrogen carbonate	86,3	1,4			mg/l	
Calcium	50,8	0,6	50,6		mg/l	100%
Magnesium	15,4	0,2	16,4		mg/l	106%
Sodium	25,2	0,3			mg/l	
Potassium	4,86	0,03			mg/l	
Nitrate	54,3	0,9			mg/l	
Nitrite	0,032	0,001	0,033		mg/l	103%
Ammonium	0,028	0,004	0,035		mg/l	125%
Chloride	43,3	0,6			mg/l	
Sulphate	70,5	0,4			mg/l	
Orthophosphate	<0,009		<0,02		mg/l	•
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04	1,06		mg/l	90%
Total P (as PO4)	<0,009		<0,02		mg/l	•
Silicon	1,00	0,02	1,02		mg/l	102%
Fluoride	0,605	0,004			mg/l	



Sample N146B

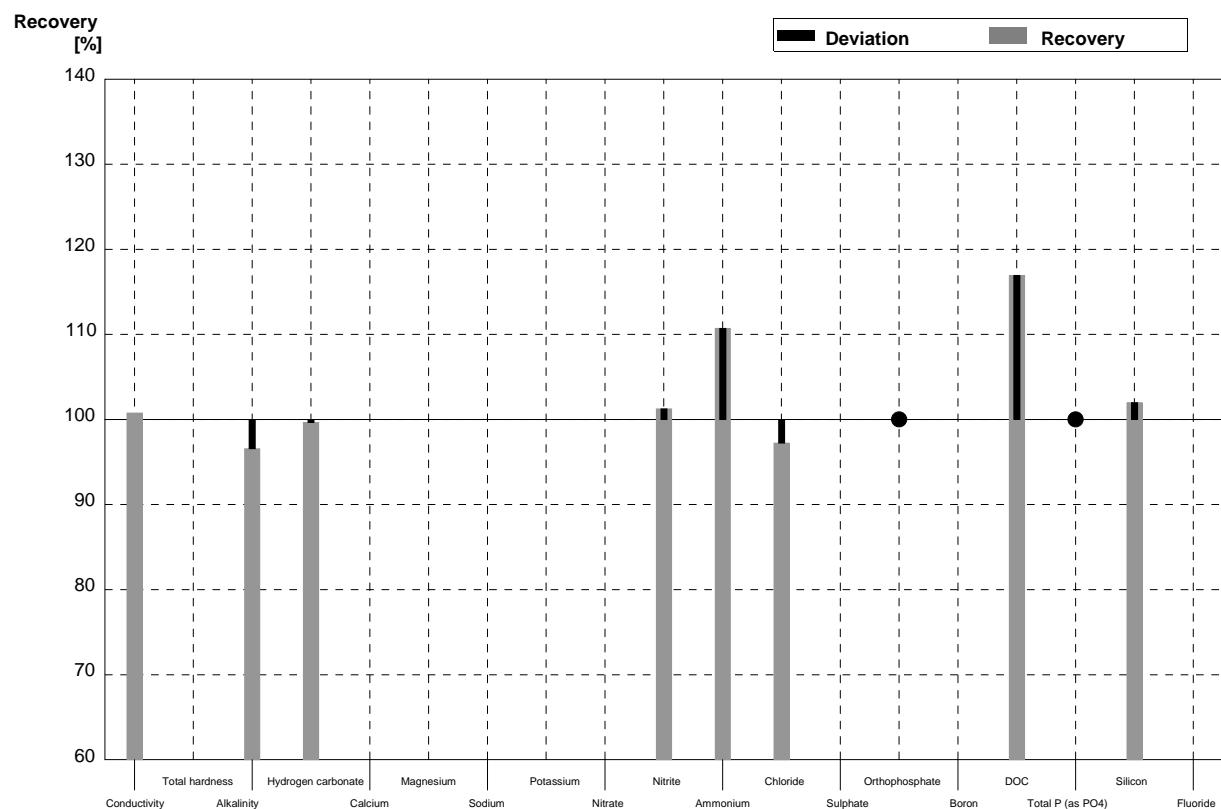
Laboratory I

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1	270		µS/cm	100%
Total hardness	0,560	0,006	0,52		mmol/l	93%
Alkalinity	1,37	0,01	1,35		mmol/l	99%
Hydrogen carbonate	80,4	0,7			mg/l	
Calcium	16,3	0,2	14,8		mg/l	91%
Magnesium	3,73	0,05	3,7		mg/l	99%
Sodium	32,6	0,2			mg/l	
Potassium	2,93	0,02			mg/l	
Nitrate	16,6	0,3			mg/l	
Nitrite	0,0091	0,0002	<0,02		mg/l	•
Ammonium	<0,01		0,016		mg/l	FP
Chloride	11,5	0,1			mg/l	
Sulphate	28,9	0,2			mg/l	
Orthophosphate	0,160	0,002	0,162		mg/l	101%
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04	2,05		mg/l	95%
Total P (as PO4)	0,070	0,001	0,072		mg/l	103%
Silicon	2,99	0,07	3,06		mg/l	102%
Fluoride	1,51	0,01			mg/l	



Sample N146A**Laboratory J**

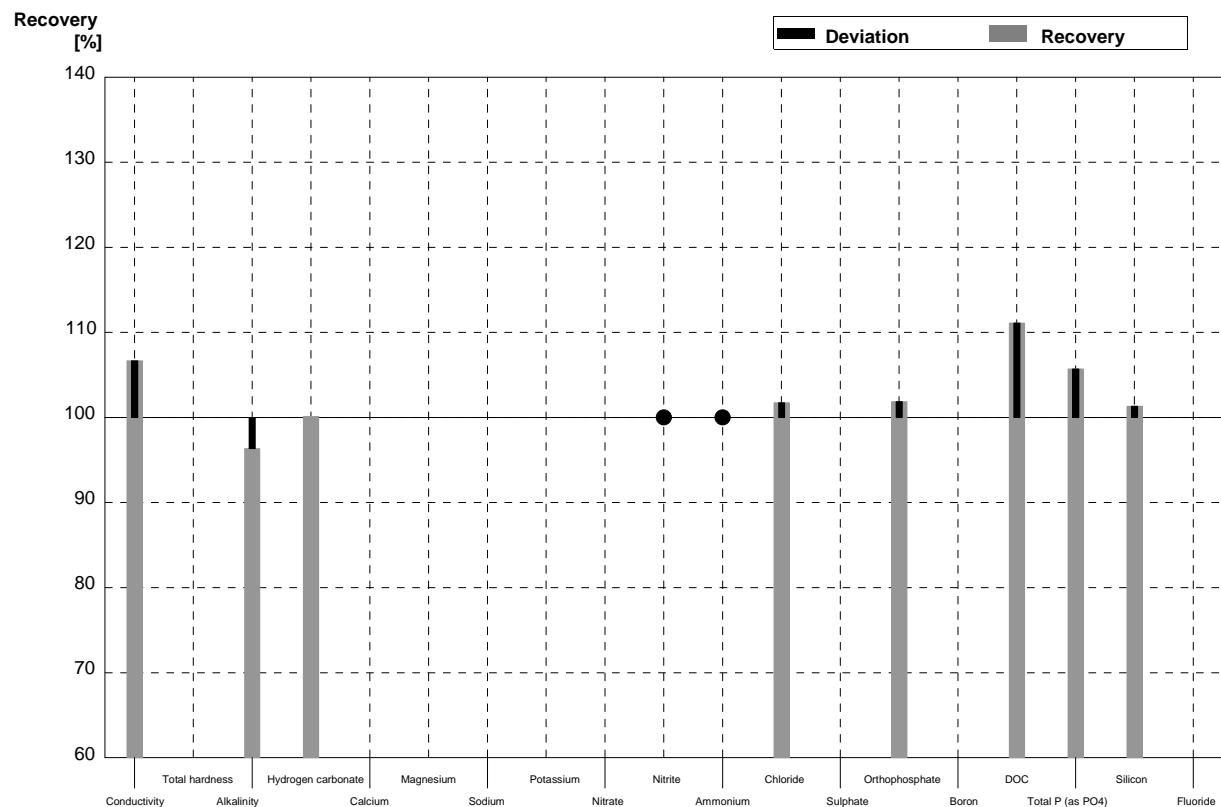
Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Conductivity	526	1	530		$\mu\text{S}/\text{cm}$	101%
Total hardness	1,90	0,02			mmol/l	
Alkalinity	1,46	0,02	1,41		mmol/l	97%
Hydrogen carbonate	86,3	1,4	86,0		mg/l	100%
Calcium	50,8	0,6			mg/l	
Magnesium	15,4	0,2			mg/l	
Sodium	25,2	0,3			mg/l	
Potassium	4,86	0,03			mg/l	
Nitrate	54,3	0,9			mg/l	
Nitrite	0,032	0,001	0,0324		mg/l	101%
Ammonium	0,028	0,004	0,031		mg/l	111%
Chloride	43,3	0,6	42,1		mg/l	97%
Sulphate	70,5	0,4			mg/l	
Orthophosphate	<0,009		<0,02		mg/l	•
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04	1,38		mg/l	117%
Total P (as PO ₄)	<0,009		<0,02		mg/l	•
Silicon	1,00	0,02	1,02		mg/l	102%
Fluoride	0,605	0,004			mg/l	



Sample N146B

Laboratory J

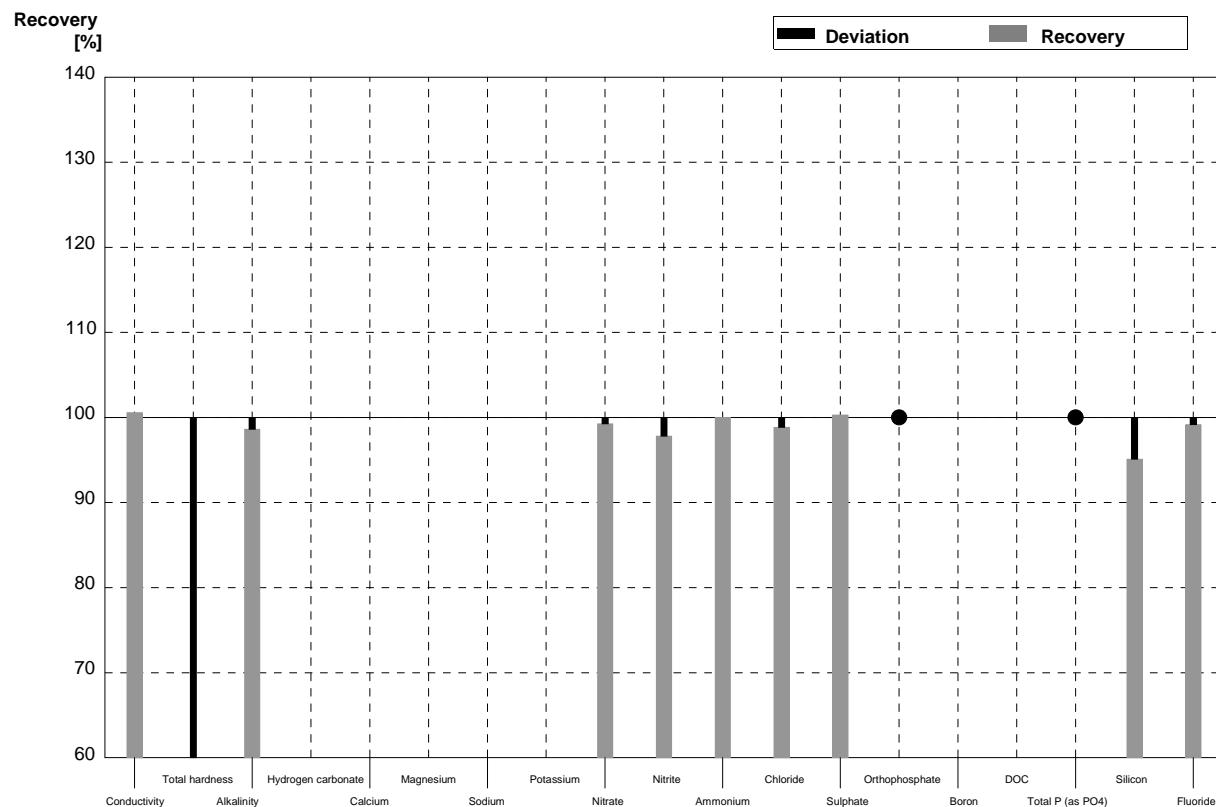
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1	288		µS/cm	107%
Total hardness	0,560	0,006			mmol/l	
Alkalinity	1,37	0,01	1,32		mmol/l	96%
Hydrogen carbonate	80,4	0,7	80,5		mg/l	100%
Calcium	16,3	0,2			mg/l	
Magnesium	3,73	0,05			mg/l	
Sodium	32,6	0,2			mg/l	
Potassium	2,93	0,02			mg/l	
Nitrate	16,6	0,3			mg/l	
Nitrite	0,0091	0,0002	<0,02		mg/l	•
Ammonium	<0,01		<0,02		mg/l	•
Chloride	11,5	0,1	11,7		mg/l	102%
Sulphate	28,9	0,2			mg/l	
Orthophosphate	0,160	0,002	0,163		mg/l	102%
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04	2,40		mg/l	111%
Total P (as PO ₄)	0,070	0,001	0,074		mg/l	106%
Silicon	2,99	0,07	3,03		mg/l	101%
Fluoride	1,51	0,01			mg/l	



Sample N146A

Laboratory K

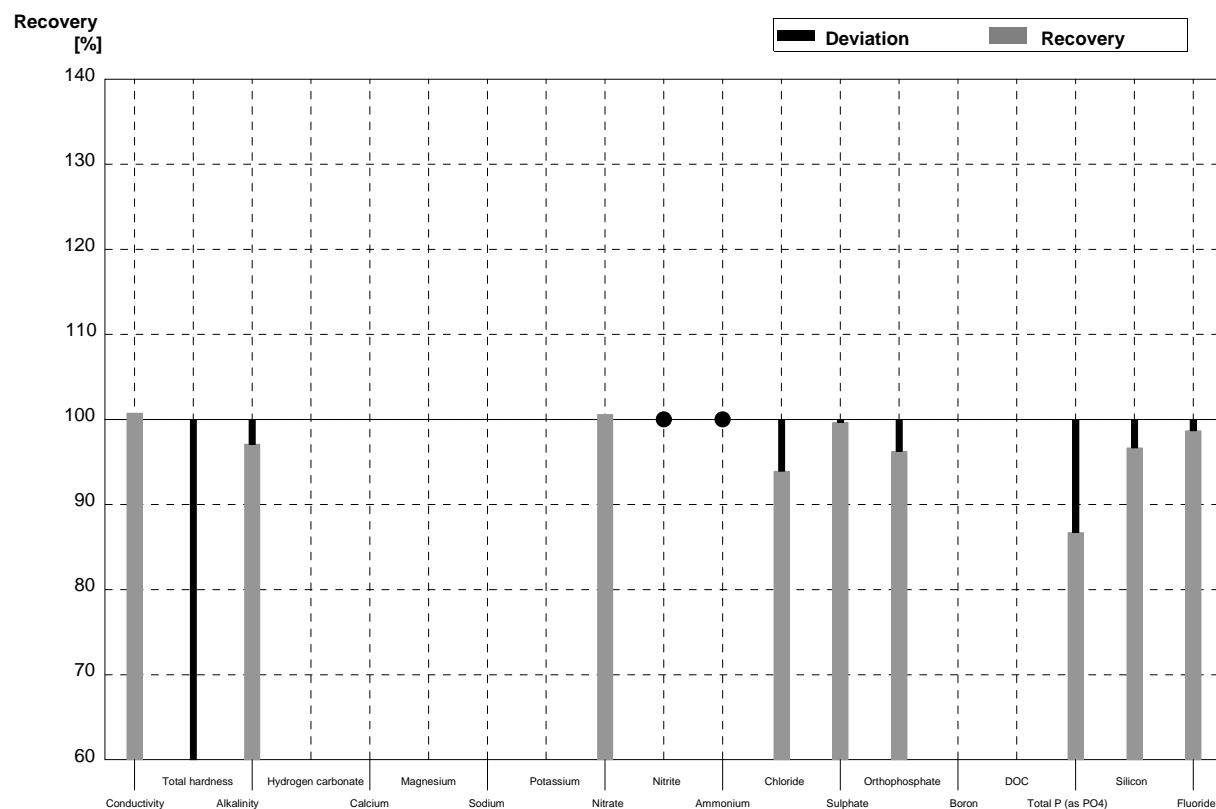
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	526	1	529		µS/cm	101%
Total hardness	1,90	0,02	0,9		mmol/l	47%
Alkalinity	1,46	0,02	1,44		mmol/l	99%
Hydrogen carbonate	86,3	1,4			mg/l	
Calcium	50,8	0,6			mg/l	
Magnesium	15,4	0,2			mg/l	
Sodium	25,2	0,3			mg/l	
Potassium	4,86	0,03			mg/l	
Nitrate	54,3	0,9	53,9		mg/l	99%
Nitrite	0,032	0,001	0,0313		mg/l	98%
Ammonium	0,028	0,004	0,028		mg/l	100%
Chloride	43,3	0,6	42,8		mg/l	99%
Sulphate	70,5	0,4	70,7		mg/l	100%
Orthophosphate	<0,009		<0,015		mg/l	•
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04			mg/l	
Total P (as PO ₄)	<0,009		<0,0153		mg/l	•
Silicon	1,00	0,02	0,951		mg/l	95%
Fluoride	0,605	0,004	0,60		mg/l	99%



Sample N146B

Laboratory K

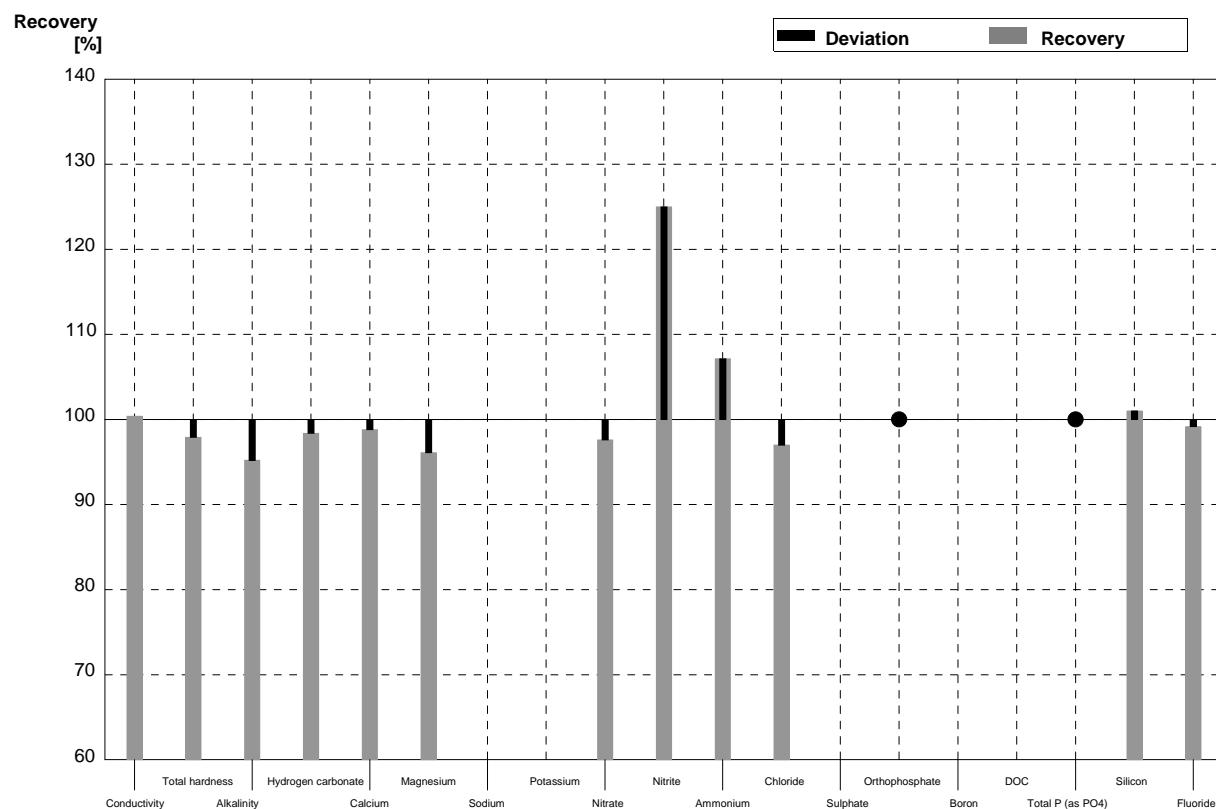
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1	272		µS/cm	101%
Total hardness	0,560	0,006	0,3		mmol/l	54%
Alkalinity	1,37	0,01	1,33		mmol/l	97%
Hydrogen carbonate	80,4	0,7			mg/l	
Calcium	16,3	0,2			mg/l	
Magnesium	3,73	0,05			mg/l	
Sodium	32,6	0,2			mg/l	
Potassium	2,93	0,02			mg/l	
Nitrate	16,6	0,3	16,7		mg/l	101%
Nitrite	0,0091	0,0002	<0,0164		mg/l	•
Ammonium	<0,01		<0,025		mg/l	•
Chloride	11,5	0,1	10,8		mg/l	94%
Sulphate	28,9	0,2	28,8		mg/l	100%
Orthophosphate	0,160	0,002	0,154		mg/l	96%
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04			mg/l	
Total P (as PO4)	0,070	0,001	0,0607		mg/l	87%
Silicon	2,99	0,07	2,89		mg/l	97%
Fluoride	1,51	0,01	1,49		mg/l	99%



Sample N146A

Laboratory L

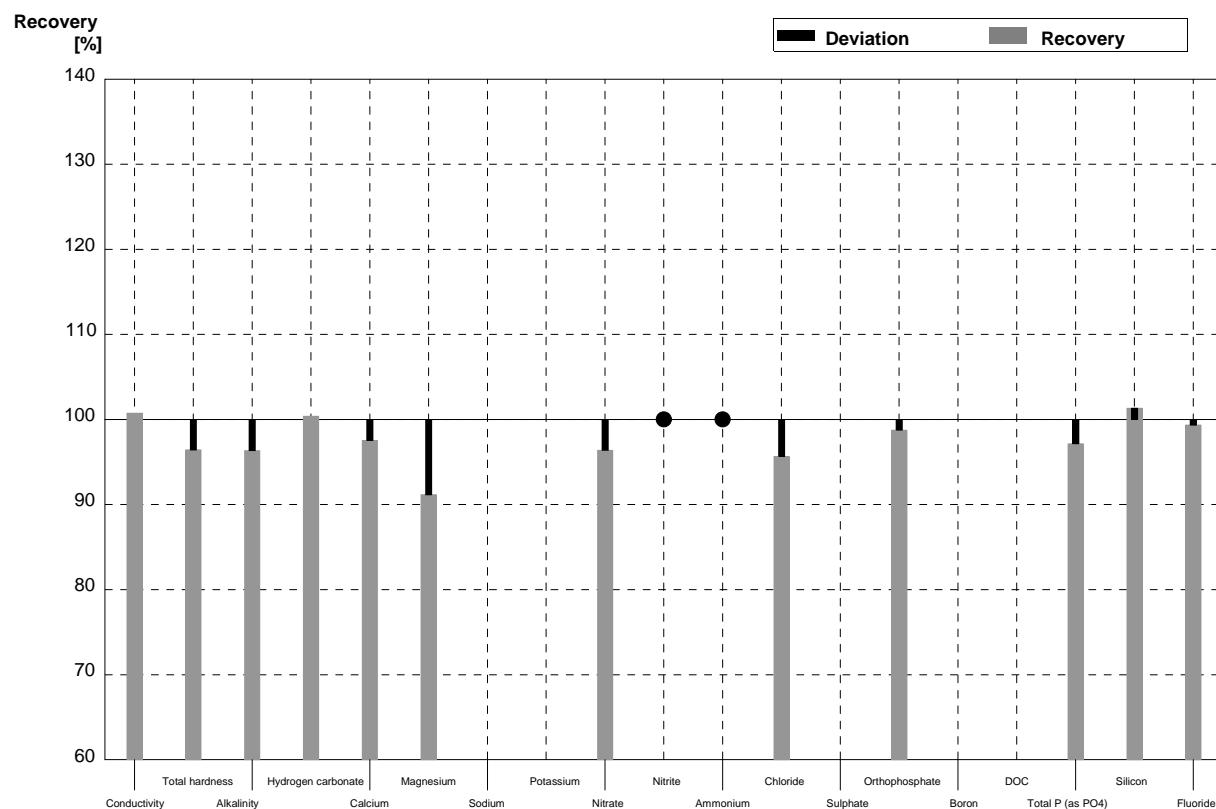
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	526	1	528	5	µS/cm	100%
Total hardness	1,90	0,02	1,86	0,05	mmol/l	98%
Alkalinity	1,46	0,02	1,39	0,1	mmol/l	95%
Hydrogen carbonate	86,3	1,4	84,9	5	mg/l	98%
Calcium	50,8	0,6	50,2	1	mg/l	99%
Magnesium	15,4	0,2	14,8	1	mg/l	96%
Sodium	25,2	0,3			mg/l	
Potassium	4,86	0,03			mg/l	
Nitrate	54,3	0,9	53	2	mg/l	98%
Nitrite	0,032	0,001	0,04	0,05	mg/l	125%
Ammonium	0,028	0,004	0,03	0,02	mg/l	107%
Chloride	43,3	0,6	42	2	mg/l	97%
Sulphate	70,5	0,4			mg/l	
Orthophosphate	<0,009		<0,015	0,01	mg/l	•
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04			mg/l	
Total P (as PO4)	<0,009		<0,015	0,01	mg/l	•
Silicon	1,00	0,02	1,01	0,1	mg/l	101%
Fluoride	0,605	0,004	0,6	0,2	mg/l	99%



Sample N146B

Laboratory L

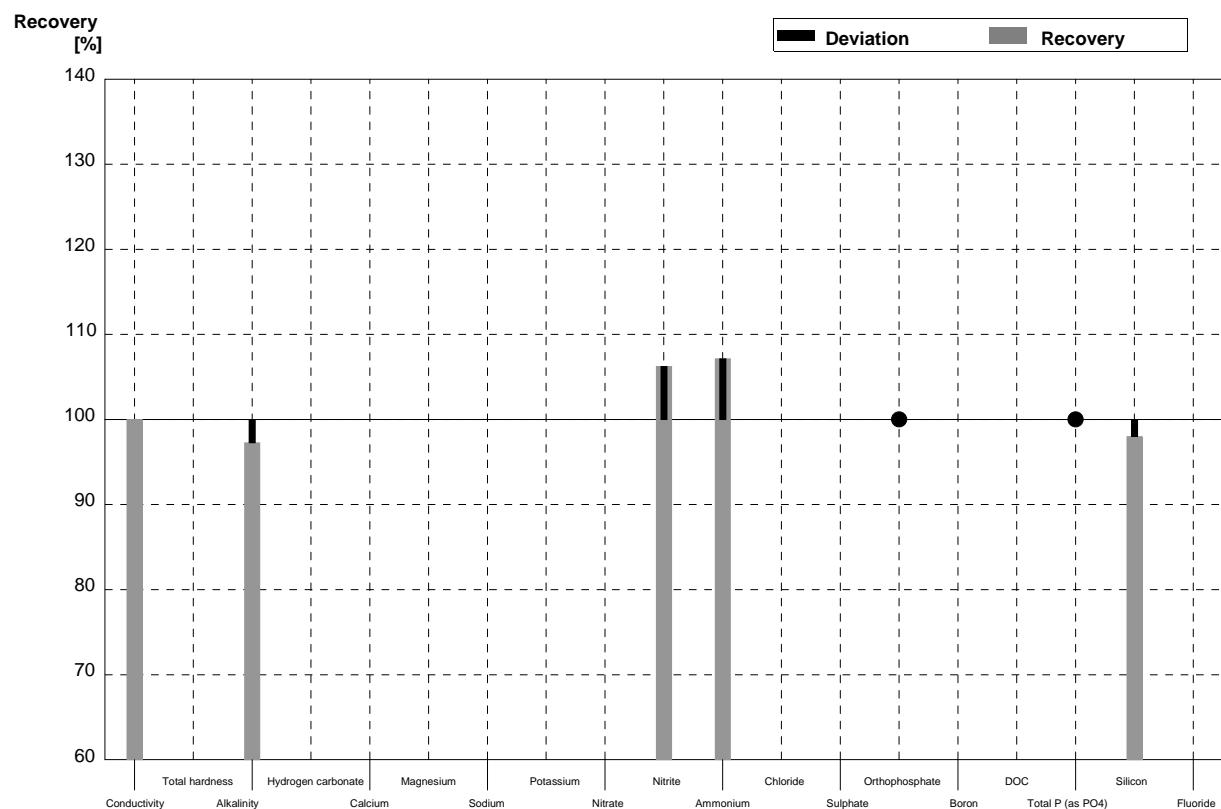
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1	272	5	µS/cm	101%
Total hardness	0,560	0,006	0,54	0,05	mmol/l	96%
Alkalinity	1,37	0,01	1,32	0,1	mmol/l	96%
Hydrogen carbonate	80,4	0,7	80,7	5	mg/l	100%
Calcium	16,3	0,2	15,9	1	mg/l	98%
Magnesium	3,73	0,05	3,4	1	mg/l	91%
Sodium	32,6	0,2			mg/l	
Potassium	2,93	0,02			mg/l	
Nitrate	16,6	0,3	16	2	mg/l	96%
Nitrite	0,0091	0,0002	<0,02	0,05	mg/l	•
Ammonium	<0,01		<0,02	0,02	mg/l	•
Chloride	11,5	0,1	11	2	mg/l	96%
Sulphate	28,9	0,2			mg/l	
Orthophosphate	0,160	0,002	0,158	0,01	mg/l	99%
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04			mg/l	
Total P (as PO4)	0,070	0,001	0,068	0,01	mg/l	97%
Silicon	2,99	0,07	3,03	0,1	mg/l	101%
Fluoride	1,51	0,01	1,5	0,2	mg/l	99%



Sample N146A

Laboratory M

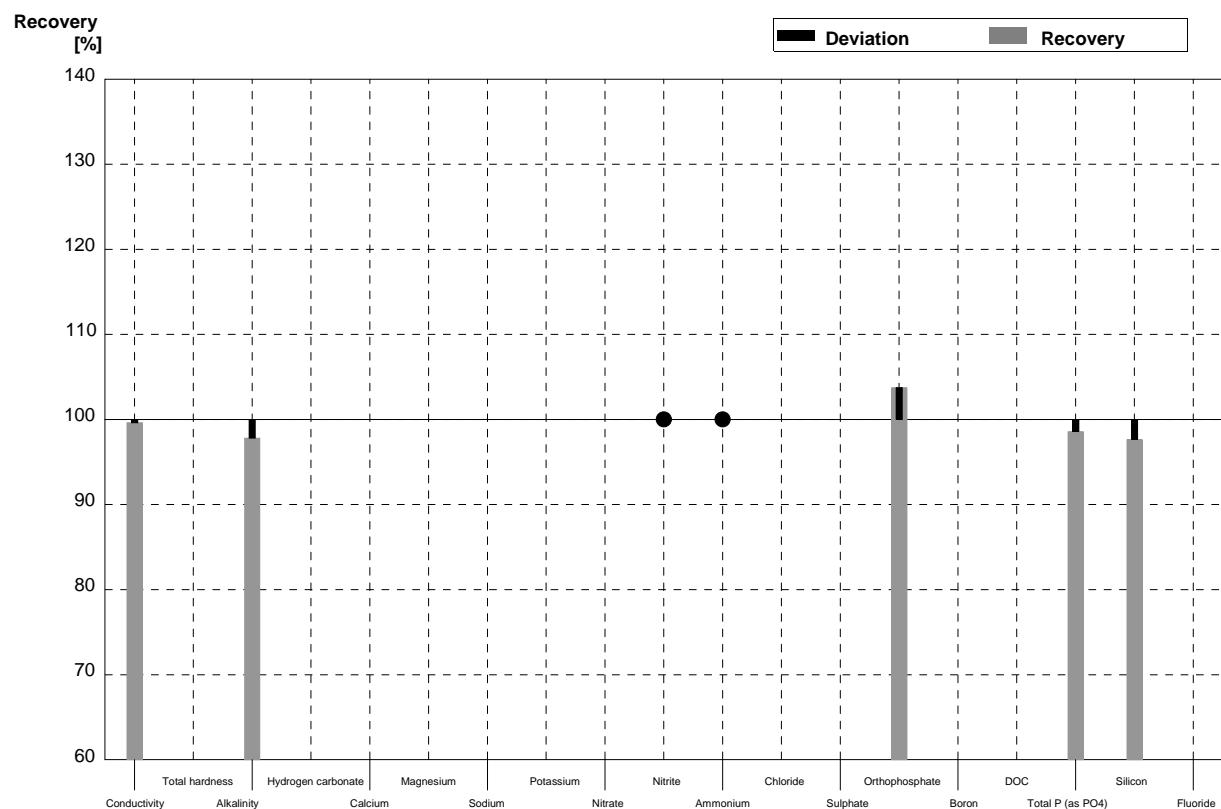
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	526	1	526		µS/cm	100%
Total hardness	1,90	0,02			mmol/l	
Alkalinity	1,46	0,02	1,42		mmol/l	97%
Hydrogen carbonate	86,3	1,4			mg/l	
Calcium	50,8	0,6			mg/l	
Magnesium	15,4	0,2			mg/l	
Sodium	25,2	0,3			mg/l	
Potassium	4,86	0,03			mg/l	
Nitrate	54,3	0,9			mg/l	
Nitrite	0,032	0,001	0,034		mg/l	106%
Ammonium	0,028	0,004	0,03		mg/l	107%
Chloride	43,3	0,6			mg/l	
Sulphate	70,5	0,4			mg/l	
Orthophosphate	<0,009		<0,02		mg/l	•
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04			mg/l	
Total P (as PO4)	<0,009		<0,02		mg/l	•
Silicon	1,00	0,02	0,98		mg/l	98%
Fluoride	0,605	0,004			mg/l	



Sample N146B

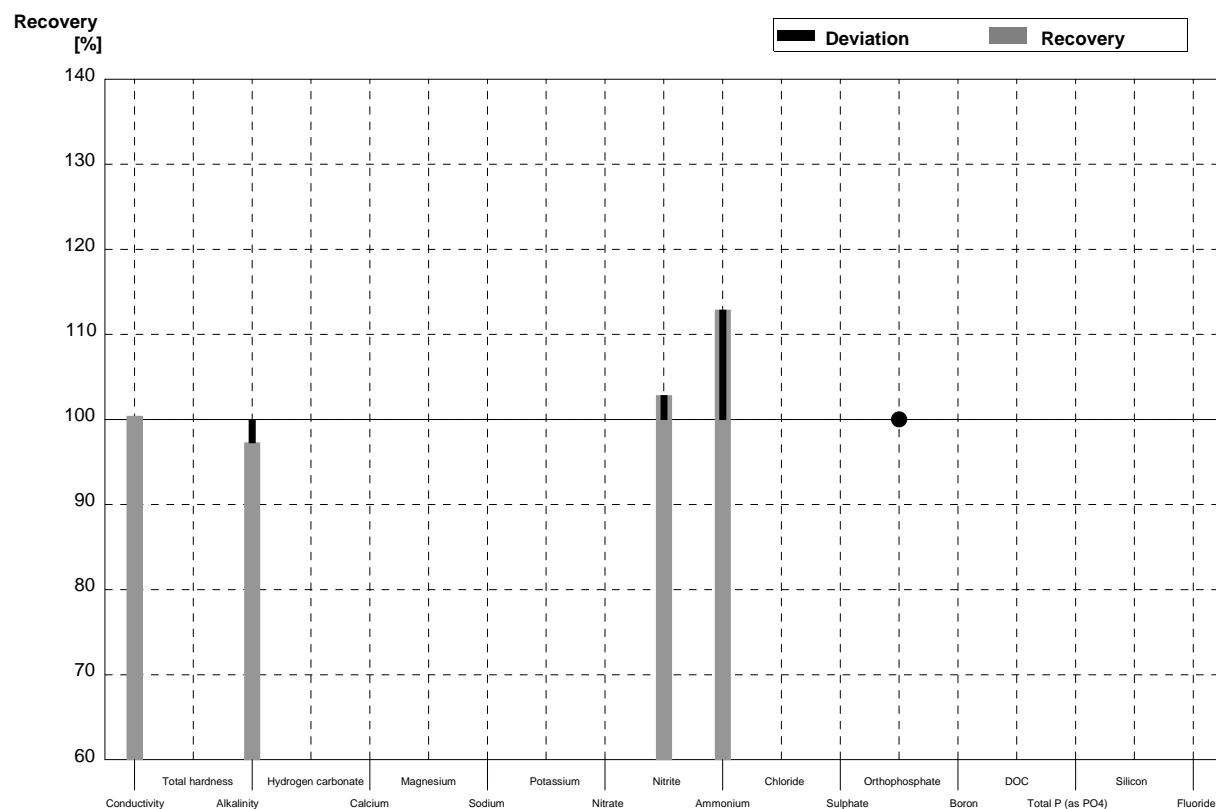
Laboratory M

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1	269		µS/cm	100%
Total hardness	0,560	0,006			mmol/l	
Alkalinity	1,37	0,01	1,34		mmol/l	98%
Hydrogen carbonate	80,4	0,7			mg/l	
Calcium	16,3	0,2			mg/l	
Magnesium	3,73	0,05			mg/l	
Sodium	32,6	0,2			mg/l	
Potassium	2,93	0,02			mg/l	
Nitrate	16,6	0,3			mg/l	
Nitrite	0,0091	0,0002	<0,02		mg/l	•
Ammonium	<0,01		<0,03		mg/l	•
Chloride	11,5	0,1			mg/l	
Sulphate	28,9	0,2			mg/l	
Orthophosphate	0,160	0,002	0,166		mg/l	104%
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04			mg/l	
Total P (as PO ₄)	0,070	0,001	0,069		mg/l	99%
Silicon	2,99	0,07	2,92		mg/l	98%
Fluoride	1,51	0,01			mg/l	



Sample N146A**Laboratory N**

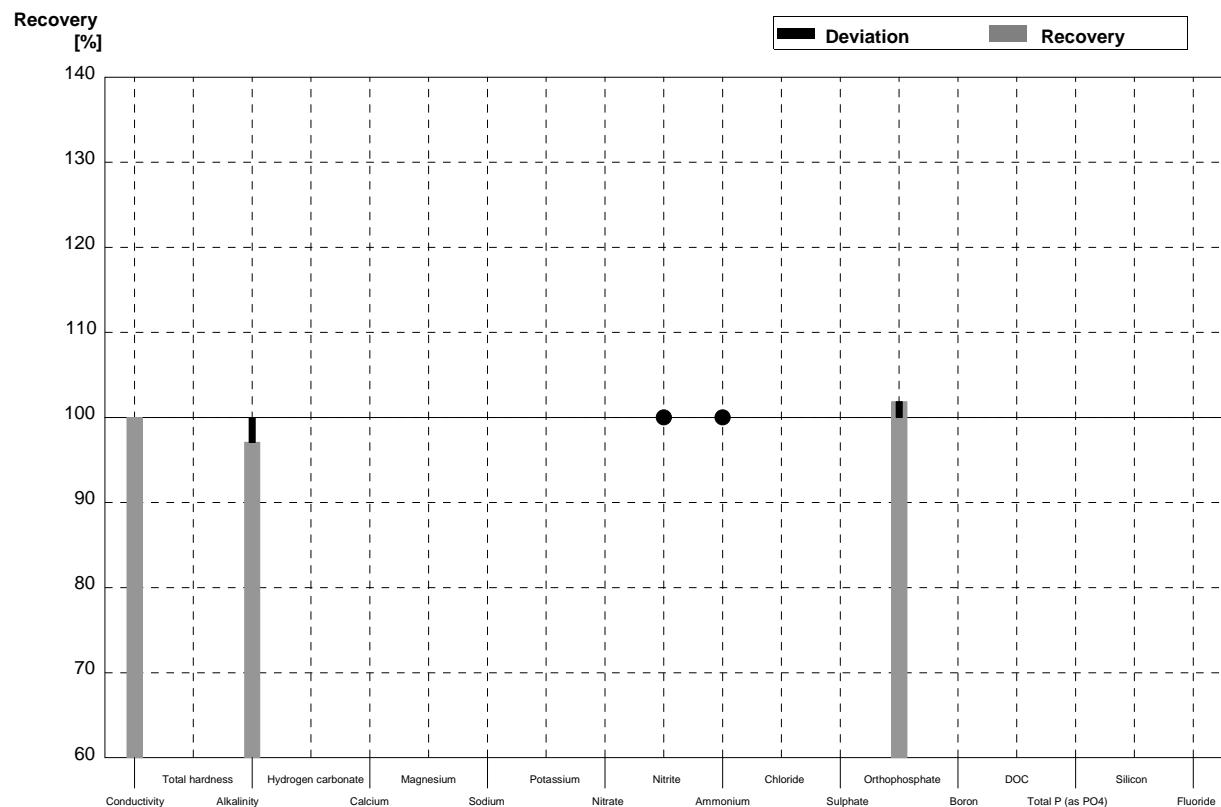
Parameter	Target value	$\pm U$ ($k=2$)	Result	\pm	Unit	Recovery
Conductivity	526	1	528	5	$\mu\text{S}/\text{cm}$	100%
Total hardness	1,90	0,02			mmol/l	
Alkalinity	1,46	0,02	1,42	0,1	mmol/l	97%
Hydrogen carbonate	86,3	1,4			mg/l	
Calcium	50,8	0,6			mg/l	
Magnesium	15,4	0,2			mg/l	
Sodium	25,2	0,3			mg/l	
Potassium	4,86	0,03			mg/l	
Nitrate	54,3	0,9			mg/l	
Nitrite	0,032	0,001	0,0329	0,005	mg/l	103%
Ammonium	0,028	0,004	0,0316	0,005	mg/l	113%
Chloride	43,3	0,6			mg/l	
Sulphate	70,5	0,4			mg/l	
Orthophosphate	<0,009		<0,02	0,005	mg/l	•
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04			mg/l	
Total P (as PO ₄)	<0,009				mg/l	
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004			mg/l	



Sample N146B

Laboratory N

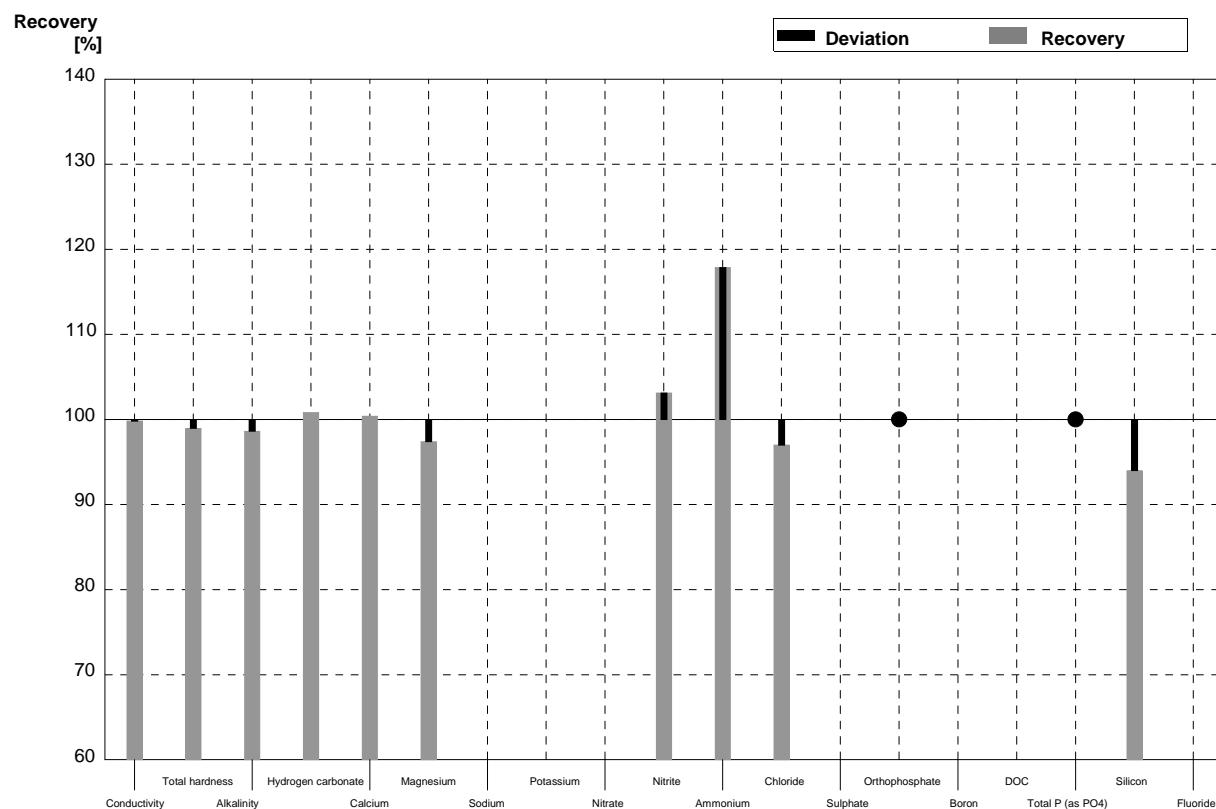
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1	270	5	µS/cm	100%
Total hardness	0,560	0,006			mmol/l	
Alkalinity	1,37	0,01	1,33	0,1	mmol/l	97%
Hydrogen carbonate	80,4	0,7			mg/l	
Calcium	16,3	0,2			mg/l	
Magnesium	3,73	0,05			mg/l	
Sodium	32,6	0,2			mg/l	
Potassium	2,93	0,02			mg/l	
Nitrate	16,6	0,3			mg/l	
Nitrite	0,0091	0,0002	<0,02	0,005	mg/l	•
Ammonium	<0,01		<0,01	0,005	mg/l	•
Chloride	11,5	0,1			mg/l	
Sulphate	28,9	0,2			mg/l	
Orthophosphate	0,160	0,002	0,163	0,005	mg/l	102%
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04			mg/l	
Total P (as PO ₄)	0,070	0,001			mg/l	
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01			mg/l	



Sample N146A

Laboratory O

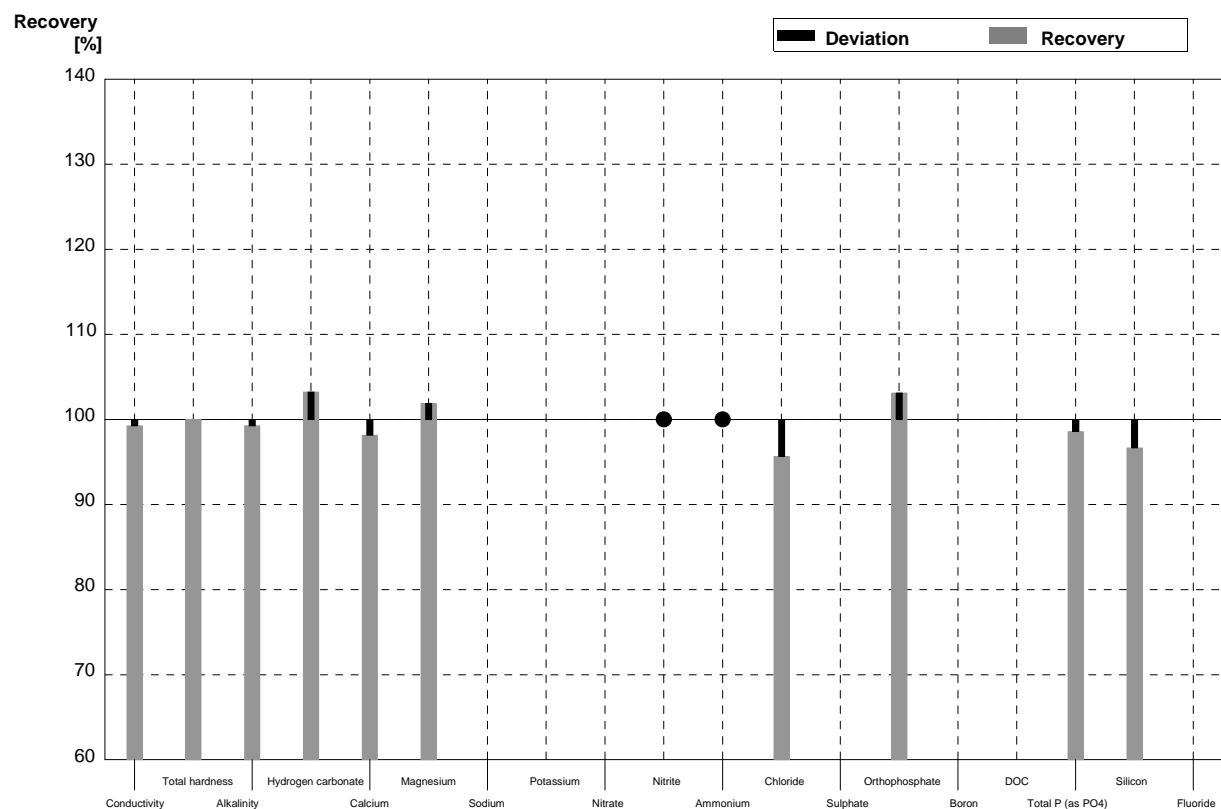
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	526	1	525	10	µS/cm	100%
Total hardness	1,90	0,02	1,88	0,1	mmol/l	99%
Alkalinity	1,46	0,02	1,44	0,05	mmol/l	99%
Hydrogen carbonate	86,3	1,4	87		mg/l	101%
Calcium	50,8	0,6	51	1	mg/l	100%
Magnesium	15,4	0,2	15	0,5	mg/l	97%
Sodium	25,2	0,3			mg/l	
Potassium	4,86	0,03			mg/l	
Nitrate	54,3	0,9			mg/l	
Nitrite	0,032	0,001	0,033	0,005	mg/l	103%
Ammonium	0,028	0,004	0,033	0,005	mg/l	118%
Chloride	43,3	0,6	42	1	mg/l	97%
Sulphate	70,5	0,4			mg/l	
Orthophosphate	<0,009		<0,015		mg/l	•
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04			mg/l	
Total P (as PO4)	<0,009		<0,015		mg/l	•
Silicon	1,00	0,02	0,94	0,1	mg/l	94%
Fluoride	0,605	0,004			mg/l	



Sample N146B

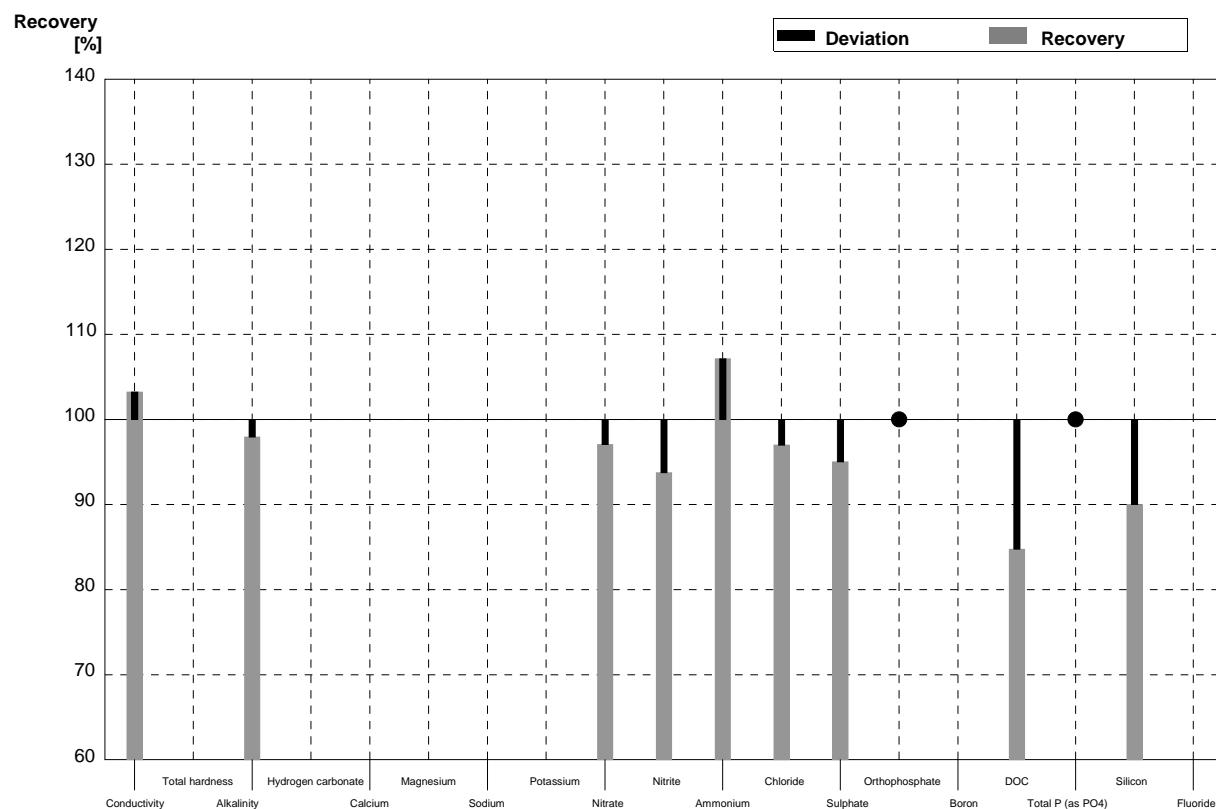
Laboratory O

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1	268	10	µS/cm	99%
Total hardness	0,560	0,006	0,56	0,1	mmol/l	100%
Alkalinity	1,37	0,01	1,36	0,05	mmol/l	99%
Hydrogen carbonate	80,4	0,7	83		mg/l	103%
Calcium	16,3	0,2	16	1	mg/l	98%
Magnesium	3,73	0,05	3,8	0,5	mg/l	102%
Sodium	32,6	0,2			mg/l	
Potassium	2,93	0,02			mg/l	
Nitrate	16,6	0,3			mg/l	
Nitrite	0,0091	0,0002	<0,02		mg/l	•
Ammonium	<0,01		<0,02		mg/l	•
Chloride	11,5	0,1	11	1	mg/l	96%
Sulphate	28,9	0,2			mg/l	
Orthophosphate	0,160	0,002	0,165	0,005	mg/l	103%
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04			mg/l	
Total P (as PO4)	0,070	0,001	0,069	0,005	mg/l	99%
Silicon	2,99	0,07	2,89	0,1	mg/l	97%
Fluoride	1,51	0,01			mg/l	



Sample N146A**Laboratory P**

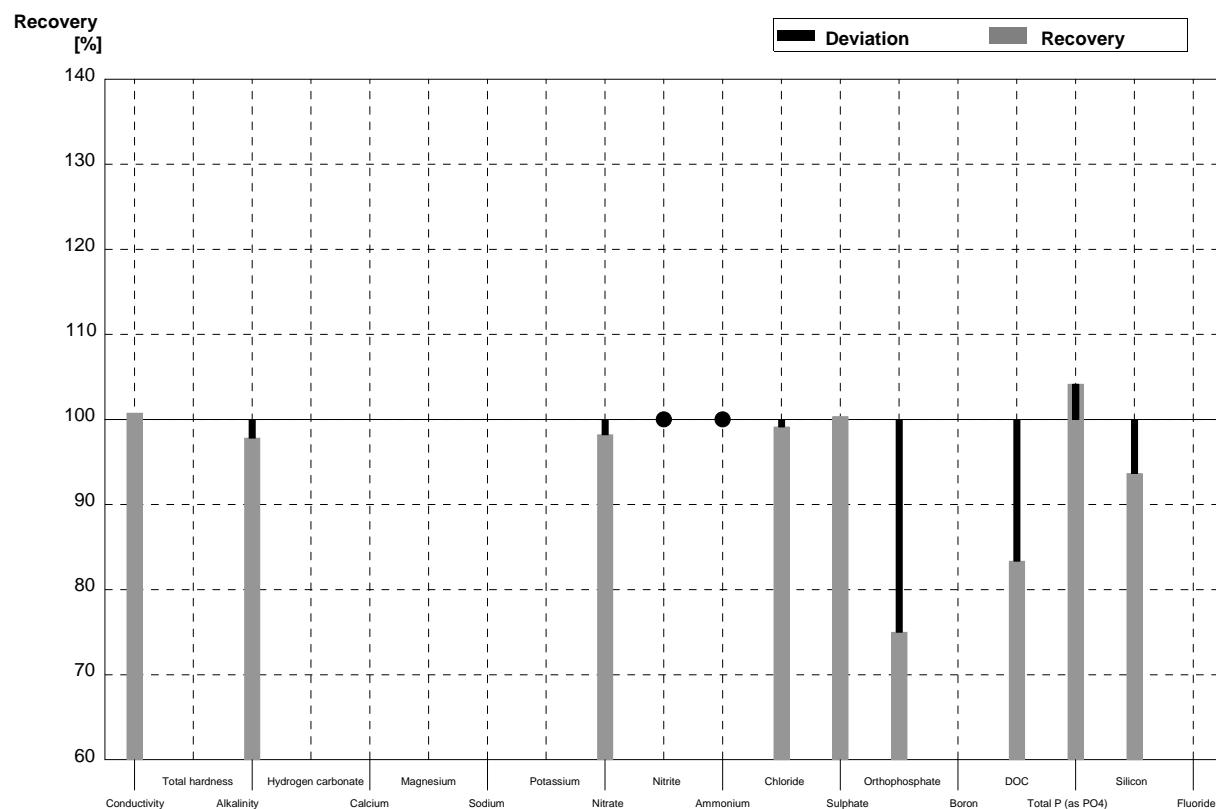
Parameter	Target value	$\pm U$ (k=2)	Result	\pm	Unit	Recovery
Conductivity	526	1	543		$\mu\text{S}/\text{cm}$	103%
Total hardness	1,90	0,02			mmol/l	
Alkalinity	1,46	0,02	1,43		mmol/l	98%
Hydrogen carbonate	86,3	1,4			mg/l	
Calcium	50,8	0,6			mg/l	
Magnesium	15,4	0,2			mg/l	
Sodium	25,2	0,3			mg/l	
Potassium	4,86	0,03			mg/l	
Nitrate	54,3	0,9	52,7		mg/l	97%
Nitrite	0,032	0,001	0,03		mg/l	94%
Ammonium	0,028	0,004	0,03		mg/l	107%
Chloride	43,3	0,6	42,0		mg/l	97%
Sulphate	70,5	0,4	67		mg/l	95%
Orthophosphate	<0,009		<0,02		mg/l	•
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04	1,0		mg/l	85%
Total P (as PO ₄)	<0,009		<0,02		mg/l	•
Silicon	1,00	0,02	0,9		mg/l	90%
Fluoride	0,605	0,004			mg/l	



Sample N146B

Laboratory P

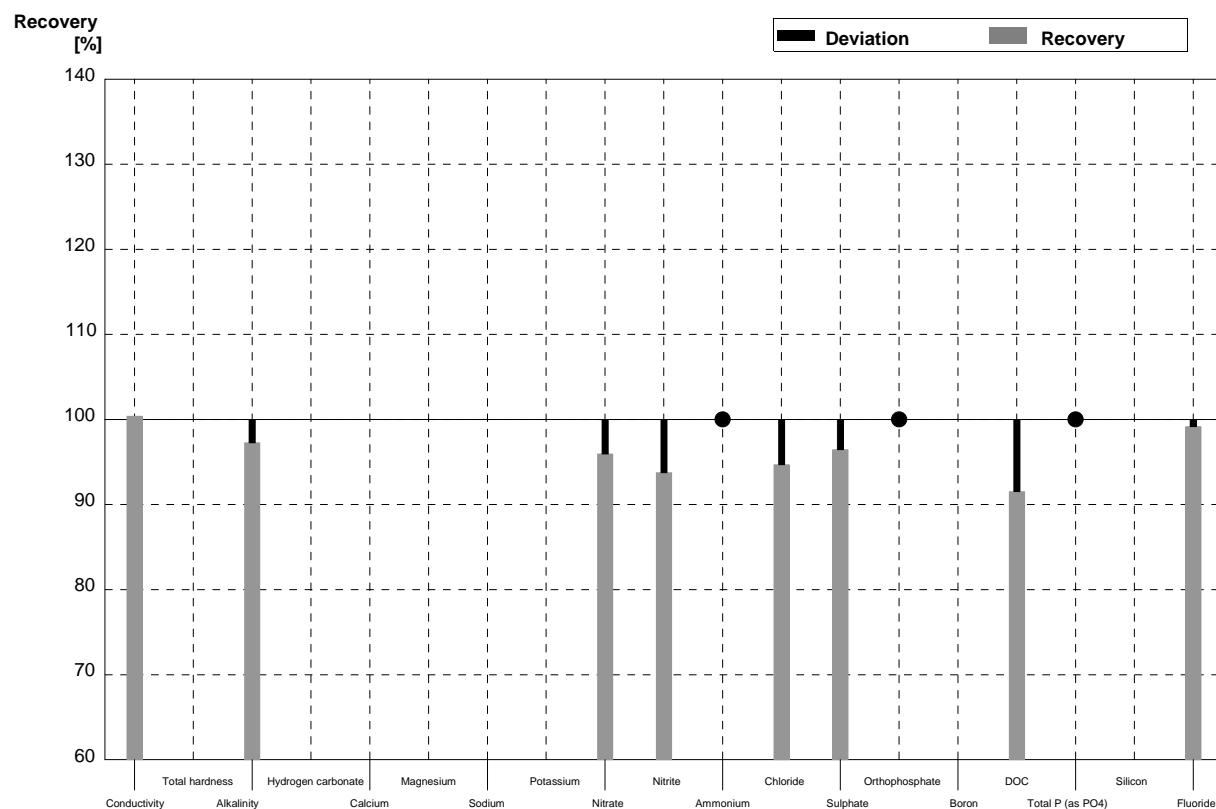
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1	272		µS/cm	101%
Total hardness	0,560	0,006			mmol/l	
Alkalinity	1,37	0,01	1,34		mmol/l	98%
Hydrogen carbonate	80,4	0,7			mg/l	
Calcium	16,3	0,2			mg/l	
Magnesium	3,73	0,05			mg/l	
Sodium	32,6	0,2			mg/l	
Potassium	2,93	0,02			mg/l	
Nitrate	16,6	0,3	16,3		mg/l	98%
Nitrite	0,0091	0,0002	<0,02		mg/l	•
Ammonium	<0,01		<0,02		mg/l	•
Chloride	11,5	0,1	11,4		mg/l	99%
Sulphate	28,9	0,2	29		mg/l	100%
Orthophosphate	0,160	0,002	0,12		mg/l	75%
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04	1,8		mg/l	83%
Total P (as PO4)	0,070	0,001	0,0729		mg/l	104%
Silicon	2,99	0,07	2,8		mg/l	94%
Fluoride	1,51	0,01			mg/l	



Sample N146A

Laboratory Q

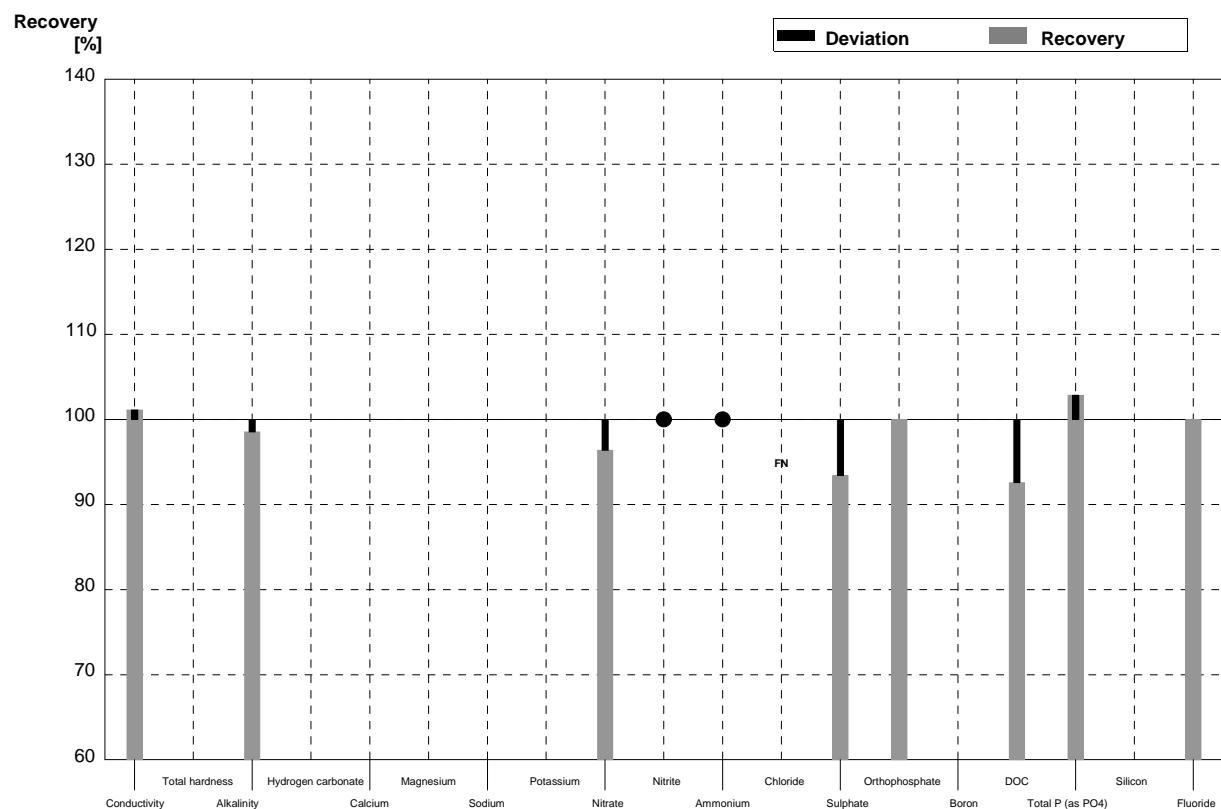
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	526	1	528		µS/cm	100%
Total hardness	1,90	0,02			mmol/l	
Alkalinity	1,46	0,02	1,42	0,021	mmol/l	97%
Hydrogen carbonate	86,3	1,4			mg/l	
Calcium	50,8	0,6			mg/l	
Magnesium	15,4	0,2			mg/l	
Sodium	25,2	0,3			mg/l	
Potassium	4,86	0,03			mg/l	
Nitrate	54,3	0,9	52,1	1,78	mg/l	96%
Nitrite	0,032	0,001	0,03	0,0005	mg/l	94%
Ammonium	0,028	0,004	<0,03		mg/l	•
Chloride	43,3	0,6	41	1,7	mg/l	95%
Sulphate	70,5	0,4	68	2,4	mg/l	96%
Orthophosphate	<0,009		<0,15		mg/l	•
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04	1,08	0,134	mg/l	92%
Total P (as PO4)	<0,009		<0,015		mg/l	•
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004	0,60	0,008	mg/l	99%



Sample N146B

Laboratory Q

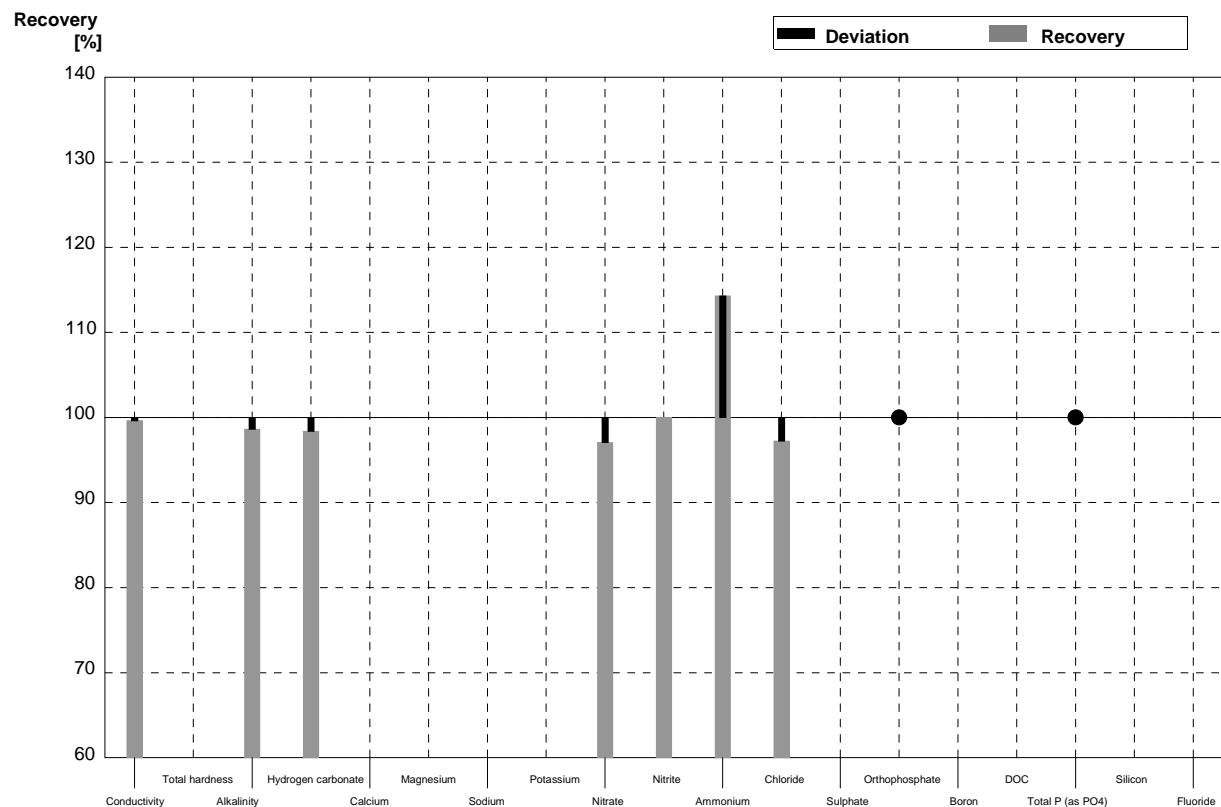
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1	273		µS/cm	101%
Total hardness	0,560	0,006			mmol/l	
Alkalinity	1,37	0,01	1,35	0,019	mmol/l	99%
Hydrogen carbonate	80,4	0,7			mg/l	
Calcium	16,3	0,2			mg/l	
Magnesium	3,73	0,05			mg/l	
Sodium	32,6	0,2			mg/l	
Potassium	2,93	0,02			mg/l	
Nitrate	16,6	0,3	16,0	0,55	mg/l	96%
Nitrite	0,0091	0,0002	<0,03		mg/l	•
Ammonium	<0,01		<0,03		mg/l	•
Chloride	11,5	0,1	<10		mg/l	FN
Sulphate	28,9	0,2	27	0,9	mg/l	93%
Orthophosphate	0,160	0,002	0,16	0,015	mg/l	100%
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04	2,00	0,249	mg/l	93%
Total P (as PO4)	0,070	0,001	0,072	0,0023	mg/l	103%
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01	1,51	0,021	mg/l	100%



Sample N146A

Laboratory R

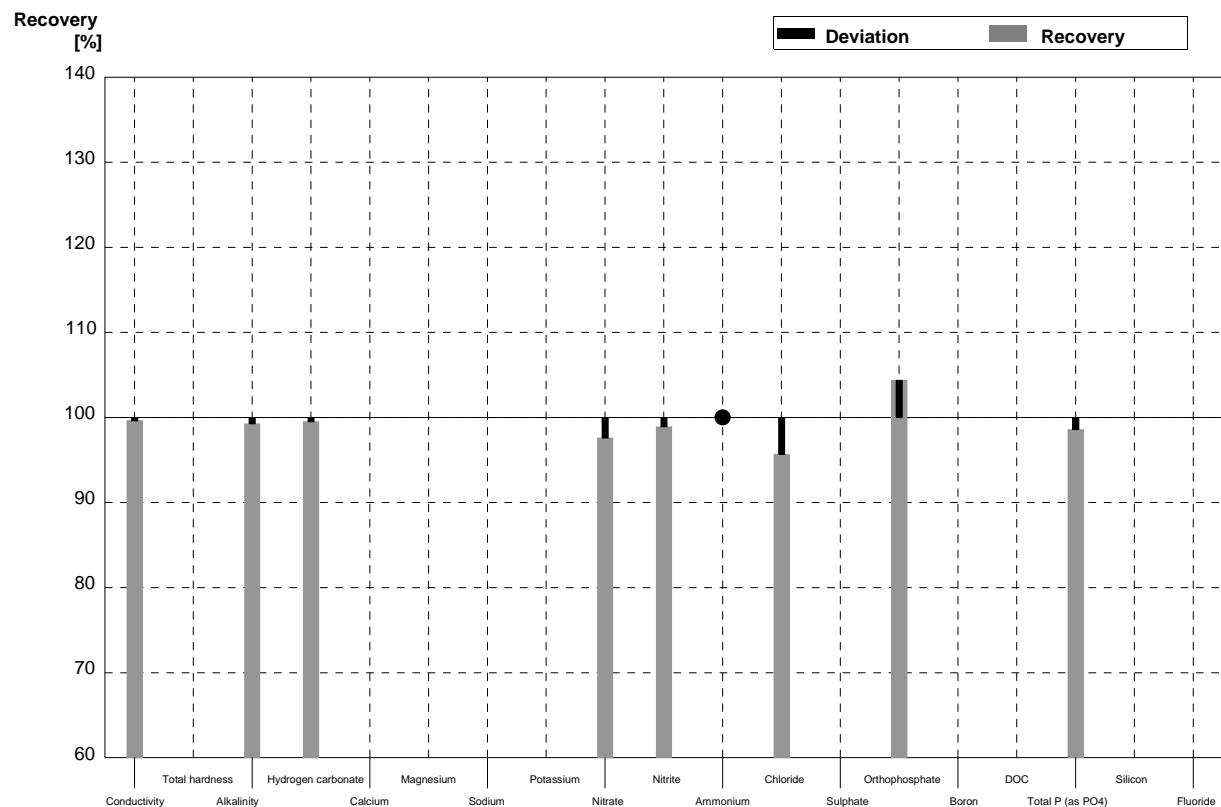
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	526	1	524		µS/cm	100%
Total hardness	1,90	0,02			mmol/l	
Alkalinity	1,46	0,02	1,44		mmol/l	99%
Hydrogen carbonate	86,3	1,4	84,9		mg/l	98%
Calcium	50,8	0,6			mg/l	
Magnesium	15,4	0,2			mg/l	
Sodium	25,2	0,3			mg/l	
Potassium	4,86	0,03			mg/l	
Nitrate	54,3	0,9	52,7		mg/l	97%
Nitrite	0,032	0,001	0,032		mg/l	100%
Ammonium	0,028	0,004	0,032		mg/l	114%
Chloride	43,3	0,6	42,1		mg/l	97%
Sulphate	70,5	0,4			mg/l	
Orthophosphate	<0,009		<0,006		mg/l	•
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04			mg/l	
Total P (as PO4)	<0,009		<0,006		mg/l	•
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004			mg/l	



Sample N146B

Laboratory R

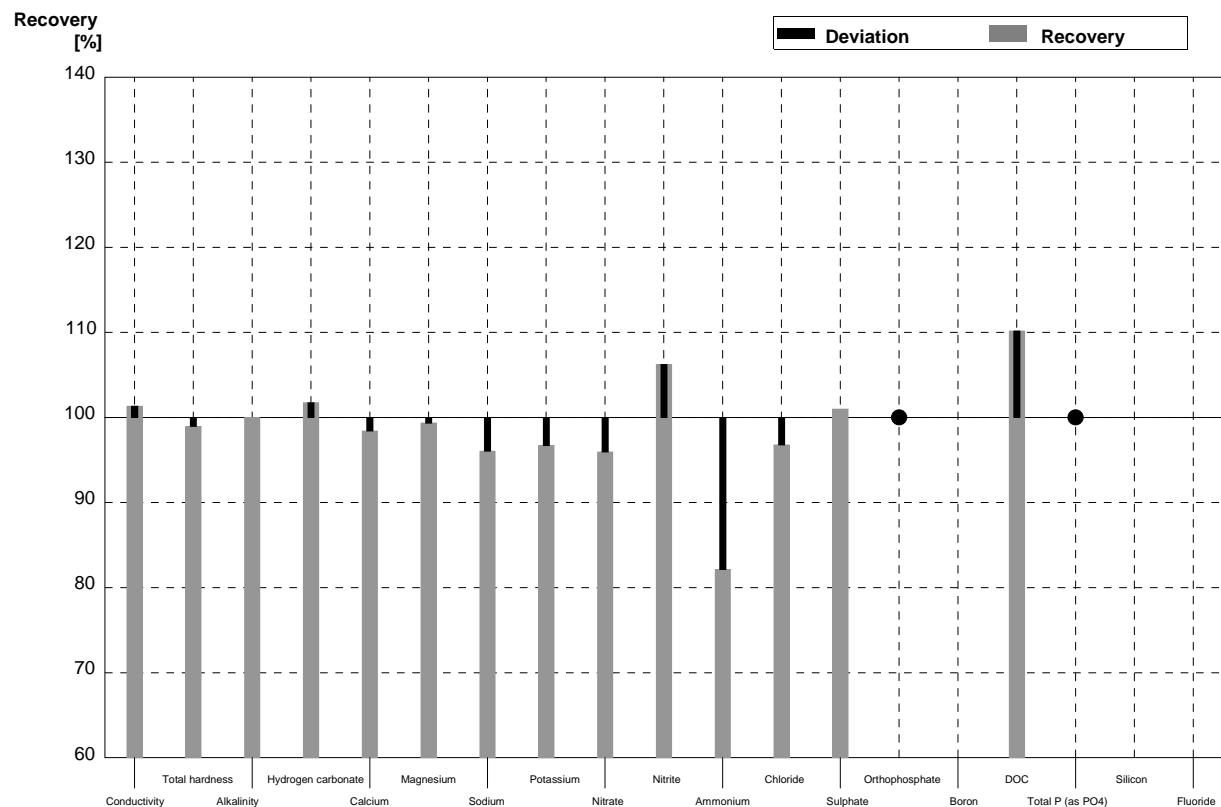
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1	269		µS/cm	100%
Total hardness	0,560	0,006			mmol/l	
Alkalinity	1,37	0,01	1,36		mmol/l	99%
Hydrogen carbonate	80,4	0,7	80,0		mg/l	100%
Calcium	16,3	0,2			mg/l	
Magnesium	3,73	0,05			mg/l	
Sodium	32,6	0,2			mg/l	
Potassium	2,93	0,02			mg/l	
Nitrate	16,6	0,3	16,2		mg/l	98%
Nitrite	0,0091	0,0002	0,009		mg/l	99%
Ammonium	<0,01		0,008		mg/l	•
Chloride	11,5	0,1	11,0		mg/l	96%
Sulphate	28,9	0,2			mg/l	
Orthophosphate	0,160	0,002	0,167		mg/l	104%
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04			mg/l	
Total P (as PO4)	0,070	0,001	0,069		mg/l	99%
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01			mg/l	



Sample N146A

Laboratory S

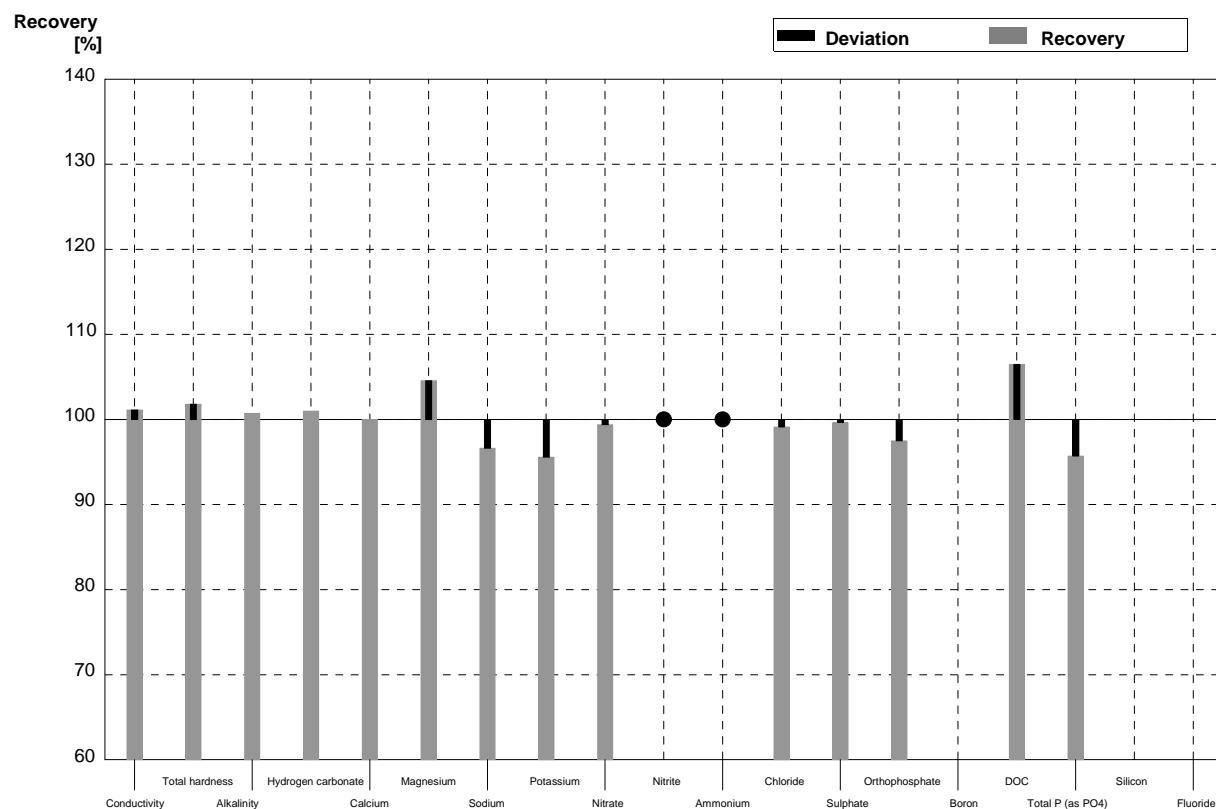
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	526	1	533		µS/cm	101%
Total hardness	1,90	0,02	1,88		mmol/l	99%
Alkalinity	1,46	0,02	1,46		mmol/l	100%
Hydrogen carbonate	86,3	1,4	87,8		mg/l	102%
Calcium	50,8	0,6	50,0		mg/l	98%
Magnesium	15,4	0,2	15,3		mg/l	99%
Sodium	25,2	0,3	24,2		mg/l	96%
Potassium	4,86	0,03	4,7		mg/l	97%
Nitrate	54,3	0,9	52,1		mg/l	96%
Nitrite	0,032	0,001	0,034		mg/l	106%
Ammonium	0,028	0,004	0,023		mg/l	82%
Chloride	43,3	0,6	41,9		mg/l	97%
Sulphate	70,5	0,4	71,2		mg/l	101%
Orthophosphate	<0,009		<0,01		mg/l	•
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04	1,3		mg/l	110%
Total P (as PO4)	<0,009		<0,01		mg/l	•
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004			mg/l	



Sample N146B

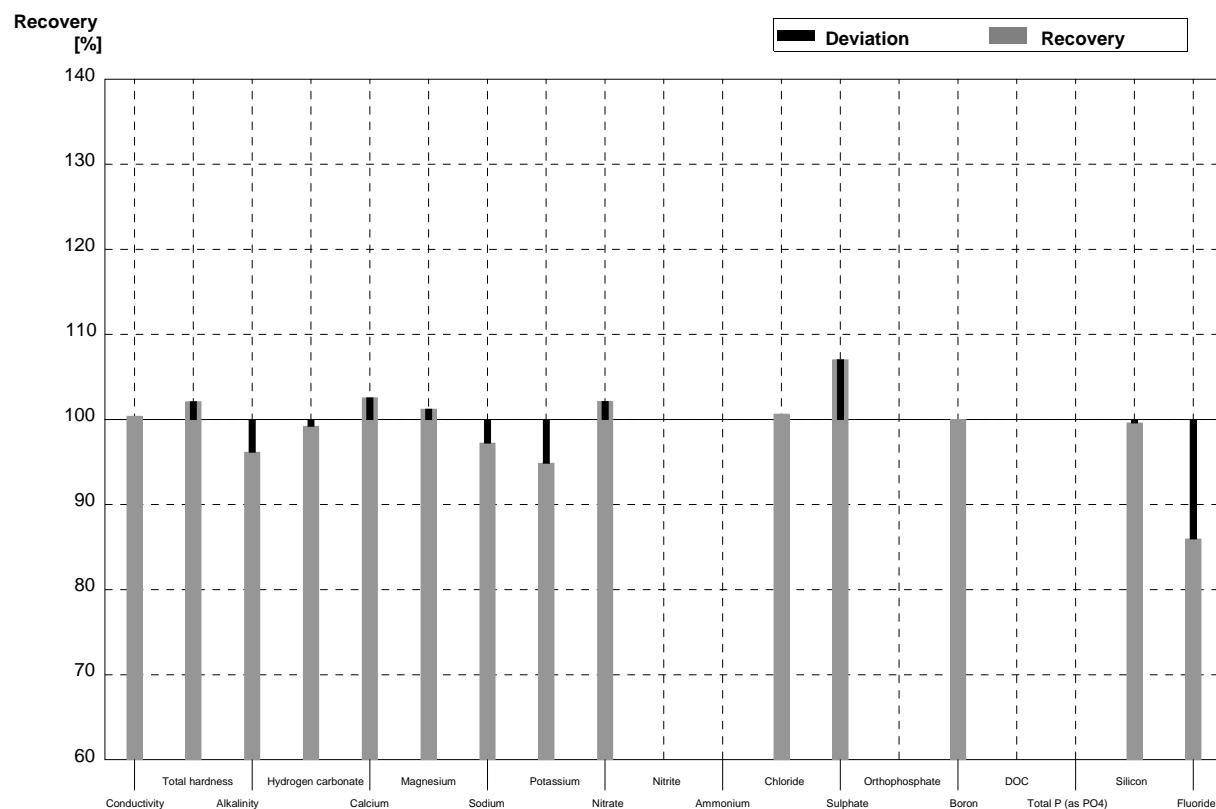
Laboratory S

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1	273		µS/cm	101%
Total hardness	0,560	0,006	0,57		mmol/l	102%
Alkalinity	1,37	0,01	1,38		mmol/l	101%
Hydrogen carbonate	80,4	0,7	81,2		mg/l	101%
Calcium	16,3	0,2	16,3		mg/l	100%
Magnesium	3,73	0,05	3,9		mg/l	105%
Sodium	32,6	0,2	31,5		mg/l	97%
Potassium	2,93	0,02	2,8		mg/l	96%
Nitrate	16,6	0,3	16,5		mg/l	99%
Nitrite	0,0091	0,0002	<0,01		mg/l	•
Ammonium	<0,01		<0,01		mg/l	•
Chloride	11,5	0,1	11,4		mg/l	99%
Sulphate	28,9	0,2	28,8		mg/l	100%
Orthophosphate	0,160	0,002	0,156		mg/l	98%
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04	2,3		mg/l	106%
Total P (as PO4)	0,070	0,001	0,067		mg/l	96%
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01			mg/l	



Sample N146A**Laboratory T**

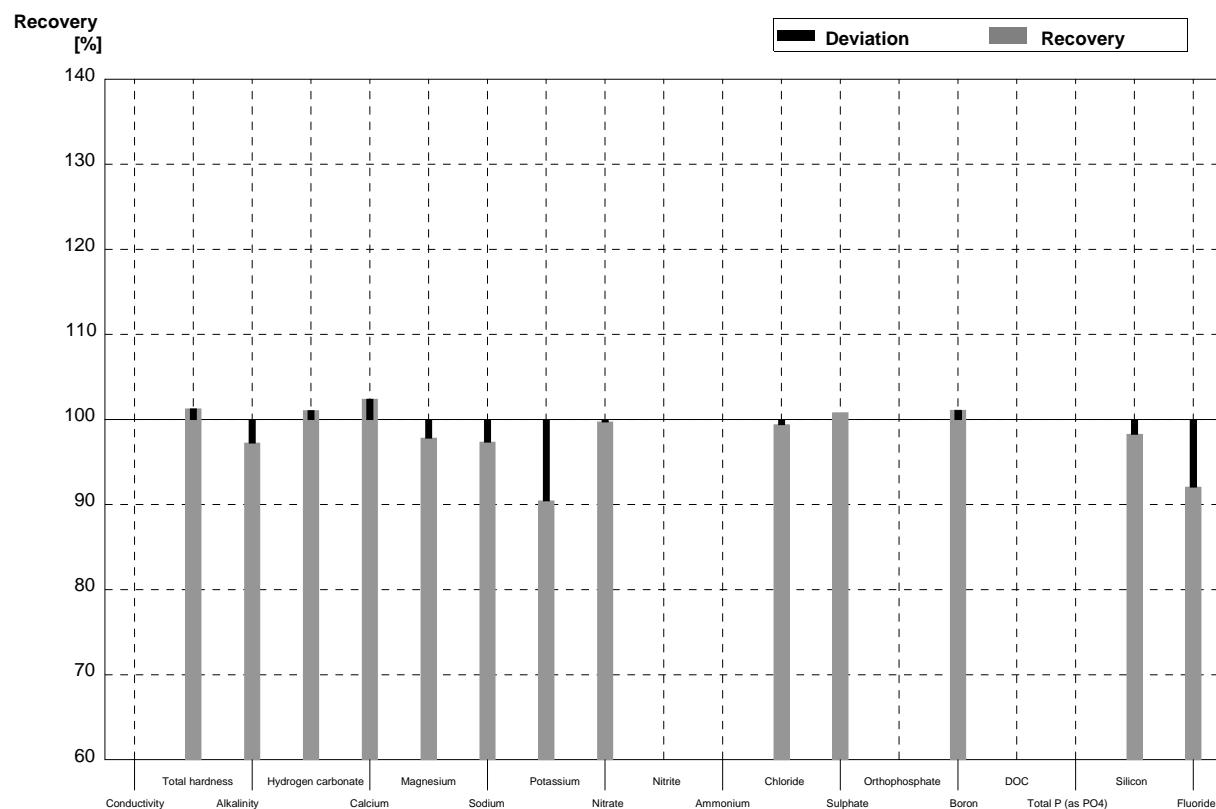
Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Conductivity	526	1	528		$\mu\text{S}/\text{cm}$	100%
Total hardness	1,90	0,02	1,94		mmol/l	102%
Alkalinity	1,46	0,02	1,404		mmol/l	96%
Hydrogen carbonate	86,3	1,4	85,61		mg/l	99%
Calcium	50,8	0,6	52,09		mg/l	103%
Magnesium	15,4	0,2	15,586		mg/l	101%
Sodium	25,2	0,3	24,5		mg/l	97%
Potassium	4,86	0,03	4,61		mg/l	95%
Nitrate	54,3	0,9	55,45		mg/l	102%
Nitrite	0,032	0,001			mg/l	
Ammonium	0,028	0,004			mg/l	
Chloride	43,3	0,6	43,57		mg/l	101%
Sulphate	70,5	0,4	75,45		mg/l	107%
Orthophosphate	<0,009				mg/l	
Boron	0,045	0,001	0,045		mg/l	100%
DOC	1,18	0,04			mg/l	
Total P (as PO ₄)	<0,009				mg/l	
Silicon	1,00	0,02	0,996		mg/l	100%
Fluoride	0,605	0,004	0,52		mg/l	86%



Sample N146B

Laboratory T

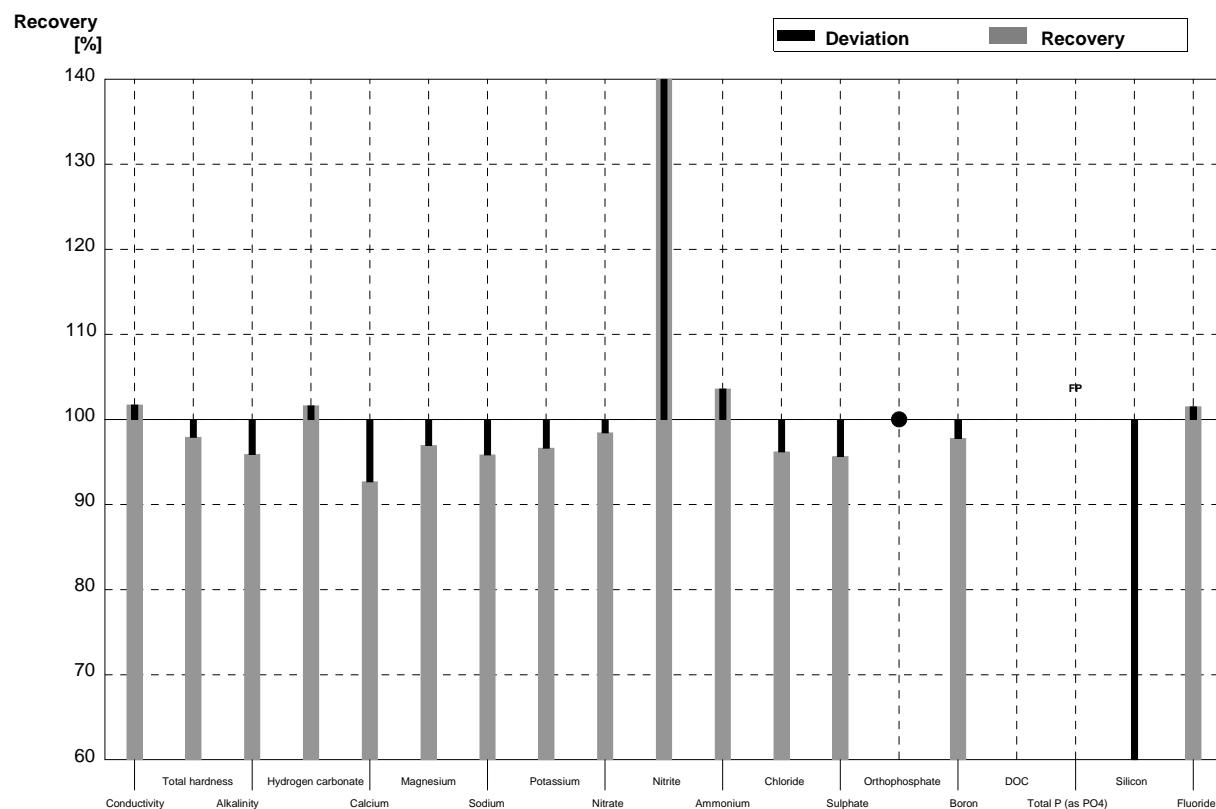
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1			µS/cm	
Total hardness	0,560	0,006	0,567		mmol/l	101%
Alkalinity	1,37	0,01	1,332		mmol/l	97%
Hydrogen carbonate	80,4	0,7	81,24		mg/l	101%
Calcium	16,3	0,2	16,69		mg/l	102%
Magnesium	3,73	0,05	3,648		mg/l	98%
Sodium	32,6	0,2	31,73		mg/l	97%
Potassium	2,93	0,02	2,65		mg/l	90%
Nitrate	16,6	0,3	16,55		mg/l	100%
Nitrite	0,0091	0,0002			mg/l	
Ammonium	<0,01				mg/l	
Chloride	11,5	0,1	11,43		mg/l	99%
Sulphate	28,9	0,2	29,13		mg/l	101%
Orthophosphate	0,160	0,002			mg/l	
Boron	0,185	0,001	0,187		mg/l	101%
DOC	2,16	0,04			mg/l	
Total P (as PO4)	0,070	0,001			mg/l	
Silicon	2,99	0,07	2,938		mg/l	98%
Fluoride	1,51	0,01	1,39		mg/l	92%



Sample N146A

Laboratory U

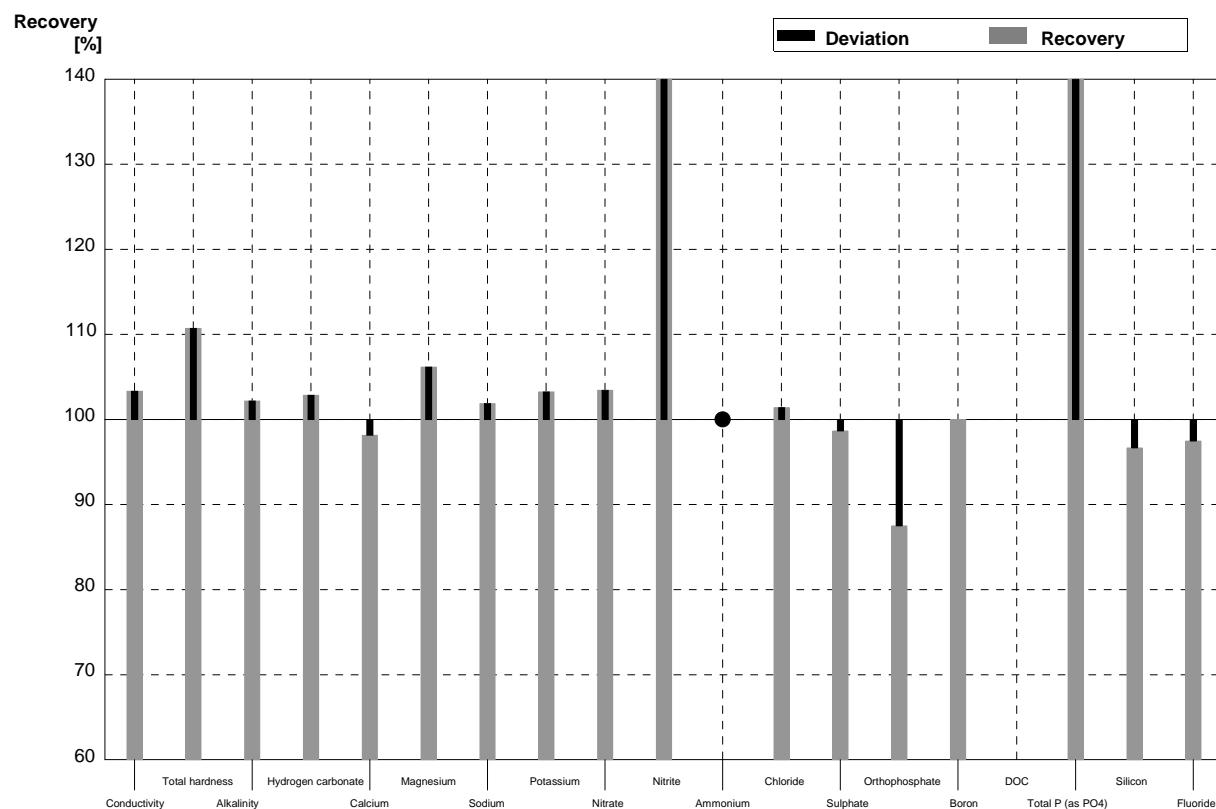
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	526	1	535		µS/cm	102%
Total hardness	1,90	0,02	1,86		mmol/l	98%
Alkalinity	1,46	0,02	1,4		mmol/l	96%
Hydrogen carbonate	86,3	1,4	87,7		mg/l	102%
Calcium	50,8	0,6	47,08		mg/l	93%
Magnesium	15,4	0,2	14,93		mg/l	97%
Sodium	25,2	0,3	24,15		mg/l	96%
Potassium	4,86	0,03	4,696		mg/l	97%
Nitrate	54,3	0,9	53,45		mg/l	98%
Nitrite	0,032	0,001	0,086		mg/l	269%
Ammonium	0,028	0,004	0,029		mg/l	104%
Chloride	43,3	0,6	41,65		mg/l	96%
Sulphate	70,5	0,4	67,43		mg/l	96%
Orthophosphate	<0,009		<0,10		mg/l	•
Boron	0,045	0,001	0,044		mg/l	98%
DOC	1,18	0,04			mg/l	
Total P (as PO4)	<0,009		0,016		mg/l	FP
Silicon	1,00	0,02	0,287		mg/l	29%
Fluoride	0,605	0,004	0,614		mg/l	101%



Sample N146B

Laboratory U

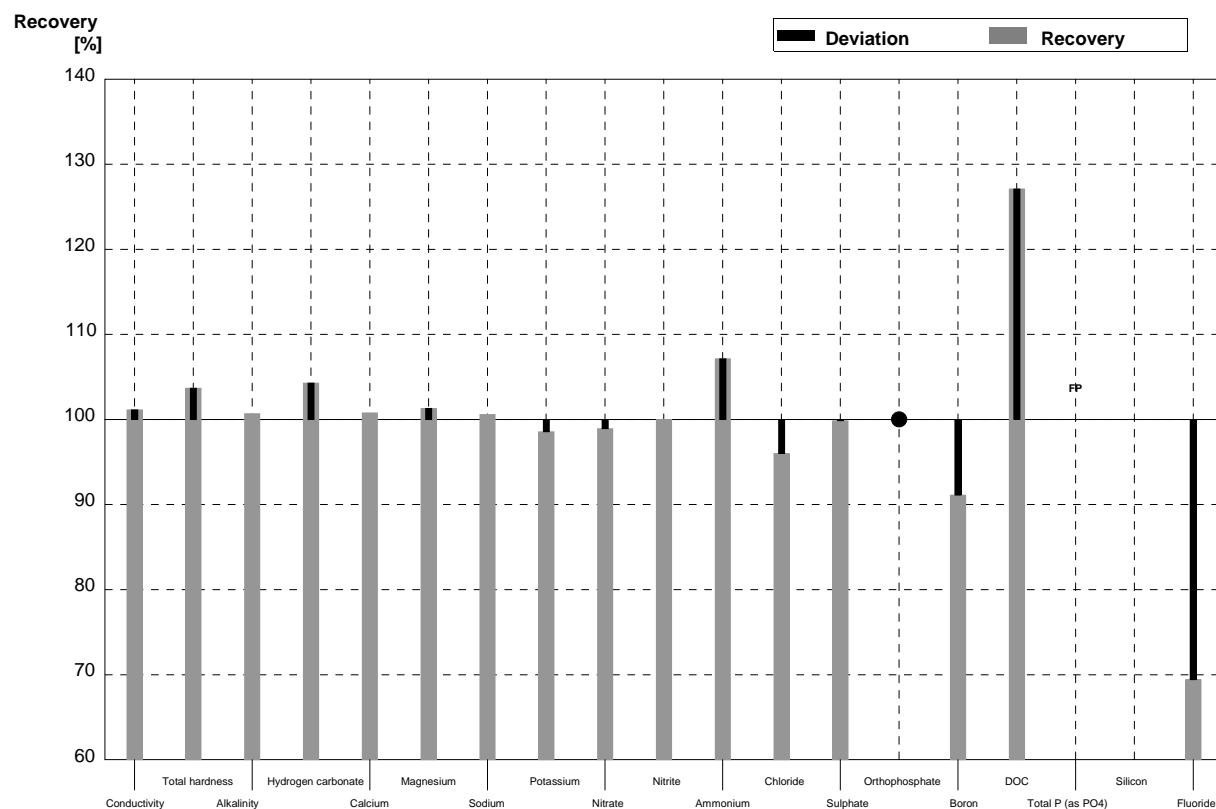
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1	279		µS/cm	103%
Total hardness	0,560	0,006	0,62		mmol/l	111%
Alkalinity	1,37	0,01	1,4		mmol/l	102%
Hydrogen carbonate	80,4	0,7	82,7		mg/l	103%
Calcium	16,3	0,2	16,00		mg/l	98%
Magnesium	3,73	0,05	3,96		mg/l	106%
Sodium	32,6	0,2	33,21		mg/l	102%
Potassium	2,93	0,02	3,025		mg/l	103%
Nitrate	16,6	0,3	17,17		mg/l	103%
Nitrite	0,0091	0,0002	0,069		mg/l	758%
Ammonium	<0,01		<0,06		mg/l	•
Chloride	11,5	0,1	11,66		mg/l	101%
Sulphate	28,9	0,2	28,51		mg/l	99%
Orthophosphate	0,160	0,002	0,14		mg/l	88%
Boron	0,185	0,001	0,185		mg/l	100%
DOC	2,16	0,04			mg/l	
Total P (as PO4)	0,070	0,001	0,540		mg/l	771%
Silicon	2,99	0,07	2,89		mg/l	97%
Fluoride	1,51	0,01	1,472		mg/l	97%



Sample N146A

Laboratory V

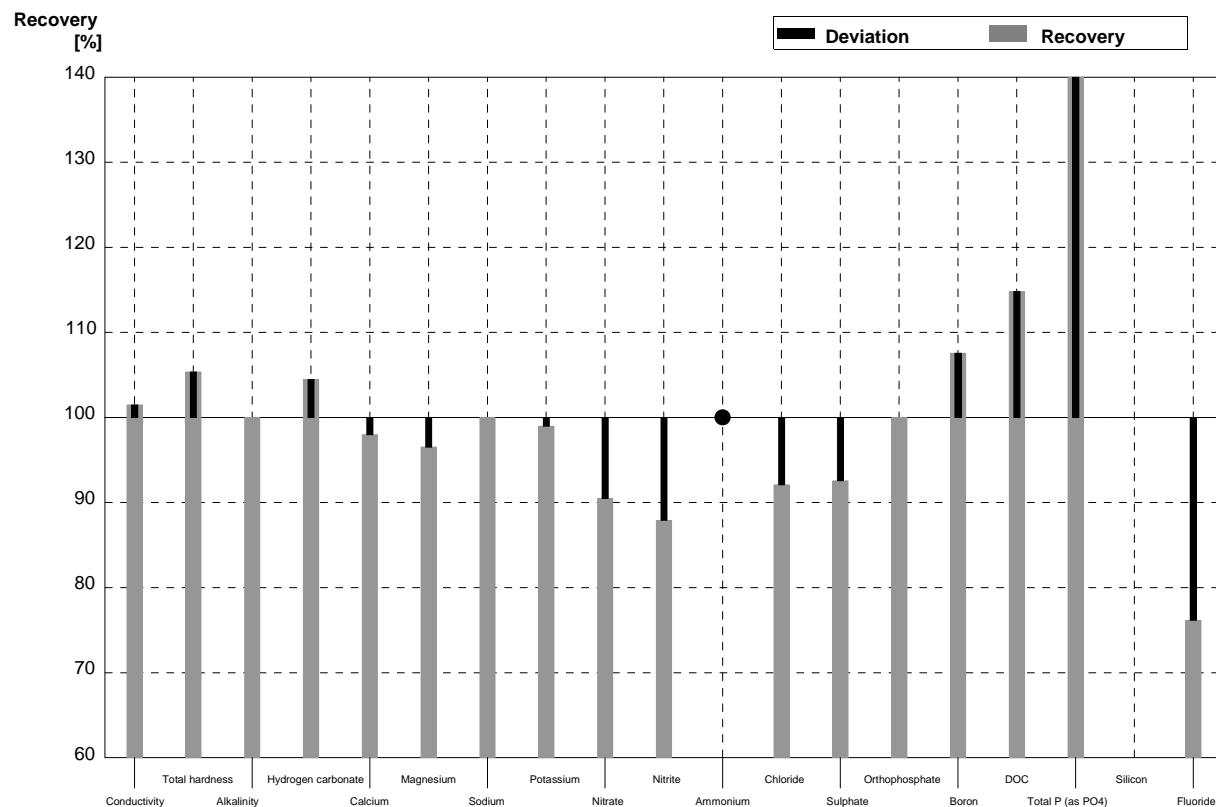
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	526	1	532	22	µS/cm	101%
Total hardness	1,90	0,02	1,97	0,10	mmol/l	104%
Alkalinity	1,46	0,02	1,47	0,10	mmol/l	101%
Hydrogen carbonate	86,3	1,4	90,0	7	mg/l	104%
Calcium	50,8	0,6	51,2	2,5	mg/l	101%
Magnesium	15,4	0,2	15,6	0,7	mg/l	101%
Sodium	25,2	0,3	25,35	1,2	mg/l	101%
Potassium	4,86	0,03	4,79	0,2	mg/l	99%
Nitrate	54,3	0,9	53,71	5,0	mg/l	99%
Nitrite	0,032	0,001	0,032	0,003	mg/l	100%
Ammonium	0,028	0,004	0,03	0,005	mg/l	107%
Chloride	43,3	0,6	41,57	4,0	mg/l	96%
Sulphate	70,5	0,4	70,40	7,0	mg/l	100%
Orthophosphate	<0,009		<0,04		mg/l	•
Boron	0,045	0,001	0,041	0,004	mg/l	91%
DOC	1,18	0,04	1,5	0,15	mg/l	127%
Total P (as PO4)	<0,009		0,19	0,02	mg/l	FP
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004	0,42	0,04	mg/l	69%



Sample N146B

Laboratory V

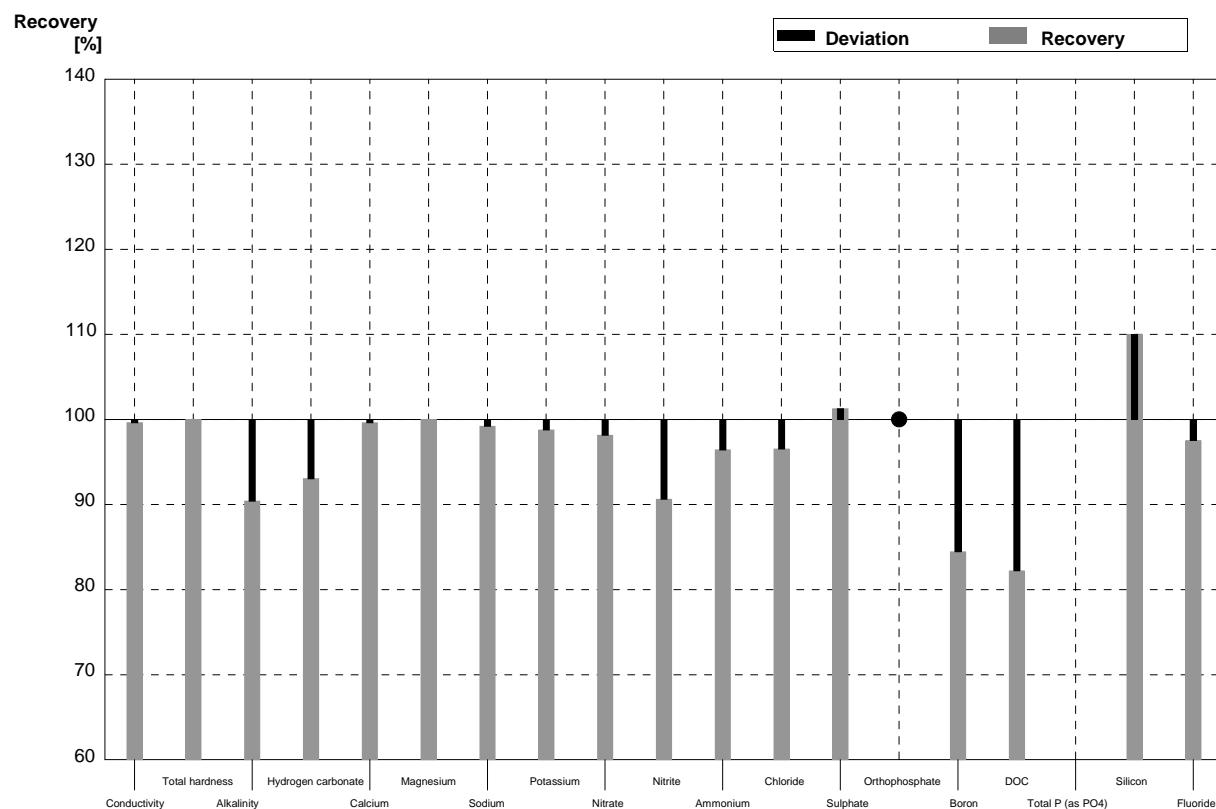
Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Conductivity	270	1	274	13	$\mu\text{S}/\text{cm}$	101%
Total hardness	0,560	0,006	0,59	0,05	mmol/l	105%
Alkalinity	1,37	0,01	1,37	0,13	mmol/l	100%
Hydrogen carbonate	80,4	0,7	84,0	5	mg/l	104%
Calcium	16,3	0,2	15,97	0,75	mg/l	98%
Magnesium	3,73	0,05	3,6	0,15	mg/l	97%
Sodium	32,6	0,2	32,6	1,5	mg/l	100%
Potassium	2,93	0,02	2,9	0,15	mg/l	99%
Nitrate	16,6	0,3	15,02	1,1	mg/l	90%
Nitrite	0,0091	0,0002	0,008	0,001	mg/l	88%
Ammonium	<0,01		<0,01		mg/l	•
Chloride	11,5	0,1	10,59	1,0	mg/l	92%
Sulphate	28,9	0,2	26,75	2,5	mg/l	93%
Orthophosphate	0,160	0,002	0,16	0,02	mg/l	100%
Boron	0,185	0,001	0,199	0,01	mg/l	108%
DOC	2,16	0,04	2,48	0,24	mg/l	115%
Total P (as PO ₄)	0,070	0,001	0,102	0,01	mg/l	146%
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01	1,15	0,10	mg/l	76%



Sample N146A

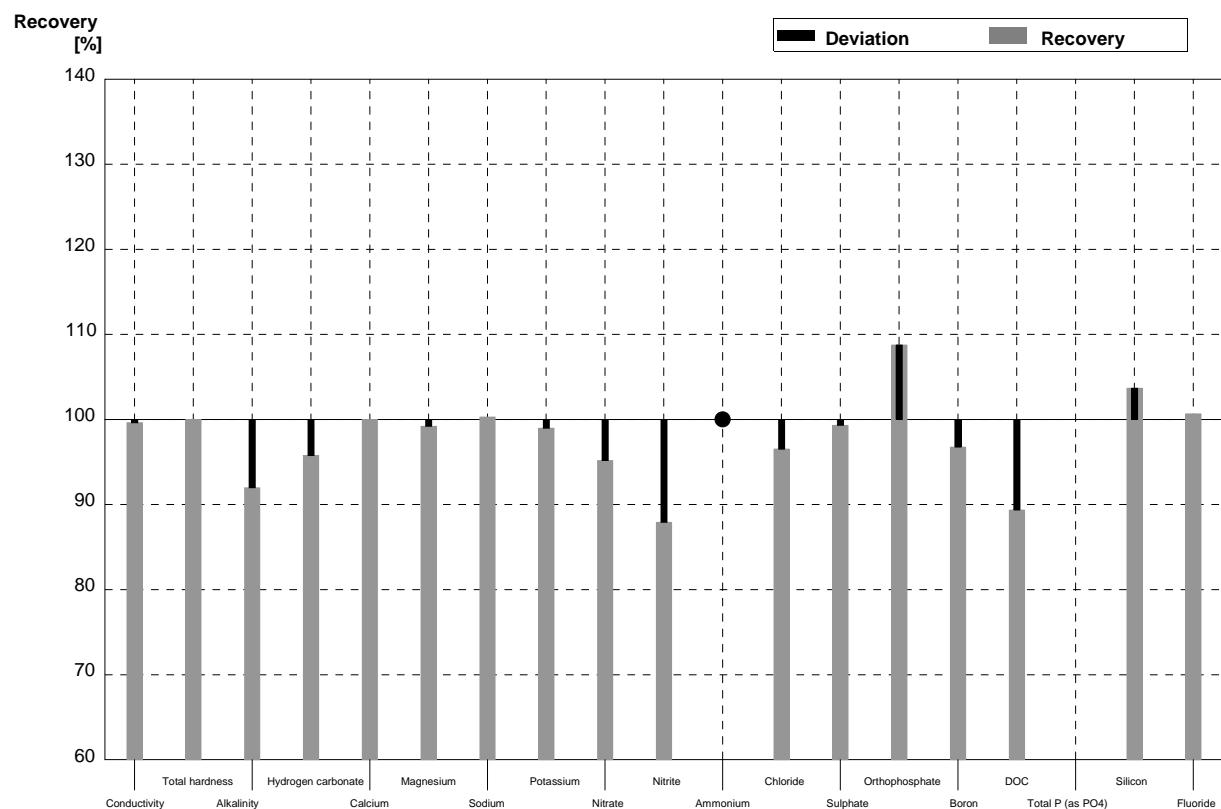
Laboratory W

Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Conductivity	526	1	524	10	$\mu\text{S}/\text{cm}$	100%
Total hardness	1,90	0,02	1,90	0,13	mmol/l	100%
Alkalinity	1,46	0,02	1,32	0,07	mmol/l	90%
Hydrogen carbonate	86,3	1,4	80,3	4,0	mg/l	93%
Calcium	50,8	0,6	50,6	2,5	mg/l	100%
Magnesium	15,4	0,2	15,4	0,8	mg/l	100%
Sodium	25,2	0,3	25,0	1,2	mg/l	99%
Potassium	4,86	0,03	4,8	0,2	mg/l	99%
Nitrate	54,3	0,9	53,3	2,7	mg/l	98%
Nitrite	0,032	0,001	0,029	0,003	mg/l	91%
Ammonium	0,028	0,004	0,027	0,003	mg/l	96%
Chloride	43,3	0,6	41,8	2,1	mg/l	97%
Sulphate	70,5	0,4	71,4	3,6	mg/l	101%
Orthophosphate	<0,009		<0,02		mg/l	•
Boron	0,045	0,001	0,038	0,004	mg/l	84%
DOC	1,18	0,04	0,97	0,15	mg/l	82%
Total P (as PO ₄)	<0,009				mg/l	
Silicon	1,00	0,02	1,1	0,1	mg/l	110%
Fluoride	0,605	0,004	0,59	0,03	mg/l	98%



Sample N146B**Laboratory W**

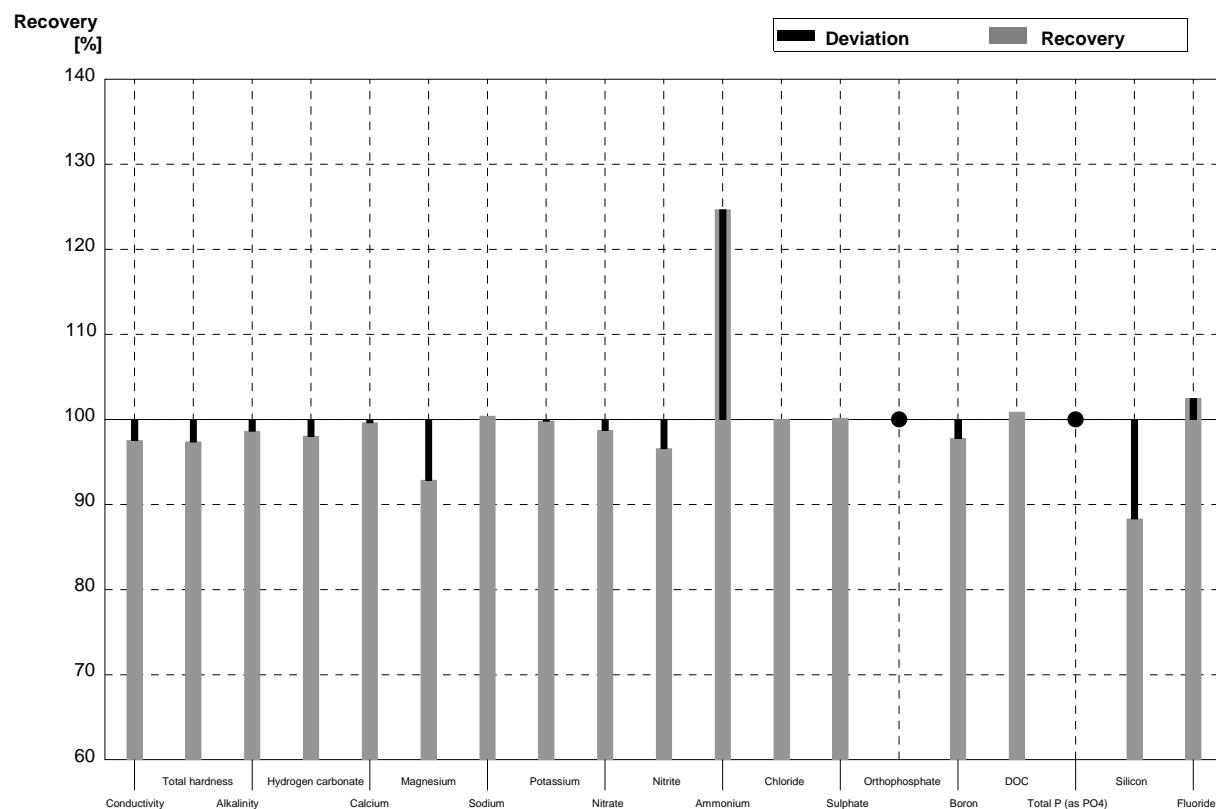
Parameter	Target value	$\pm U$ (k=2)	Result	\pm	Unit	Recovery
Conductivity	270	1	269	5	$\mu\text{S}/\text{cm}$	100%
Total hardness	0,560	0,006	0,56	0,04	mmol/l	100%
Alkalinity	1,37	0,01	1,26	0,06	mmol/l	92%
Hydrogen carbonate	80,4	0,7	77,0	3,9	mg/l	96%
Calcium	16,3	0,2	16,3	0,8	mg/l	100%
Magnesium	3,73	0,05	3,7	0,2	mg/l	99%
Sodium	32,6	0,2	32,7	1,6	mg/l	100%
Potassium	2,93	0,02	2,9	0,1	mg/l	99%
Nitrate	16,6	0,3	15,8	0,8	mg/l	95%
Nitrite	0,0091	0,0002	0,008	0,001	mg/l	88%
Ammonium	<0,01		<0,02		mg/l	•
Chloride	11,5	0,1	11,1	0,6	mg/l	97%
Sulphate	28,9	0,2	28,7	1,4	mg/l	99%
Orthophosphate	0,160	0,002	0,174	0,009	mg/l	109%
Boron	0,185	0,001	0,179	0,009	mg/l	97%
DOC	2,16	0,04	1,93	0,29	mg/l	89%
Total P (as PO ₄)	0,070	0,001			mg/l	
Silicon	2,99	0,07	3,1	0,2	mg/l	104%
Fluoride	1,51	0,01	1,52	0,23	mg/l	101%



Sample N146A

Laboratory X

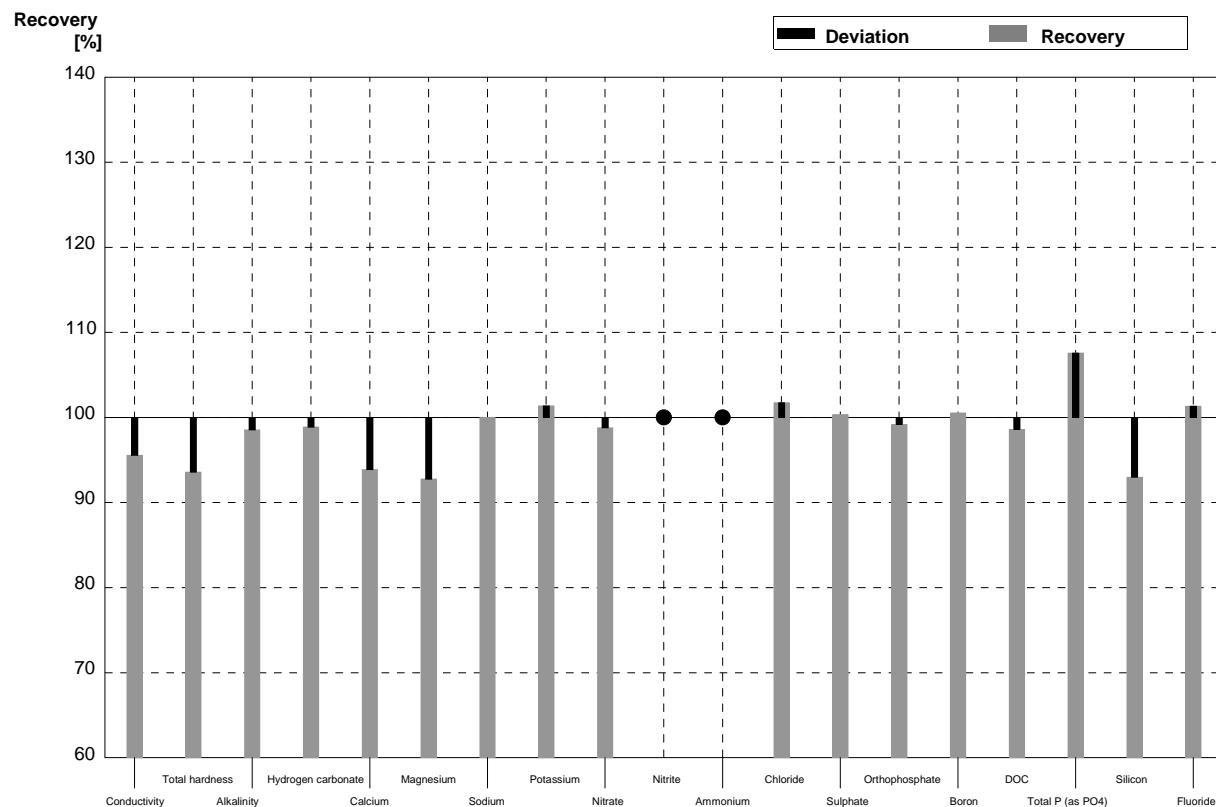
Parameter	Target value	$\pm U$ ($k=2$)	Result	\pm	Unit	Recovery
Conductivity	526	1	513	1,1	$\mu\text{S}/\text{cm}$	98%
Total hardness	1,90	0,02	1,85	0,046	mmol/l	97%
Alkalinity	1,46	0,02	1,44	0,08	mmol/l	99%
Hydrogen carbonate	86,3	1,4	84,6	1,69	mg/l	98%
Calcium	50,8	0,6	50,6	0,70	mg/l	100%
Magnesium	15,4	0,2	14,3	1,04	mg/l	93%
Sodium	25,2	0,3	25,3	0,50	mg/l	100%
Potassium	4,86	0,03	4,85	0,479	mg/l	100%
Nitrate	54,3	0,9	53,6	0,48	mg/l	99%
Nitrite	0,032	0,001	0,0309	0,0008	mg/l	97%
Ammonium	0,028	0,004	0,0349	0,0011	mg/l	125%
Chloride	43,3	0,6	43,3	0,80	mg/l	100%
Sulphate	70,5	0,4	70,6	0,72	mg/l	100%
Orthophosphate	<0,009		[0,0035]		mg/l	•
Boron	0,045	0,001	0,044	0,002	mg/l	98%
DOC	1,18	0,04	1,19	0,01	mg/l	101%
Total P (as PO ₄)	<0,009		[0,0032]		mg/l	•
Silicon	1,00	0,02	0,883	0,019	mg/l	88%
Fluoride	0,605	0,004	0,62	0,01	mg/l	102%



Sample N146B

Laboratory X

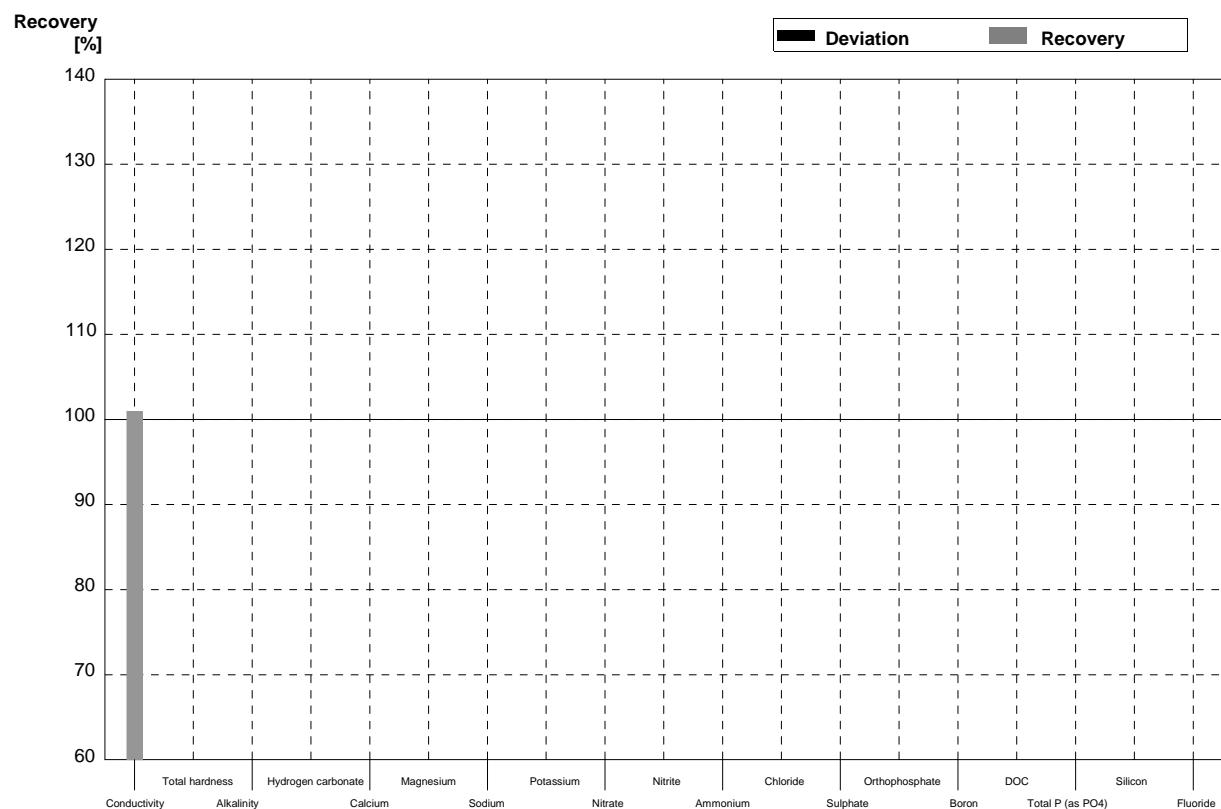
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1	258	0,2	µS/cm	96%
Total hardness	0,560	0,006	0,524	0,018	mmol/l	94%
Alkalinity	1,37	0,01	1,35	0,08	mmol/l	99%
Hydrogen carbonate	80,4	0,7	79,5	1,59	mg/l	99%
Calcium	16,3	0,2	15,3	0,73	mg/l	94%
Magnesium	3,73	0,05	3,46	0,049	mg/l	93%
Sodium	32,6	0,2	32,6	0,51	mg/l	100%
Potassium	2,93	0,02	2,97	0,056	mg/l	101%
Nitrate	16,6	0,3	16,4	0,28	mg/l	99%
Nitrite	0,0091	0,0002	<0,0100		mg/l	•
Ammonium	<0,01		<0,0100		mg/l	•
Chloride	11,5	0,1	11,7	0,09	mg/l	102%
Sulphate	28,9	0,2	29,0	0,35	mg/l	100%
Orthophosphate	0,160	0,002	0,1587	0,0031	mg/l	99%
Boron	0,185	0,001	0,186	0,002	mg/l	101%
DOC	2,16	0,04	2,13	0,01	mg/l	99%
Total P (as PO4)	0,070	0,001	0,0753	0,0028	mg/l	108%
Silicon	2,99	0,07	2,78	0,040	mg/l	93%
Fluoride	1,51	0,01	1,53	0,06	mg/l	101%



Sample N146A

Laboratory Y

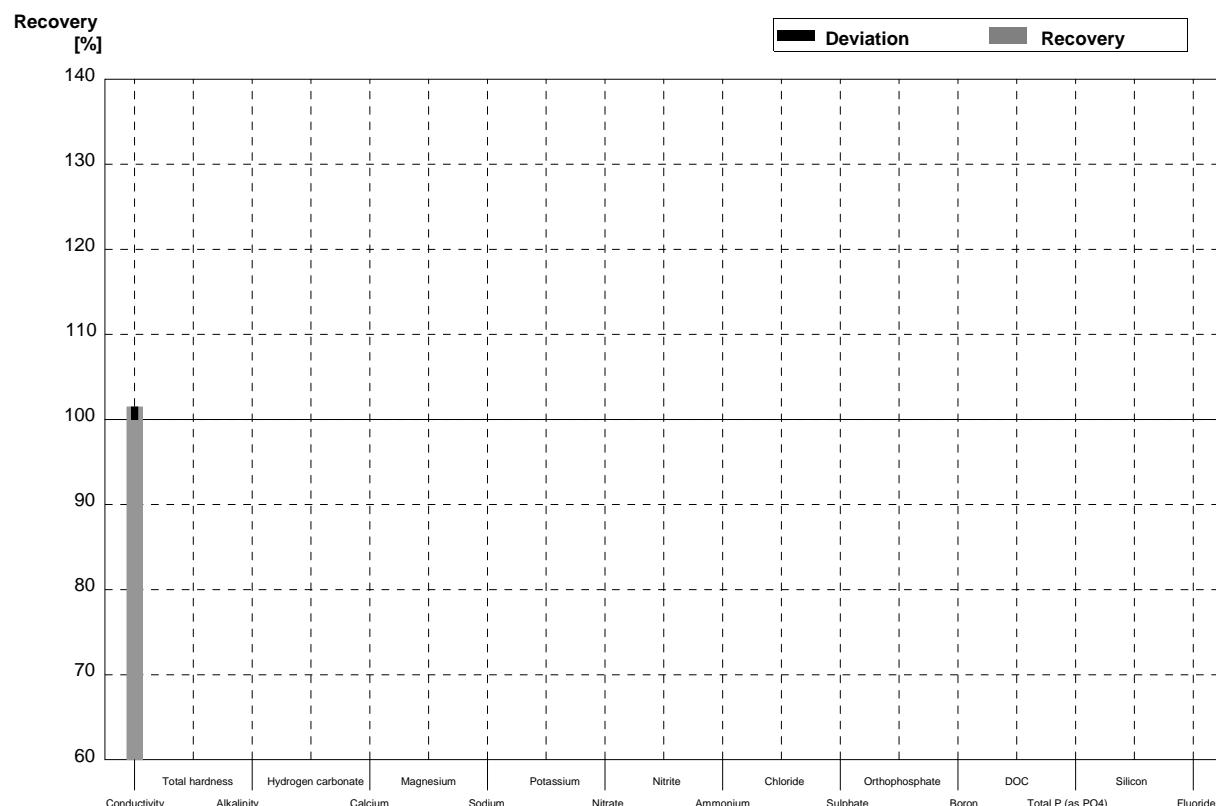
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	526	1	531		µS/cm	101%
Total hardness	1,90	0,02			mmol/l	
Alkalinity	1,46	0,02			mmol/l	
Hydrogen carbonate	86,3	1,4			mg/l	
Calcium	50,8	0,6			mg/l	
Magnesium	15,4	0,2			mg/l	
Sodium	25,2	0,3			mg/l	
Potassium	4,86	0,03			mg/l	
Nitrate	54,3	0,9			mg/l	
Nitrite	0,032	0,001			mg/l	
Ammonium	0,028	0,004			mg/l	
Chloride	43,3	0,6			mg/l	
Sulphate	70,5	0,4			mg/l	
Orthophosphate	<0,009				mg/l	
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04			mg/l	
Total P (as PO4)	<0,009				mg/l	
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004			mg/l	



Sample N146B

Laboratory Y

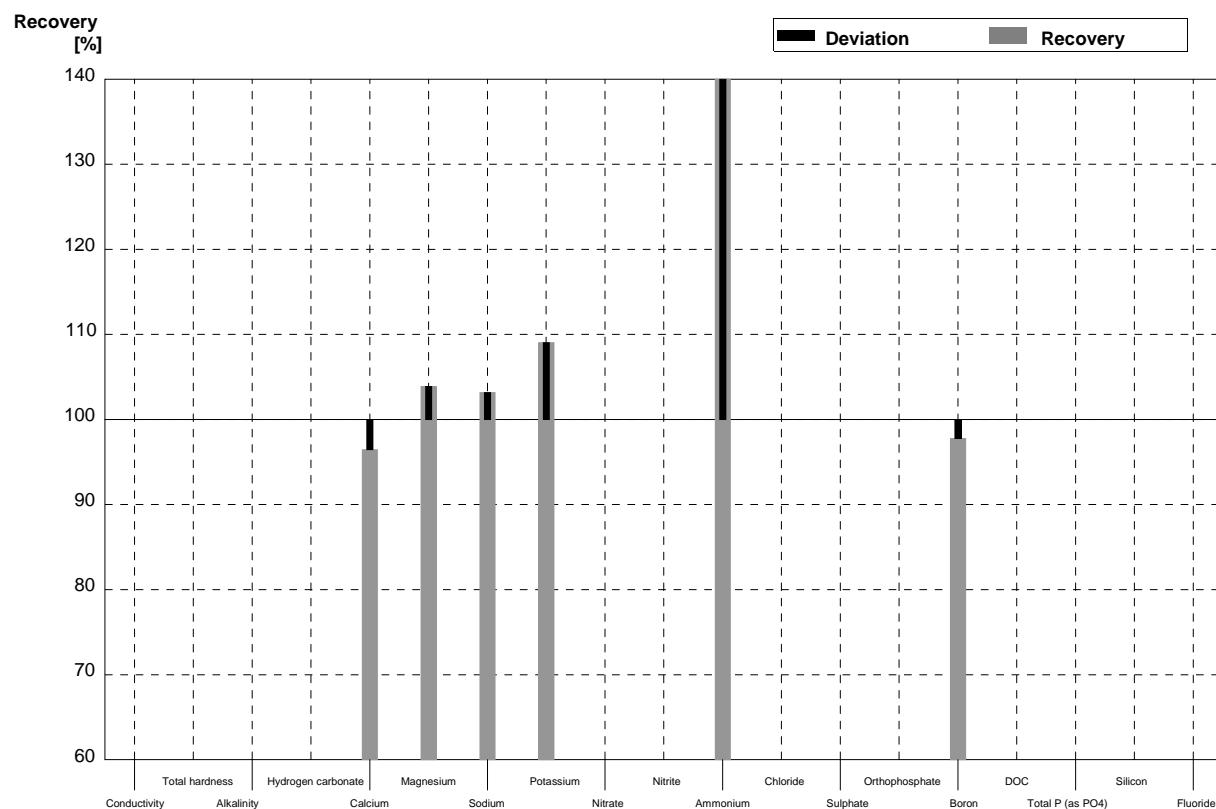
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1	274		µS/cm	101%
Total hardness	0,560	0,006			mmol/l	
Alkalinity	1,37	0,01			mmol/l	
Hydrogen carbonate	80,4	0,7			mg/l	
Calcium	16,3	0,2			mg/l	
Magnesium	3,73	0,05			mg/l	
Sodium	32,6	0,2			mg/l	
Potassium	2,93	0,02			mg/l	
Nitrate	16,6	0,3			mg/l	
Nitrite	0,0091	0,0002			mg/l	
Ammonium	<0,01				mg/l	
Chloride	11,5	0,1			mg/l	
Sulphate	28,9	0,2			mg/l	
Orthophosphate	0,160	0,002			mg/l	
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04			mg/l	
Total P (as PO ₄)	0,070	0,001			mg/l	
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01			mg/l	



Sample N146A

Laboratory Z

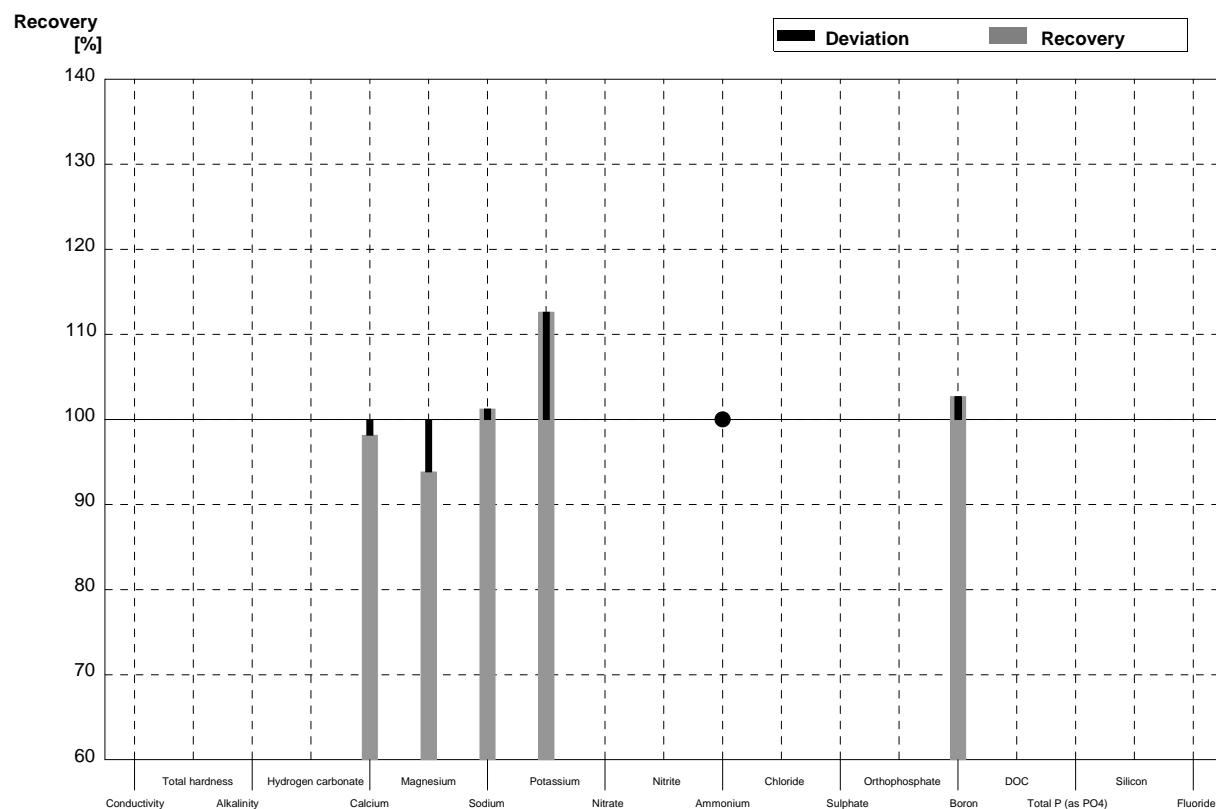
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	526	1			µS/cm	
Total hardness	1,90	0,02			mmol/l	
Alkalinity	1,46	0,02			mmol/l	
Hydrogen carbonate	86,3	1,4			mg/l	
Calcium	50,8	0,6	49	2,5	mg/l	96%
Magnesium	15,4	0,2	16	0,80	mg/l	104%
Sodium	25,2	0,3	26	1,3	mg/l	103%
Potassium	4,86	0,03	5,3	0,27	mg/l	109%
Nitrate	54,3	0,9			mg/l	
Nitrite	0,032	0,001			mg/l	
Ammonium	0,028	0,004	0,040	0,0040	mg/l	143%
Chloride	43,3	0,6			mg/l	
Sulphate	70,5	0,4			mg/l	
Orthophosphate	<0,009				mg/l	
Boron	0,045	0,001	0,044	0,0022	mg/l	98%
DOC	1,18	0,04			mg/l	
Total P (as PO4)	<0,009				mg/l	
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004			mg/l	



Sample N146B

Laboratory Z

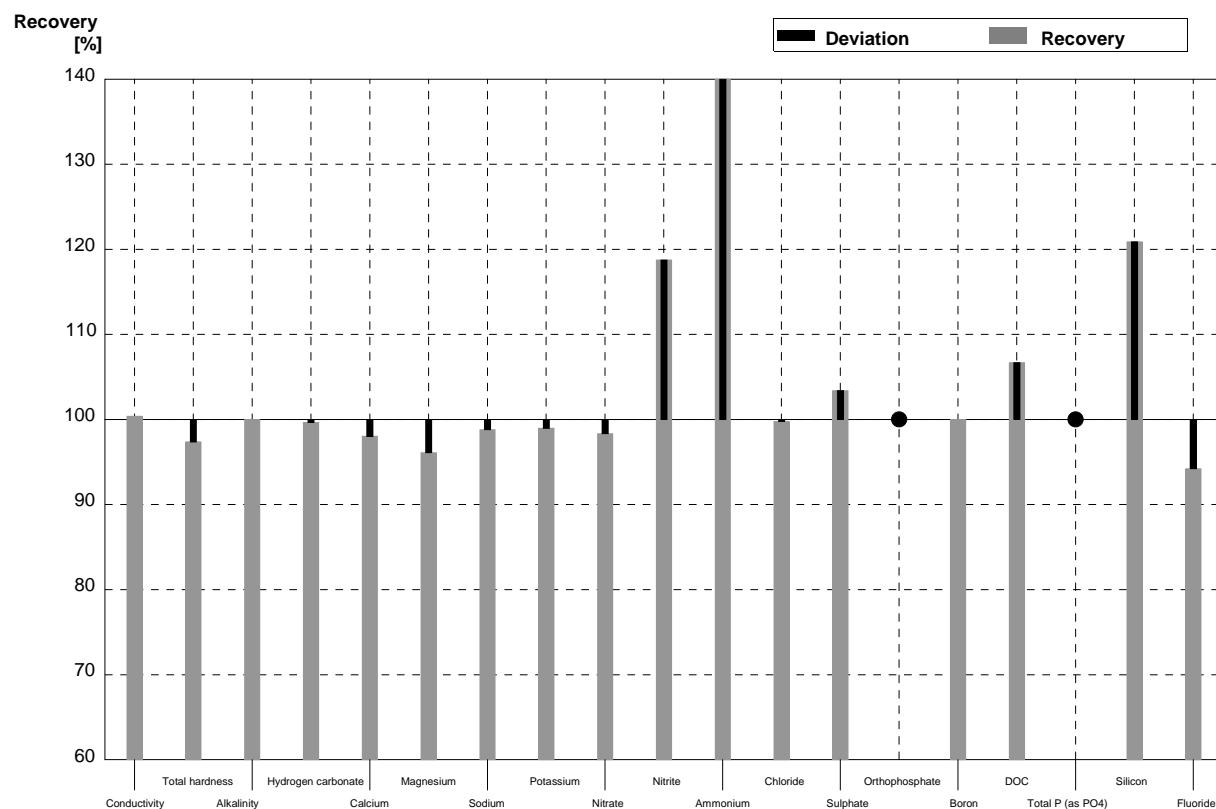
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1			µS/cm	
Total hardness	0,560	0,006			mmol/l	
Alkalinity	1,37	0,01			mmol/l	
Hydrogen carbonate	80,4	0,7			mg/l	
Calcium	16,3	0,2	16	0,80	mg/l	98%
Magnesium	3,73	0,05	3,5	0,18	mg/l	94%
Sodium	32,6	0,2	33	1,7	mg/l	101%
Potassium	2,93	0,02	3,3	0,17	mg/l	113%
Nitrate	16,6	0,3			mg/l	
Nitrite	0,0091	0,0002			mg/l	
Ammonium	<0,01		0,0097	0,00097	mg/l	•
Chloride	11,5	0,1			mg/l	
Sulphate	28,9	0,2			mg/l	
Orthophosphate	0,160	0,002			mg/l	
Boron	0,185	0,001	0,19	0,0095	mg/l	103%
DOC	2,16	0,04			mg/l	
Total P (as PO ₄)	0,070	0,001			mg/l	
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01			mg/l	



Sample N146A

Laboratory AA

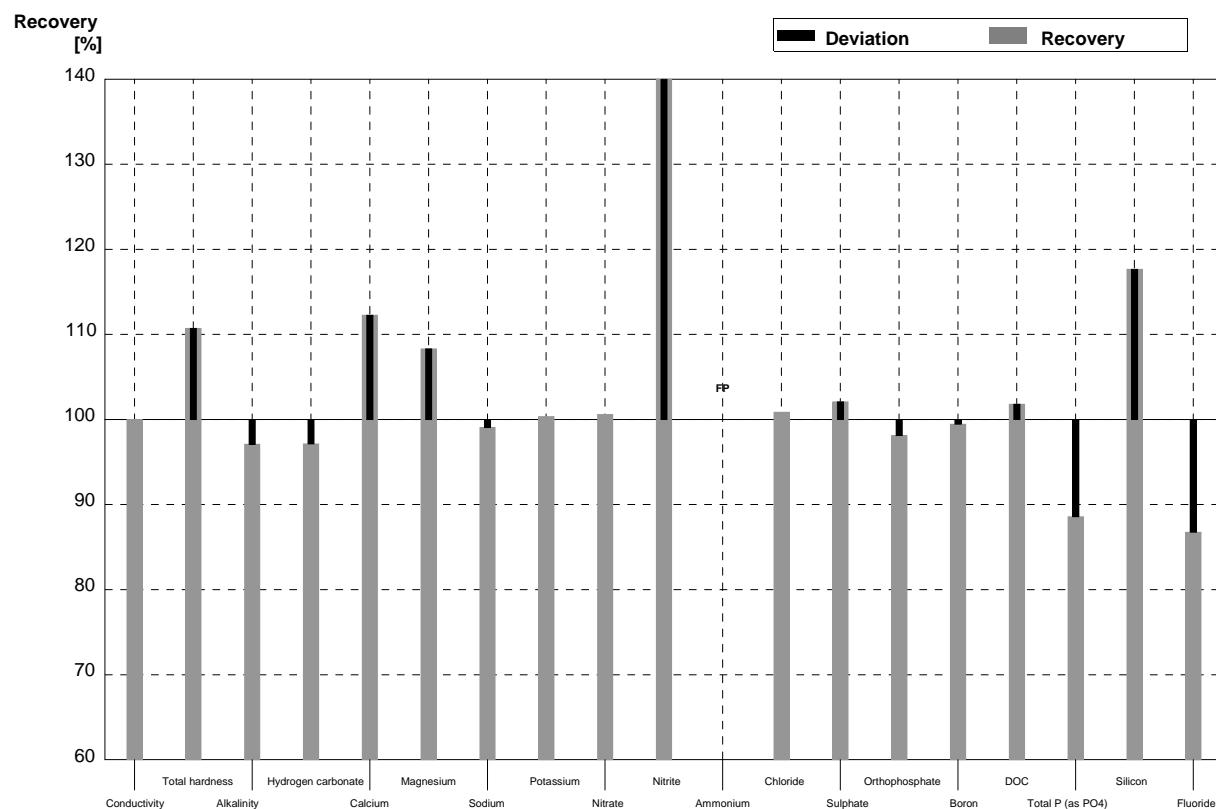
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	526	1	528		µS/cm	100%
Total hardness	1,90	0,02	1,85		mmol/l	97%
Alkalinity	1,46	0,02	1,46		mmol/l	100%
Hydrogen carbonate	86,3	1,4	86,0		mg/l	100%
Calcium	50,8	0,6	49,8	9,0	mg/l	98%
Magnesium	15,4	0,2	14,8	0,25	mg/l	96%
Sodium	25,2	0,3	24,9	1,5	mg/l	99%
Potassium	4,86	0,03	4,81	0,13	mg/l	99%
Nitrate	54,3	0,9	53,4	1,2	mg/l	98%
Nitrite	0,032	0,001	0,038	0,001	mg/l	119%
Ammonium	0,028	0,004	0,046	0,002	mg/l	164%
Chloride	43,3	0,6	43,2	0,5	mg/l	100%
Sulphate	70,5	0,4	72,9	2,6	mg/l	103%
Orthophosphate	<0,009		[0,002]		mg/l	•
Boron	0,045	0,001	0,045	0,003	mg/l	100%
DOC	1,18	0,04	1,259		mg/l	107%
Total P (as PO4)	<0,009		[0,00128]		mg/l	•
Silicon	1,00	0,02	1,209	0,020	mg/l	121%
Fluoride	0,605	0,004	0,57	0,13	mg/l	94%



Sample N146B

Laboratory AA

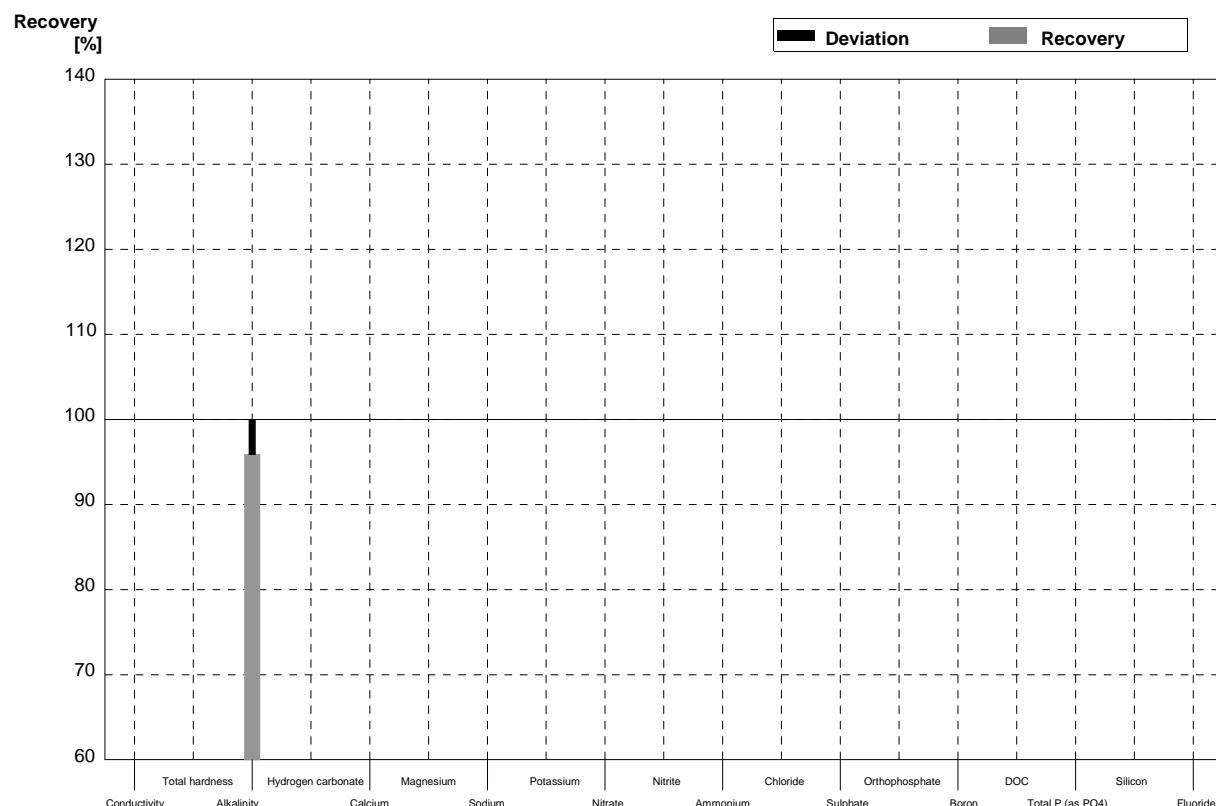
Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Conductivity	270	1	270		$\mu\text{S}/\text{cm}$	100%
Total hardness	0,560	0,006	0,62		mmol/l	111%
Alkalinity	1,37	0,01	1,33		mmol/l	97%
Hydrogen carbonate	80,4	0,7	78,1		mg/l	97%
Calcium	16,3	0,2	18,3	0,7	mg/l	112%
Magnesium	3,73	0,05	4,04	0,26	mg/l	108%
Sodium	32,6	0,2	32,3	1,5	mg/l	99%
Potassium	2,93	0,02	2,94	0,13	mg/l	100%
Nitrate	16,6	0,3	16,7	0,7	mg/l	101%
Nitrite	0,0091	0,0002	0,0146	0,0015	mg/l	160%
Ammonium	<0,01		0,015	0,003	mg/l	FP
Chloride	11,5	0,1	11,6	0,5	mg/l	101%
Sulphate	28,9	0,2	29,5	1,2	mg/l	102%
Orthophosphate	0,160	0,002	0,157	0,0008	mg/l	98%
Boron	0,185	0,001	0,184	0,003	mg/l	99%
DOC	2,16	0,04	2,199		mg/l	102%
Total P (as PO ₄)	0,070	0,001	0,062	0,004	mg/l	89%
Silicon	2,99	0,07	3,518	0,103	mg/l	118%
Fluoride	1,51	0,01	1,31	0,12	mg/l	87%



Sample N146A

Laboratory AB

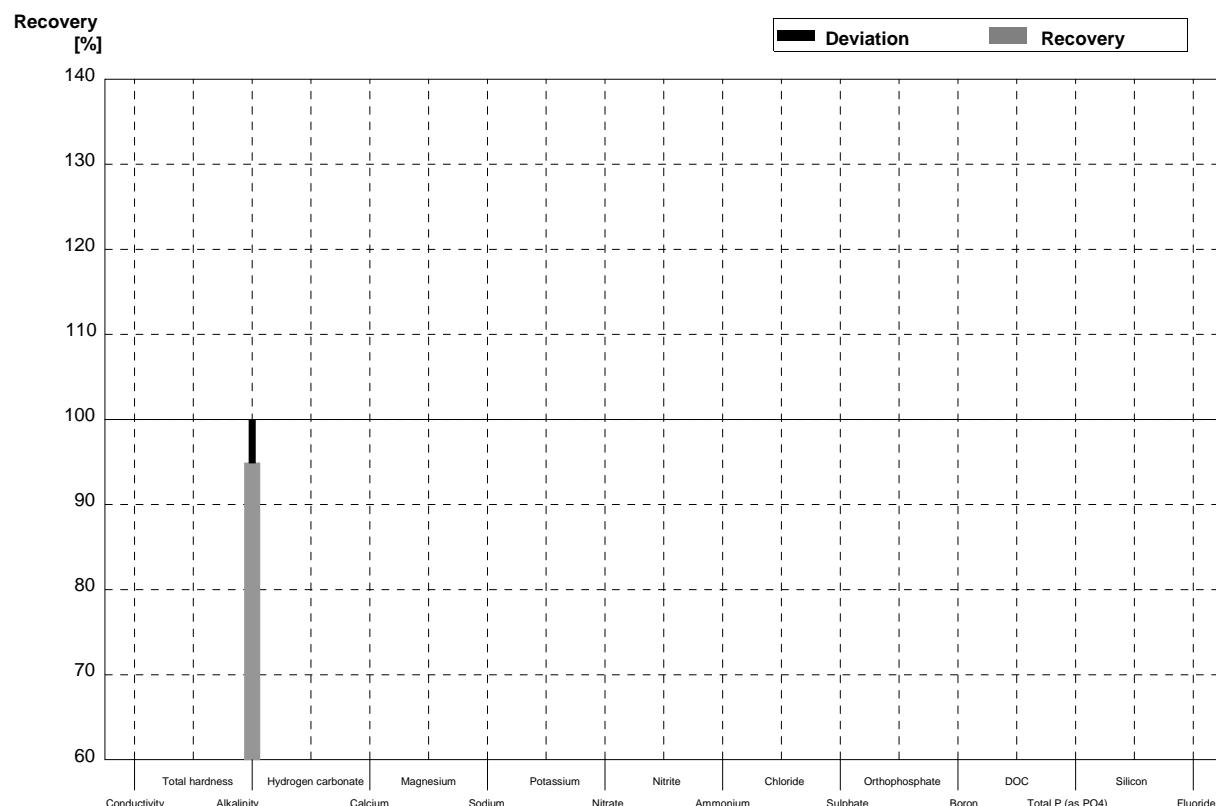
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	526	1			µS/cm	
Total hardness	1,90	0,02			mmol/l	
Alkalinity	1,46	0,02	1,4	0,14	mmol/l	96%
Hydrogen carbonate	86,3	1,4			mg/l	
Calcium	50,8	0,6			mg/l	
Magnesium	15,4	0,2			mg/l	
Sodium	25,2	0,3			mg/l	
Potassium	4,86	0,03			mg/l	
Nitrate	54,3	0,9			mg/l	
Nitrite	0,032	0,001			mg/l	
Ammonium	0,028	0,004			mg/l	
Chloride	43,3	0,6			mg/l	
Sulphate	70,5	0,4			mg/l	
Orthophosphate	<0,009				mg/l	
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04			mg/l	
Total P (as PO ₄)	<0,009				mg/l	
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004			mg/l	



Sample N146B

Laboratory AB

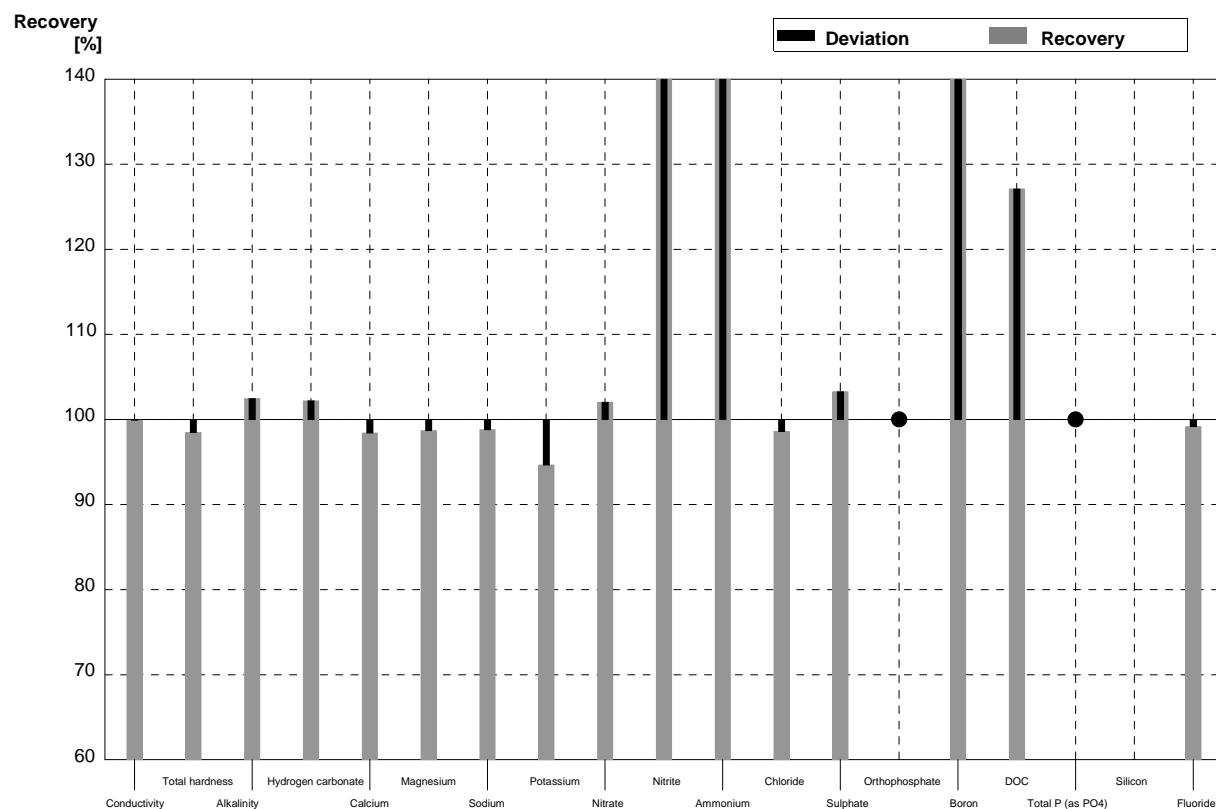
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1			µS/cm	
Total hardness	0,560	0,006			mmol/l	
Alkalinity	1,37	0,01	1,3	0,13	mmol/l	95%
Hydrogen carbonate	80,4	0,7			mg/l	
Calcium	16,3	0,2			mg/l	
Magnesium	3,73	0,05			mg/l	
Sodium	32,6	0,2			mg/l	
Potassium	2,93	0,02			mg/l	
Nitrate	16,6	0,3			mg/l	
Nitrite	0,0091	0,0002			mg/l	
Ammonium	<0,01				mg/l	
Chloride	11,5	0,1			mg/l	
Sulphate	28,9	0,2			mg/l	
Orthophosphate	0,160	0,002			mg/l	
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04			mg/l	
Total P (as PO ₄)	0,070	0,001			mg/l	
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01			mg/l	



Sample N146A

Laboratory AC

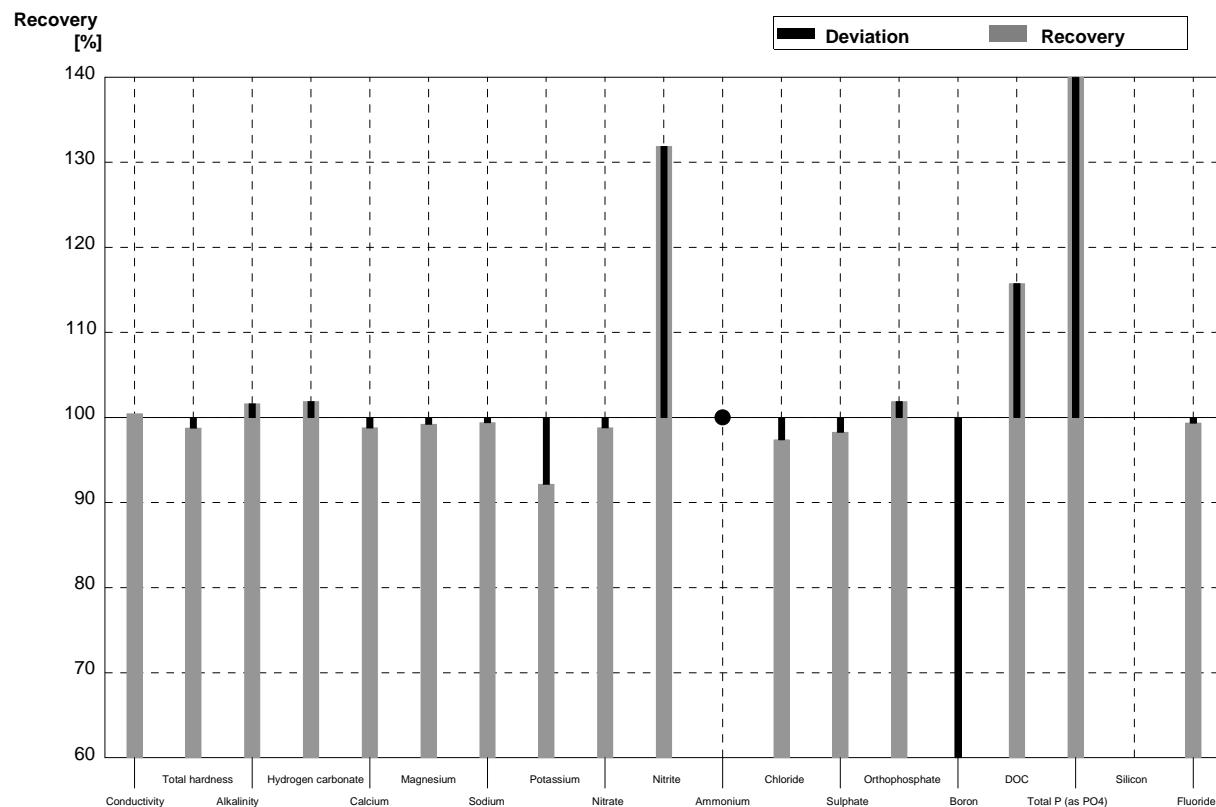
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	526	1	525,6		µS/cm	100%
Total hardness	1,90	0,02	1,871		mmol/l	98%
Alkalinity	1,46	0,02	1,496		mmol/l	102%
Hydrogen carbonate	86,3	1,4	88,2		mg/l	102%
Calcium	50,8	0,6	50		mg/l	98%
Magnesium	15,4	0,2	15,2		mg/l	99%
Sodium	25,2	0,3	24,9		mg/l	99%
Potassium	4,86	0,03	4,6		mg/l	95%
Nitrate	54,3	0,9	55,4		mg/l	102%
Nitrite	0,032	0,001	0,26		mg/l	813%
Ammonium	0,028	0,004	0,04		mg/l	143%
Chloride	43,3	0,6	42,7		mg/l	99%
Sulphate	70,5	0,4	72,8		mg/l	103%
Orthophosphate	<0,009		<0,03		mg/l	•
Boron	0,045	0,001	0,152		mg/l	338%
DOC	1,18	0,04	1,5		mg/l	127%
Total P (as PO4)	<0,009		<0,015		mg/l	•
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004	0,6		mg/l	99%



Sample N146B

Laboratory AC

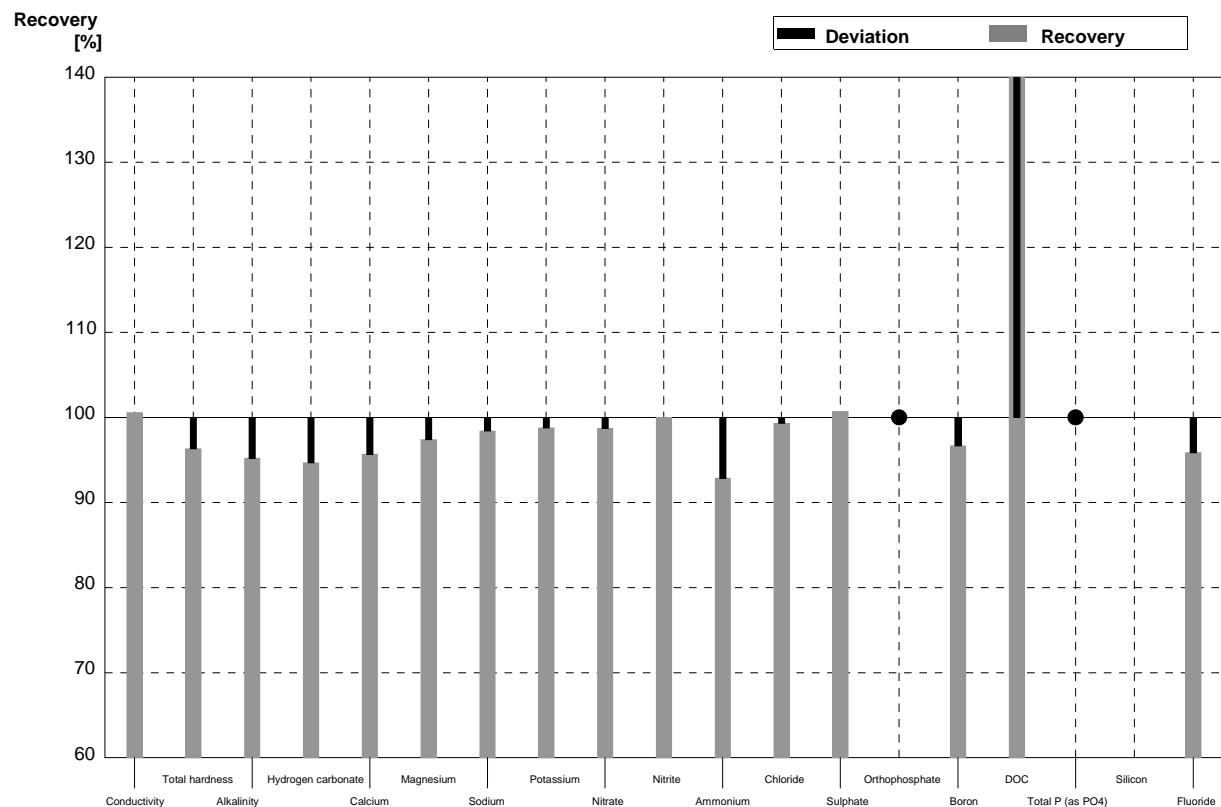
Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Conductivity	270	1	271,2		$\mu\text{S}/\text{cm}$	100%
Total hardness	0,560	0,006	0,553		mmol/l	99%
Alkalinity	1,37	0,01	1,392		mmol/l	102%
Hydrogen carbonate	80,4	0,7	81,9		mg/l	102%
Calcium	16,3	0,2	16,1		mg/l	99%
Magnesium	3,73	0,05	3,7		mg/l	99%
Sodium	32,6	0,2	32,4		mg/l	99%
Potassium	2,93	0,02	2,7		mg/l	92%
Nitrate	16,6	0,3	16,4		mg/l	99%
Nitrite	0,0091	0,0002	0,012		mg/l	132%
Ammonium	<0,01		<0,03		mg/l	•
Chloride	11,5	0,1	11,2		mg/l	97%
Sulphate	28,9	0,2	28,4		mg/l	98%
Orthophosphate	0,160	0,002	0,163		mg/l	102%
Boron	0,185	0,001	0,042		mg/l	23%
DOC	2,16	0,04	2,5		mg/l	116%
Total P (as PO ₄)	0,070	0,001	0,147		mg/l	210%
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01	1,5		mg/l	99%



Sample N146A

Laboratory AD

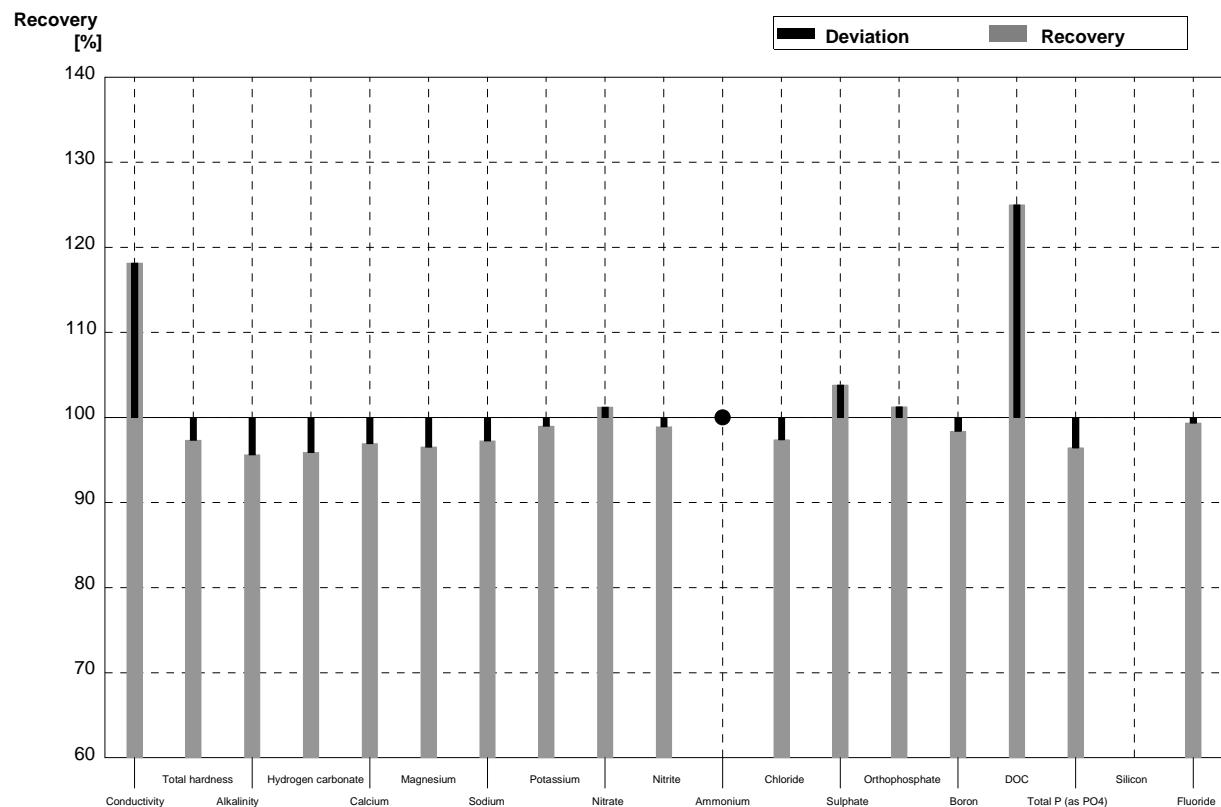
Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Conductivity	526	1	529	21	$\mu\text{S}/\text{cm}$	101%
Total hardness	1,90	0,02	1,83	0,98	mmol/l	96%
Alkalinity	1,46	0,02	1,39	0,11	mmol/l	95%
Hydrogen carbonate	86,3	1,4	81,7	7,0	mg/l	95%
Calcium	50,8	0,6	48,6	2,3	mg/l	96%
Magnesium	15,4	0,2	15,0	1,0	mg/l	97%
Sodium	25,2	0,3	24,8	1,3	mg/l	98%
Potassium	4,86	0,03	4,8	0,2	mg/l	99%
Nitrate	54,3	0,9	53,6	6,6	mg/l	99%
Nitrite	0,032	0,001	0,032	0,005	mg/l	100%
Ammonium	0,028	0,004	0,026	0,006	mg/l	93%
Chloride	43,3	0,6	43,0	3,4	mg/l	99%
Sulphate	70,5	0,4	71,0	6,5	mg/l	101%
Orthophosphate	<0,009		<0,01		mg/l	•
Boron	0,045	0,001	0,0435	0,0070	mg/l	97%
DOC	1,18	0,04	1,7	0,3	mg/l	144%
Total P (as PO ₄)	<0,009		<0,01		mg/l	•
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004	0,58	0,12	mg/l	96%



Sample N146B

Laboratory AD

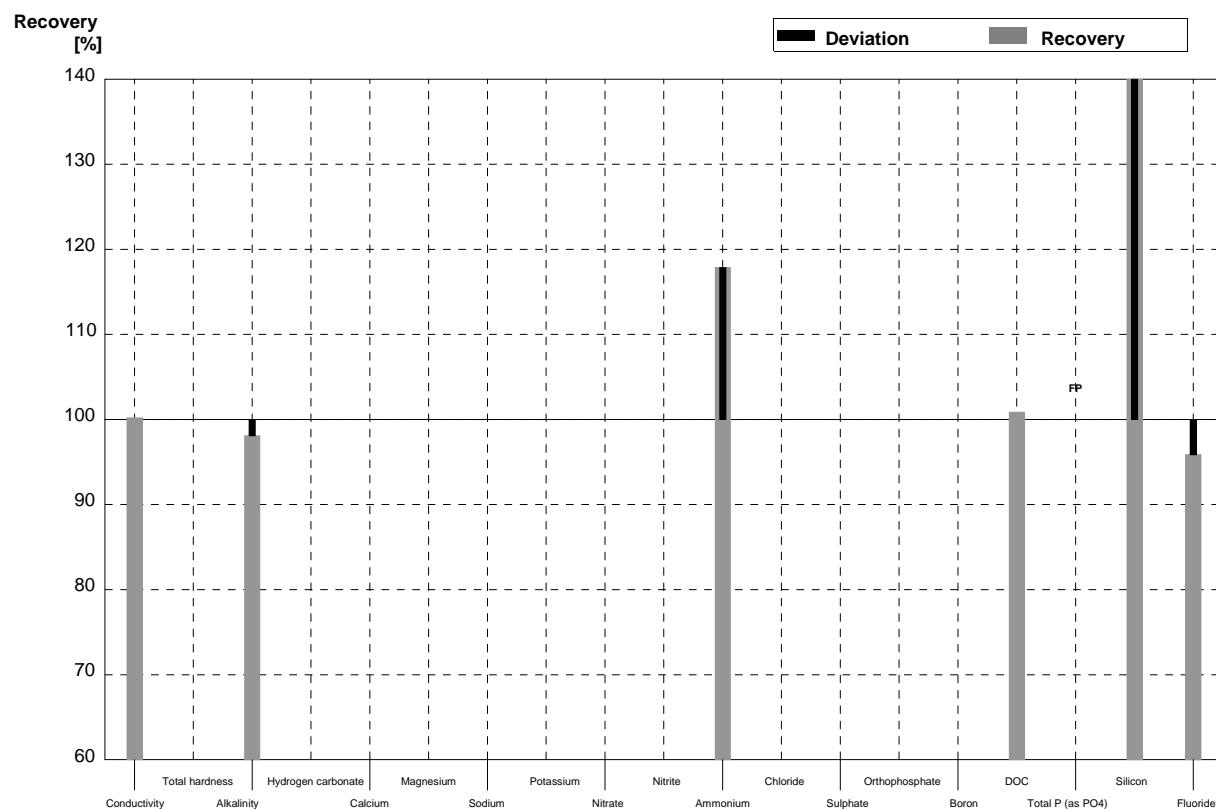
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1	319	13	µS/cm	118%
Total hardness	0,560	0,006	0,545	0,32	mmol/l	97%
Alkalinity	1,37	0,01	1,31	0,11	mmol/l	96%
Hydrogen carbonate	80,4	0,7	77,1	7,0	mg/l	96%
Calcium	16,3	0,2	15,8	0,8	mg/l	97%
Magnesium	3,73	0,05	3,6	0,3	mg/l	97%
Sodium	32,6	0,2	31,7	1,6	mg/l	97%
Potassium	2,93	0,02	2,9	0,2	mg/l	99%
Nitrate	16,6	0,3	16,8	2,1	mg/l	101%
Nitrite	0,0091	0,0002	0,009	0,003	mg/l	99%
Ammonium	<0,01		<0,01		mg/l	•
Chloride	11,5	0,1	11,2	1,1	mg/l	97%
Sulphate	28,9	0,2	30,0	2,9	mg/l	104%
Orthophosphate	0,160	0,002	0,162	0,020	mg/l	101%
Boron	0,185	0,001	0,182	0,024	mg/l	98%
DOC	2,16	0,04	2,7	0,5	mg/l	125%
Total P (as PO4)	0,070	0,001	0,0675	0,0105	mg/l	96%
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01	1,5	0,3	mg/l	99%



Sample N146A

Laboratory AE

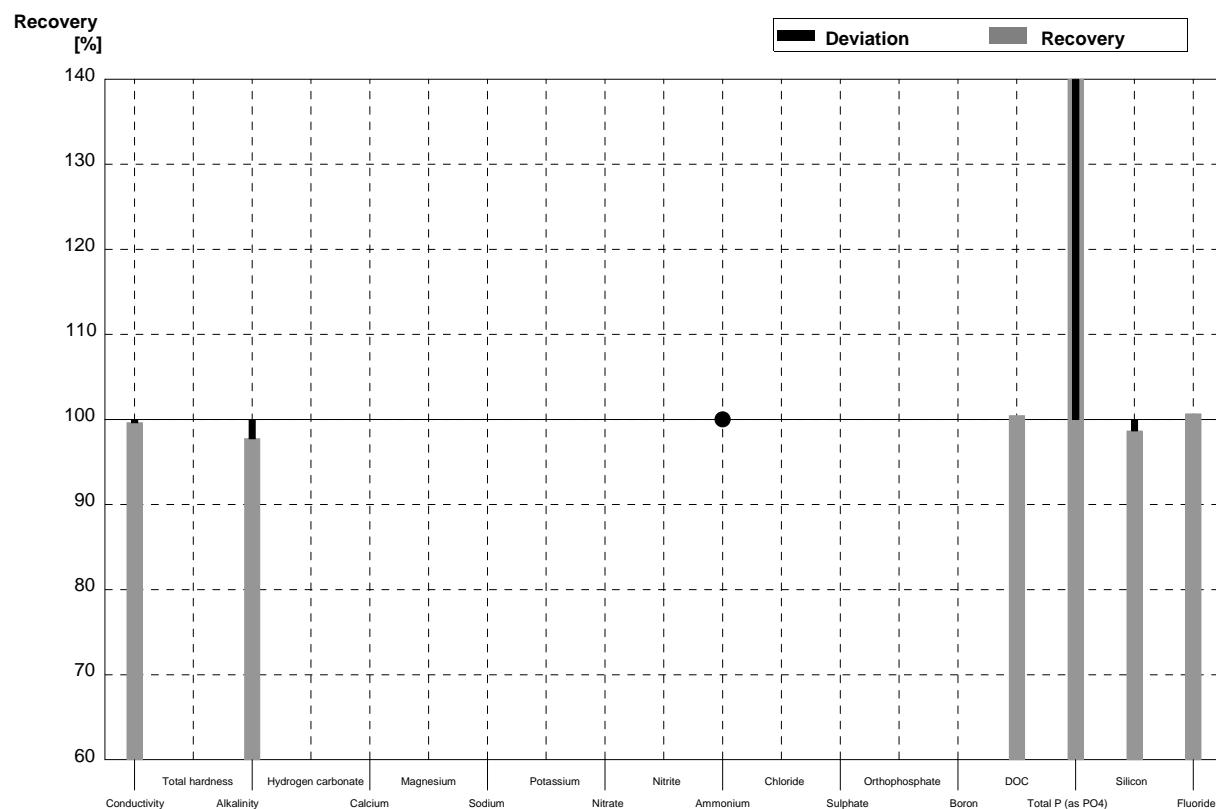
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	526	1	527	11	µS/cm	100%
Total hardness	1,90	0,02			mmol/l	
Alkalinity	1,46	0,02	1,432	0,143	mmol/l	98%
Hydrogen carbonate	86,3	1,4			mg/l	
Calcium	50,8	0,6			mg/l	
Magnesium	15,4	0,2			mg/l	
Sodium	25,2	0,3			mg/l	
Potassium	4,86	0,03			mg/l	
Nitrate	54,3	0,9			mg/l	
Nitrite	0,032	0,001			mg/l	
Ammonium	0,028	0,004	0,033	0,010	mg/l	118%
Chloride	43,3	0,6			mg/l	
Sulphate	70,5	0,4			mg/l	
Orthophosphate	<0,009				mg/l	
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04	1,19	0,10	mg/l	101%
Total P (as PO ₄)	<0,009		0,78	0,21	mg/l	FP
Silicon	1,00	0,02	3,61	0,29	mg/l	361%
Fluoride	0,605	0,004	0,58	0,07	mg/l	96%



Sample N146B

Laboratory AE

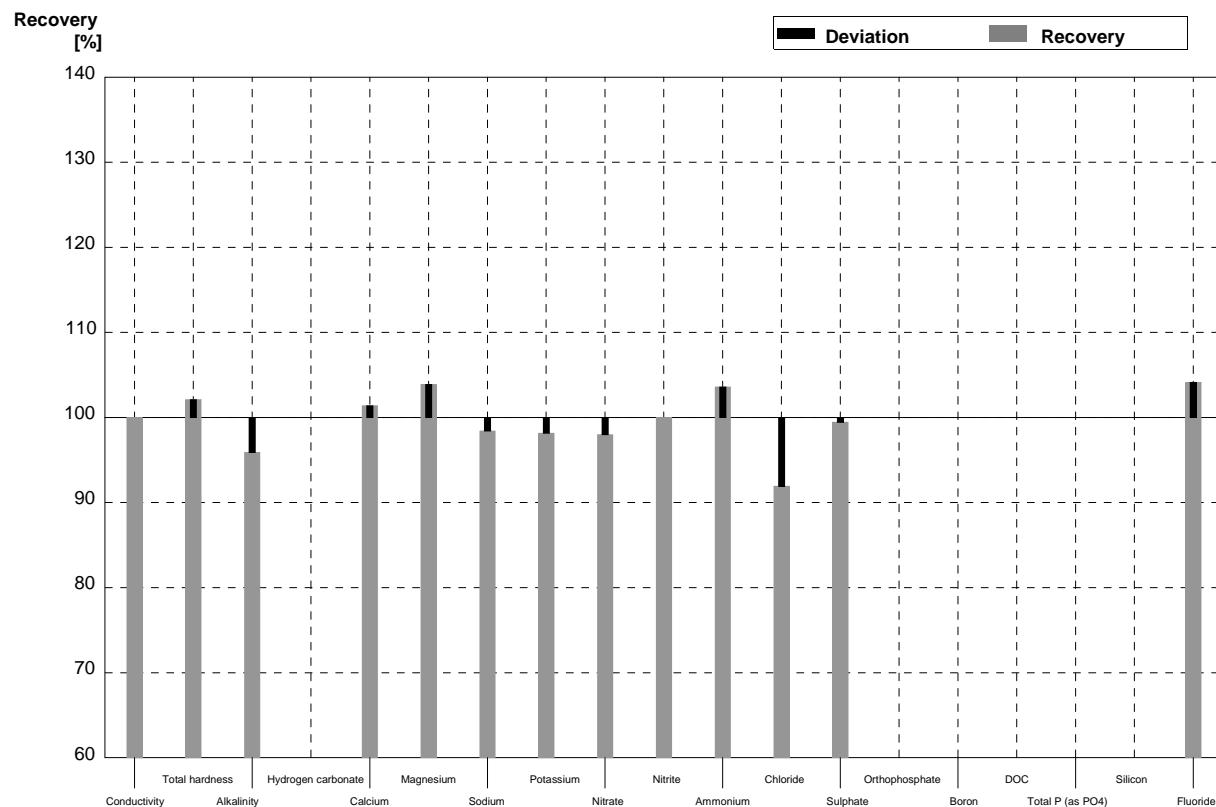
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1	269	5	µS/cm	100%
Total hardness	0,560	0,006			mmol/l	
Alkalinity	1,37	0,01	1,339	0,134	mmol/l	98%
Hydrogen carbonate	80,4	0,7			mg/l	
Calcium	16,3	0,2			mg/l	
Magnesium	3,73	0,05			mg/l	
Sodium	32,6	0,2			mg/l	
Potassium	2,93	0,02			mg/l	
Nitrate	16,6	0,3			mg/l	
Nitrite	0,0091	0,0002			mg/l	
Ammonium	<0,01		<0,010		mg/l	•
Chloride	11,5	0,1			mg/l	
Sulphate	28,9	0,2			mg/l	
Orthophosphate	0,160	0,002			mg/l	
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04	2,17	0,17	mg/l	100%
Total P (as PO ₄)	0,070	0,001	0,16	0,04	mg/l	229%
Silicon	2,99	0,07	2,95	0,24	mg/l	99%
Fluoride	1,51	0,01	1,52	0,18	mg/l	101%



Sample N146A

Laboratory AF

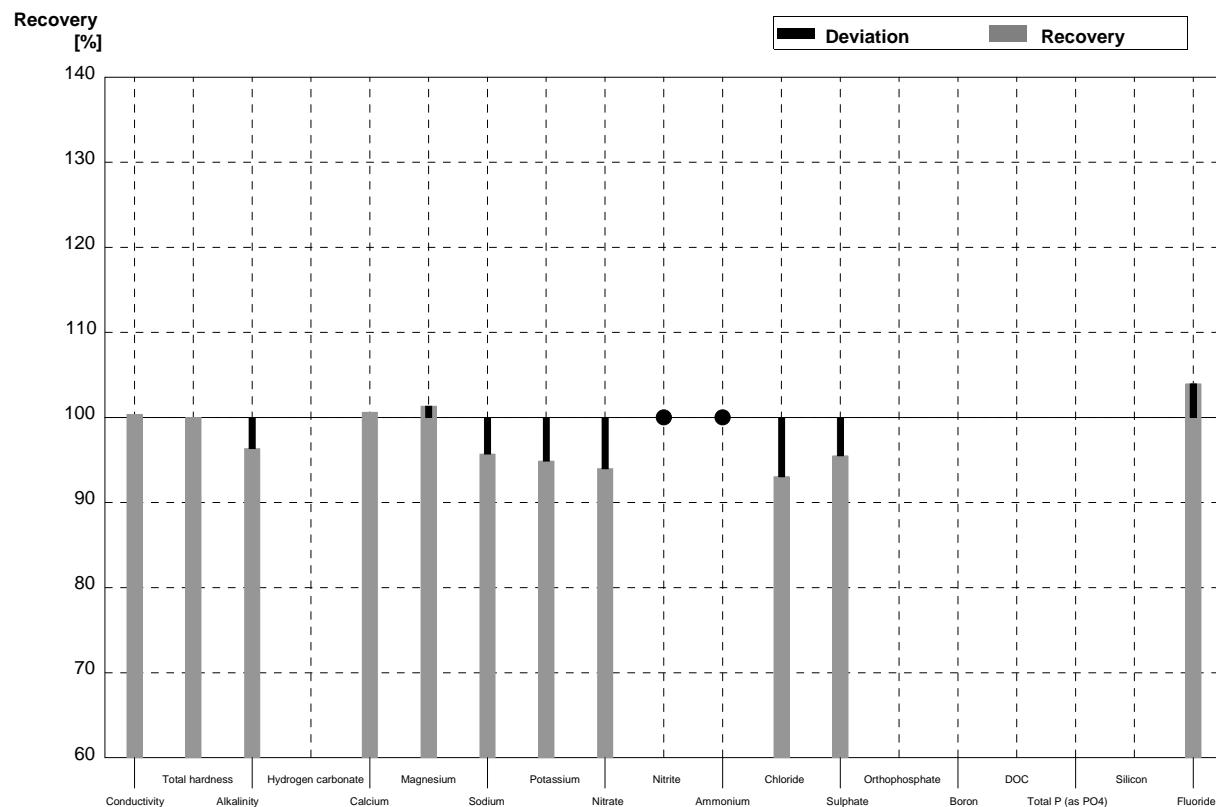
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	526	1	526	5	µS/cm	100%
Total hardness	1,90	0,02	1,94	0,2	mmol/l	102%
Alkalinity	1,46	0,02	1,40	0,14	mmol/l	96%
Hydrogen carbonate	86,3	1,4			mg/l	
Calcium	50,8	0,6	51,5	5,2	mg/l	101%
Magnesium	15,4	0,2	16,0	1,6	mg/l	104%
Sodium	25,2	0,3	24,8	2,5	mg/l	98%
Potassium	4,86	0,03	4,77	0,48	mg/l	98%
Nitrate	54,3	0,9	53,2	5,3	mg/l	98%
Nitrite	0,032	0,001	0,032	0,005	mg/l	100%
Ammonium	0,028	0,004	0,029	0,005	mg/l	104%
Chloride	43,3	0,6	39,8	4,0	mg/l	92%
Sulphate	70,5	0,4	70,1	7,0	mg/l	99%
Orthophosphate	<0,009				mg/l	
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04			mg/l	
Total P (as PO4)	<0,009				mg/l	
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004	0,63	0,1	mg/l	104%



Sample N146B

Laboratory AF

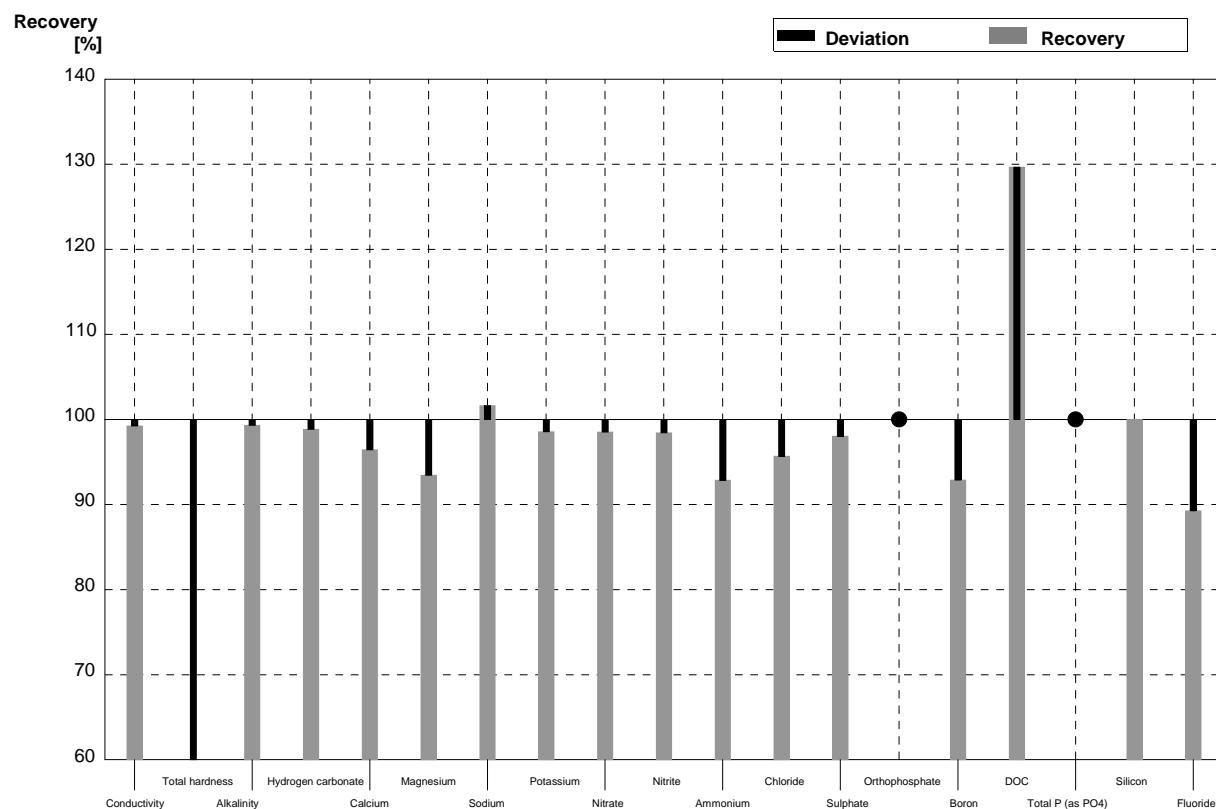
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1	271	5	µS/cm	100%
Total hardness	0,560	0,006	0,56	0,1	mmol/l	100%
Alkalinity	1,37	0,01	1,32	0,13	mmol/l	96%
Hydrogen carbonate	80,4	0,7			mg/l	
Calcium	16,3	0,2	16,4	1,7	mg/l	101%
Magnesium	3,73	0,05	3,78	0,38	mg/l	101%
Sodium	32,6	0,2	31,2	3,2	mg/l	96%
Potassium	2,93	0,02	2,78	0,28	mg/l	95%
Nitrate	16,6	0,3	15,6	1,6	mg/l	94%
Nitrite	0,0091	0,0002	<0,010		mg/l	•
Ammonium	<0,01		<0,010		mg/l	•
Chloride	11,5	0,1	10,7	1,1	mg/l	93%
Sulphate	28,9	0,2	27,6	2,8	mg/l	96%
Orthophosphate	0,160	0,002			mg/l	
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04			mg/l	
Total P (as PO4)	0,070	0,001			mg/l	
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01	1,57	0,16	mg/l	104%



Sample N146A

Laboratory AG

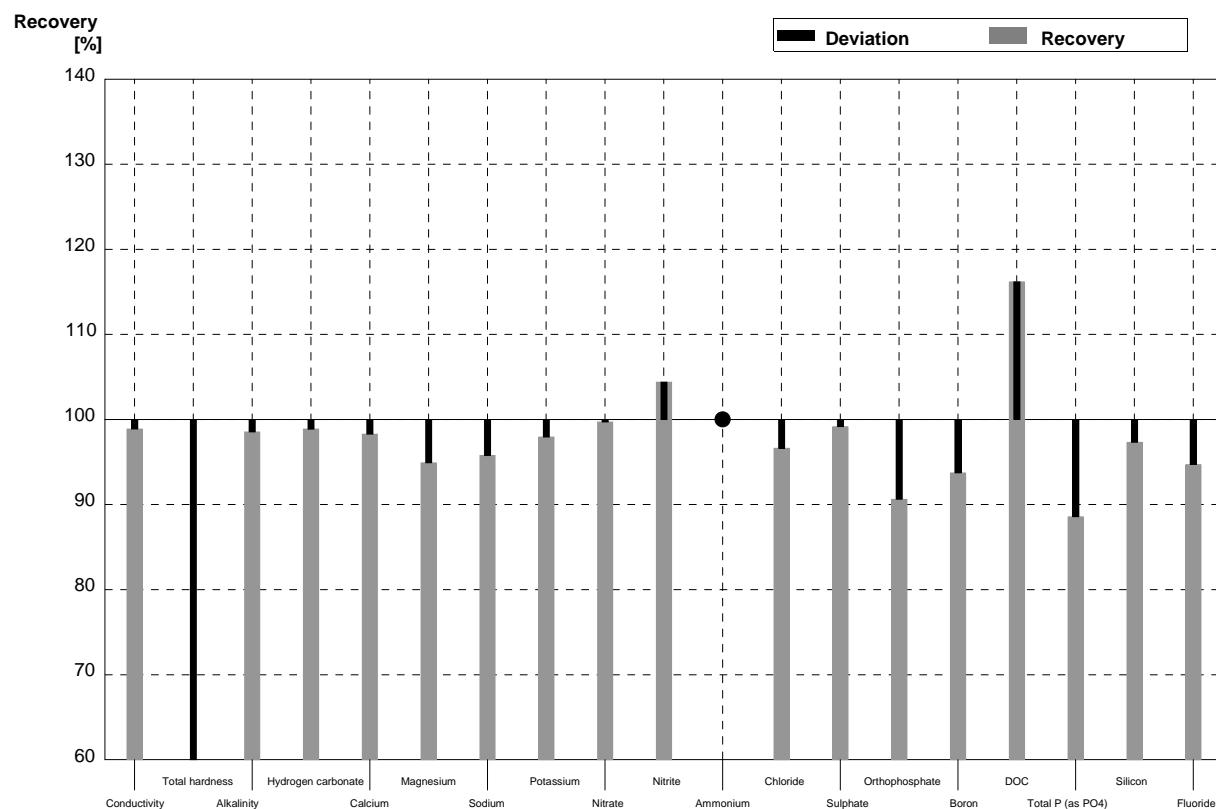
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	526	1	522	10	µS/cm	99%
Total hardness	1,90	0,02	0,55	0,07	mmol/l	29%
Alkalinity	1,46	0,02	1,45	0,13	mmol/l	99%
Hydrogen carbonate	86,3	1,4	85,3	7,7	mg/l	99%
Calcium	50,8	0,6	48,99	4,90	mg/l	96%
Magnesium	15,4	0,2	14,39	1,15	mg/l	93%
Sodium	25,2	0,3	25,61	2,31	mg/l	102%
Potassium	4,86	0,03	4,79	0,43	mg/l	99%
Nitrate	54,3	0,9	53,50	4,82	mg/l	99%
Nitrite	0,032	0,001	0,0315	0,0022	mg/l	98%
Ammonium	0,028	0,004	0,026	0,004	mg/l	93%
Chloride	43,3	0,6	41,43	4,97	mg/l	96%
Sulphate	70,5	0,4	69,11	6,91	mg/l	98%
Orthophosphate	<0,009		<0,01		mg/l	•
Boron	0,045	0,001	0,0418	0,0088	mg/l	93%
DOC	1,18	0,04	1,53	0,11	mg/l	130%
Total P (as PO4)	<0,009		<0,01		mg/l	•
Silicon	1,00	0,02	1,00	0,10	mg/l	100%
Fluoride	0,605	0,004	0,54	0,03	mg/l	89%



Sample N146B

Laboratory AG

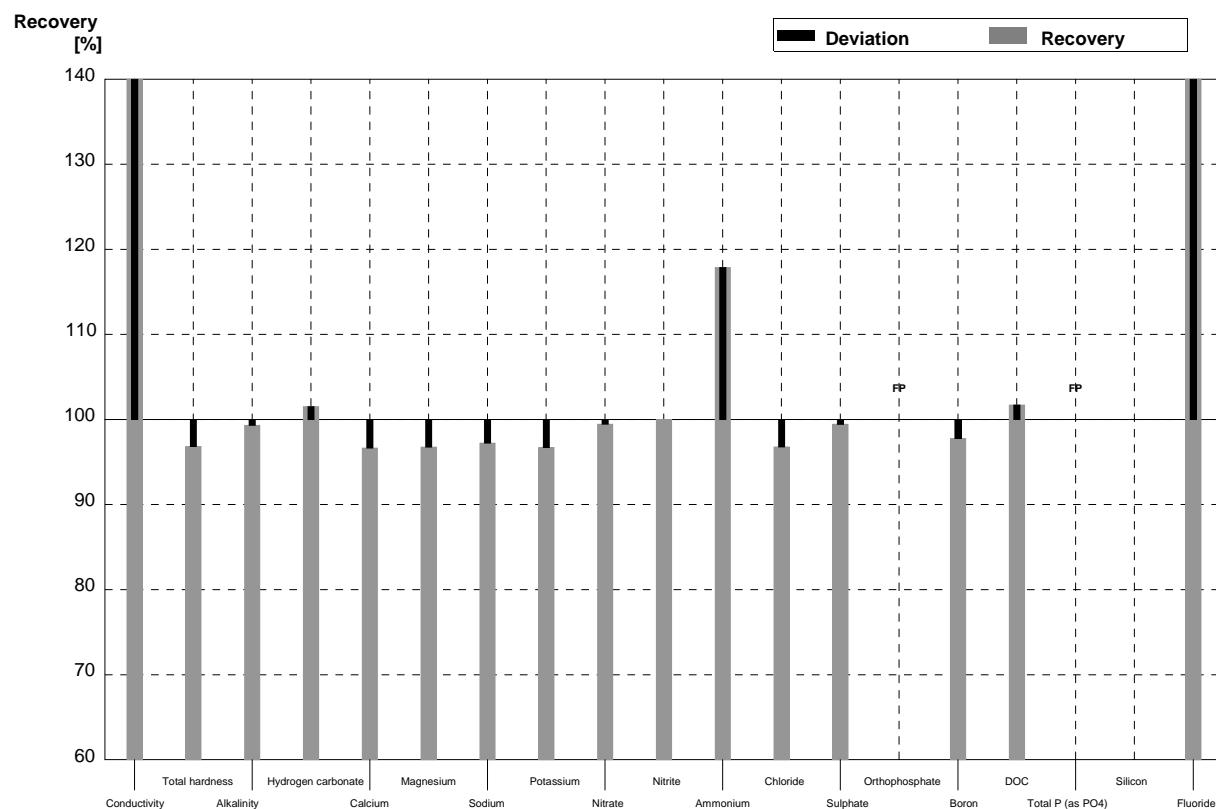
Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Conductivity	270	1	267	5	$\mu\text{S}/\text{cm}$	99%
Total hardness	0,560	0,006	0,21	0,03	mmol/l	38%
Alkalinity	1,37	0,01	1,35	0,12	mmol/l	99%
Hydrogen carbonate	80,4	0,7	79,5	7,2	mg/l	99%
Calcium	16,3	0,2	16,02	1,60	mg/l	98%
Magnesium	3,73	0,05	3,54	0,28	mg/l	95%
Sodium	32,6	0,2	31,22	2,81	mg/l	96%
Potassium	2,93	0,02	2,87	0,26	mg/l	98%
Nitrate	16,6	0,3	16,55	1,49	mg/l	100%
Nitrite	0,0091	0,0002	0,0095	0,0007	mg/l	104%
Ammonium	<0,01		<0,01		mg/l	•
Chloride	11,5	0,1	11,11	1,33	mg/l	97%
Sulphate	28,9	0,2	28,66	2,87	mg/l	99%
Orthophosphate	0,160	0,002	0,145	0,022	mg/l	91%
Boron	0,185	0,001	0,1734	0,0364	mg/l	94%
DOC	2,16	0,04	2,51	0,18	mg/l	116%
Total P (as PO ₄)	0,070	0,001	0,062	0,009	mg/l	89%
Silicon	2,99	0,07	2,91	0,29	mg/l	97%
Fluoride	1,51	0,01	1,43	0,09	mg/l	95%



Sample N146A

Laboratory AH

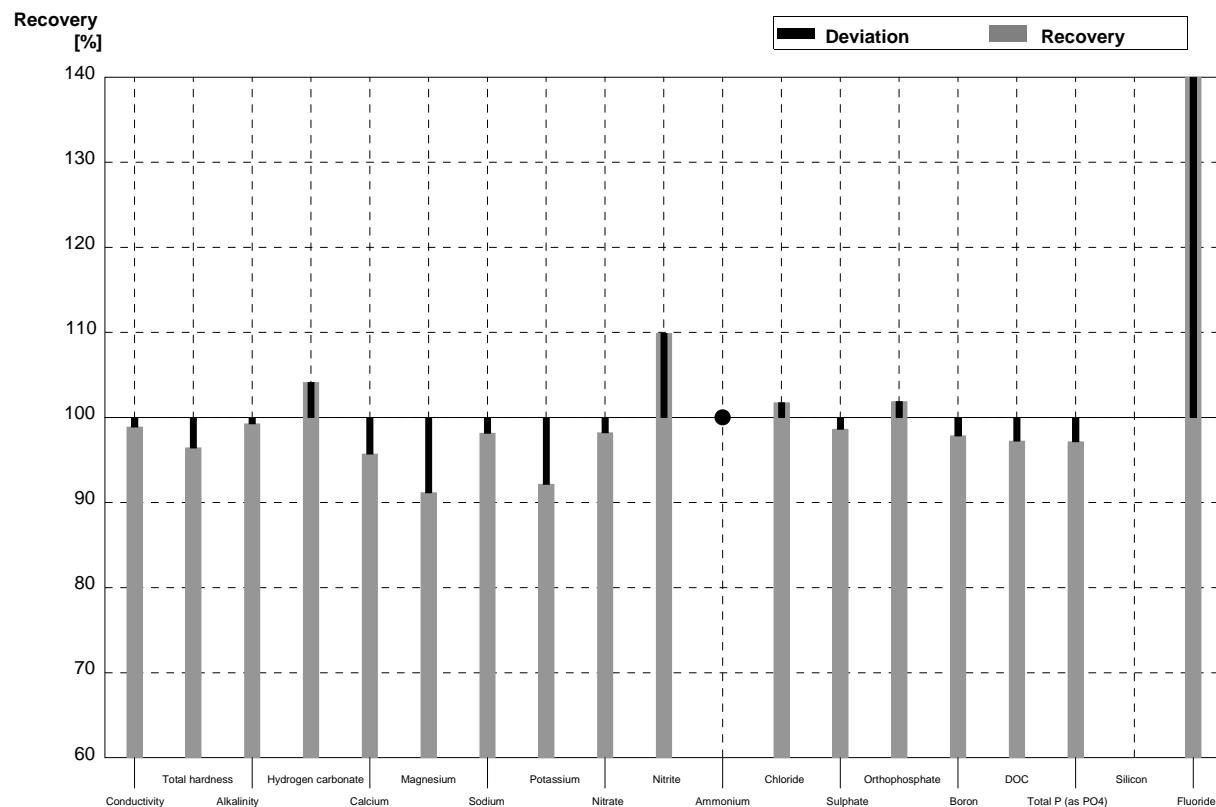
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	526	1	791	15	µS/cm	150%
Total hardness	1,90	0,02	1,84	0,42	mmol/l	97%
Alkalinity	1,46	0,02	1,45	0,09	mmol/l	99%
Hydrogen carbonate	86,3	1,4	87,6	4,0	mg/l	102%
Calcium	50,8	0,6	49,1	4,9	mg/l	97%
Magnesium	15,4	0,2	14,9	0,9	mg/l	97%
Sodium	25,2	0,3	24,5	1,5	mg/l	97%
Potassium	4,86	0,03	4,7	0,5	mg/l	97%
Nitrate	54,3	0,9	54,0	3,2	mg/l	99%
Nitrite	0,032	0,001	0,032	0,002	mg/l	100%
Ammonium	0,028	0,004	0,033	0,014	mg/l	118%
Chloride	43,3	0,6	41,9	3,4	mg/l	97%
Sulphate	70,5	0,4	70,1	4,2	mg/l	99%
Orthophosphate	<0,009		0,014	0,002	mg/l	FP
Boron	0,045	0,001	0,044	0,004	mg/l	98%
DOC	1,18	0,04	1,2	0,2	mg/l	102%
Total P (as PO4)	<0,009		0,015	0,002	mg/l	FP
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004	1,34	0,13	mg/l	221%



Sample N146B

Laboratory AH

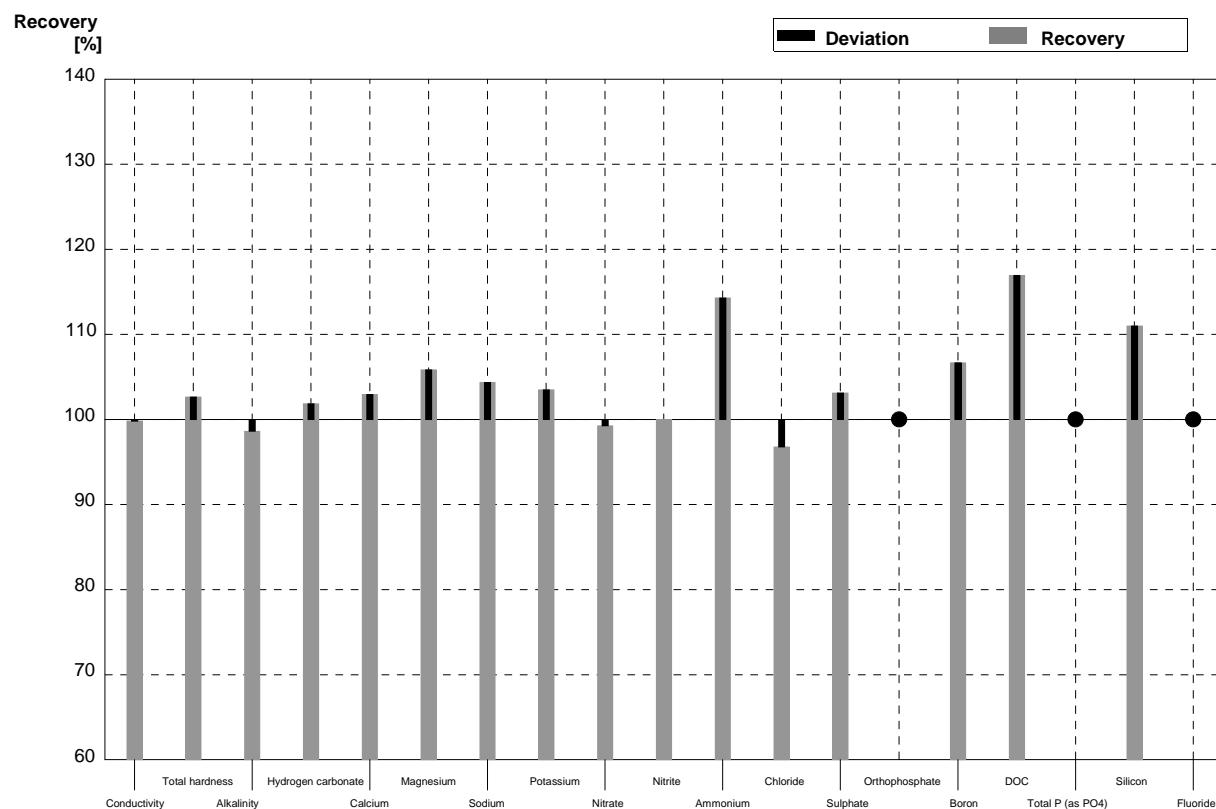
Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Conductivity	270	1	267	5	$\mu\text{S}/\text{cm}$	99%
Total hardness	0,560	0,006	0,54	0,12	mmol/l	96%
Alkalinity	1,37	0,01	1,36	0,08	mmol/l	99%
Hydrogen carbonate	80,4	0,7	83,7	3,0	mg/l	104%
Calcium	16,3	0,2	15,6	1,6	mg/l	96%
Magnesium	3,73	0,05	3,4	0,2	mg/l	91%
Sodium	32,6	0,2	32,0	1,9	mg/l	98%
Potassium	2,93	0,02	2,7	0,3	mg/l	92%
Nitrate	16,6	0,3	16,3	1,0	mg/l	98%
Nitrite	0,0091	0,0002	0,010	0,001	mg/l	110%
Ammonium	<0,01		<0,02	0,004	mg/l	•
Chloride	11,5	0,1	11,7	0,9	mg/l	102%
Sulphate	28,9	0,2	28,5	1,7	mg/l	99%
Orthophosphate	0,160	0,002	0,163	0,026	mg/l	102%
Boron	0,185	0,001	0,181	0,013	mg/l	98%
DOC	2,16	0,04	2,1	0,3	mg/l	97%
Total P (as PO ₄)	0,070	0,001	0,068	0,009	mg/l	97%
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01	2,45	0,25	mg/l	162%



Sample N146A

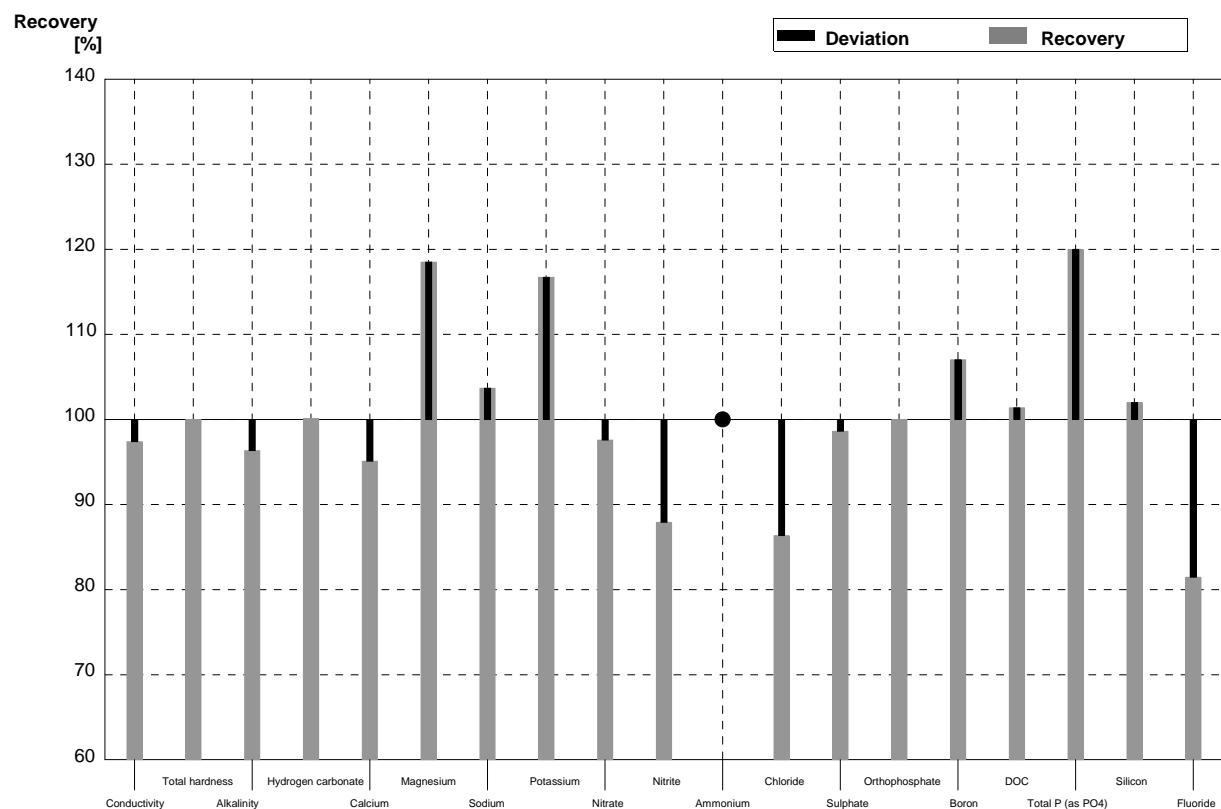
Laboratory AI

Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Conductivity	526	1	525	16	$\mu\text{S}/\text{cm}$	100%
Total hardness	1,90	0,02	1,95	0,29	mmol/l	103%
Alkalinity	1,46	0,02	1,44	0,22	mmol/l	99%
Hydrogen carbonate	86,3	1,4	87,9	8,79	mg/l	102%
Calcium	50,8	0,6	52,3	7,85	mg/l	103%
Magnesium	15,4	0,2	16,3	2,4	mg/l	106%
Sodium	25,2	0,3	26,3	3,9	mg/l	104%
Potassium	4,86	0,03	5,03	0,75	mg/l	103%
Nitrate	54,3	0,9	53,9	8,1	mg/l	99%
Nitrite	0,032	0,001	0,032	0,005	mg/l	100%
Ammonium	0,028	0,004	0,032	0,005	mg/l	114%
Chloride	43,3	0,6	41,9	6,3	mg/l	97%
Sulphate	70,5	0,4	72,7	10,9	mg/l	103%
Orthophosphate	<0,009		<0,015		mg/l	•
Boron	0,045	0,001	0,048	0,007	mg/l	107%
DOC	1,18	0,04	1,38	0,21	mg/l	117%
Total P (as PO ₄)	<0,009		<0,015		mg/l	•
Silicon	1,00	0,02	1,11	0,17	mg/l	111%
Fluoride	0,605	0,004	<1		mg/l	•



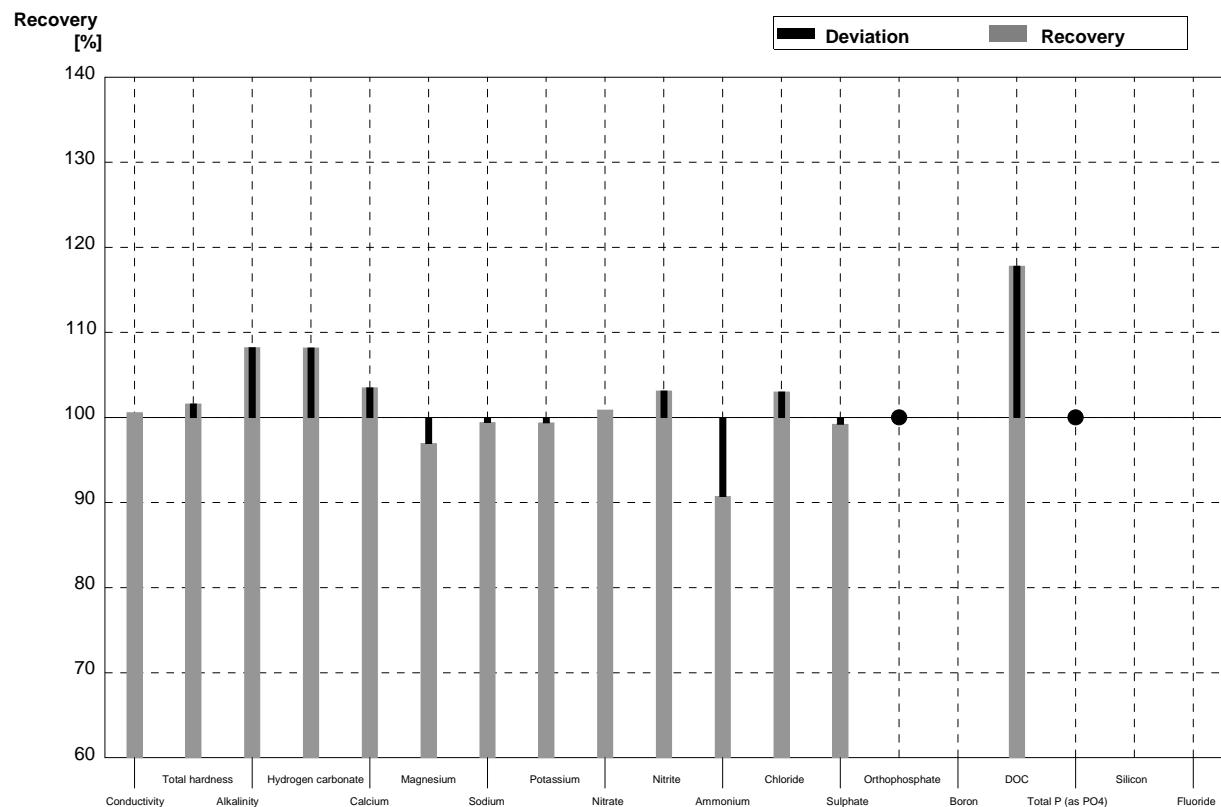
Sample N146B**Laboratory AI**

Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Conductivity	270	1	263	8	$\mu\text{S}/\text{cm}$	97%
Total hardness	0,560	0,006	0,56	0,08	mmol/l	100%
Alkalinity	1,37	0,01	1,32	0,20	mmol/l	96%
Hydrogen carbonate	80,4	0,7	80,5	8,05	mg/l	100%
Calcium	16,3	0,2	15,5	2,3	mg/l	95%
Magnesium	3,73	0,05	4,42	0,66	mg/l	118%
Sodium	32,6	0,2	33,8	5,1	mg/l	104%
Potassium	2,93	0,02	3,42	0,51	mg/l	117%
Nitrate	16,6	0,3	16,2	2,4	mg/l	98%
Nitrite	0,0091	0,0002	0,008	0,001	mg/l	88%
Ammonium	<0,01		<0,04		mg/l	•
Chloride	11,5	0,1	9,93	1,49	mg/l	86%
Sulphate	28,9	0,2	28,5	4,3	mg/l	99%
Orthophosphate	0,160	0,002	0,160	0,024	mg/l	100%
Boron	0,185	0,001	0,198	0,030	mg/l	107%
DOC	2,16	0,04	2,19	0,33	mg/l	101%
Total P (as PO ₄)	0,070	0,001	0,084	0,013	mg/l	120%
Silicon	2,99	0,07	3,05	0,46	mg/l	102%
Fluoride	1,51	0,01	1,23	0,18	mg/l	81%



Sample N146A**Laboratory AJ**

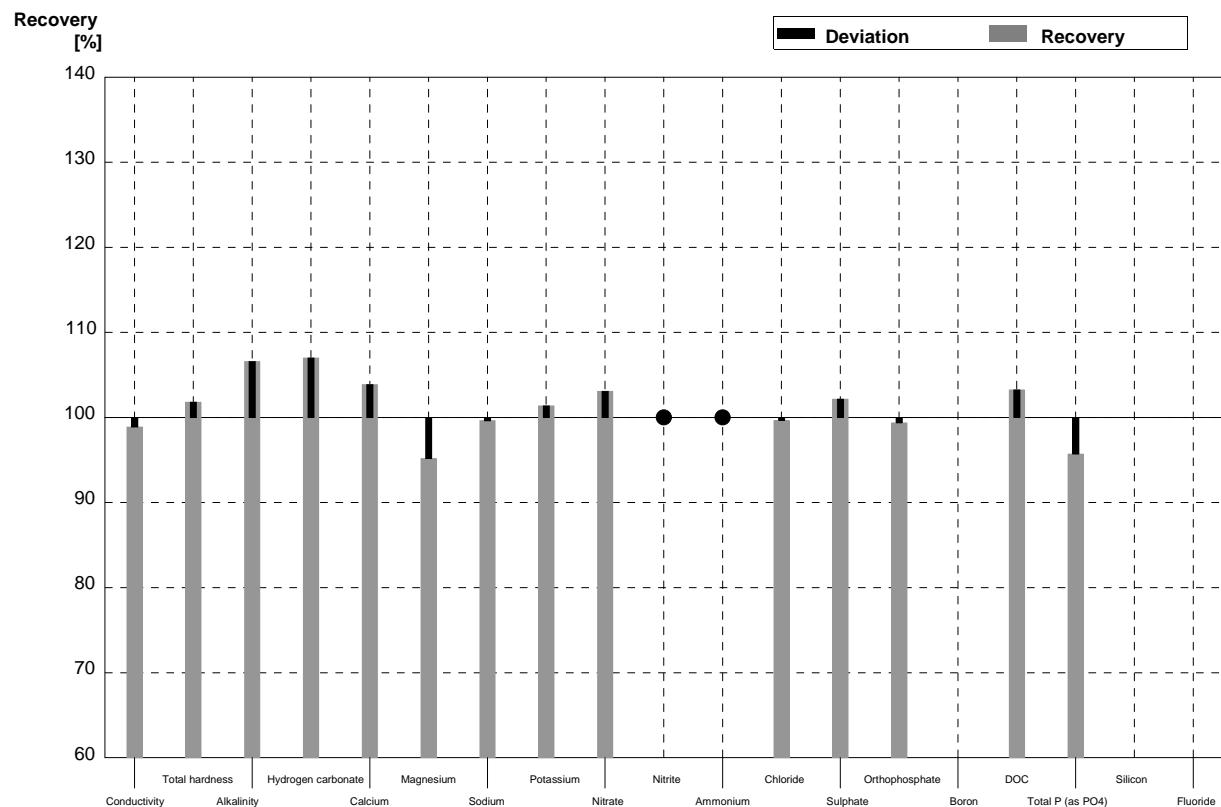
Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Conductivity	526	1	529	4,51	$\mu\text{S}/\text{cm}$	101%
Total hardness	1,90	0,02	1,93		mmol/l	102%
Alkalinity	1,46	0,02	1,58	0,16	mmol/l	108%
Hydrogen carbonate	86,3	1,4	93,35		mg/l	108%
Calcium	50,8	0,6	52,57	5,2	mg/l	103%
Magnesium	15,4	0,2	14,93	1,5	mg/l	97%
Sodium	25,2	0,3	25,05	2,5	mg/l	99%
Potassium	4,86	0,03	4,83	0,5	mg/l	99%
Nitrate	54,3	0,9	54,78	5,4	mg/l	101%
Nitrite	0,032	0,001	0,033	0,003	mg/l	103%
Ammonium	0,028	0,004	0,0254	0,002	mg/l	91%
Chloride	43,3	0,6	44,60	4,5	mg/l	103%
Sulphate	70,5	0,4	69,94	6,9	mg/l	99%
Orthophosphate	<0,009		<0,0015		mg/l	•
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04	1,39	0,14	mg/l	118%
Total P (as PO ₄)	<0,009		<0,0018		mg/l	•
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004			mg/l	



Sample N146B

Laboratory AJ

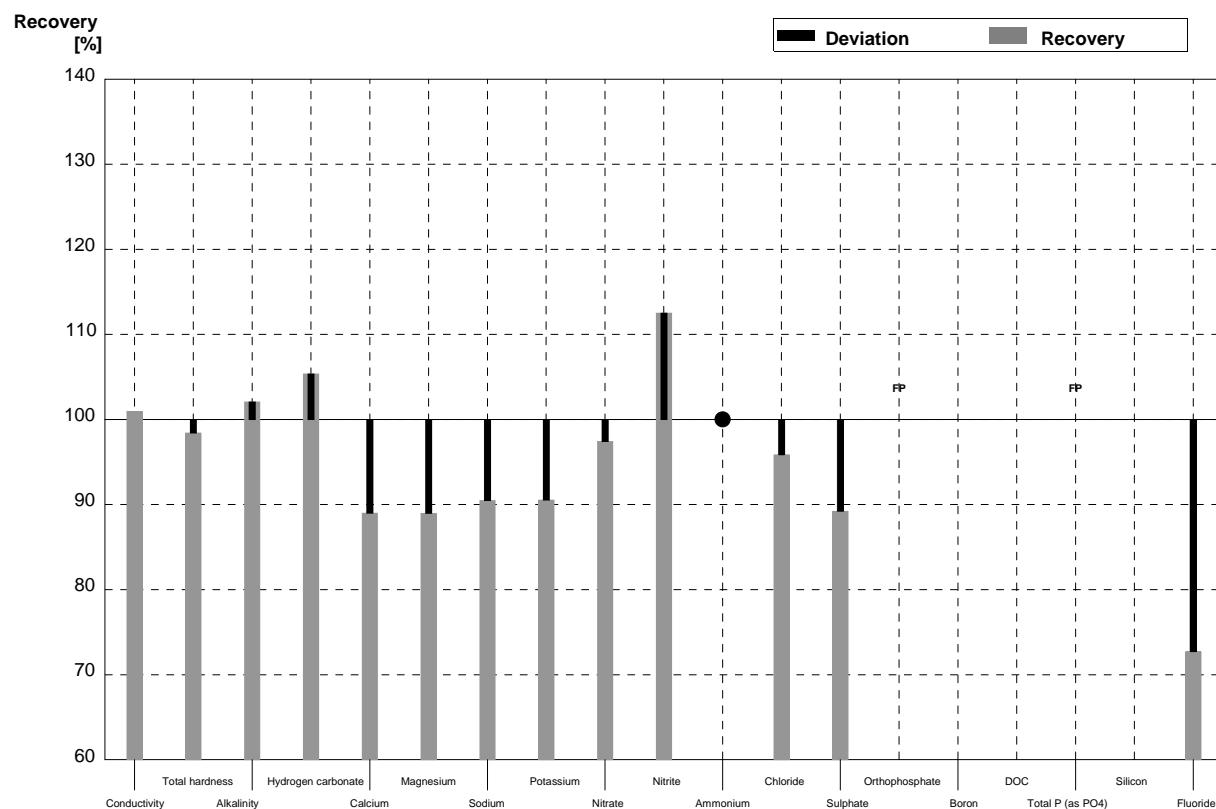
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1	267	4,51	µS/cm	99%
Total hardness	0,560	0,006	0,57		mmol/l	102%
Alkalinity	1,37	0,01	1,46	0,15	mmol/l	107%
Hydrogen carbonate	80,4	0,7	86,02		mg/l	107%
Calcium	16,3	0,2	16,93	2,0	mg/l	104%
Magnesium	3,73	0,05	3,55	0,35	mg/l	95%
Sodium	32,6	0,2	32,48	3,2	mg/l	100%
Potassium	2,93	0,02	2,97	0,3	mg/l	101%
Nitrate	16,6	0,3	17,11	1,7	mg/l	103%
Nitrite	0,0091	0,0002	<0,0099		mg/l	•
Ammonium	<0,01		<0,0020		mg/l	•
Chloride	11,5	0,1	11,46	1,2	mg/l	100%
Sulphate	28,9	0,2	29,52	2,9	mg/l	102%
Orthophosphate	0,160	0,002	0,159	0,016	mg/l	99%
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04	2,23	0,22	mg/l	103%
Total P (as PO4)	0,070	0,001	0,067	0,007	mg/l	96%
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01			mg/l	



Sample N146A

Laboratory AK

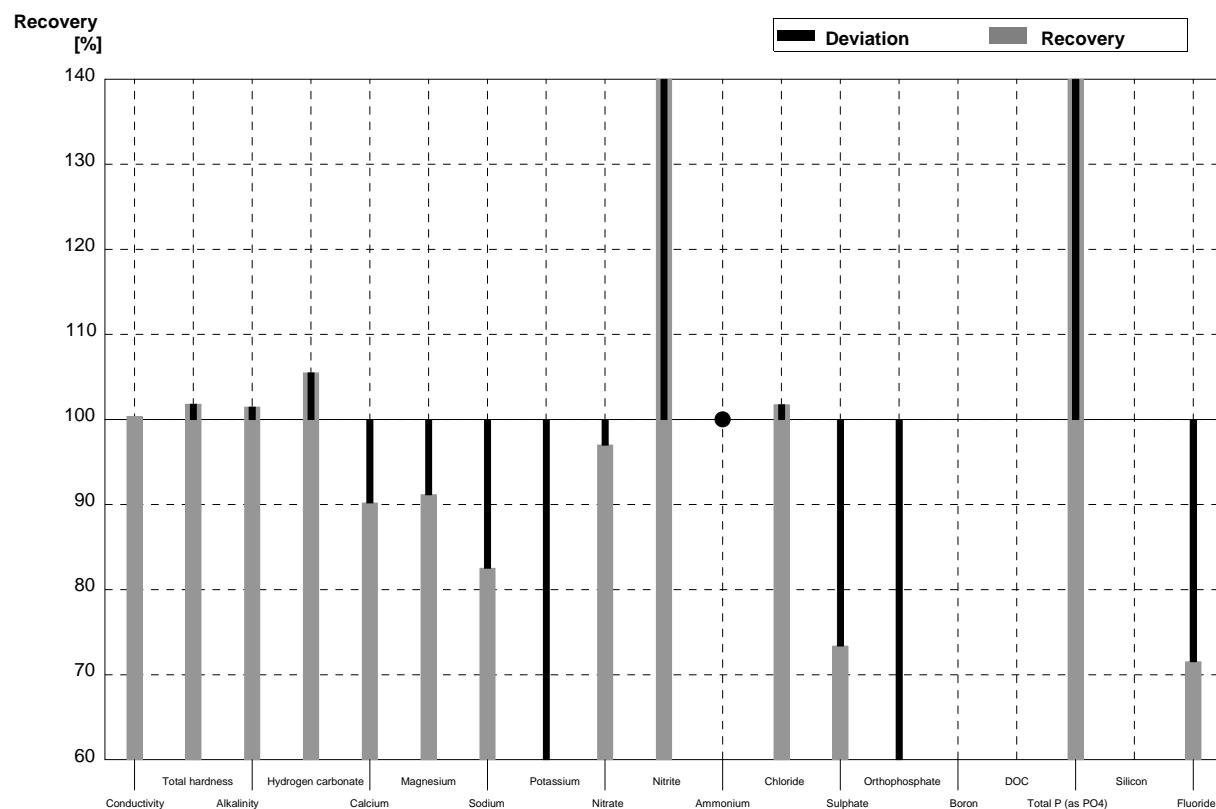
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	526	1	531		µS/cm	101%
Total hardness	1,90	0,02	1,87		mmol/l	98%
Alkalinity	1,46	0,02	1,49		mmol/l	102%
Hydrogen carbonate	86,3	1,4	90,92		mg/l	105%
Calcium	50,8	0,6	45,2		mg/l	89%
Magnesium	15,4	0,2	13,7		mg/l	89%
Sodium	25,2	0,3	22,8		mg/l	90%
Potassium	4,86	0,03	4,4		mg/l	91%
Nitrate	54,3	0,9	52,9		mg/l	97%
Nitrite	0,032	0,001	0,036		mg/l	113%
Ammonium	0,028	0,004	<0,05		mg/l	•
Chloride	43,3	0,6	41,5		mg/l	96%
Sulphate	70,5	0,4	62,9		mg/l	89%
Orthophosphate	<0,009		0,22		mg/l	FP
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04			mg/l	
Total P (as PO4)	<0,009		0,32		mg/l	FP
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004	0,44		mg/l	73%



Sample N146B

Laboratory AK

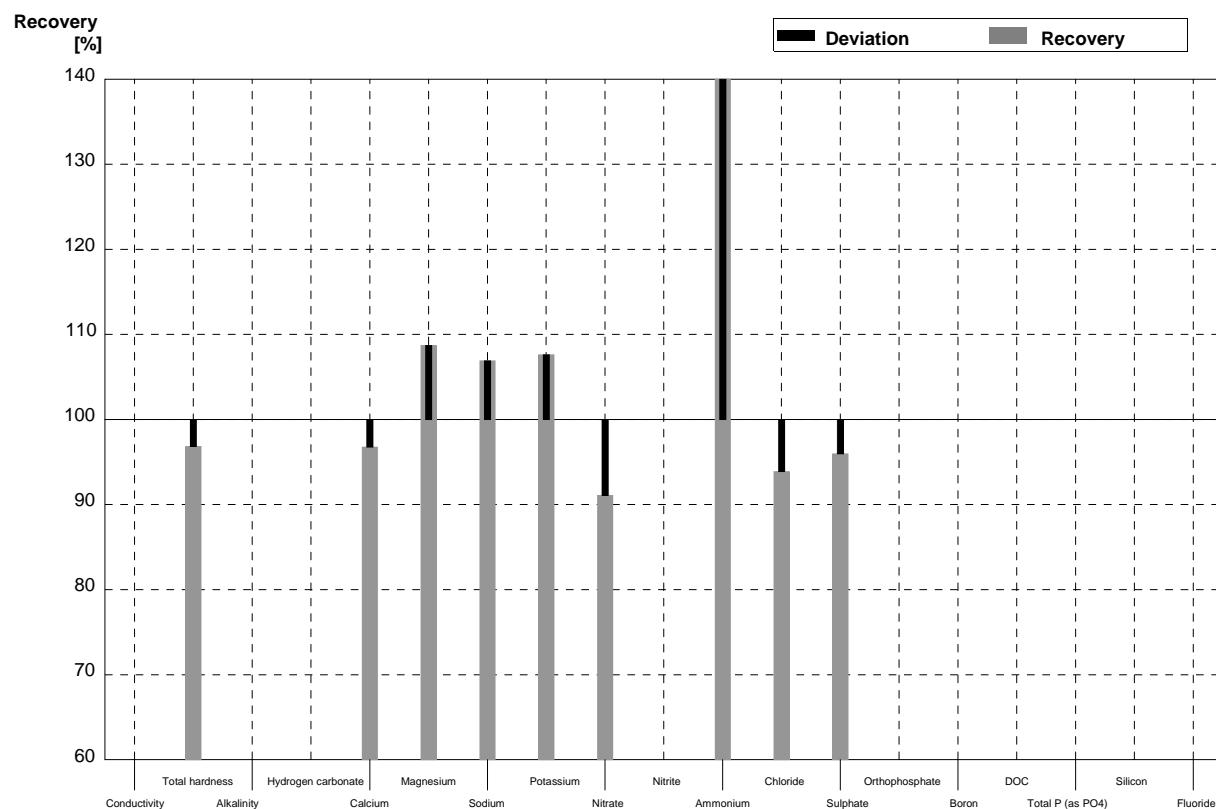
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1	271		µS/cm	100%
Total hardness	0,560	0,006	0,57		mmol/l	102%
Alkalinity	1,37	0,01	1,39		mmol/l	101%
Hydrogen carbonate	80,4	0,7	84,81		mg/l	105%
Calcium	16,3	0,2	14,7		mg/l	90%
Magnesium	3,73	0,05	3,4		mg/l	91%
Sodium	32,6	0,2	26,9		mg/l	83%
Potassium	2,93	0,02	1,7		mg/l	58%
Nitrate	16,6	0,3	16,1		mg/l	97%
Nitrite	0,0091	0,0002	0,021		mg/l	231%
Ammonium	<0,01		<0,05		mg/l	•
Chloride	11,5	0,1	11,7		mg/l	102%
Sulphate	28,9	0,2	21,2		mg/l	73%
Orthophosphate	0,160	0,002	0,092		mg/l	58%
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04			mg/l	
Total P (as PO4)	0,070	0,001	0,18		mg/l	257%
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01	1,08		mg/l	72%



Sample N146A

Laboratory AL

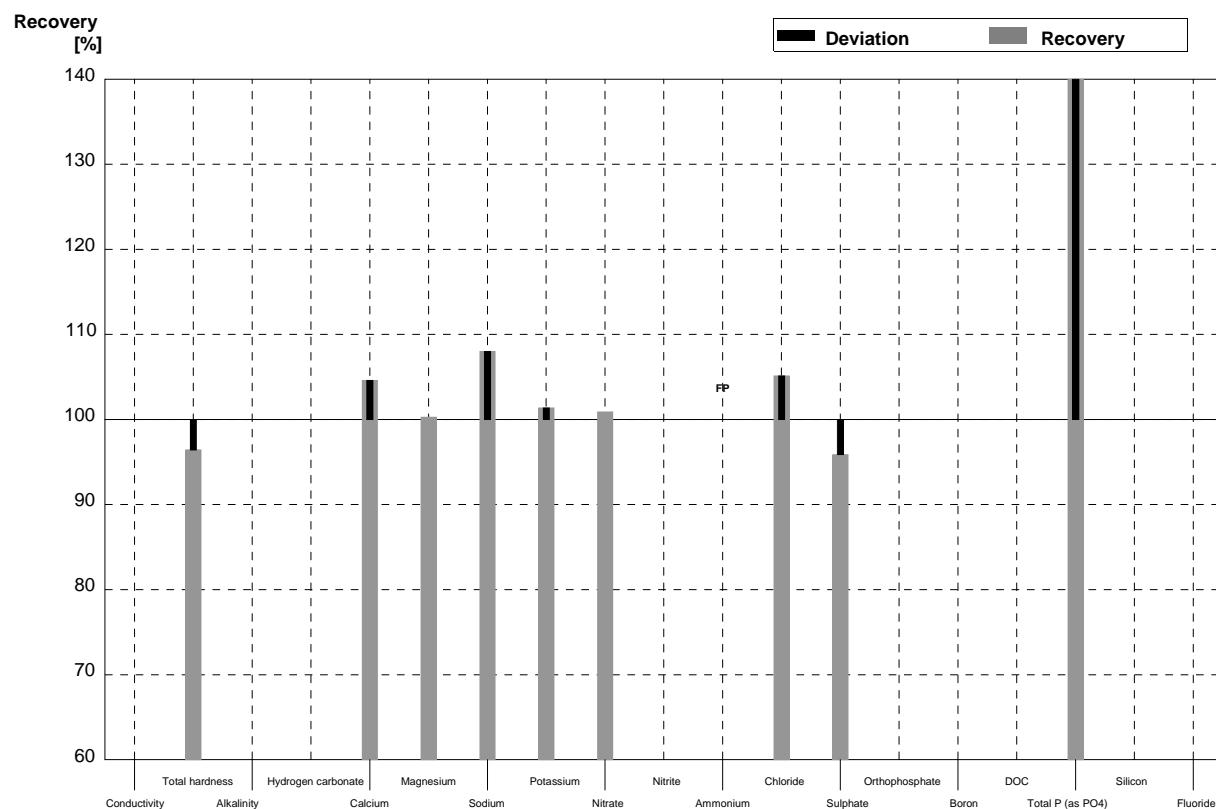
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	526	1			µS/cm	
Total hardness	1,90	0,02	1,84		mmol/l	97%
Alkalinity	1,46	0,02			mmol/l	
Hydrogen carbonate	86,3	1,4			mg/l	
Calcium	50,8	0,6	49,15	4,42	mg/l	97%
Magnesium	15,4	0,2	16,74	1,51	mg/l	109%
Sodium	25,2	0,3	26,94	2,42	mg/l	107%
Potassium	4,86	0,03	5,23	0,37	mg/l	108%
Nitrate	54,3	0,9	49,46	10,0	mg/l	91%
Nitrite	0,032	0,001			mg/l	
Ammonium	0,028	0,004	0,07	0,01	mg/l	250%
Chloride	43,3	0,6	40,65	5,28	mg/l	94%
Sulphate	70,5	0,4	67,66	12,18	mg/l	96%
Orthophosphate	<0,009				mg/l	
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04			mg/l	
Total P (as PO4)	<0,009				mg/l	
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004			mg/l	



Sample N146B

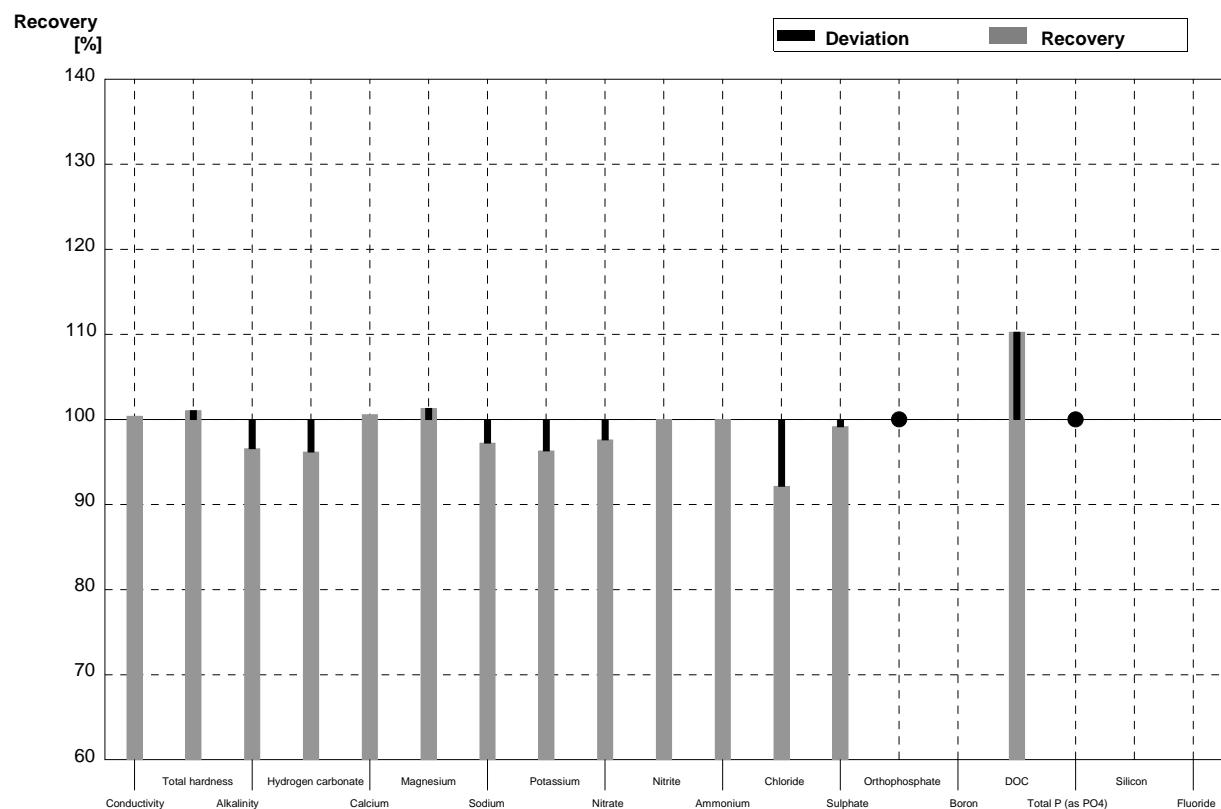
Laboratory AL

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1			µS/cm	
Total hardness	0,560	0,006	0,54		mmol/l	96%
Alkalinity	1,37	0,01			mmol/l	
Hydrogen carbonate	80,4	0,7			mg/l	
Calcium	16,3	0,2	17,05	1,53	mg/l	105%
Magnesium	3,73	0,05	3,74	0,34	mg/l	100%
Sodium	32,6	0,2	35,21	3,17	mg/l	108%
Potassium	2,93	0,02	2,97	0,21	mg/l	101%
Nitrate	16,6	0,3	16,75	3,02	mg/l	101%
Nitrite	0,0091	0,0002			mg/l	
Ammonium	<0,01		0,04	0,01	mg/l	FP
Chloride	11,5	0,1	12,09	1,57	mg/l	105%
Sulphate	28,9	0,2	27,71	4,99	mg/l	96%
Orthophosphate	0,160	0,002			mg/l	
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04			mg/l	
Total P (as PO4)	0,070	0,001	0,104	0,042	mg/l	149%
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01			mg/l	



Sample N146A**Laboratory AM**

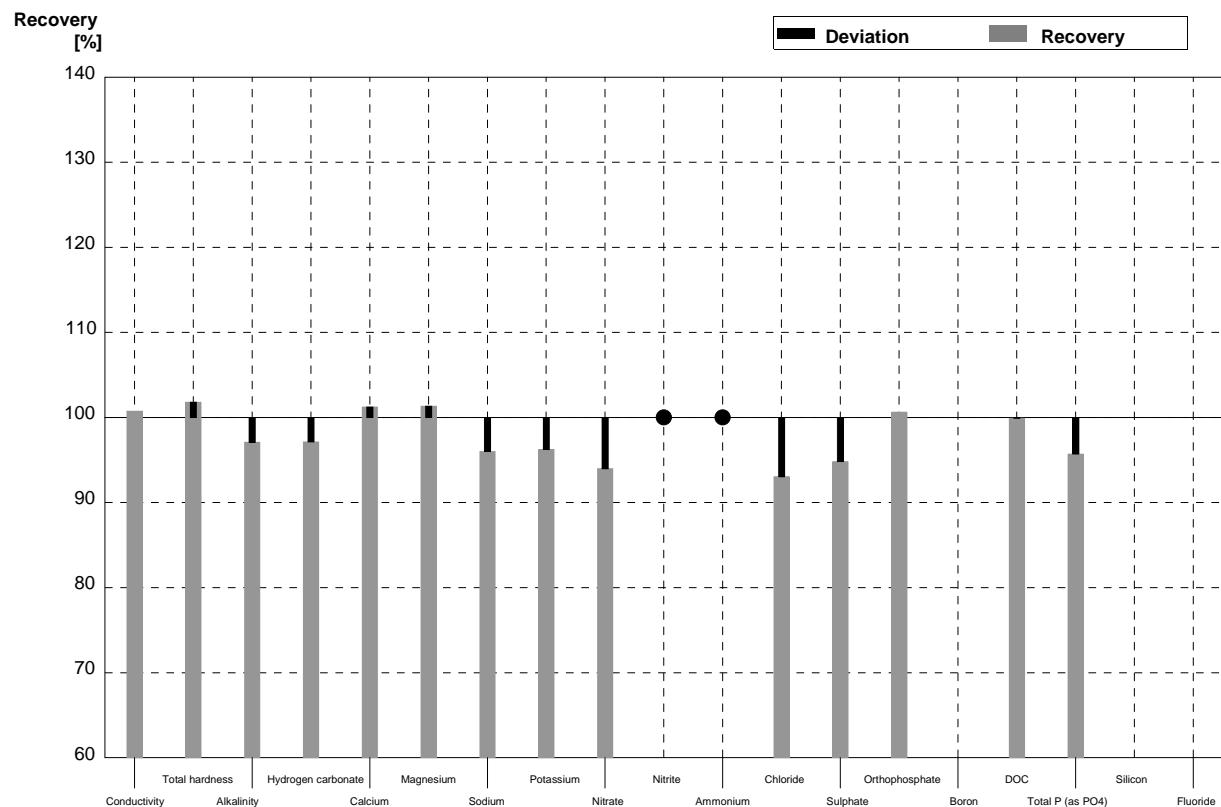
Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Conductivity	526	1	528	5	$\mu\text{S}/\text{cm}$	100%
Total hardness	1,90	0,02	1,92	0,2	mmol/l	101%
Alkalinity	1,46	0,02	1,41	0,14	mmol/l	97%
Hydrogen carbonate	86,3	1,4	83,0	8	mg/l	96%
Calcium	50,8	0,6	51,1	5,1	mg/l	101%
Magnesium	15,4	0,2	15,6	1,6	mg/l	101%
Sodium	25,2	0,3	24,5	2,5	mg/l	97%
Potassium	4,86	0,03	4,68	0,47	mg/l	96%
Nitrate	54,3	0,9	53,0	5,3	mg/l	98%
Nitrite	0,032	0,001	0,032	0,003	mg/l	100%
Ammonium	0,028	0,004	0,028	0,003	mg/l	100%
Chloride	43,3	0,6	39,9	3,9	mg/l	92%
Sulphate	70,5	0,4	69,9	6,9	mg/l	99%
Orthophosphate	<0,009		<0,005		mg/l	•
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04	1,301	0,13	mg/l	110%
Total P (as PO ₄)	<0,009		<0,005		mg/l	•
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004			mg/l	



Sample N146B

Laboratory AM

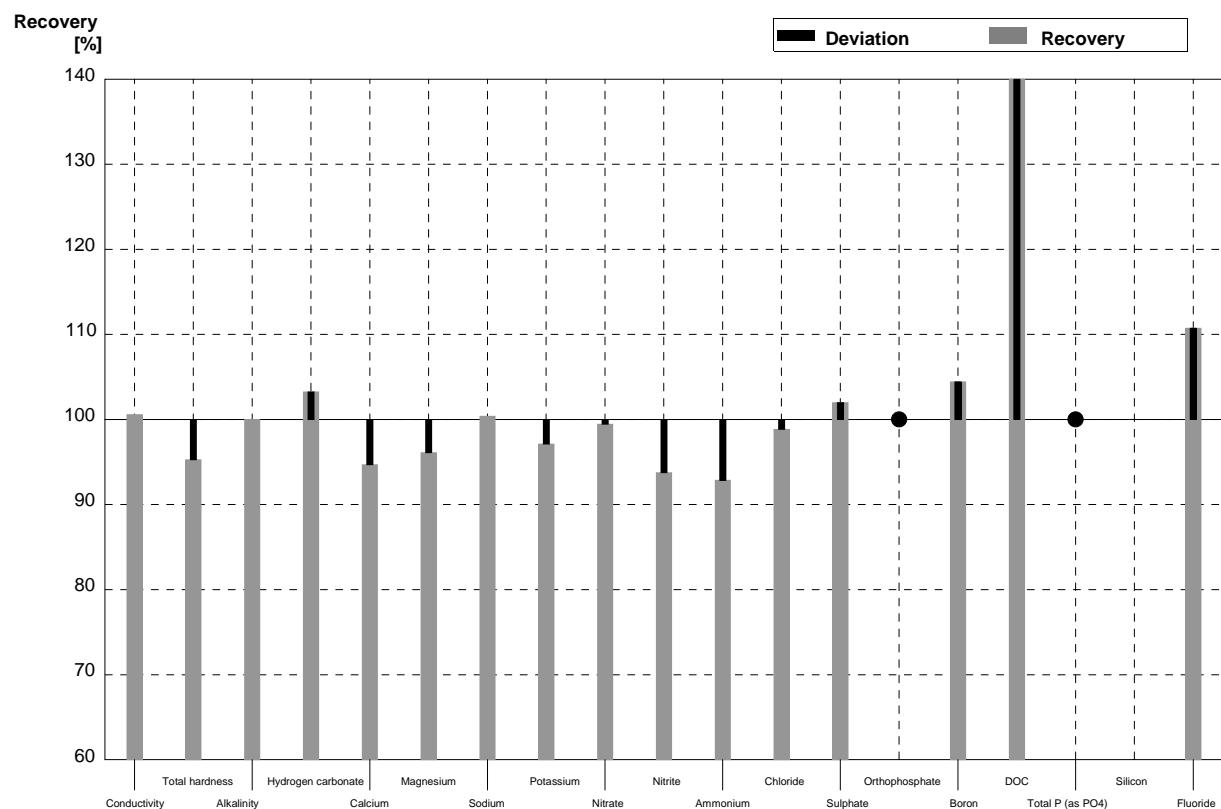
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1	272	5	µS/cm	101%
Total hardness	0,560	0,006	0,57	0,1	mmol/l	102%
Alkalinity	1,37	0,01	1,33	0,13	mmol/l	97%
Hydrogen carbonate	80,4	0,7	78,1	8	mg/l	97%
Calcium	16,3	0,2	16,5	1,7	mg/l	101%
Magnesium	3,73	0,05	3,78	0,38	mg/l	101%
Sodium	32,6	0,2	31,3	3,2	mg/l	96%
Potassium	2,93	0,02	2,82	0,29	mg/l	96%
Nitrate	16,6	0,3	15,6	1,6	mg/l	94%
Nitrite	0,0091	0,0002	<0,010		mg/l	•
Ammonium	<0,01		<0,010		mg/l	•
Chloride	11,5	0,1	10,7	1,7	mg/l	93%
Sulphate	28,9	0,2	27,4	2,7	mg/l	95%
Orthophosphate	0,160	0,002	0,161	0,016	mg/l	101%
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04	2,158	0,216	mg/l	100%
Total P (as PO4)	0,070	0,001	0,067	0,007	mg/l	96%
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01			mg/l	



Sample N146A

Laboratory AN

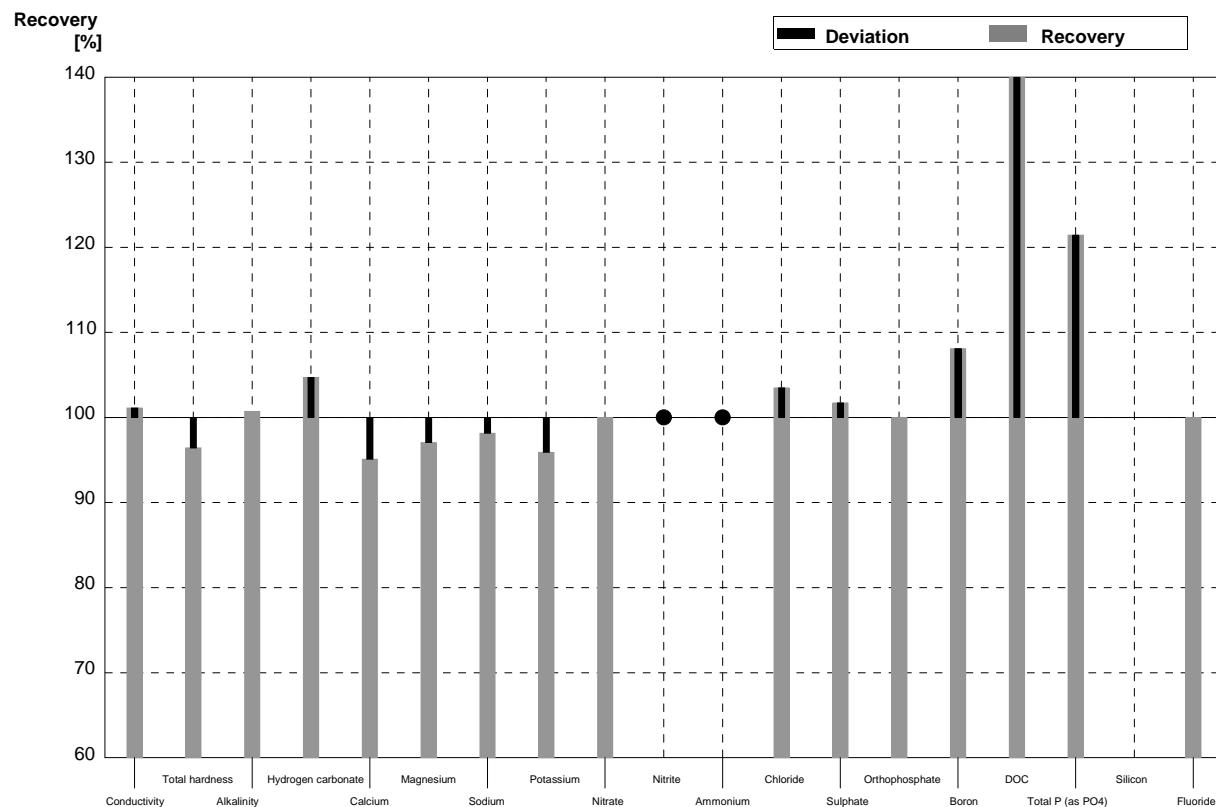
Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Conductivity	526	1	529	16	$\mu\text{S}/\text{cm}$	101%
Total hardness	1,90	0,02	1,81	0,20	mmol/l	95%
Alkalinity	1,46	0,02	1,46	0,16	mmol/l	100%
Hydrogen carbonate	86,3	1,4	89,1	9,8	mg/l	103%
Calcium	50,8	0,6	48,1	5,8	mg/l	95%
Magnesium	15,4	0,2	14,8	1,3	mg/l	96%
Sodium	25,2	0,3	25,3	2,5	mg/l	100%
Potassium	4,86	0,03	4,72	0,57	mg/l	97%
Nitrate	54,3	0,9	54,0	4,9	mg/l	99%
Nitrite	0,032	0,001	0,030	0,005	mg/l	94%
Ammonium	0,028	0,004	0,026	0,005	mg/l	93%
Chloride	43,3	0,6	42,8	4,3	mg/l	99%
Sulphate	70,5	0,4	71,9	5,0	mg/l	102%
Orthophosphate	<0,009		<0,01		mg/l	•
Boron	0,045	0,001	0,047	0,007	mg/l	104%
DOC	1,18	0,04	2,02	0,30	mg/l	171%
Total P (as PO ₄)	<0,009		<0,01		mg/l	•
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004	0,67	0,10	mg/l	111%



Sample N146B

Laboratory AN

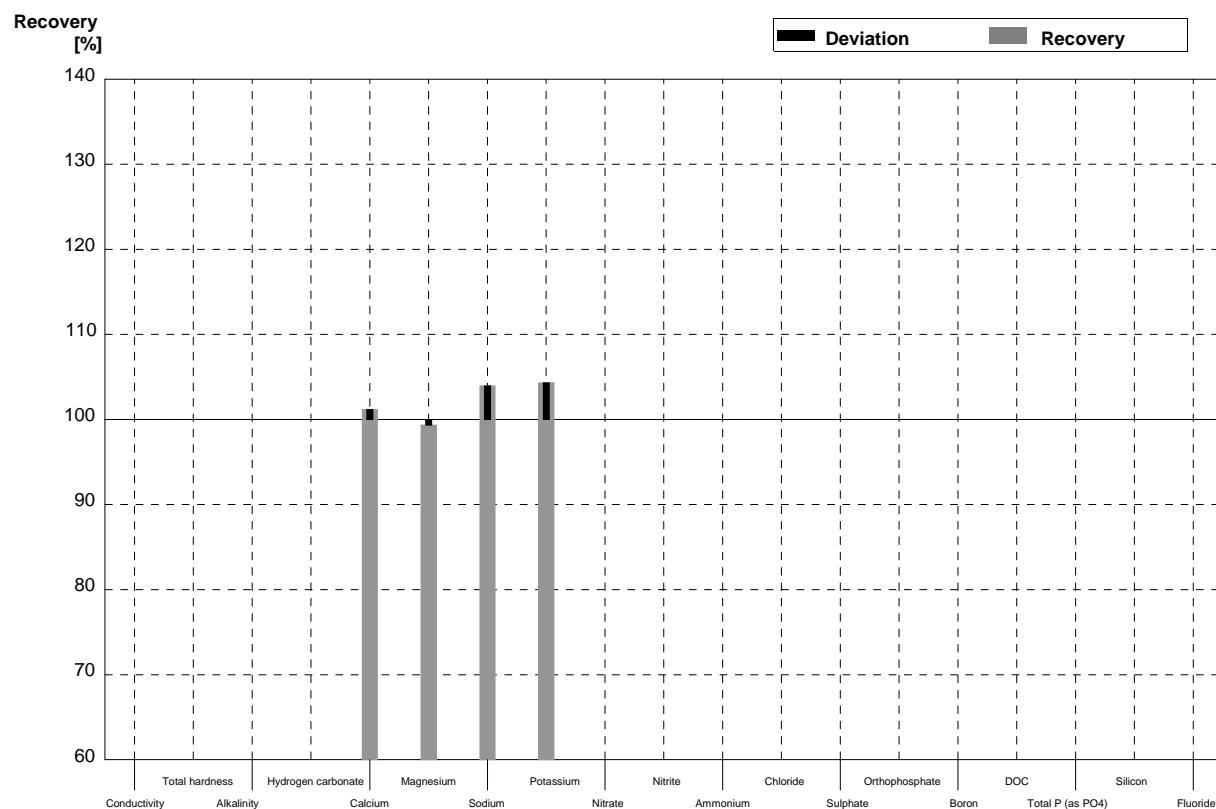
Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Conductivity	270	1	273	8,2	$\mu\text{S}/\text{cm}$	101%
Total hardness	0,560	0,006	0,54	0,06	mmol/l	96%
Alkalinity	1,37	0,01	1,38	0,15	mmol/l	101%
Hydrogen carbonate	80,4	0,7	84,2	9,3	mg/l	105%
Calcium	16,3	0,2	15,5	1,9	mg/l	95%
Magnesium	3,73	0,05	3,62	0,33	mg/l	97%
Sodium	32,6	0,2	32,0	3,2	mg/l	98%
Potassium	2,93	0,02	2,81	0,34	mg/l	96%
Nitrate	16,6	0,3	16,6	1,5	mg/l	100%
Nitrite	0,0091	0,0002	<0,01		mg/l	•
Ammonium	<0,01		<0,01		mg/l	•
Chloride	11,5	0,1	11,9	1,2	mg/l	103%
Sulphate	28,9	0,2	29,4	2,1	mg/l	102%
Orthophosphate	0,160	0,002	0,16	0,03	mg/l	100%
Boron	0,185	0,001	0,20	0,024	mg/l	108%
DOC	2,16	0,04	3,23	0,48	mg/l	150%
Total P (as PO ₄)	0,070	0,001	0,085	0,013	mg/l	121%
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01	1,51	0,21	mg/l	100%



Sample N146A

Laboratory AO

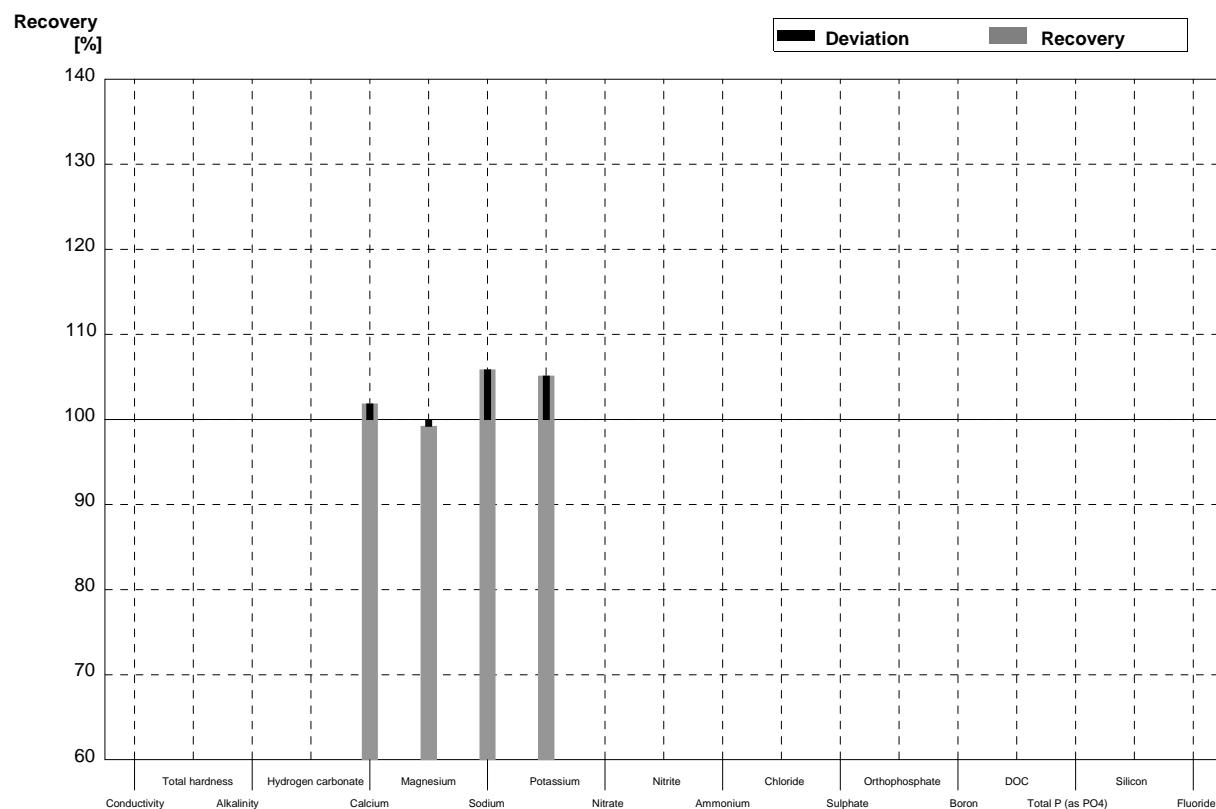
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	526	1			µS/cm	
Total hardness	1,90	0,02			mmol/l	
Alkalinity	1,46	0,02			mmol/l	
Hydrogen carbonate	86,3	1,4			mg/l	
Calcium	50,8	0,6	51,4	2,68	mg/l	101%
Magnesium	15,4	0,2	15,3	1,22	mg/l	99%
Sodium	25,2	0,3	26,2	3,46	mg/l	104%
Potassium	4,86	0,03	5,07	0,50	mg/l	104%
Nitrate	54,3	0,9			mg/l	
Nitrite	0,032	0,001			mg/l	
Ammonium	0,028	0,004			mg/l	
Chloride	43,3	0,6			mg/l	
Sulphate	70,5	0,4			mg/l	
Orthophosphate	<0,009				mg/l	
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04			mg/l	
Total P (as PO ₄)	<0,009				mg/l	
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004			mg/l	



Sample N146B

Laboratory AO

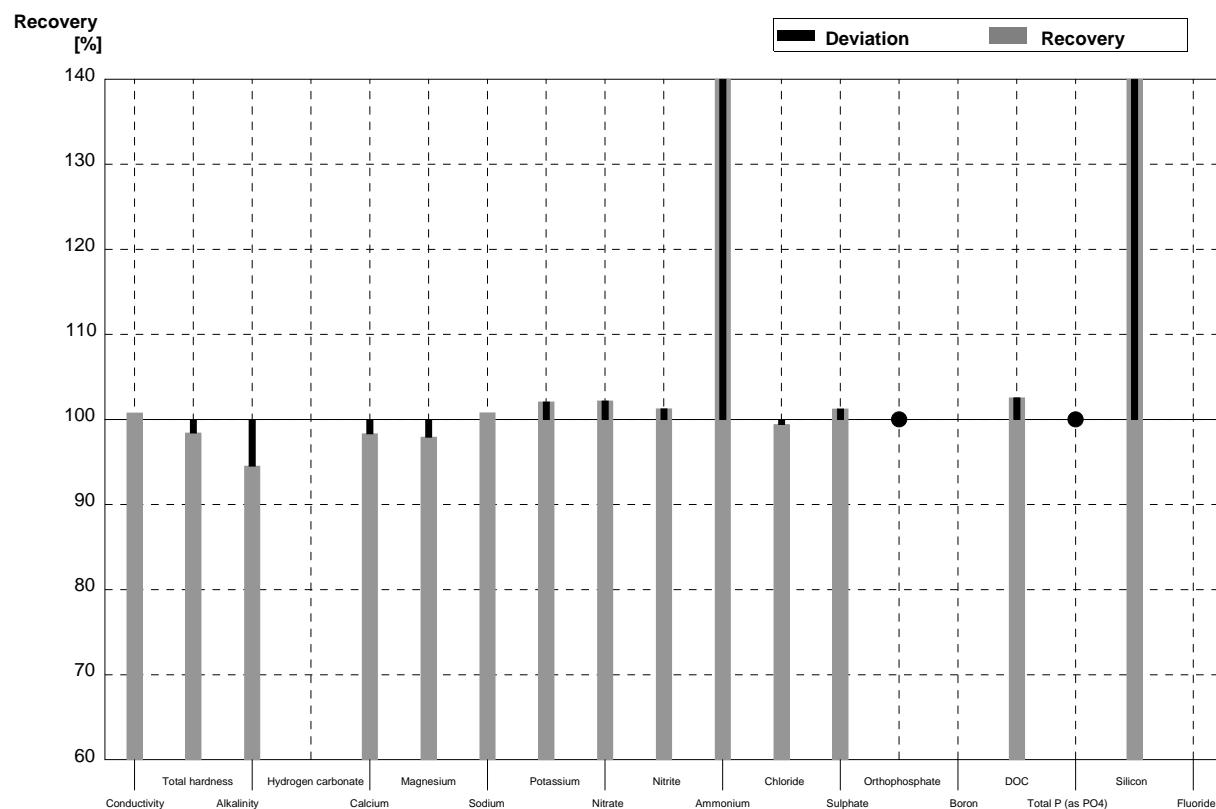
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1			µS/cm	
Total hardness	0,560	0,006			mmol/l	
Alkalinity	1,37	0,01			mmol/l	
Hydrogen carbonate	80,4	0,7			mg/l	
Calcium	16,3	0,2	16,6	0,87	mg/l	102%
Magnesium	3,73	0,05	3,70	0,30	mg/l	99%
Sodium	32,6	0,2	34,5	4,56	mg/l	106%
Potassium	2,93	0,02	3,08	0,30	mg/l	105%
Nitrate	16,6	0,3			mg/l	
Nitrite	0,0091	0,0002			mg/l	
Ammonium	<0,01				mg/l	
Chloride	11,5	0,1			mg/l	
Sulphate	28,9	0,2			mg/l	
Orthophosphate	0,160	0,002			mg/l	
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04			mg/l	
Total P (as PO ₄)	0,070	0,001			mg/l	
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01			mg/l	



Sample N146A

Laboratory AP

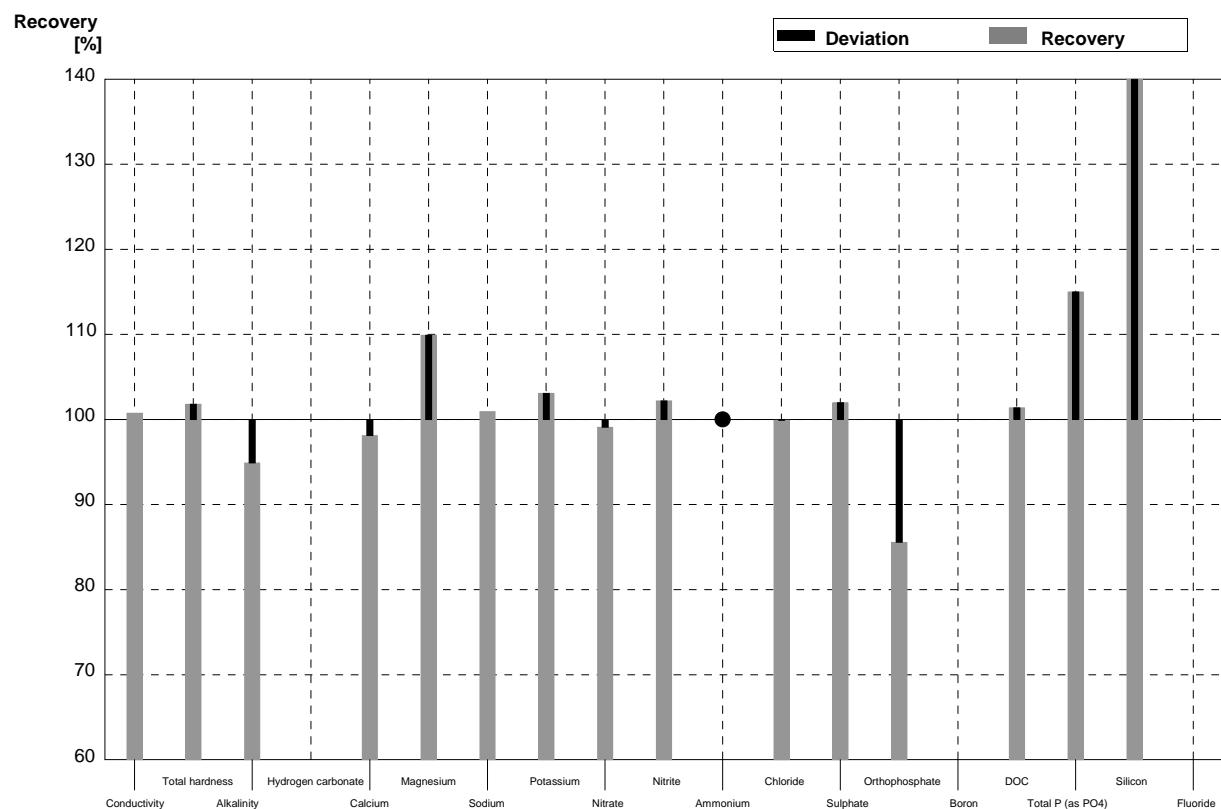
Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Conductivity	526	1	530		$\mu\text{S}/\text{cm}$	101%
Total hardness	1,90	0,02	1,87	0,13	mmol/l	98%
Alkalinity	1,46	0,02	1,38	0,043	mmol/l	95%
Hydrogen carbonate	86,3	1,4			mg/l	
Calcium	50,8	0,6	49,95	1,948	mg/l	98%
Magnesium	15,4	0,2	15,08	0,875	mg/l	98%
Sodium	25,2	0,3	25,40	1,60	mg/l	101%
Potassium	4,86	0,03	4,96	0,25	mg/l	102%
Nitrate	54,3	0,9	55,48	2,72	mg/l	102%
Nitrite	0,032	0,001	0,0324	0,0020	mg/l	101%
Ammonium	0,028	0,004	0,0854	0,0058	mg/l	305%
Chloride	43,3	0,6	43,04	1,68	mg/l	99%
Sulphate	70,5	0,4	71,36	3,28	mg/l	101%
Orthophosphate	<0,009		<0,005		mg/l	•
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04	1,21	0,12	mg/l	103%
Total P (as PO ₄)	<0,009		<0,005		mg/l	•
Silicon	1,00	0,02	2,09	0,10	mg/l	209%
Fluoride	0,605	0,004			mg/l	



Sample N146B

Laboratory AP

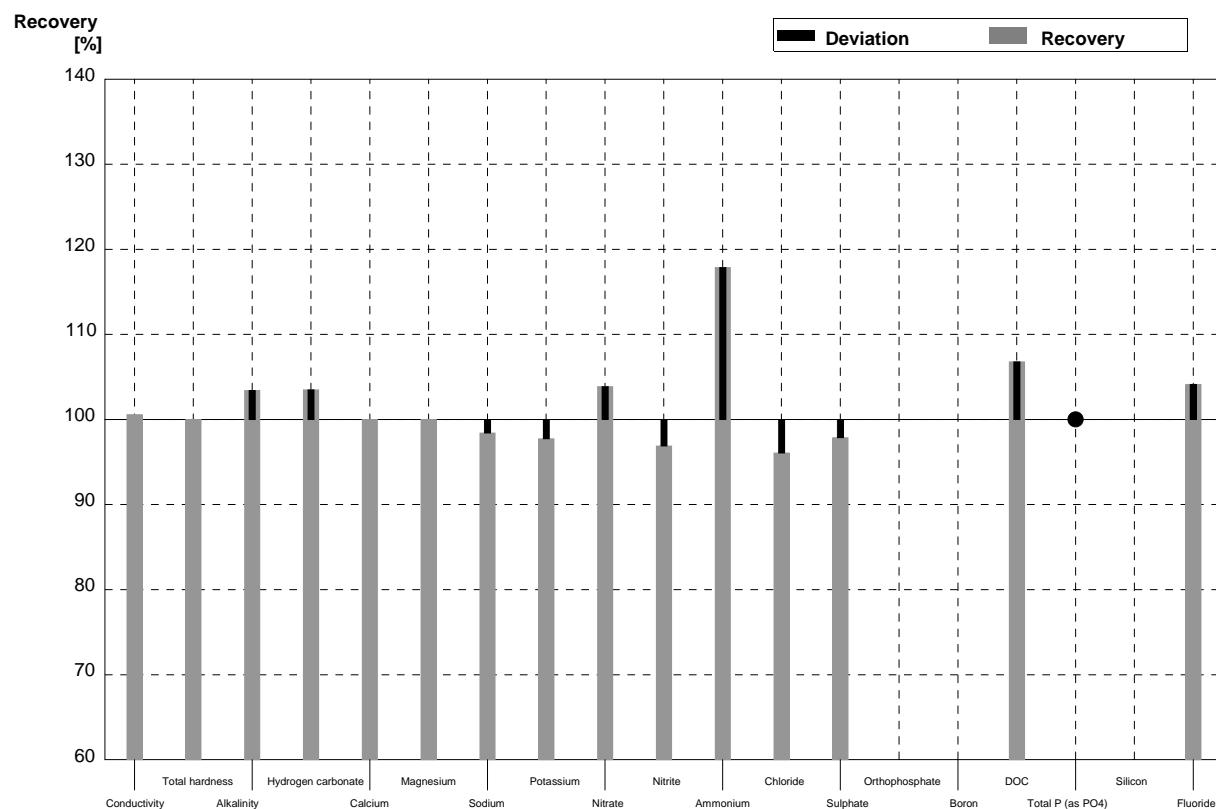
Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Conductivity	270	1	272		$\mu\text{S}/\text{cm}$	101%
Total hardness	0,560	0,006	0,57	0,04	mmol/l	102%
Alkalinity	1,37	0,01	1,30	0,040	mmol/l	95%
Hydrogen carbonate	80,4	0,7			mg/l	
Calcium	16,3	0,2	15,99	0,624	mg/l	98%
Magnesium	3,73	0,05	4,10	0,238	mg/l	110%
Sodium	32,6	0,2	32,90	2,07	mg/l	101%
Potassium	2,93	0,02	3,02	0,15	mg/l	103%
Nitrate	16,6	0,3	16,45	0,81	mg/l	99%
Nitrite	0,0091	0,0002	0,0093	0,0006	mg/l	102%
Ammonium	<0,01		<0,006		mg/l	•
Chloride	11,5	0,1	11,49	0,45	mg/l	100%
Sulphate	28,9	0,2	29,47	1,36	mg/l	102%
Orthophosphate	0,160	0,002	0,1369	0,0119	mg/l	86%
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04	2,19	0,21	mg/l	101%
Total P (as PO ₄)	0,070	0,001	0,0805	0,0080	mg/l	115%
Silicon	2,99	0,07	6,30	0,32	mg/l	211%
Fluoride	1,51	0,01			mg/l	



Sample N146A

Laboratory AQ

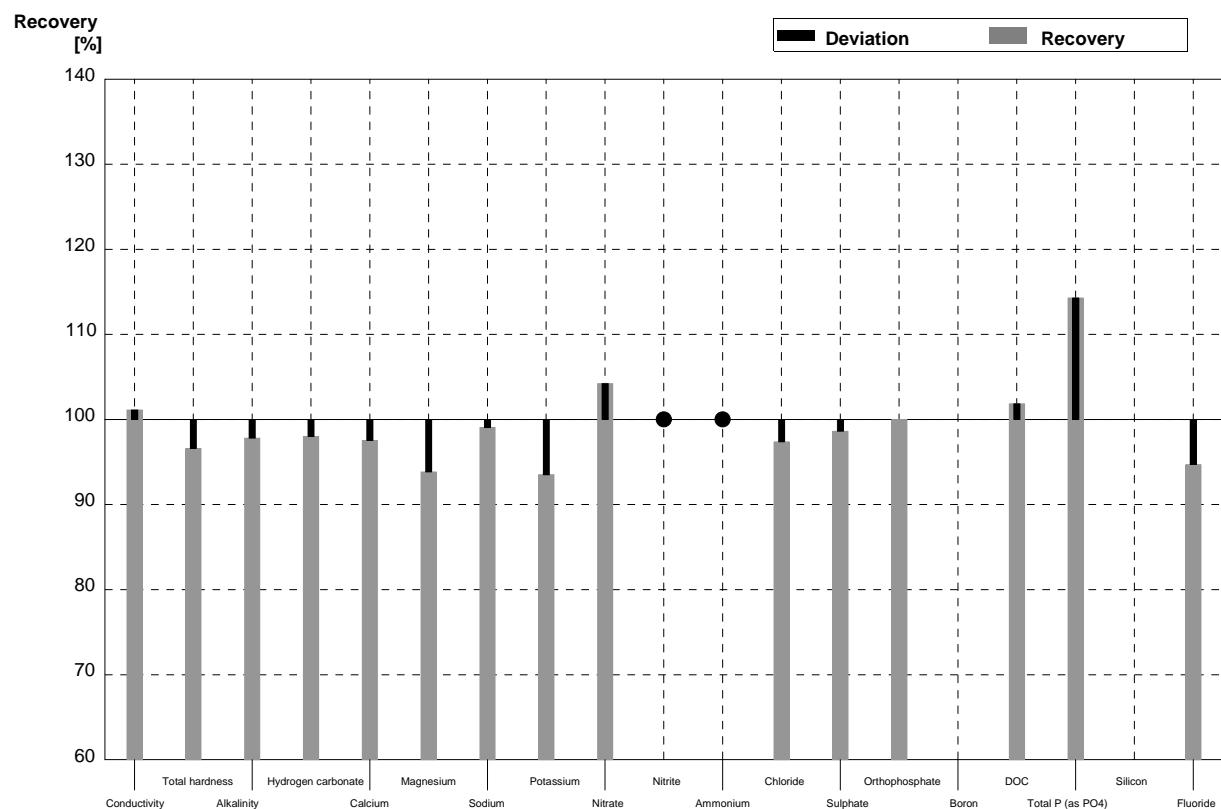
Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Conductivity	526	1	529	10	$\mu\text{S}/\text{cm}$	101%
Total hardness	1,90	0,02	1,90	0,08	mmol/l	100%
Alkalinity	1,46	0,02	1,51	0,1	mmol/l	103%
Hydrogen carbonate	86,3	1,4	89,3	4,0	mg/l	103%
Calcium	50,8	0,6	50,8	3,0	mg/l	100%
Magnesium	15,4	0,2	15,4	1,5	mg/l	100%
Sodium	25,2	0,3	24,8	1,8	mg/l	98%
Potassium	4,86	0,03	4,75	0,5	mg/l	98%
Nitrate	54,3	0,9	56,4	4,0	mg/l	104%
Nitrite	0,032	0,001	0,031	0,005	mg/l	97%
Ammonium	0,028	0,004	0,033	0,005	mg/l	118%
Chloride	43,3	0,6	41,6	3,0	mg/l	96%
Sulphate	70,5	0,4	69,0	4,0	mg/l	98%
Orthophosphate	<0,009				mg/l	
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04	1,26	0,15	mg/l	107%
Total P (as PO ₄)	<0,009		<0,030		mg/l	•
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004	0,63	0,1	mg/l	104%



Sample N146B

Laboratory AQ

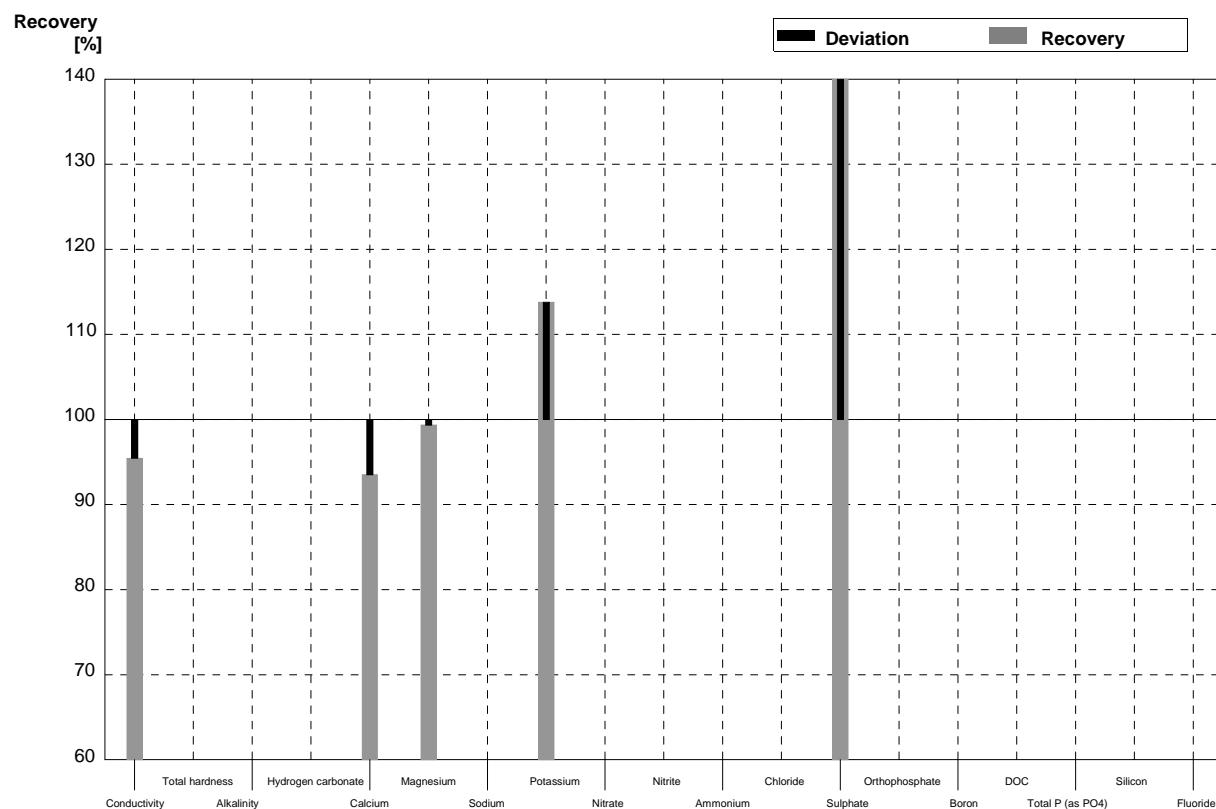
Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Conductivity	270	1	273	5	$\mu\text{S}/\text{cm}$	101%
Total hardness	0,560	0,006	0,541	0,04	mmol/l	97%
Alkalinity	1,37	0,01	1,34	0,1	mmol/l	98%
Hydrogen carbonate	80,4	0,7	78,8	4,0	mg/l	98%
Calcium	16,3	0,2	15,9	1,3	mg/l	98%
Magnesium	3,73	0,05	3,5	0,4	mg/l	94%
Sodium	32,6	0,2	32,3	2,0	mg/l	99%
Potassium	2,93	0,02	2,74	0,3	mg/l	94%
Nitrate	16,6	0,3	17,3	1,7	mg/l	104%
Nitrite	0,0091	0,0002	<0,010		mg/l	•
Ammonium	<0,01		<0,020		mg/l	•
Chloride	11,5	0,1	11,2	1,1	mg/l	97%
Sulphate	28,9	0,2	28,5	2,5	mg/l	99%
Orthophosphate	0,160	0,002	0,160	0,024	mg/l	100%
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04	2,20	0,20	mg/l	102%
Total P (as PO ₄)	0,070	0,001	0,080	0,012	mg/l	114%
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01	1,43	0,2	mg/l	95%



Sample N146A

Laboratory AR

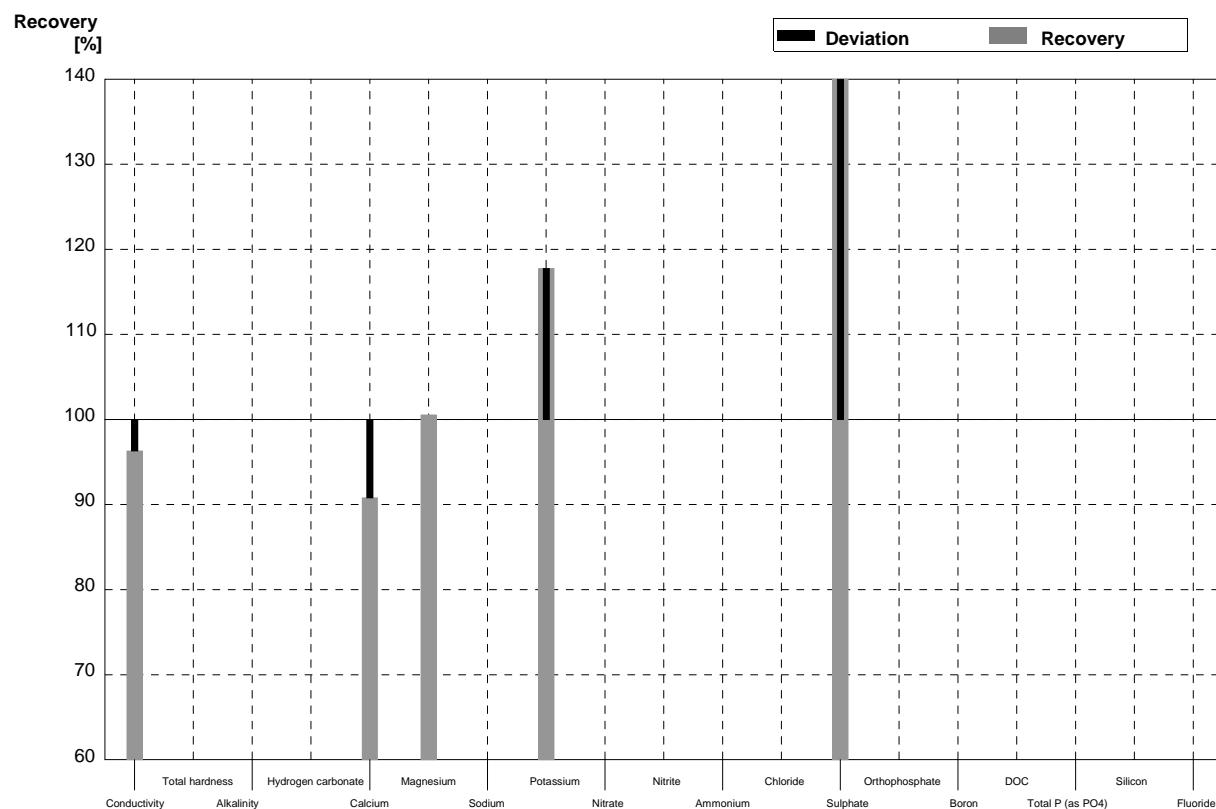
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	526	1	502	20	µS/cm	95%
Total hardness	1,90	0,02			mmol/l	
Alkalinity	1,46	0,02			mmol/l	
Hydrogen carbonate	86,3	1,4			mg/l	
Calcium	50,8	0,6	47,5	4	mg/l	94%
Magnesium	15,4	0,2	15,3	1,5	mg/l	99%
Sodium	25,2	0,3			mg/l	
Potassium	4,86	0,03	5,53	0,5	mg/l	114%
Nitrate	54,3	0,9			mg/l	
Nitrite	0,032	0,001			mg/l	
Ammonium	0,028	0,004			mg/l	
Chloride	43,3	0,6			mg/l	
Sulphate	70,5	0,4	126	10	mg/l	179%
Orthophosphate	<0,009				mg/l	
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04			mg/l	
Total P (as PO ₄)	<0,009				mg/l	
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004			mg/l	



Sample N146B

Laboratory AR

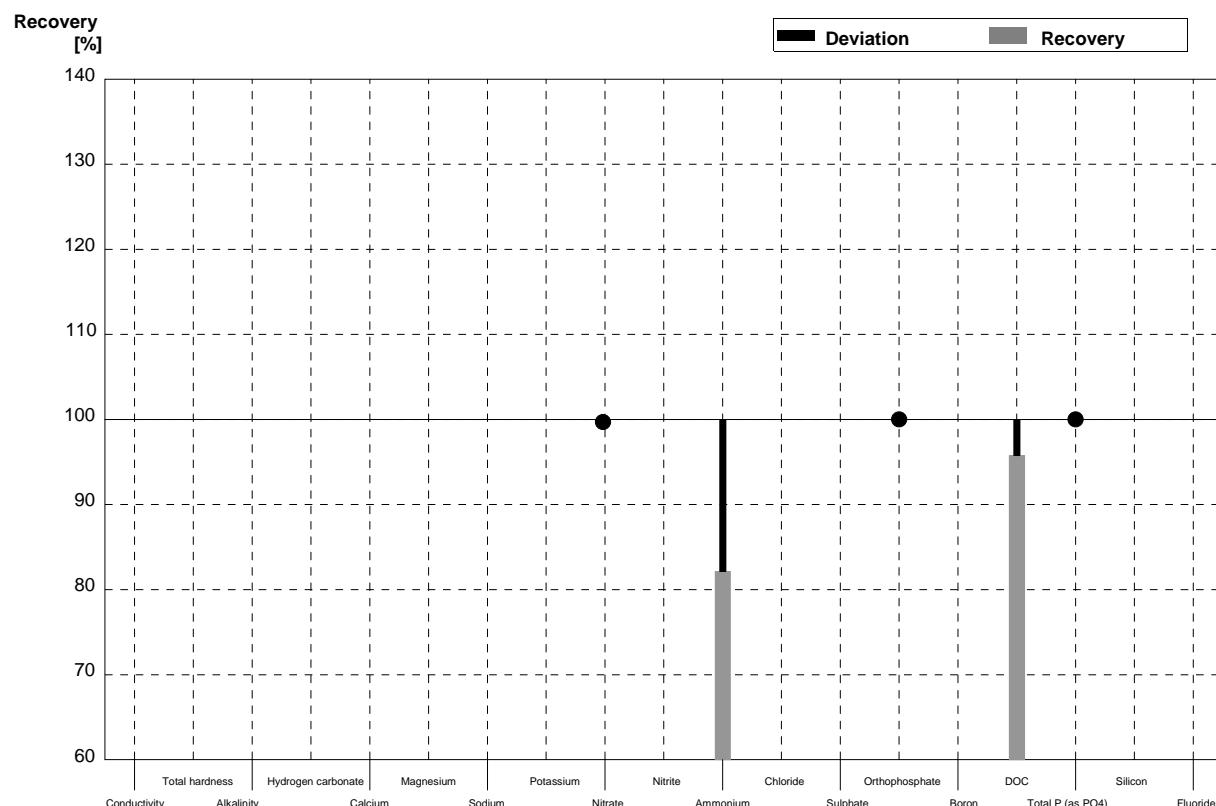
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1	260	20	µS/cm	96%
Total hardness	0,560	0,006			mmol/l	
Alkalinity	1,37	0,01			mmol/l	
Hydrogen carbonate	80,4	0,7			mg/l	
Calcium	16,3	0,2	14,8	1,6	mg/l	91%
Magnesium	3,73	0,05	3,75	0,4	mg/l	101%
Sodium	32,6	0,2			mg/l	
Potassium	2,93	0,02	3,45	0,3	mg/l	118%
Nitrate	16,6	0,3			mg/l	
Nitrite	0,0091	0,0002			mg/l	
Ammonium	<0,01				mg/l	
Chloride	11,5	0,1			mg/l	
Sulphate	28,9	0,2	76,0	10	mg/l	263%
Orthophosphate	0,160	0,002			mg/l	
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04			mg/l	
Total P (as PO ₄)	0,070	0,001			mg/l	
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01			mg/l	



Sample N146A

Laboratory AS

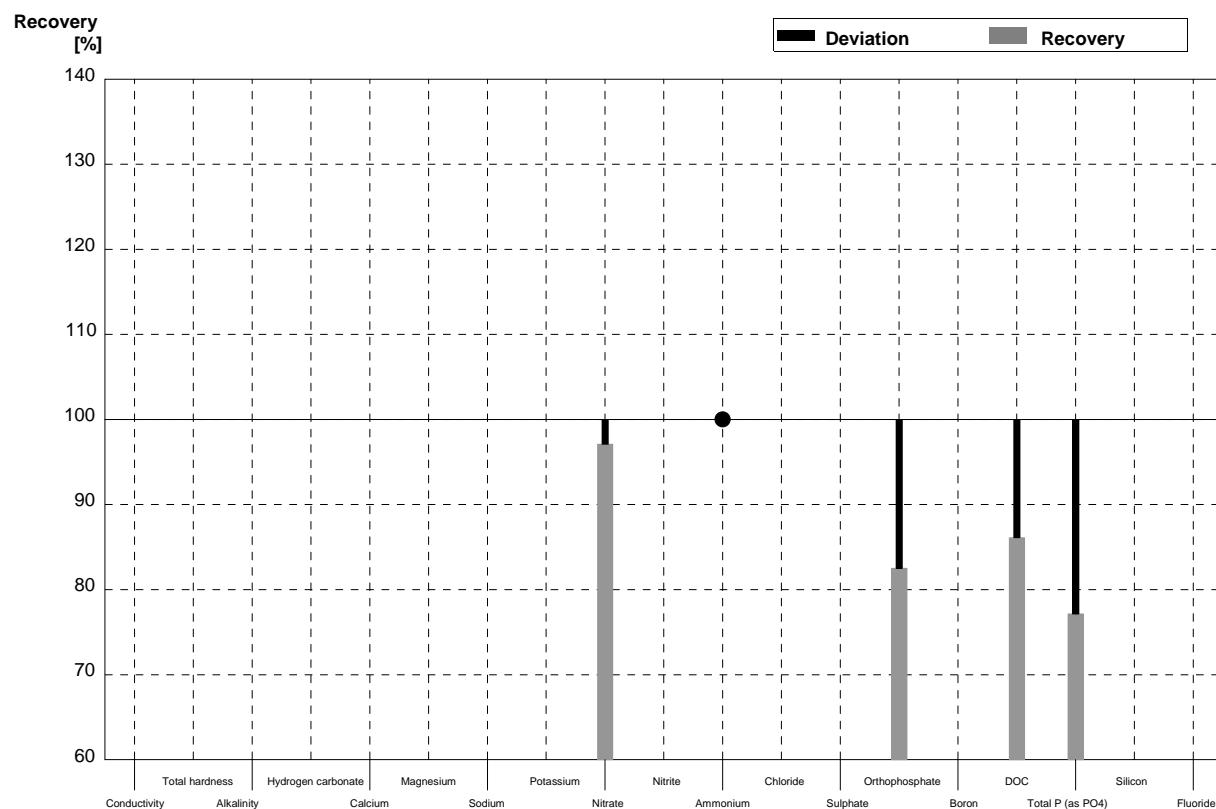
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	526	1			µS/cm	
Total hardness	1,90	0,02			mmol/l	
Alkalinity	1,46	0,02			mmol/l	
Hydrogen carbonate	86,3	1,4			mg/l	
Calcium	50,8	0,6			mg/l	
Magnesium	15,4	0,2			mg/l	
Sodium	25,2	0,3			mg/l	
Potassium	4,86	0,03			mg/l	
Nitrate	54,3	0,9	>30		mg/l	•
Nitrite	0,032	0,001			mg/l	
Ammonium	0,028	0,004	0,023	0,011	mg/l	82%
Chloride	43,3	0,6			mg/l	
Sulphate	70,5	0,4			mg/l	
Orthophosphate	<0,009		<0,019		mg/l	•
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04	1,13	0,05	mg/l	96%
Total P (as PO ₄)	<0,009		<0,02		mg/l	•
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004			mg/l	



Sample N146B

Laboratory AS

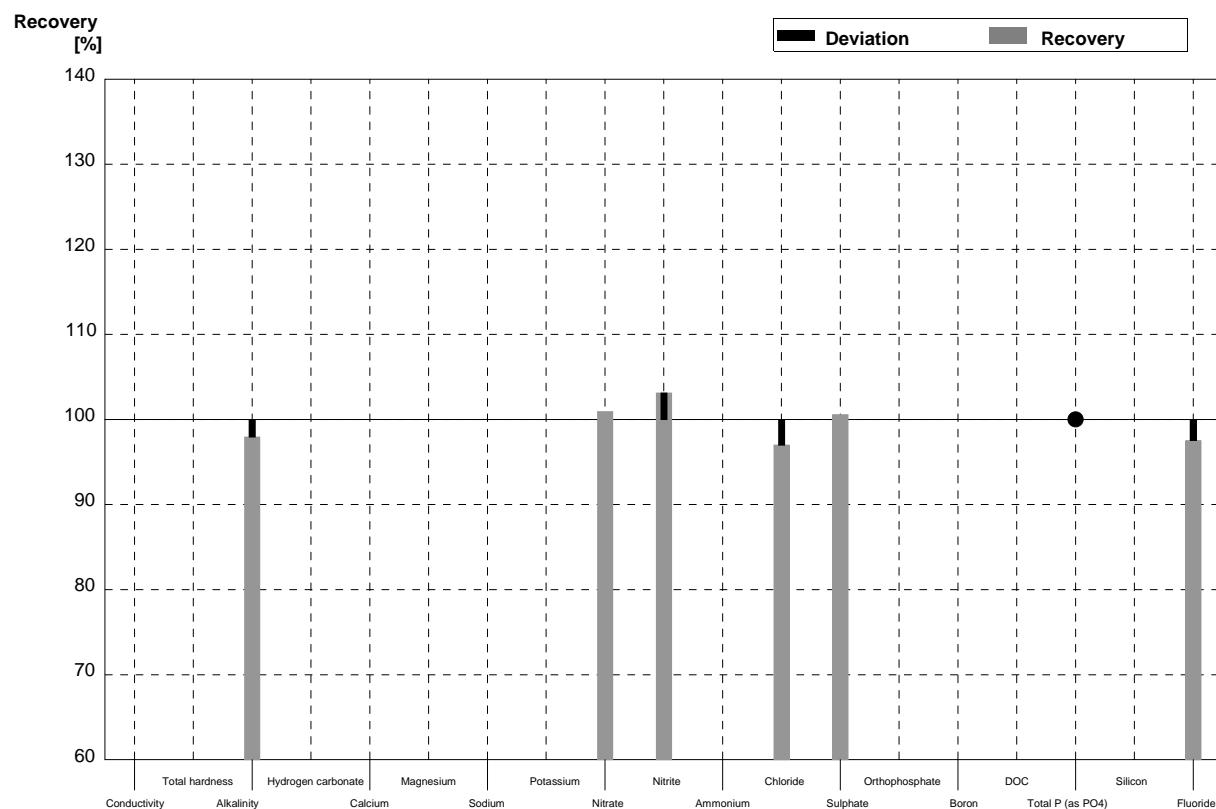
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1			µS/cm	
Total hardness	0,560	0,006			mmol/l	
Alkalinity	1,37	0,01			mmol/l	
Hydrogen carbonate	80,4	0,7			mg/l	
Calcium	16,3	0,2			mg/l	
Magnesium	3,73	0,05			mg/l	
Sodium	32,6	0,2			mg/l	
Potassium	2,93	0,02			mg/l	
Nitrate	16,6	0,3	16,12	0,38	mg/l	97%
Nitrite	0,0091	0,0002			mg/l	
Ammonium	<0,01		<0,01		mg/l	•
Chloride	11,5	0,1			mg/l	
Sulphate	28,9	0,2			mg/l	
Orthophosphate	0,160	0,002	0,132	0,015	mg/l	83%
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04	1,86	0,17	mg/l	86%
Total P (as PO ₄)	0,070	0,001	0,054	0,004	mg/l	77%
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01			mg/l	



Sample N146A

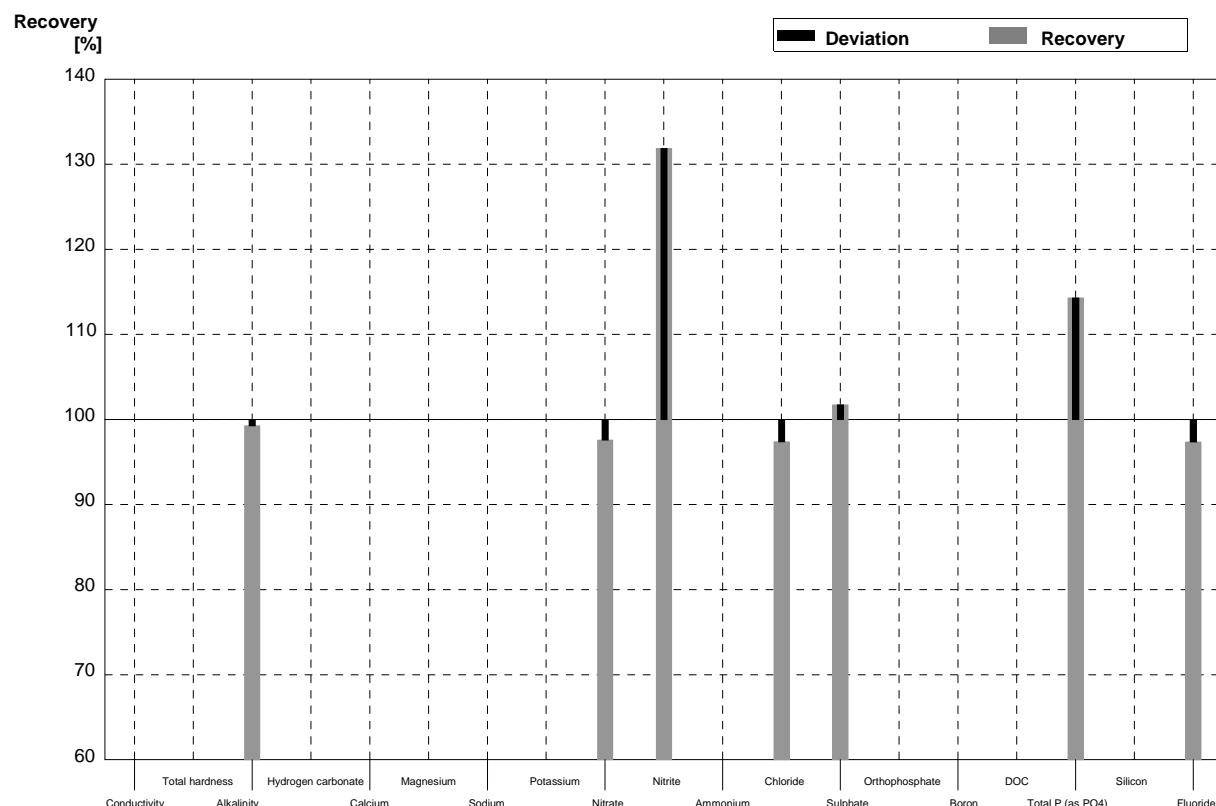
Laboratory AT

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	526	1			µS/cm	
Total hardness	1,90	0,02			mmol/l	
Alkalinity	1,46	0,02	1,43		mmol/l	98%
Hydrogen carbonate	86,3	1,4			mg/l	
Calcium	50,8	0,6			mg/l	
Magnesium	15,4	0,2			mg/l	
Sodium	25,2	0,3			mg/l	
Potassium	4,86	0,03			mg/l	
Nitrate	54,3	0,9	54,8		mg/l	101%
Nitrite	0,032	0,001	0,033		mg/l	103%
Ammonium	0,028	0,004			mg/l	
Chloride	43,3	0,6	42,0		mg/l	97%
Sulphate	70,5	0,4	70,9		mg/l	101%
Orthophosphate	<0,009				mg/l	
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04			mg/l	
Total P (as PO ₄)	<0,009		<0,03		mg/l	•
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004	0,59		mg/l	98%



Sample N146B**Laboratory AT**

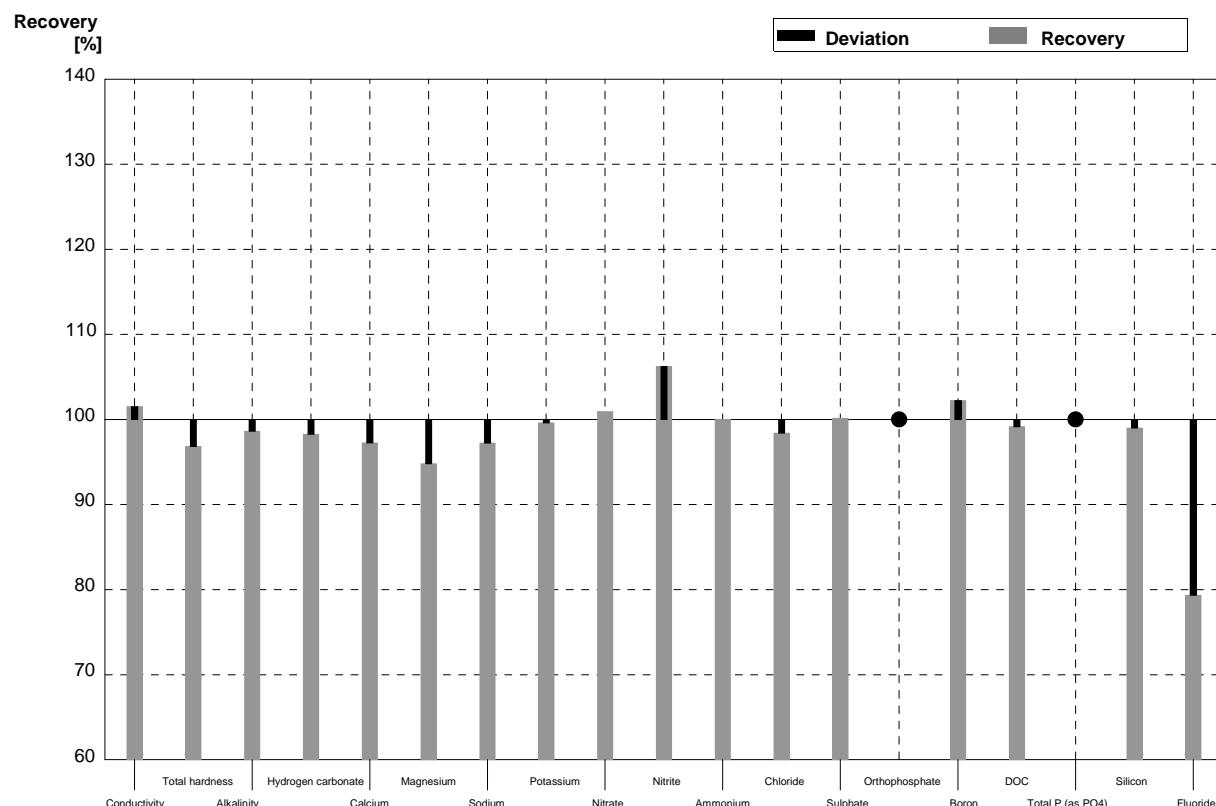
Parameter	Target value	$\pm U$ ($k=2$)	Result	\pm	Unit	Recovery
Conductivity	270	1			$\mu\text{S}/\text{cm}$	
Total hardness	0,560	0,006			mmol/l	
Alkalinity	1,37	0,01	1,36		mmol/l	99%
Hydrogen carbonate	80,4	0,7			mg/l	
Calcium	16,3	0,2			mg/l	
Magnesium	3,73	0,05			mg/l	
Sodium	32,6	0,2			mg/l	
Potassium	2,93	0,02			mg/l	
Nitrate	16,6	0,3	16,2		mg/l	98%
Nitrite	0,0091	0,0002	0,012		mg/l	132%
Ammonium	<0,01				mg/l	
Chloride	11,5	0,1	11,2		mg/l	97%
Sulphate	28,9	0,2	29,4		mg/l	102%
Orthophosphate	0,160	0,002			mg/l	
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04			mg/l	
Total P (as PO ₄)	0,070	0,001	0,08		mg/l	114%
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01	1,47		mg/l	97%



Sample N146A

Laboratory AU

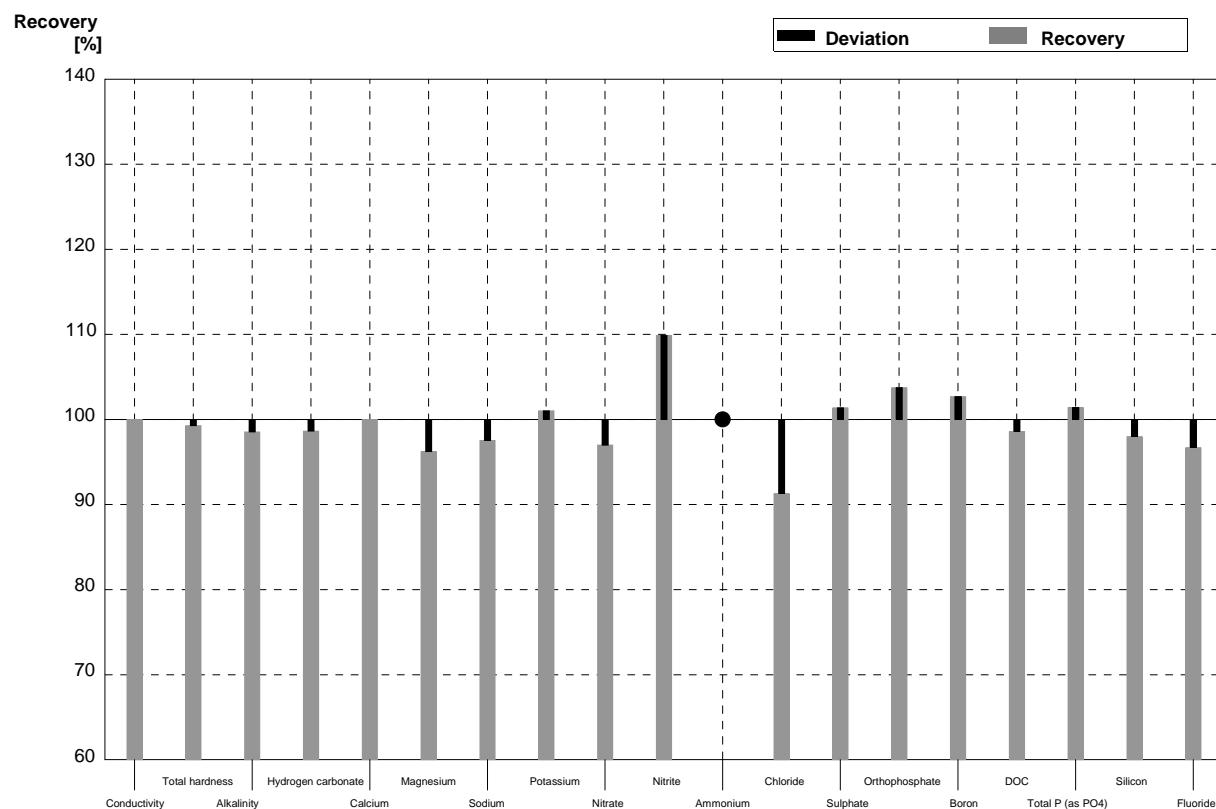
Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Conductivity	526	1	534	16	$\mu\text{S}/\text{cm}$	102%
Total hardness	1,90	0,02	1,84	0,21	mmol/l	97%
Alkalinity	1,46	0,02	1,44	0,05	mmol/l	99%
Hydrogen carbonate	86,3	1,4	84,8	2,6	mg/l	98%
Calcium	50,8	0,6	49,4	4,5	mg/l	97%
Magnesium	15,4	0,2	14,6	1,3	mg/l	95%
Sodium	25,2	0,3	24,5	2,0	mg/l	97%
Potassium	4,86	0,03	4,84	0,34	mg/l	100%
Nitrate	54,3	0,9	54,8	4,9	mg/l	101%
Nitrite	0,032	0,001	0,034	0,005	mg/l	106%
Ammonium	0,028	0,004	0,028	0,005	mg/l	100%
Chloride	43,3	0,6	42,6	2,1	mg/l	98%
Sulphate	70,5	0,4	70,6	3,5	mg/l	100%
Orthophosphate	<0,009		<0,006		mg/l	•
Boron	0,045	0,001	0,046	0,007	mg/l	102%
DOC	1,18	0,04	1,17	0,11	mg/l	99%
Total P (as PO ₄)	<0,009		<0,006		mg/l	•
Silicon	1,00	0,02	0,99	0,15	mg/l	99%
Fluoride	0,605	0,004	0,48	0,10	mg/l	79%



Sample N146B

Laboratory AU

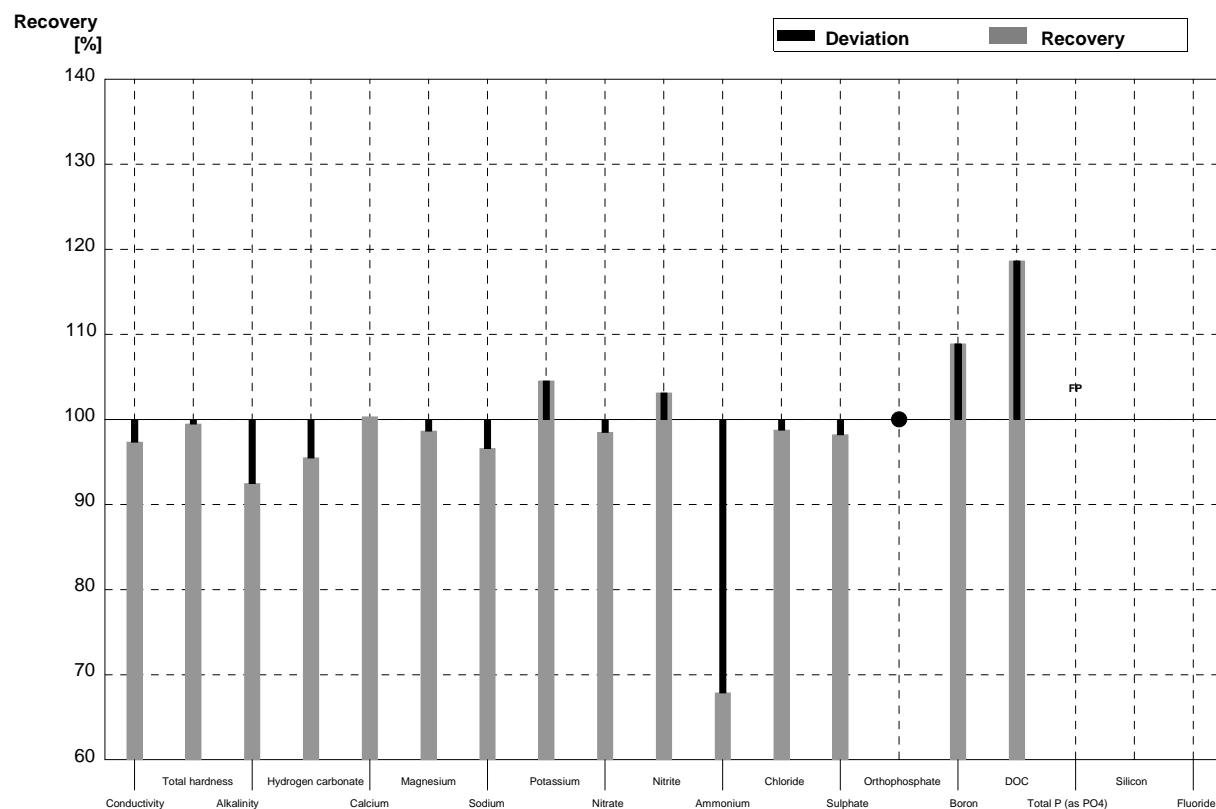
Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Conductivity	270	1	270	8	$\mu\text{S}/\text{cm}$	100%
Total hardness	0,560	0,006	0,556	0,067	mmol/l	99%
Alkalinity	1,37	0,01	1,35	0,05	mmol/l	99%
Hydrogen carbonate	80,4	0,7	79,3	2,4	mg/l	99%
Calcium	16,3	0,2	16,3	1,5	mg/l	100%
Magnesium	3,73	0,05	3,59	0,35	mg/l	96%
Sodium	32,6	0,2	31,8	2,5	mg/l	98%
Potassium	2,93	0,02	2,96	0,22	mg/l	101%
Nitrate	16,6	0,3	16,1	1,5	mg/l	97%
Nitrite	0,0091	0,0002	0,010	0,003	mg/l	110%
Ammonium	<0,01		<0,008		mg/l	•
Chloride	11,5	0,1	10,5	0,6	mg/l	91%
Sulphate	28,9	0,2	29,3	1,5	mg/l	101%
Orthophosphate	0,160	0,002	0,166	0,017	mg/l	104%
Boron	0,185	0,001	0,190	0,028	mg/l	103%
DOC	2,16	0,04	2,13	0,19	mg/l	99%
Total P (as PO ₄)	0,070	0,001	0,071	0,008	mg/l	101%
Silicon	2,99	0,07	2,93	0,44	mg/l	98%
Fluoride	1,51	0,01	1,46	0,22	mg/l	97%



Sample N146A

Laboratory AV

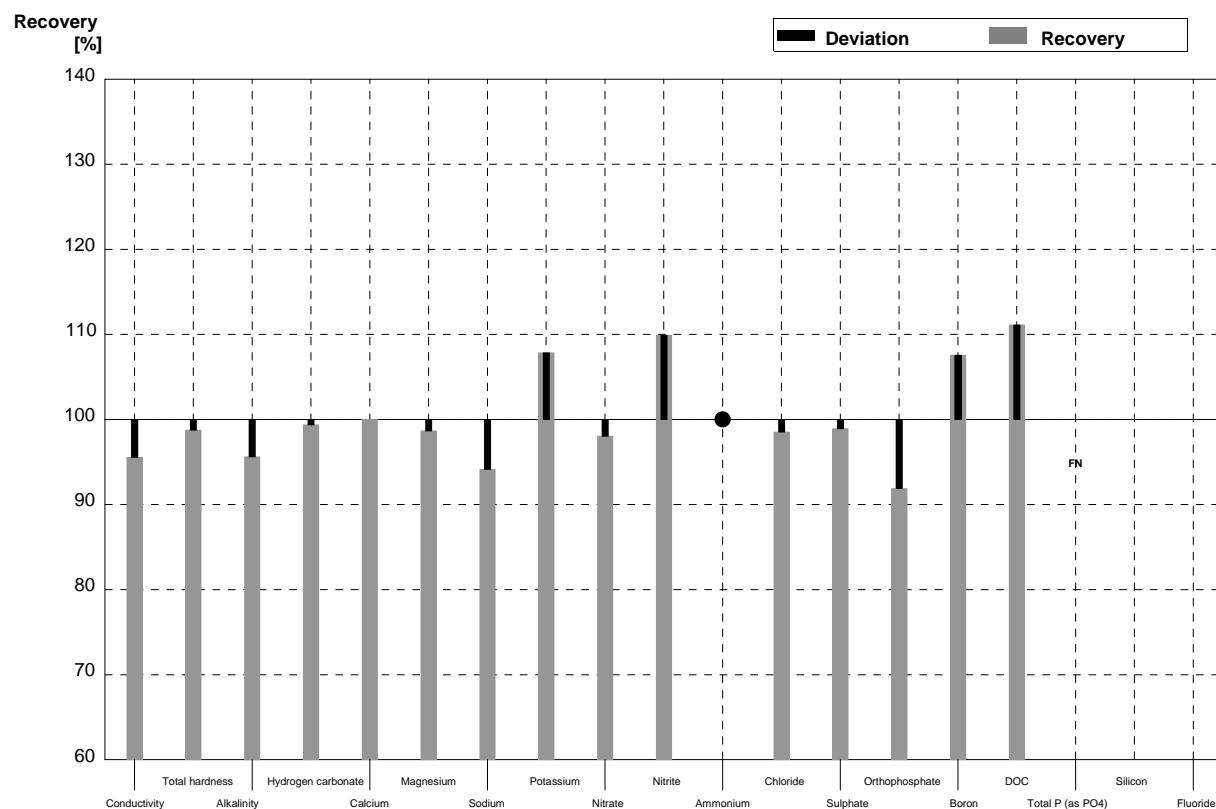
Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Conductivity	526	1	512	20,5	$\mu\text{S}/\text{cm}$	97%
Total hardness	1,90	0,02	1,89		mmol/l	99%
Alkalinity	1,46	0,02	1,35	0,203	mmol/l	92%
Hydrogen carbonate	86,3	1,4	82,4	12,36	mg/l	95%
Calcium	50,8	0,6	50,96	2,038	mg/l	100%
Magnesium	15,4	0,2	15,19	0,911	mg/l	99%
Sodium	25,2	0,3	24,34	1,46	mg/l	97%
Potassium	4,86	0,03	5,08	0,508	mg/l	105%
Nitrate	54,3	0,9	53,476	2,1391	mg/l	98%
Nitrite	0,032	0,001	0,033	0,0026	mg/l	103%
Ammonium	0,028	0,004	0,019	0,0019	mg/l	68%
Chloride	43,3	0,6	42,76	1,711	mg/l	99%
Sulphate	70,5	0,4	69,23	4,154	mg/l	98%
Orthophosphate	<0,009		<0,006		mg/l	•
Boron	0,045	0,001	0,049	0,0059	mg/l	109%
DOC	1,18	0,04	1,4	0,11	mg/l	119%
Total P (as PO ₄)	<0,009		0,0767	0,0116	mg/l	FP
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004			mg/l	



Sample N146B

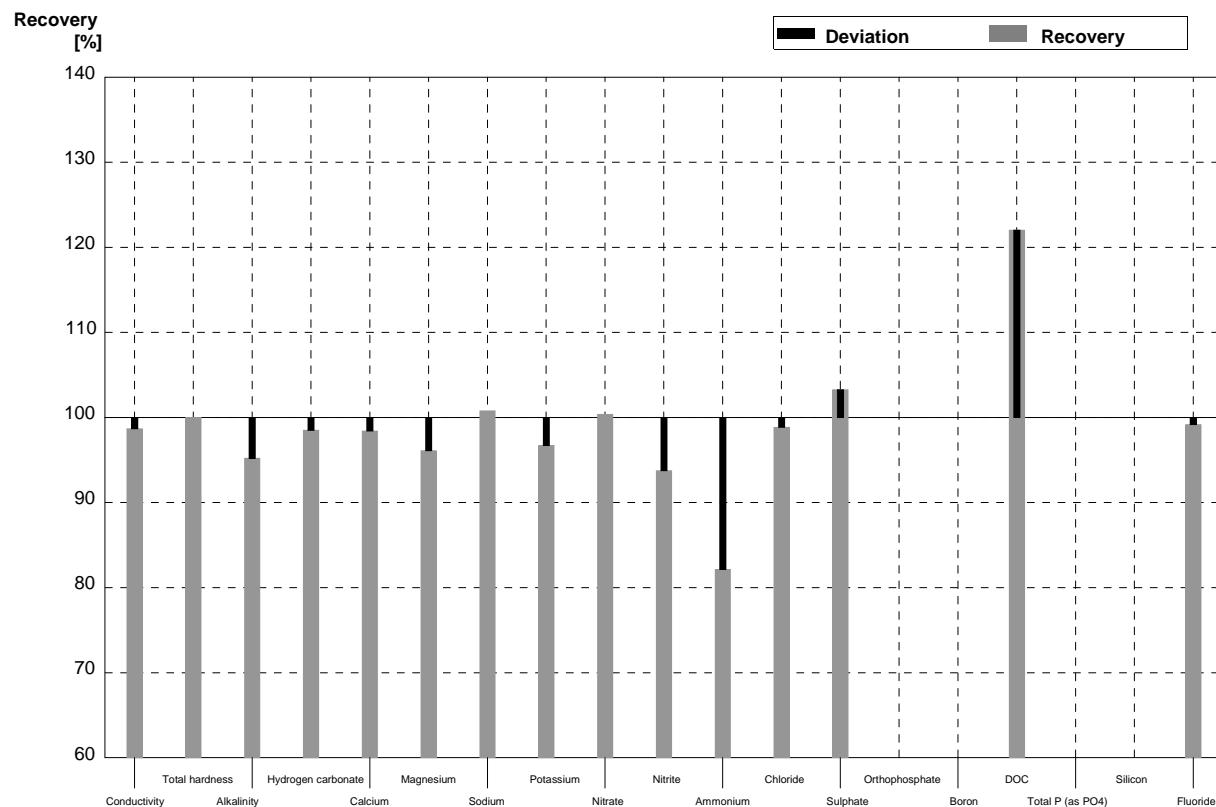
Laboratory AV

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1	258	10,3	µS/cm	96%
Total hardness	0,560	0,006	0,553		mmol/l	99%
Alkalinity	1,37	0,01	1,31	0,197	mmol/l	96%
Hydrogen carbonate	80,4	0,7	79,9	11,99	mg/l	99%
Calcium	16,3	0,2	16,3	0,652	mg/l	100%
Magnesium	3,73	0,05	3,68	0,221	mg/l	99%
Sodium	32,6	0,2	30,69	1,841	mg/l	94%
Potassium	2,93	0,02	3,16	0,316	mg/l	108%
Nitrate	16,6	0,3	16,275	0,651	mg/l	98%
Nitrite	0,0091	0,0002	0,01	0,0008	mg/l	110%
Ammonium	<0,01		0,00064		mg/l	•
Chloride	11,5	0,1	11,33	0,453	mg/l	99%
Sulphate	28,9	0,2	28,59	1,716	mg/l	99%
Orthophosphate	0,160	0,002	0,147	0,0177	mg/l	92%
Boron	0,185	0,001	0,199	0,0239	mg/l	108%
DOC	2,16	0,04	2,4	0,19	mg/l	111%
Total P (as PO4)	0,070	0,001	<0,015		mg/l	FN
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01			mg/l	



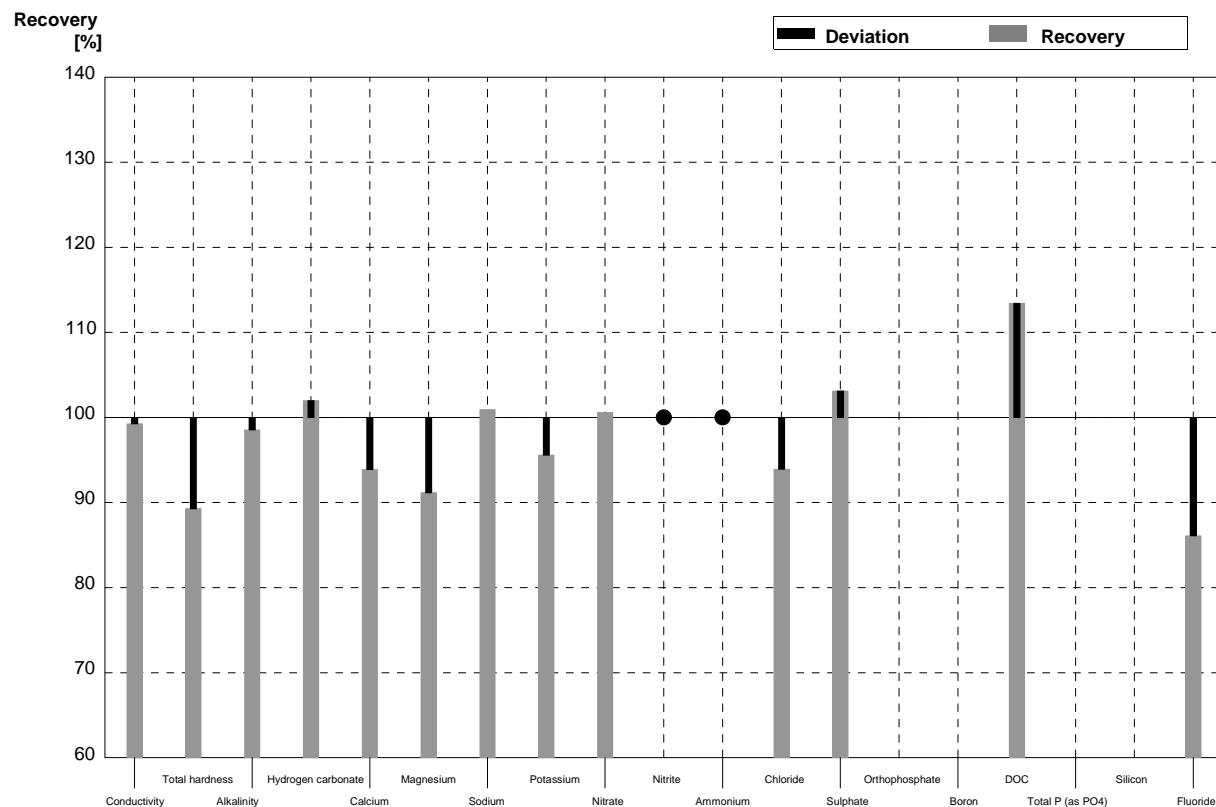
Sample N146A**Laboratory AW**

Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Conductivity	526	1	519	3	$\mu\text{S}/\text{cm}$	99%
Total hardness	1,90	0,02	1,9	0,02	mmol/l	100%
Alkalinity	1,46	0,02	1,39	0,05	mmol/l	95%
Hydrogen carbonate	86,3	1,4	85	3	mg/l	98%
Calcium	50,8	0,6	50	0,2	mg/l	98%
Magnesium	15,4	0,2	14,8	0,1	mg/l	96%
Sodium	25,2	0,3	25,4	0,1	mg/l	101%
Potassium	4,86	0,03	4,7	0,04	mg/l	97%
Nitrate	54,3	0,9	54,5	0,5	mg/l	100%
Nitrite	0,032	0,001	0,030	0,01	mg/l	94%
Ammonium	0,028	0,004	0,023	0,01	mg/l	82%
Chloride	43,3	0,6	42,8	0,3	mg/l	99%
Sulphate	70,5	0,4	72,8	0,7	mg/l	103%
Orthophosphate	<0,009				mg/l	
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04	1,44	0,13	mg/l	122%
Total P (as PO ₄)	<0,009				mg/l	
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004	0,6	0,06	mg/l	99%



Sample N146B**Laboratory AW**

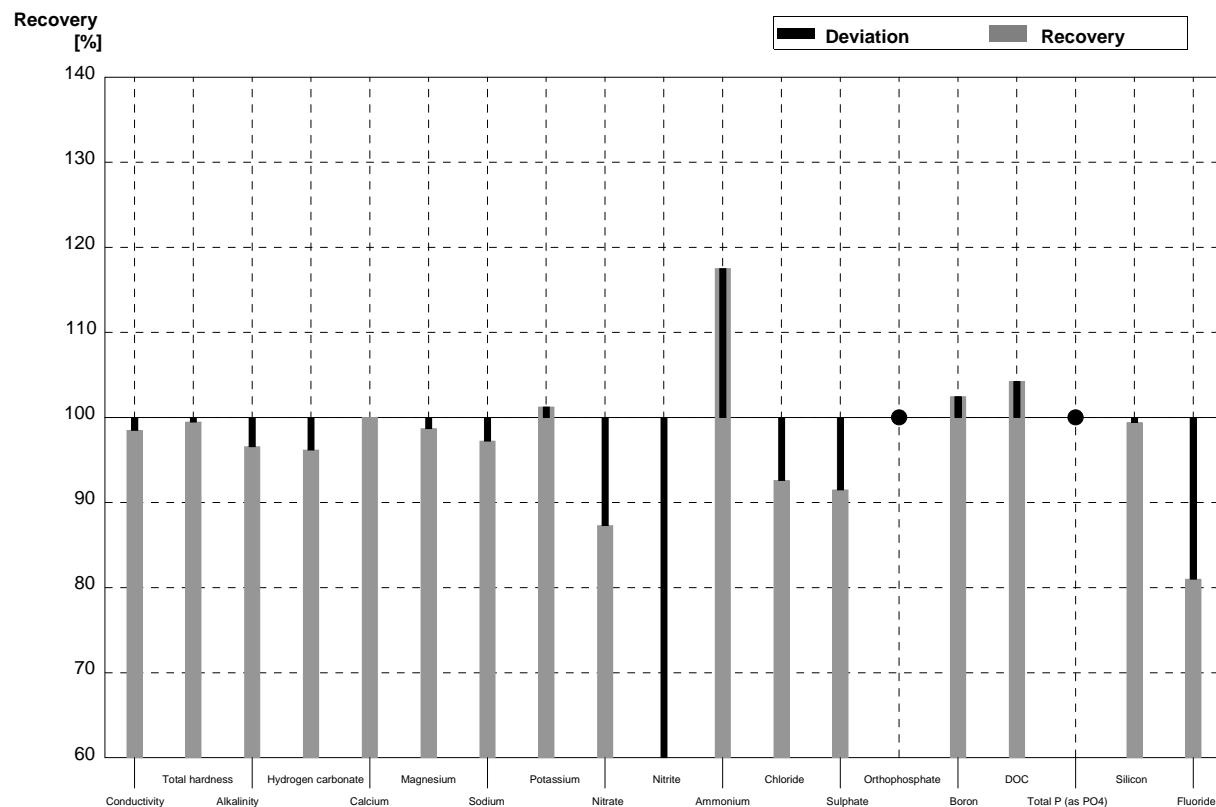
Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Conductivity	270	1	268	2	$\mu\text{S}/\text{cm}$	99%
Total hardness	0,560	0,006	0,5	0,01	mmol/l	89%
Alkalinity	1,37	0,01	1,35	0,05	mmol/l	99%
Hydrogen carbonate	80,4	0,7	82	3	mg/l	102%
Calcium	16,3	0,2	15,3	0,1	mg/l	94%
Magnesium	3,73	0,05	3,4	0,1	mg/l	91%
Sodium	32,6	0,2	32,9	0,2	mg/l	101%
Potassium	2,93	0,02	2,8	0,02	mg/l	96%
Nitrate	16,6	0,3	16,7	0,1	mg/l	101%
Nitrite	0,0091	0,0002	<0,01		mg/l	•
Ammonium	<0,01		<0,01		mg/l	•
Chloride	11,5	0,1	10,8	0,1	mg/l	94%
Sulphate	28,9	0,2	29,8	0,3	mg/l	103%
Orthophosphate	0,160	0,002			mg/l	
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04	2,45	0,22	mg/l	113%
Total P (as PO ₄)	0,070	0,001			mg/l	
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01	1,3	0,13	mg/l	86%



Sample N146A

Laboratory AX

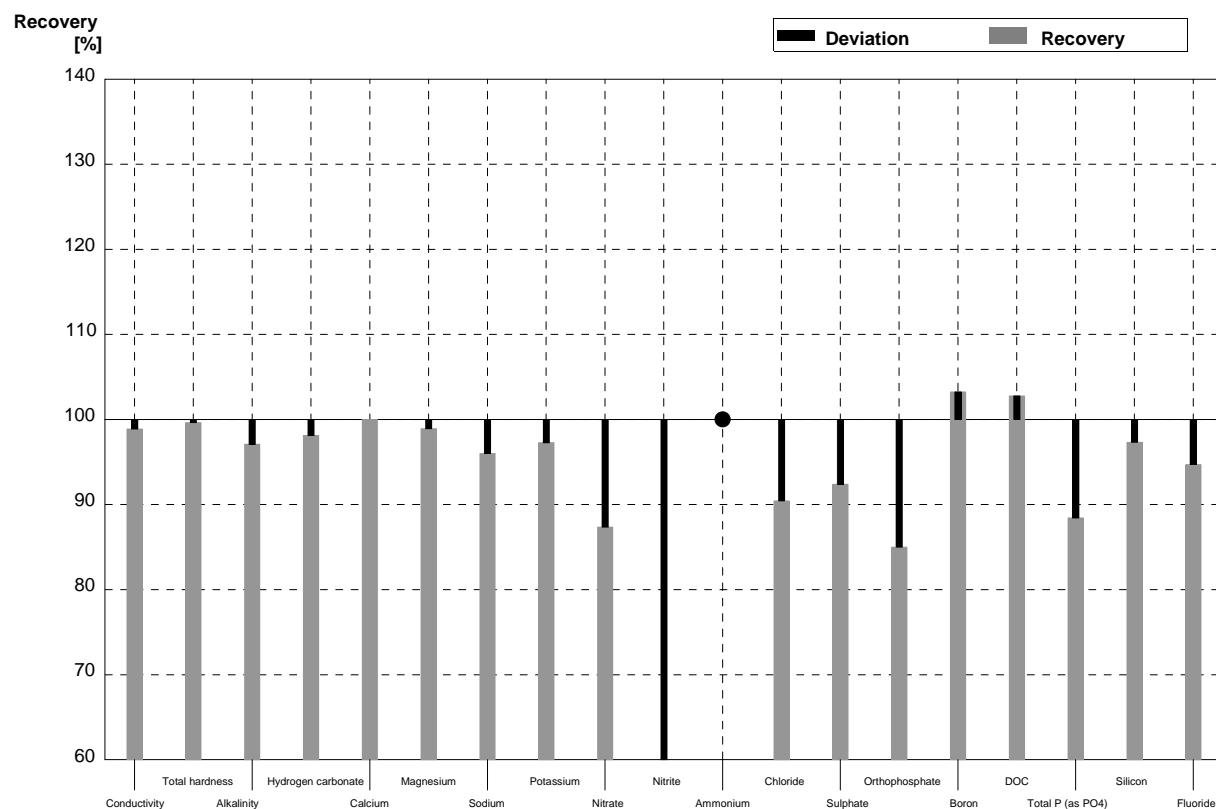
Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Conductivity	526	1	518	0,577	$\mu\text{S}/\text{cm}$	98%
Total hardness	1,90	0,02	1,89	0,007	mmol/l	99%
Alkalinity	1,46	0,02	1,41	0,0001	mmol/l	97%
Hydrogen carbonate	86,3	1,4	83,0	0,153	mg/l	96%
Calcium	50,8	0,6	50,8	0,208	mg/l	100%
Magnesium	15,4	0,2	15,2	0,058	mg/l	99%
Sodium	25,2	0,3	24,5	0,208	mg/l	97%
Potassium	4,86	0,03	4,92	0,012	mg/l	101%
Nitrate	54,3	0,9	47,4	0,115	mg/l	87%
Nitrite	0,032	0,001	0,0099	0,0001	mg/l	31%
Ammonium	0,028	0,004	0,0329	0,0004	mg/l	118%
Chloride	43,3	0,6	40,1	0,580	mg/l	93%
Sulphate	70,5	0,4	64,5	0,304	mg/l	91%
Orthophosphate	<0,009		<0,015	0,0001	mg/l	•
Boron	0,045	0,001	0,0461	0,0001	mg/l	102%
DOC	1,18	0,04	1,23	0,012	mg/l	104%
Total P (as PO ₄)	<0,009		<0,015		mg/l	•
Silicon	1,00	0,02	0,994	0,006	mg/l	99%
Fluoride	0,605	0,004	0,49	0,006	mg/l	81%



Sample N146B

Laboratory AX

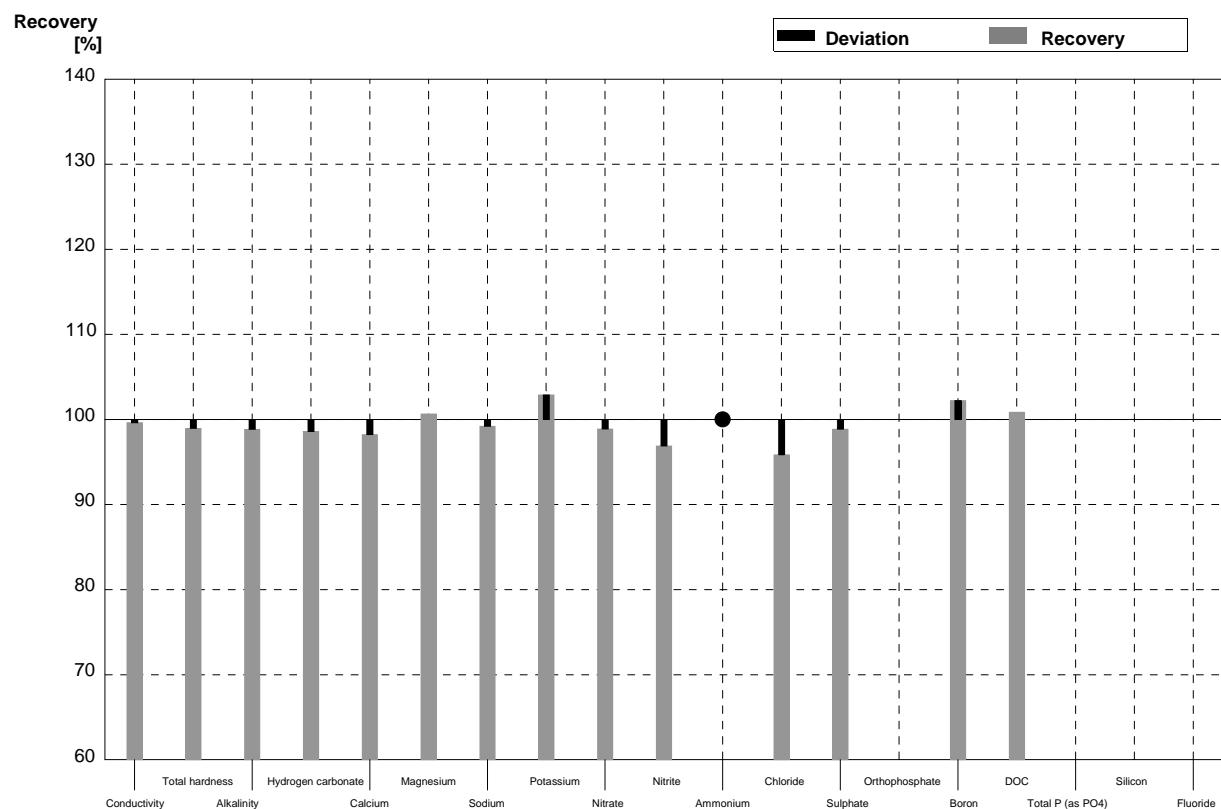
Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Conductivity	270	1	267	0,0001	$\mu\text{S}/\text{cm}$	99%
Total hardness	0,560	0,006	0,558	0,002	mmol/l	100%
Alkalinity	1,37	0,01	1,33	0,0001	mmol/l	97%
Hydrogen carbonate	80,4	0,7	78,9	0,058	mg/l	98%
Calcium	16,3	0,2	16,3	0,058	mg/l	100%
Magnesium	3,73	0,05	3,69	0,006	mg/l	99%
Sodium	32,6	0,2	31,3	0,100	mg/l	96%
Potassium	2,93	0,02	2,85	0,015	mg/l	97%
Nitrate	16,6	0,3	14,5	0,025	mg/l	87%
Nitrite	0,0091	0,0002	0,0029	0,0001	mg/l	32%
Ammonium	<0,01		0,00516	0,0001	mg/l	•
Chloride	11,5	0,1	10,4	0,012	mg/l	90%
Sulphate	28,9	0,2	26,7	0,151	mg/l	92%
Orthophosphate	0,160	0,002	0,136	0,0013	mg/l	85%
Boron	0,185	0,001	0,191	0,0006	mg/l	103%
DOC	2,16	0,04	2,22	0,017	mg/l	103%
Total P (as PO ₄)	0,070	0,001	0,0619	0,0001	mg/l	88%
Silicon	2,99	0,07	2,91	0,012	mg/l	97%
Fluoride	1,51	0,01	1,43	0,0001	mg/l	95%



Sample N146A

Laboratory AY

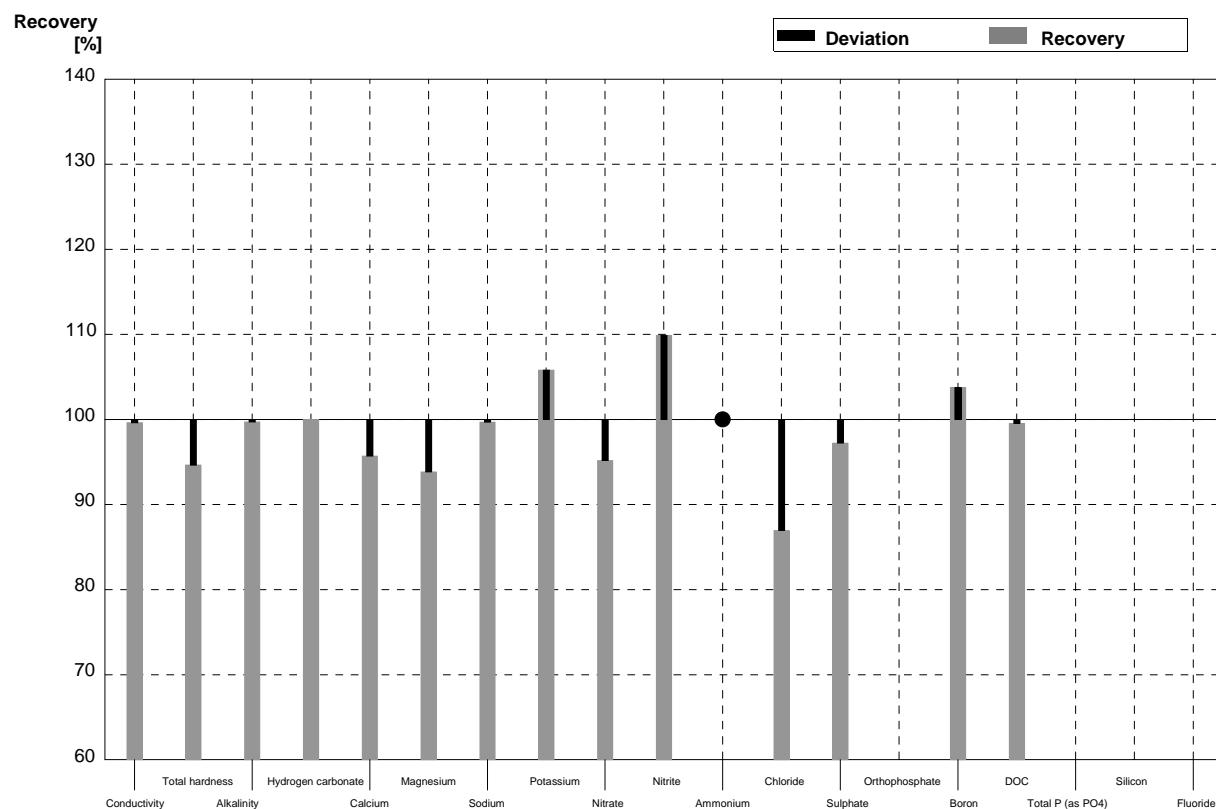
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	526	1	524	10,0	µS/cm	100%
Total hardness	1,90	0,02	1,88		mmol/l	99%
Alkalinity	1,46	0,02	1,443	0,097	mmol/l	99%
Hydrogen carbonate	86,3	1,4	85,1		mg/l	99%
Calcium	50,8	0,6	49,9	3,44	mg/l	98%
Magnesium	15,4	0,2	15,5	2,03	mg/l	101%
Sodium	25,2	0,3	25,0	2,38	mg/l	99%
Potassium	4,86	0,03	5,0	0,51	mg/l	103%
Nitrate	54,3	0,9	53,7	5,58	mg/l	99%
Nitrite	0,032	0,001	0,031	0,008	mg/l	97%
Ammonium	0,028	0,004	<0,05		mg/l	•
Chloride	43,3	0,6	41,5	5,81	mg/l	96%
Sulphate	70,5	0,4	69,7	6,62	mg/l	99%
Orthophosphate	<0,009				mg/l	
Boron	0,045	0,001	0,046	0,005	mg/l	102%
DOC	1,18	0,04	1,19	0,22	mg/l	101%
Total P (as PO4)	<0,009				mg/l	
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004			mg/l	



Sample N146B

Laboratory AY

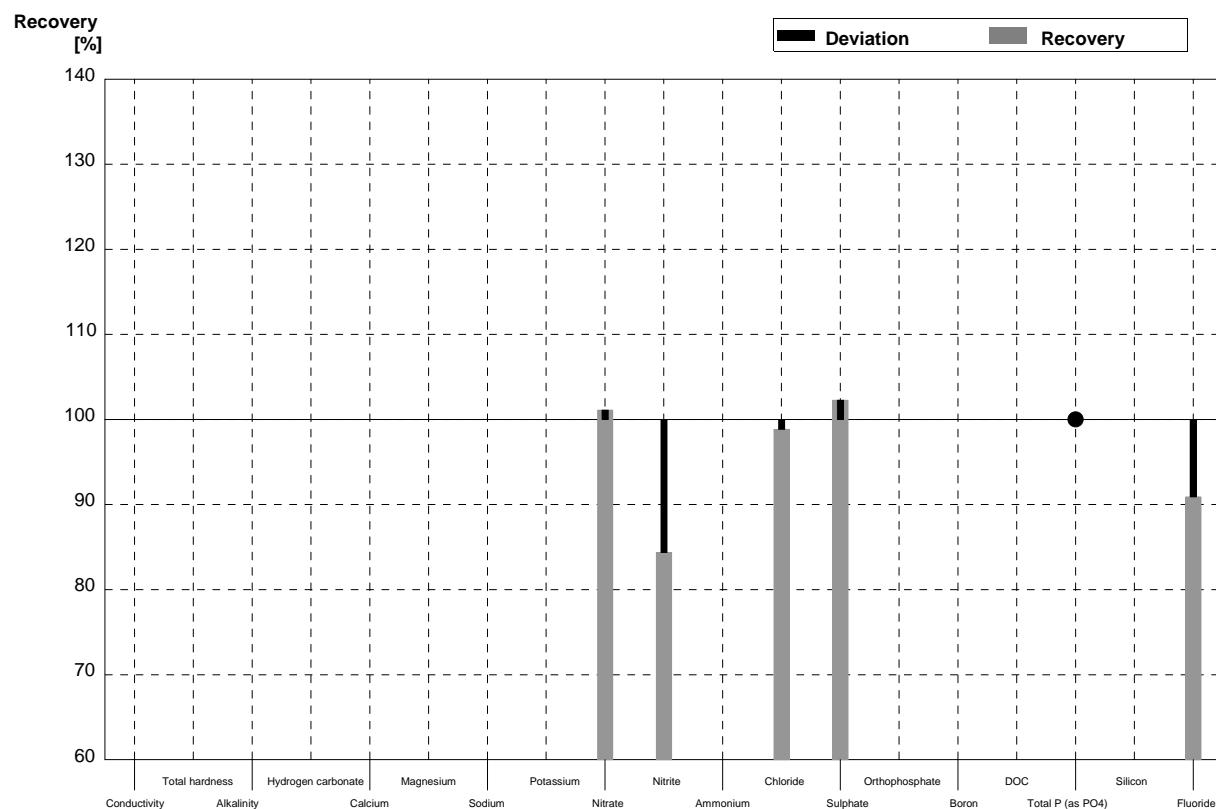
Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Conductivity	270	1	269	7,3	$\mu\text{S}/\text{cm}$	100%
Total hardness	0,560	0,006	0,53		mmol/l	95%
Alkalinity	1,37	0,01	1,366	0,092	mmol/l	100%
Hydrogen carbonate	80,4	0,7	80,4		mg/l	100%
Calcium	16,3	0,2	15,6	1,08	mg/l	96%
Magnesium	3,73	0,05	3,5	0,46	mg/l	94%
Sodium	32,6	0,2	32,5	3,09	mg/l	100%
Potassium	2,93	0,02	3,1	0,32	mg/l	106%
Nitrate	16,6	0,3	15,8	1,64	mg/l	95%
Nitrite	0,0091	0,0002	0,010	0,002	mg/l	110%
Ammonium	<0,01		<0,05		mg/l	•
Chloride	11,5	0,1	10,0	1,40	mg/l	87%
Sulphate	28,9	0,2	28,1	2,67	mg/l	97%
Orthophosphate	0,160	0,002			mg/l	
Boron	0,185	0,001	0,192	0,021	mg/l	104%
DOC	2,16	0,04	2,15	0,40	mg/l	100%
Total P (as PO ₄)	0,070	0,001			mg/l	
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01			mg/l	



Sample N146A

Laboratory AZ

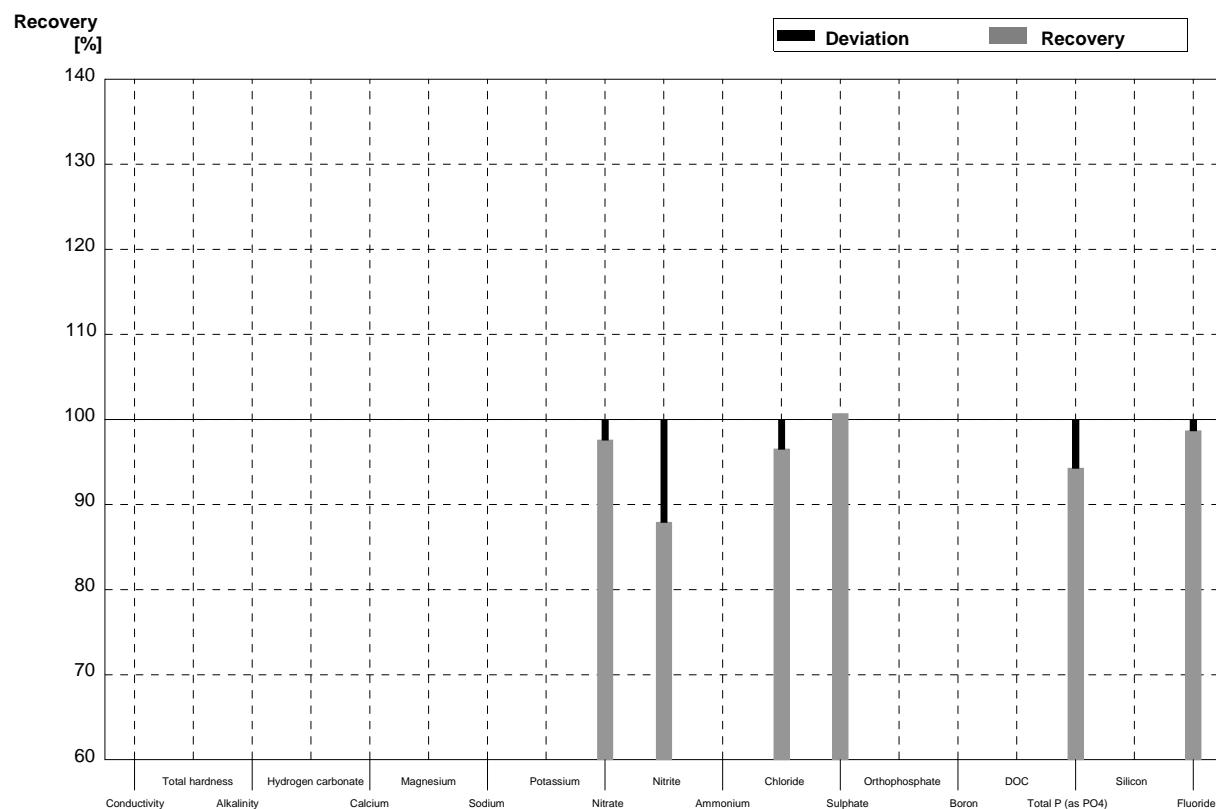
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	526	1			µS/cm	
Total hardness	1,90	0,02			mmol/l	
Alkalinity	1,46	0,02			mmol/l	
Hydrogen carbonate	86,3	1,4			mg/l	
Calcium	50,8	0,6			mg/l	
Magnesium	15,4	0,2			mg/l	
Sodium	25,2	0,3			mg/l	
Potassium	4,86	0,03			mg/l	
Nitrate	54,3	0,9	54,9	1,4	mg/l	101%
Nitrite	0,032	0,001	0,027	0,005	mg/l	84%
Ammonium	0,028	0,004			mg/l	
Chloride	43,3	0,6	42,8	1,1	mg/l	99%
Sulphate	70,5	0,4	72,1	1,9	mg/l	102%
Orthophosphate	<0,009				mg/l	
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04			mg/l	
Total P (as PO ₄)	<0,009		<0,003		mg/l	•
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004	0,550	0,03	mg/l	91%



Sample N146B

Laboratory AZ

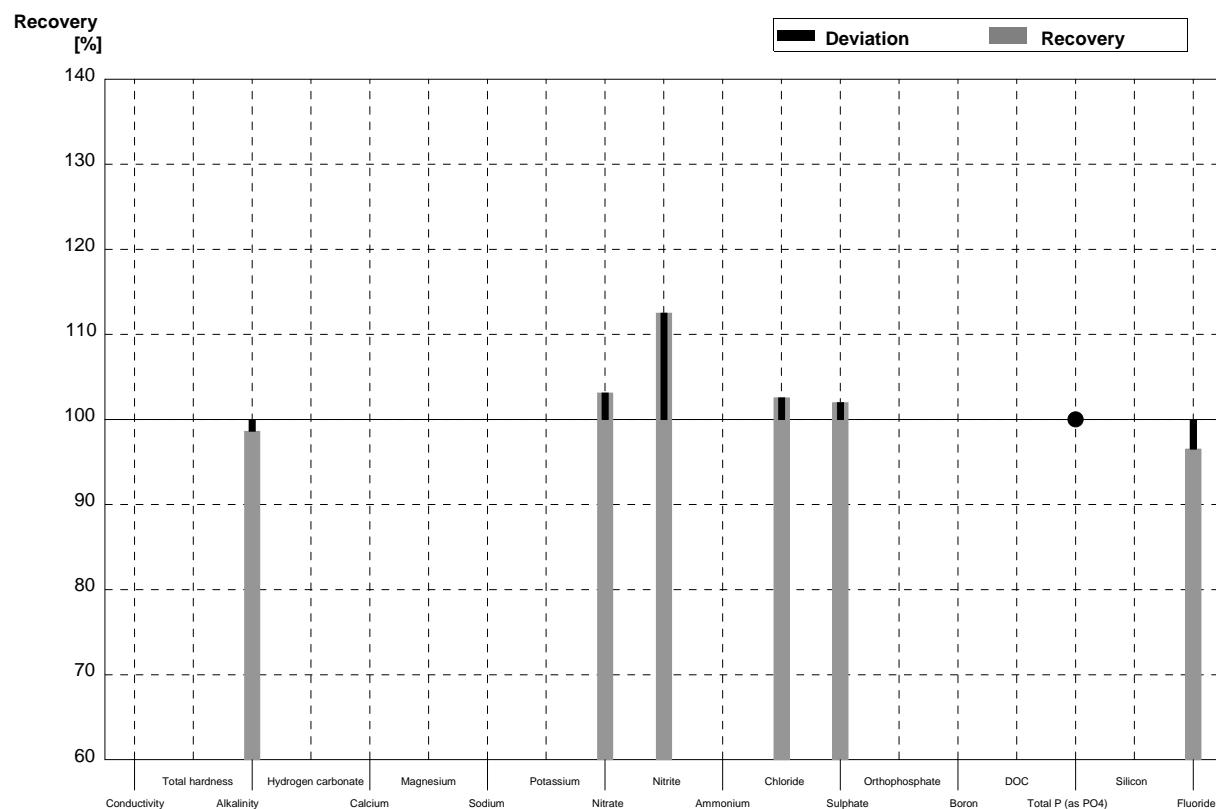
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1			µS/cm	
Total hardness	0,560	0,006			mmol/l	
Alkalinity	1,37	0,01			mmol/l	
Hydrogen carbonate	80,4	0,7			mg/l	
Calcium	16,3	0,2			mg/l	
Magnesium	3,73	0,05			mg/l	
Sodium	32,6	0,2			mg/l	
Potassium	2,93	0,02			mg/l	
Nitrate	16,6	0,3	16,2	0,5	mg/l	98%
Nitrite	0,0091	0,0002	0,008	0,002	mg/l	88%
Ammonium	<0,01				mg/l	
Chloride	11,5	0,1	11,1	0,3	mg/l	97%
Sulphate	28,9	0,2	29,1	0,9	mg/l	101%
Orthophosphate	0,160	0,002			mg/l	
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04			mg/l	
Total P (as PO ₄)	0,070	0,001	0,066	0,005	mg/l	94%
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01	1,49	0,03	mg/l	99%



Sample N146A

Laboratory BA

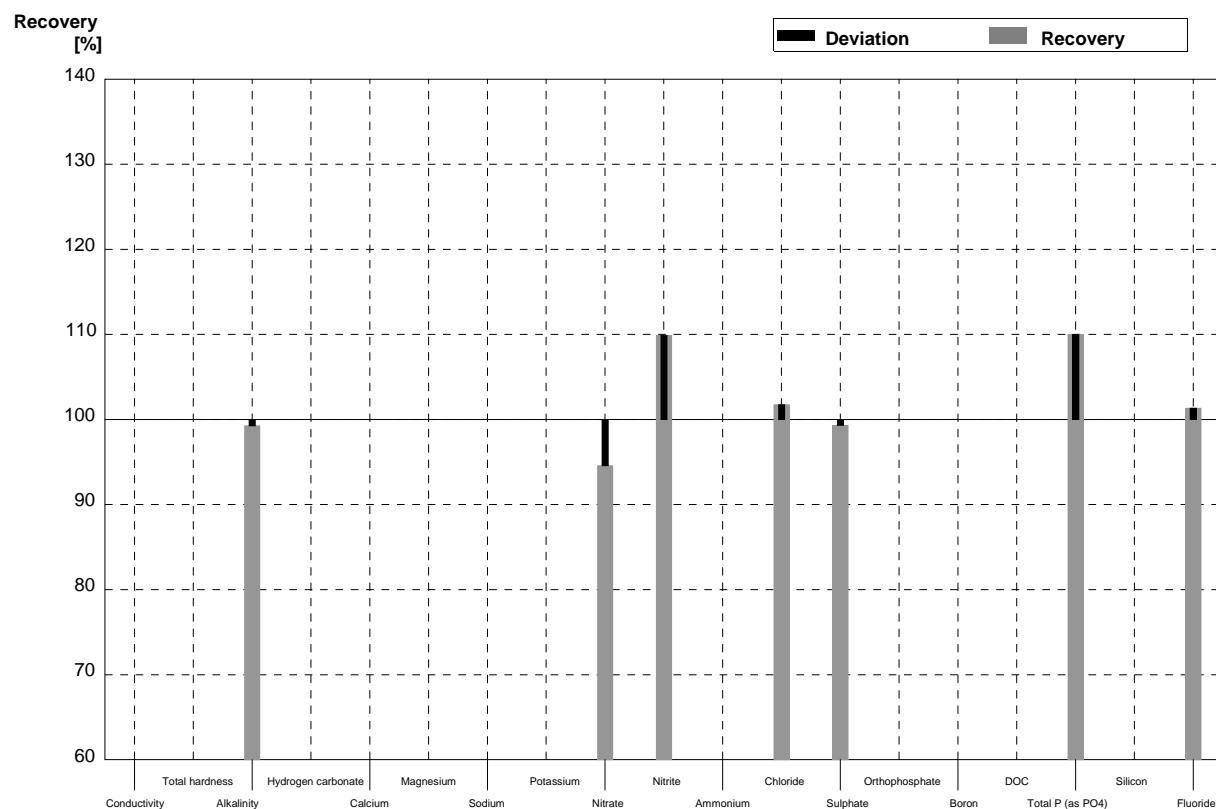
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	526	1			µS/cm	
Total hardness	1,90	0,02			mmol/l	
Alkalinity	1,46	0,02	1,44		mmol/l	99%
Hydrogen carbonate	86,3	1,4			mg/l	
Calcium	50,8	0,6			mg/l	
Magnesium	15,4	0,2			mg/l	
Sodium	25,2	0,3			mg/l	
Potassium	4,86	0,03			mg/l	
Nitrate	54,3	0,9	56,0		mg/l	103%
Nitrite	0,032	0,001	0,036		mg/l	113%
Ammonium	0,028	0,004			mg/l	
Chloride	43,3	0,6	44,4		mg/l	103%
Sulphate	70,5	0,4	71,9		mg/l	102%
Orthophosphate	<0,009				mg/l	
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04			mg/l	
Total P (as PO ₄)	<0,009		<0,03		mg/l	•
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004	0,584		mg/l	97%



Sample N146B

Laboratory BA

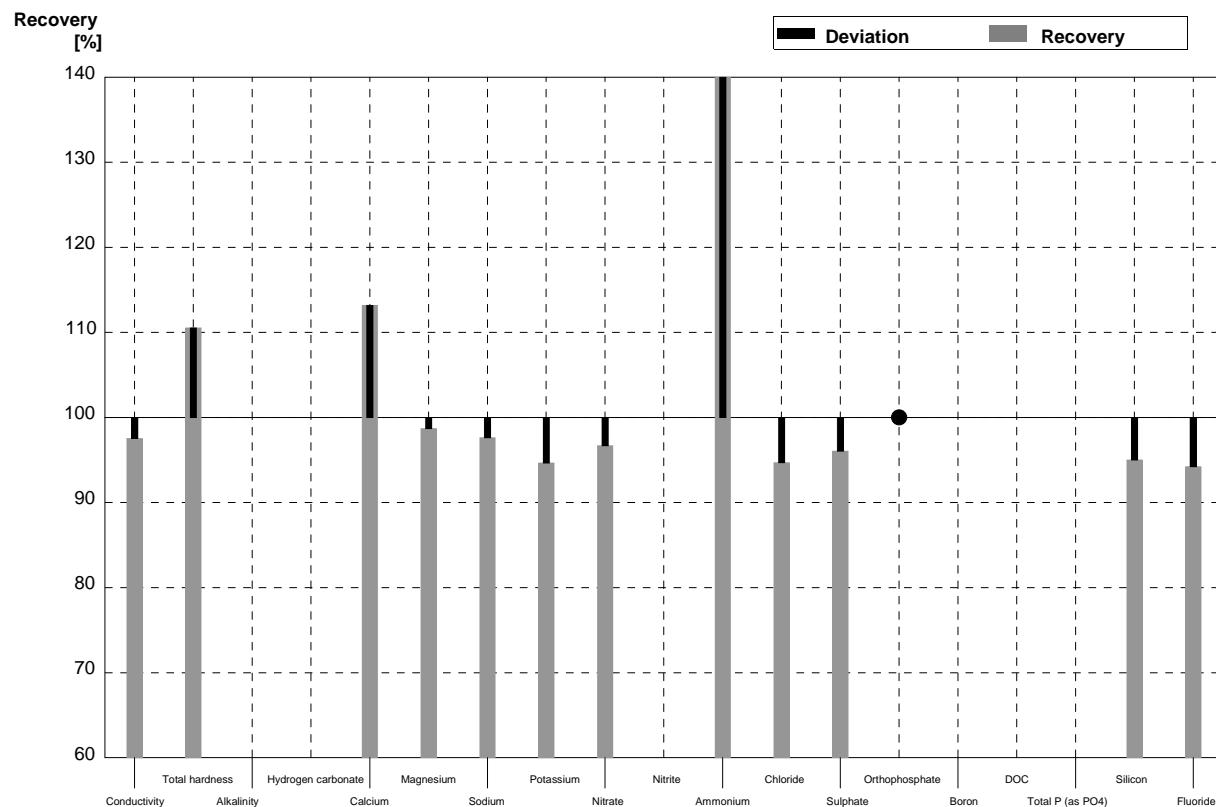
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1			µS/cm	
Total hardness	0,560	0,006			mmol/l	
Alkalinity	1,37	0,01	1,36		mmol/l	99%
Hydrogen carbonate	80,4	0,7			mg/l	
Calcium	16,3	0,2			mg/l	
Magnesium	3,73	0,05			mg/l	
Sodium	32,6	0,2			mg/l	
Potassium	2,93	0,02			mg/l	
Nitrate	16,6	0,3	15,7		mg/l	95%
Nitrite	0,0091	0,0002	0,010		mg/l	110%
Ammonium	<0,01				mg/l	
Chloride	11,5	0,1	11,7		mg/l	102%
Sulphate	28,9	0,2	28,7		mg/l	99%
Orthophosphate	0,160	0,002			mg/l	
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04			mg/l	
Total P (as PO4)	0,070	0,001	0,077		mg/l	110%
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01	1,53		mg/l	101%



Sample N146A

Laboratory BB

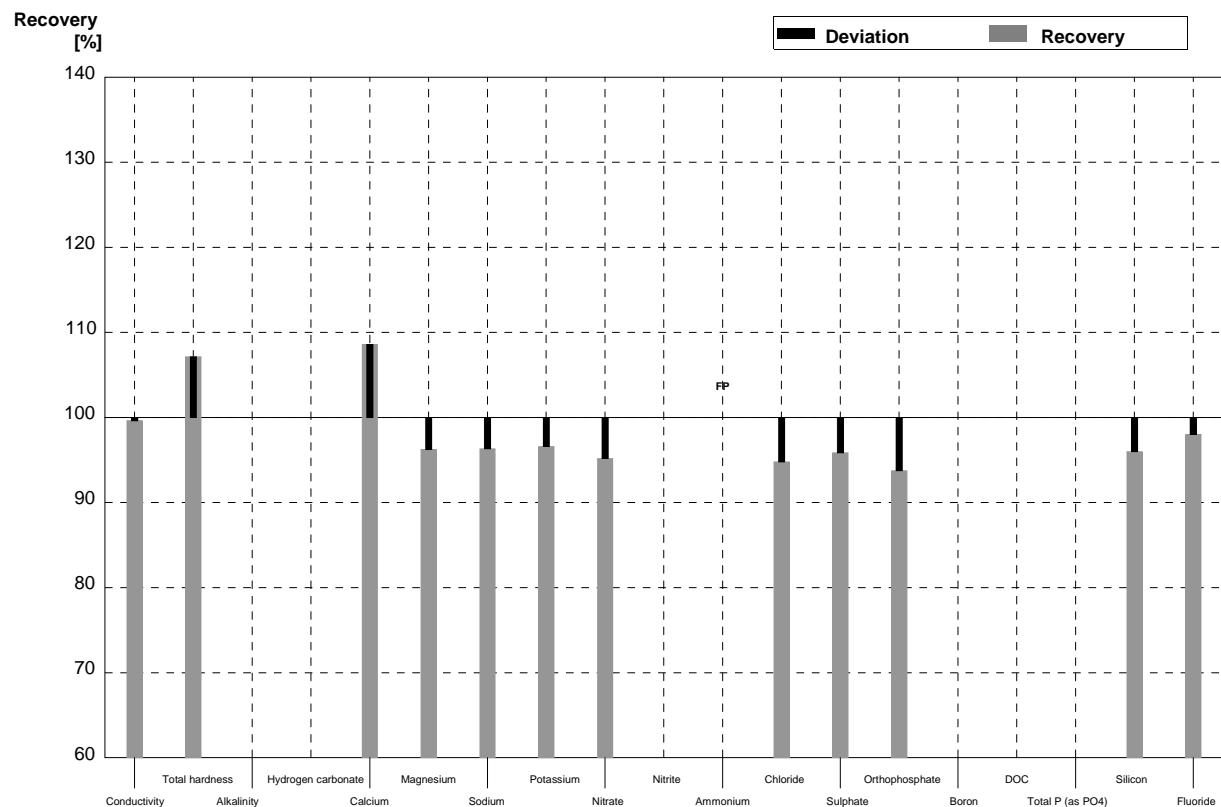
Parameter	Target value	$\pm U$ ($k=2$)	Result	\pm	Unit	Recovery
Conductivity	526	1	513	10	$\mu\text{S}/\text{cm}$	98%
Total hardness	1,90	0,02	2,1	0,1	mmol/l	111%
Alkalinity	1,46	0,02			mmol/l	
Hydrogen carbonate	86,3	1,4			mg/l	
Calcium	50,8	0,6	57,5	1,0	mg/l	113%
Magnesium	15,4	0,2	15,2	0,3	mg/l	99%
Sodium	25,2	0,3	24,6	0,4	mg/l	98%
Potassium	4,86	0,03	4,60	0,12	mg/l	95%
Nitrate	54,3	0,9	52,5	0,5	mg/l	97%
Nitrite	0,032	0,001			mg/l	
Ammonium	0,028	0,004	0,26	0,02	mg/l	929%
Chloride	43,3	0,6	41,0	0,3	mg/l	95%
Sulphate	70,5	0,4	67,7	0,5	mg/l	96%
Orthophosphate	<0,009		'0,01	0,005	mg/l	•
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04			mg/l	
Total P (as PO ₄)	<0,009				mg/l	
Silicon	1,00	0,02	0,95	0,07	mg/l	95%
Fluoride	0,605	0,004	0,57	0,02	mg/l	94%



Sample N146B

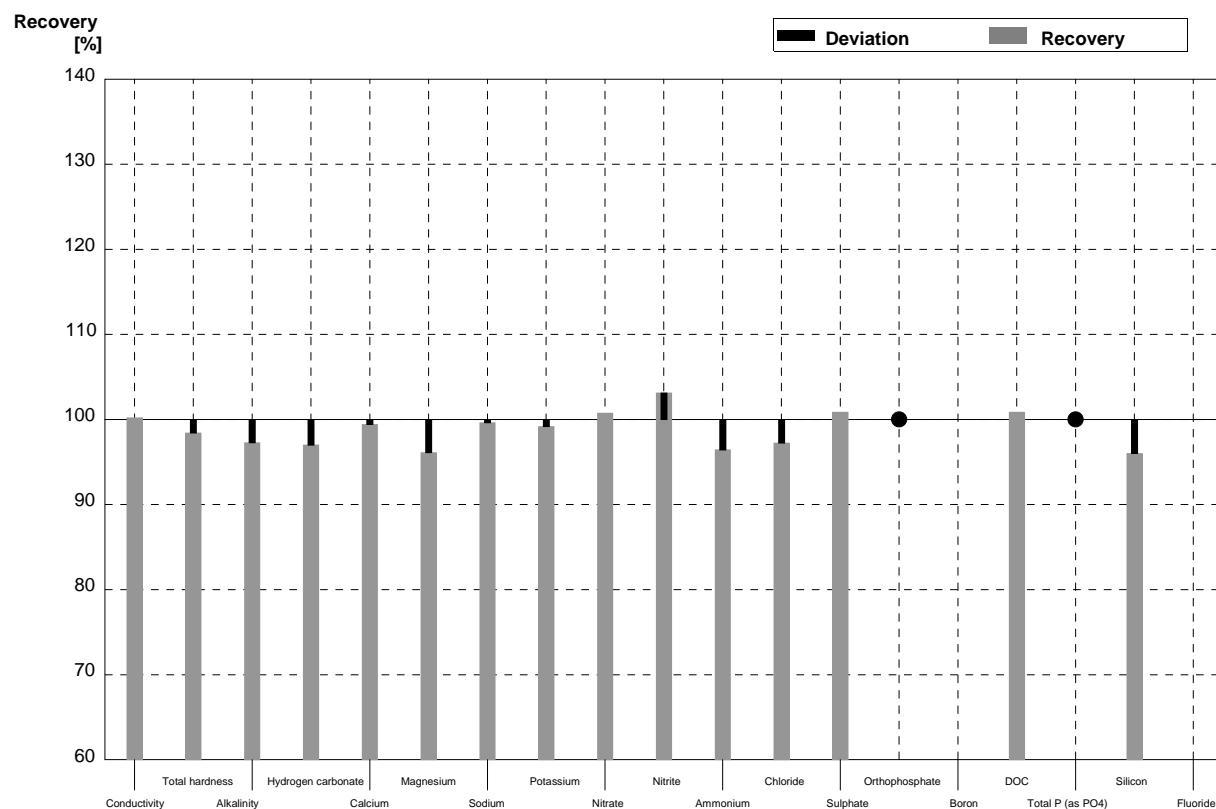
Laboratory BB

Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Conductivity	270	1	269	10	$\mu\text{S}/\text{cm}$	100%
Total hardness	0,560	0,006	0,6	0,1	mmol/l	107%
Alkalinity	1,37	0,01			mmol/l	
Hydrogen carbonate	80,4	0,7			mg/l	
Calcium	16,3	0,2	17,7	1,0	mg/l	109%
Magnesium	3,73	0,05	3,59	0,11	mg/l	96%
Sodium	32,6	0,2	31,4	0,1	mg/l	96%
Potassium	2,93	0,02	2,83	0,16	mg/l	97%
Nitrate	16,6	0,3	15,8	0,2	mg/l	95%
Nitrite	0,0091	0,0002			mg/l	
Ammonium	<0,01		0,22	0,02	mg/l	FP
Chloride	11,5	0,1	10,9	0,1	mg/l	95%
Sulphate	28,9	0,2	27,7	0,1	mg/l	96%
Orthophosphate	0,160	0,002	0,15	0,03	mg/l	94%
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04			mg/l	
Total P (as PO ₄)	0,070	0,001			mg/l	
Silicon	2,99	0,07	2,87	0,07	mg/l	96%
Fluoride	1,51	0,01	1,48	0,10	mg/l	98%



Sample N146A
Laboratory BC

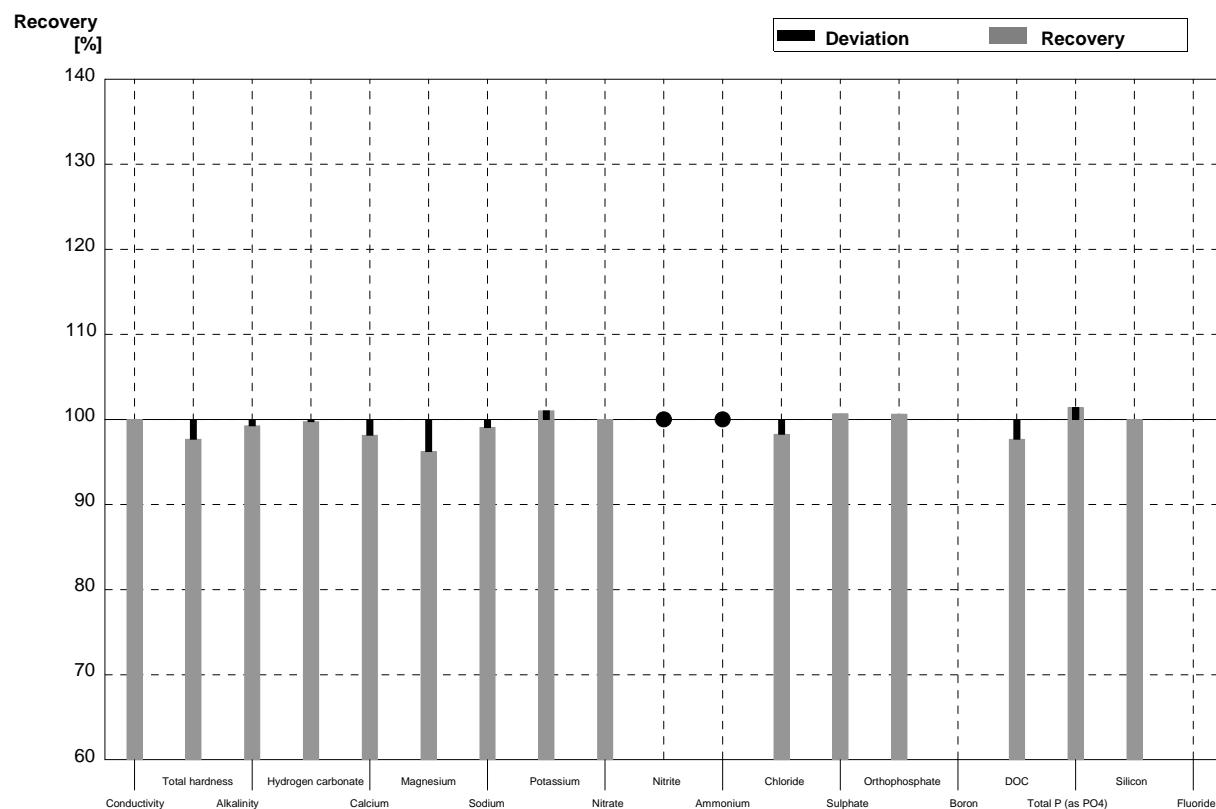
Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Conductivity	526	1	527	22	$\mu\text{S}/\text{cm}$	100%
Total hardness	1,90	0,02	1,87	0,1	mmol/l	98%
Alkalinity	1,46	0,02	1,42	0,1	mmol/l	97%
Hydrogen carbonate	86,3	1,4	83,7	4	mg/l	97%
Calcium	50,8	0,6	50,5	5	mg/l	99%
Magnesium	15,4	0,2	14,8	1,8	mg/l	96%
Sodium	25,2	0,3	25,1	4	mg/l	100%
Potassium	4,86	0,03	4,82	0,7	mg/l	99%
Nitrate	54,3	0,9	54,7	4	mg/l	101%
Nitrite	0,032	0,001	0,033	0,003	mg/l	103%
Ammonium	0,028	0,004	0,027	0,004	mg/l	96%
Chloride	43,3	0,6	42,1	3	mg/l	97%
Sulphate	70,5	0,4	71,1	5	mg/l	101%
Orthophosphate	<0,009		<0,01		mg/l	•
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04	1,19	0,2	mg/l	101%
Total P (as PO ₄)	<0,009		<0,013		mg/l	•
Silicon	1,00	0,02	0,96	0,1	mg/l	96%
Fluoride	0,605	0,004			mg/l	



Sample N146B

Laboratory BC

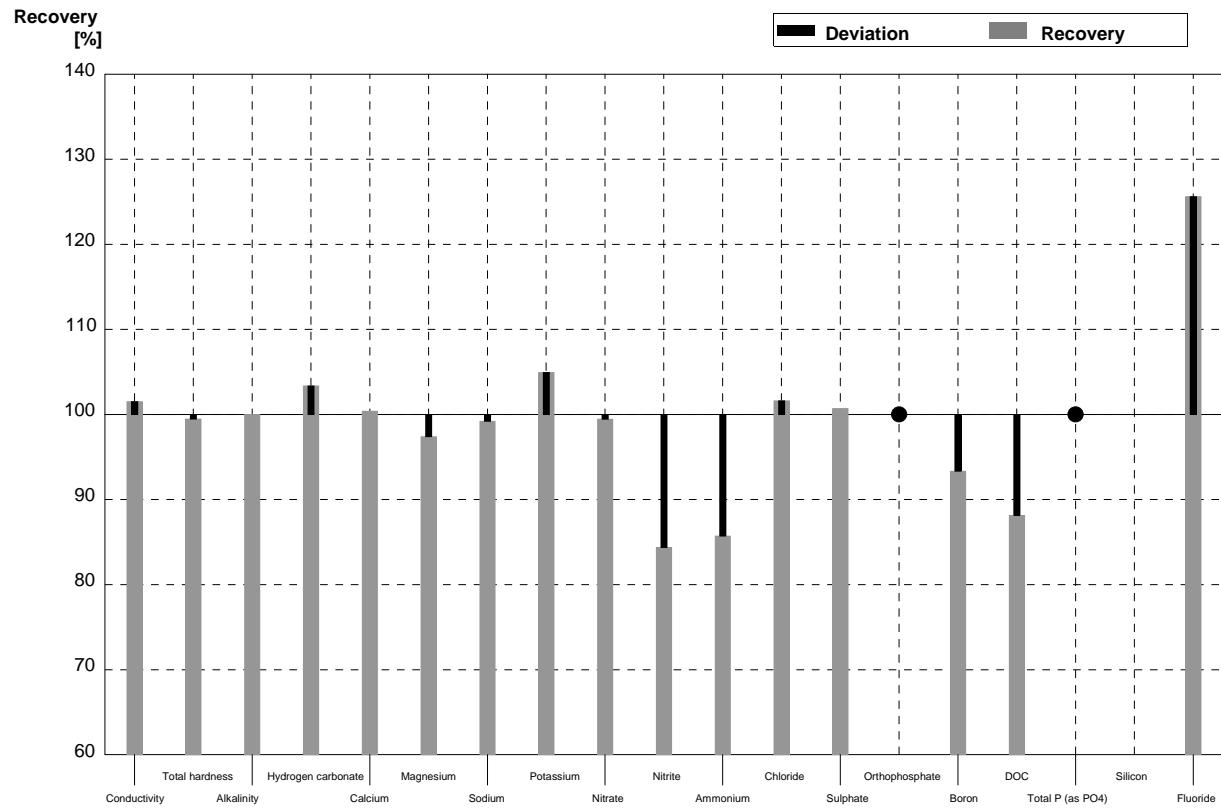
Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Conductivity	270	1	270	11	$\mu\text{S}/\text{cm}$	100%
Total hardness	0,560	0,006	0,547	0,03	mmol/l	98%
Alkalinity	1,37	0,01	1,36	0,1	mmol/l	99%
Hydrogen carbonate	80,4	0,7	80,2	4	mg/l	100%
Calcium	16,3	0,2	16,0	1,3	mg/l	98%
Magnesium	3,73	0,05	3,59	0,5	mg/l	96%
Sodium	32,6	0,2	32,3	5	mg/l	99%
Potassium	2,93	0,02	2,96	0,4	mg/l	101%
Nitrate	16,6	0,3	16,6	1,2	mg/l	100%
Nitrite	0,0091	0,0002	<0,01		mg/l	•
Ammonium	<0,01		<0,013		mg/l	•
Chloride	11,5	0,1	11,3	0,8	mg/l	98%
Sulphate	28,9	0,2	29,1	2	mg/l	101%
Orthophosphate	0,160	0,002	0,161	0,02	mg/l	101%
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04	2,11	0,4	mg/l	98%
Total P (as PO ₄)	0,070	0,001	0,071	0,008	mg/l	101%
Silicon	2,99	0,07	2,99	0,3	mg/l	100%
Fluoride	1,51	0,01			mg/l	



Sample N146A

Laboratory BD

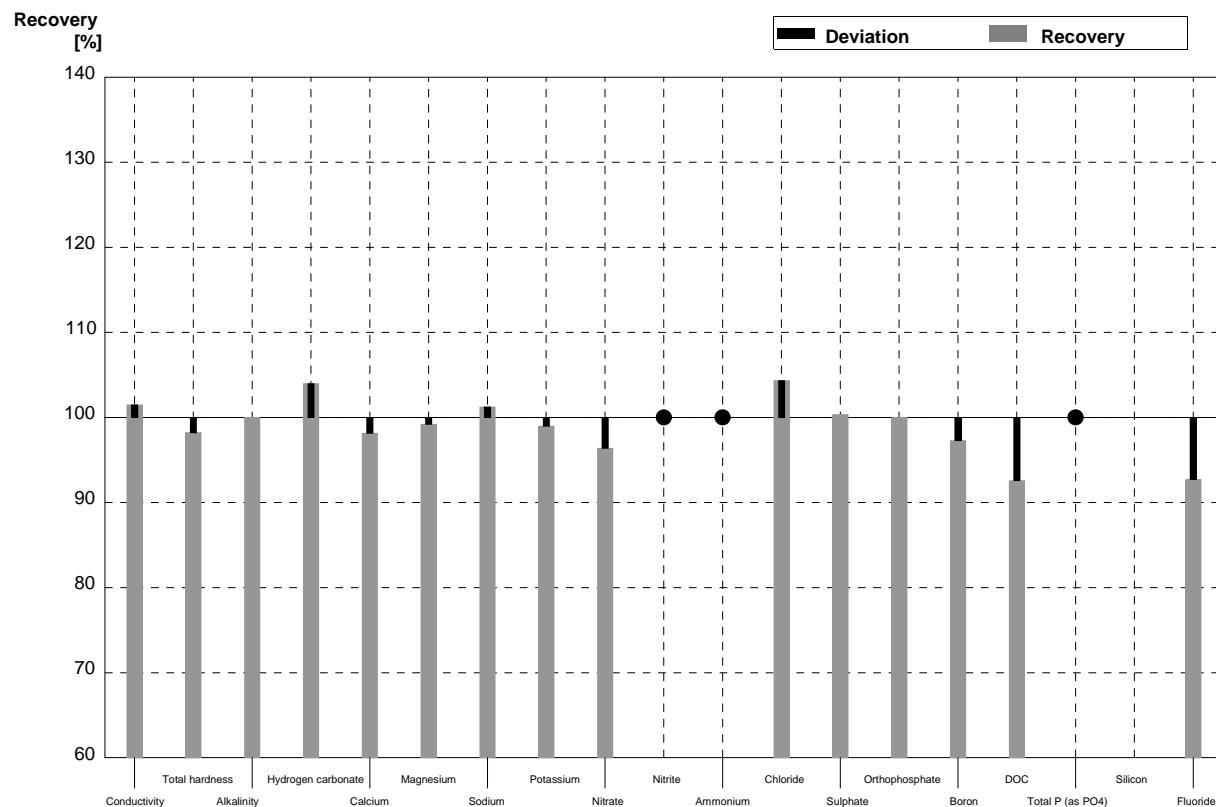
Parameter	Target value	$\pm U$ ($k=2$)	Result	\pm	Unit	Recovery
Conductivity	526	1	534		$\mu\text{S}/\text{cm}$	102%
Total hardness	1,90	0,02	1,89	0,15	mmol/l	99%
Alkalinity	1,46	0,02	1,46	0,12	mmol/l	100%
Hydrogen carbonate	86,3	1,4	89,2	7	mg/l	103%
Calcium	50,8	0,6	51	5,1	mg/l	100%
Magnesium	15,4	0,2	15	1,5	mg/l	97%
Sodium	25,2	0,3	25	2,5	mg/l	99%
Potassium	4,86	0,03	5,1	0,5	mg/l	105%
Nitrate	54,3	0,9	54	5,4	mg/l	99%
Nitrite	0,032	0,001	0,027	0,005	mg/l	84%
Ammonium	0,028	0,004	0,024	0,005	mg/l	86%
Chloride	43,3	0,6	44	4,4	mg/l	102%
Sulphate	70,5	0,4	71	7,1	mg/l	101%
Orthophosphate	<0,009		<0,02		mg/l	•
Boron	0,045	0,001	0,042	0,0034	mg/l	93%
DOC	1,18	0,04	1,040	0,218	mg/l	88%
Total P (as PO ₄)	<0,009		<0,15		mg/l	•
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004	0,76	0,08	mg/l	126%



Sample N146B

Laboratory BD

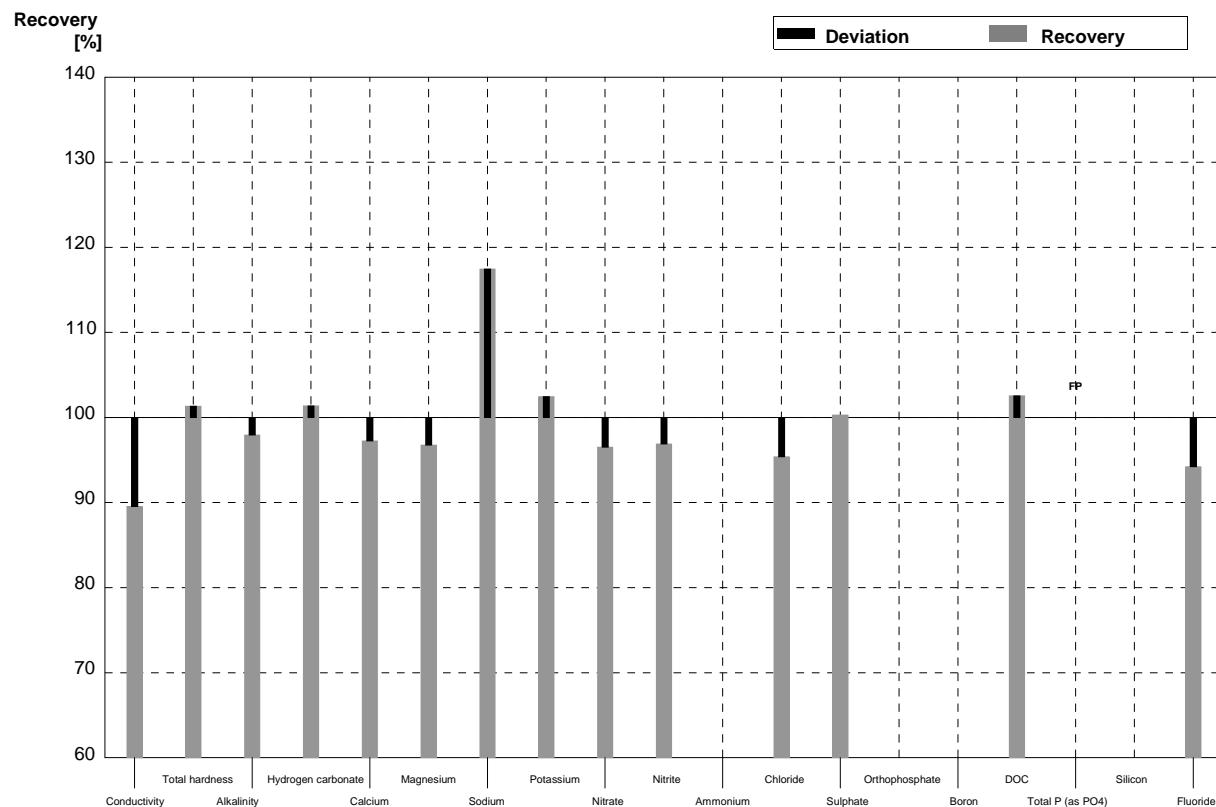
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1	274		µS/cm	101%
Total hardness	0,560	0,006	0,55	0,044	mmol/l	98%
Alkalinity	1,37	0,01	1,37	0,11	mmol/l	100%
Hydrogen carbonate	80,4	0,7	83,6	6,7	mg/l	104%
Calcium	16,3	0,2	16	1,6	mg/l	98%
Magnesium	3,73	0,05	3,7	0,37	mg/l	99%
Sodium	32,6	0,2	33	3,3	mg/l	101%
Potassium	2,93	0,02	2,9	0,29	mg/l	99%
Nitrate	16,6	0,3	16	1,6	mg/l	96%
Nitrite	0,0091	0,0002	<0,01		mg/l	•
Ammonium	<0,01		<0,01		mg/l	•
Chloride	11,5	0,1	12	1,2	mg/l	104%
Sulphate	28,9	0,2	29	2,9	mg/l	100%
Orthophosphate	0,160	0,002	0,16	0,032	mg/l	100%
Boron	0,185	0,001	0,18	0,0144	mg/l	97%
DOC	2,16	0,04	2,0	0,42	mg/l	93%
Total P (as PO4)	0,070	0,001	<0,15		mg/l	•
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01	1,4	0,14	mg/l	93%



Sample N146A

Laboratory BE

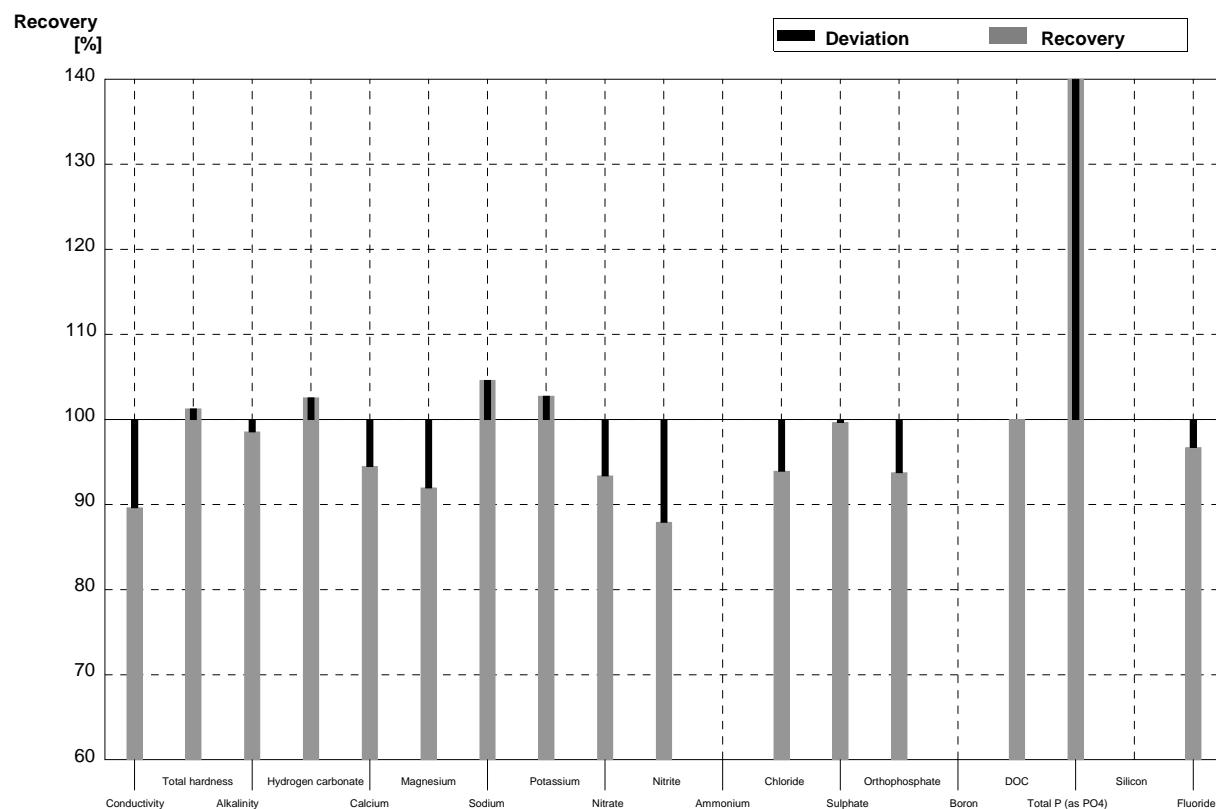
Parameter	Target value	$\pm U$ ($k=2$)	Result	\pm	Unit	Recovery
Conductivity	526	1	471		$\mu\text{S}/\text{cm}$	90%
Total hardness	1,90	0,02	1,925	0,17	mmol/l	101%
Alkalinity	1,46	0,02	1,43	0,13	mmol/l	98%
Hydrogen carbonate	86,3	1,4	87,48	7,9	mg/l	101%
Calcium	50,8	0,6	49,4	4,94	mg/l	97%
Magnesium	15,4	0,2	14,9	1,49	mg/l	97%
Sodium	25,2	0,3	29,6	2,96	mg/l	117%
Potassium	4,86	0,03	4,98	0,50	mg/l	102%
Nitrate	54,3	0,9	52,4	5,24	mg/l	97%
Nitrite	0,032	0,001	0,031	0,006	mg/l	97%
Ammonium	0,028	0,004	n,n		mg/l	
Chloride	43,3	0,6	41,3	4,13	mg/l	95%
Sulphate	70,5	0,4	70,7	10,6	mg/l	100%
Orthophosphate	<0,009		n,n		mg/l	
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04	1,21	0,24	mg/l	103%
Total P (as PO ₄)	<0,009		0,071	0,014	mg/l	FP
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004	0,570	0,086	mg/l	94%



Sample N146B

Laboratory BE

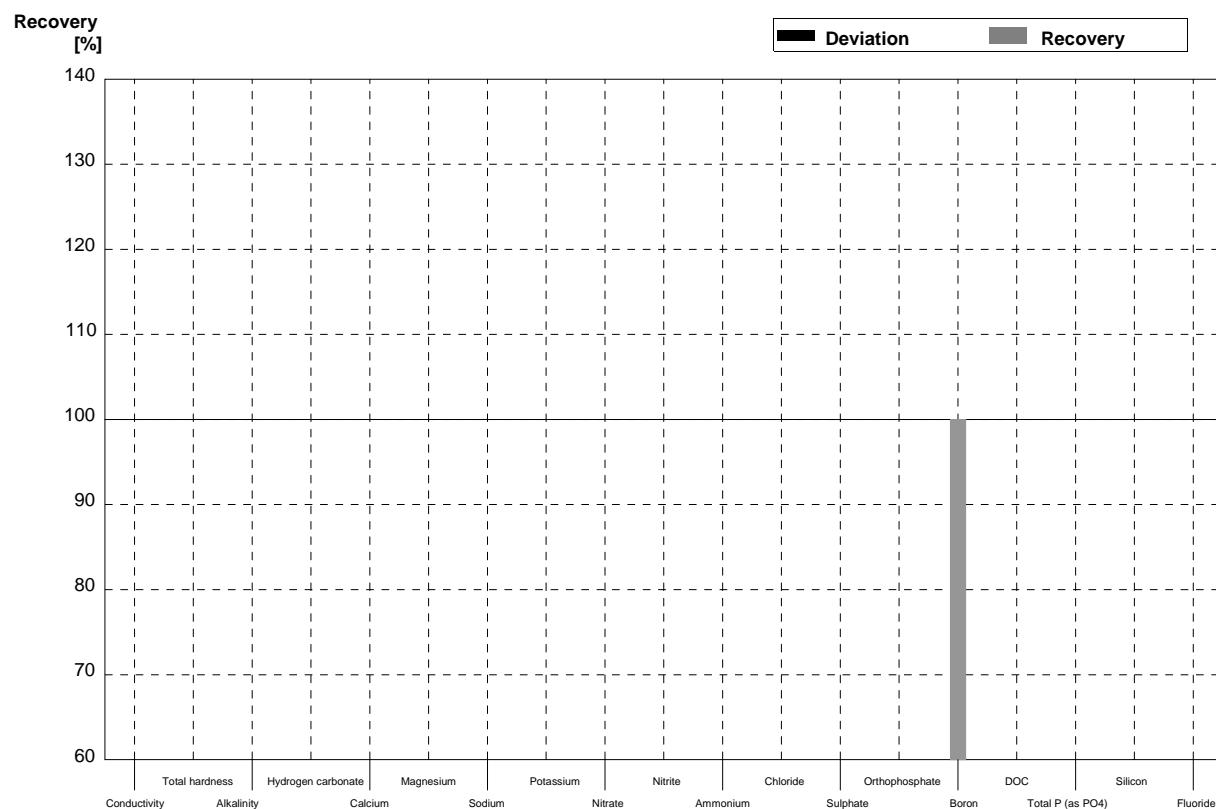
Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Conductivity	270	1	242		$\mu\text{S}/\text{cm}$	90%
Total hardness	0,560	0,006	0,567	0,05	mmol/l	101%
Alkalinity	1,37	0,01	1,35	0,12	mmol/l	99%
Hydrogen carbonate	80,4	0,7	82,44	7,4	mg/l	103%
Calcium	16,3	0,2	15,4	1,54	mg/l	94%
Magnesium	3,73	0,05	3,43	0,34	mg/l	92%
Sodium	32,6	0,2	34,1	3,41	mg/l	105%
Potassium	2,93	0,02	3,01	0,30	mg/l	103%
Nitrate	16,6	0,3	15,5	1,55	mg/l	93%
Nitrite	0,0091	0,0002	0,008	0,006	mg/l	88%
Ammonium	<0,01		n,n		mg/l	
Chloride	11,5	0,1	10,8	1,08	mg/l	94%
Sulphate	28,9	0,2	28,8	4,32	mg/l	100%
Orthophosphate	0,160	0,002	0,15	0,04	mg/l	94%
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04	2,16	0,44	mg/l	100%
Total P (as PO ₄)	0,070	0,001	0,236	0,047	mg/l	337%
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01	1,46	0,22	mg/l	97%



Sample N146A

Laboratory BF

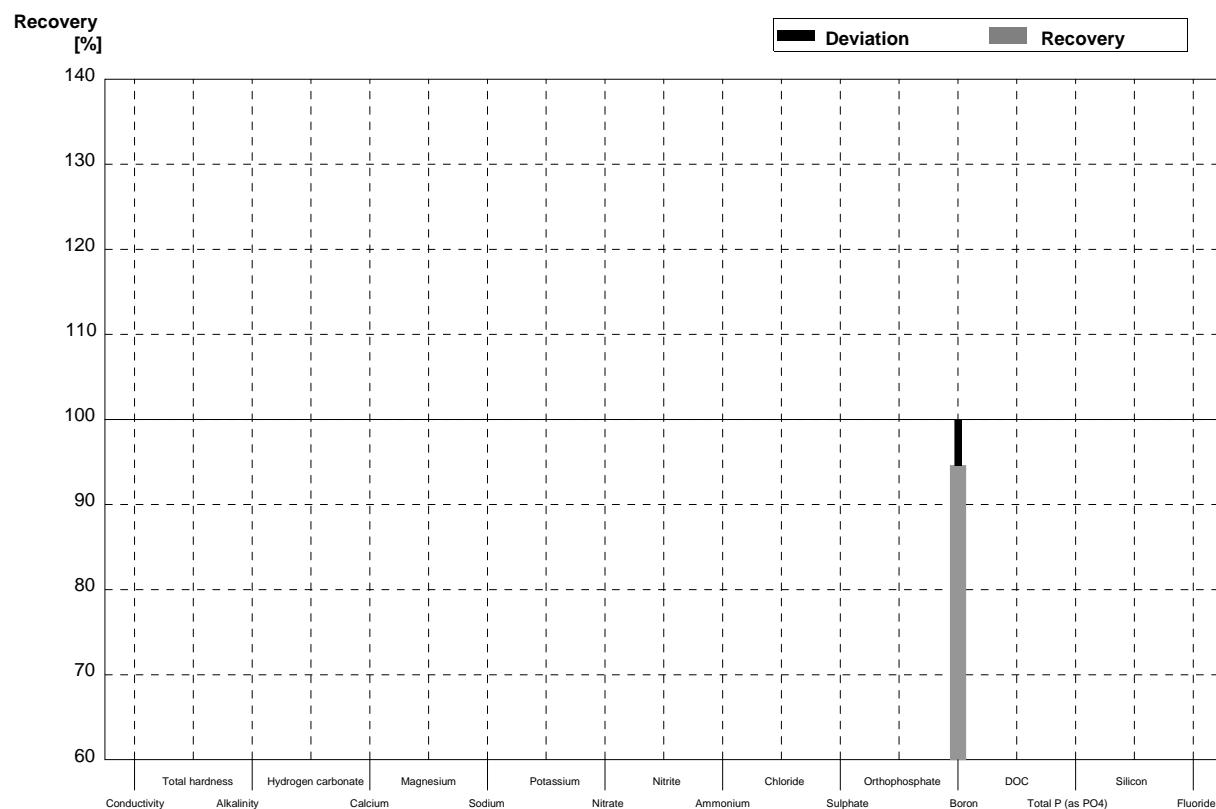
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	526	1			µS/cm	
Total hardness	1,90	0,02			mmol/l	
Alkalinity	1,46	0,02			mmol/l	
Hydrogen carbonate	86,3	1,4			mg/l	
Calcium	50,8	0,6			mg/l	
Magnesium	15,4	0,2			mg/l	
Sodium	25,2	0,3			mg/l	
Potassium	4,86	0,03			mg/l	
Nitrate	54,3	0,9			mg/l	
Nitrite	0,032	0,001			mg/l	
Ammonium	0,028	0,004			mg/l	
Chloride	43,3	0,6			mg/l	
Sulphate	70,5	0,4			mg/l	
Orthophosphate	<0,009				mg/l	
Boron	0,045	0,001	0,045		mg/l	100%
DOC	1,18	0,04			mg/l	
Total P (as PO ₄)	<0,009				mg/l	
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004			mg/l	



Sample N146B

Laboratory BF

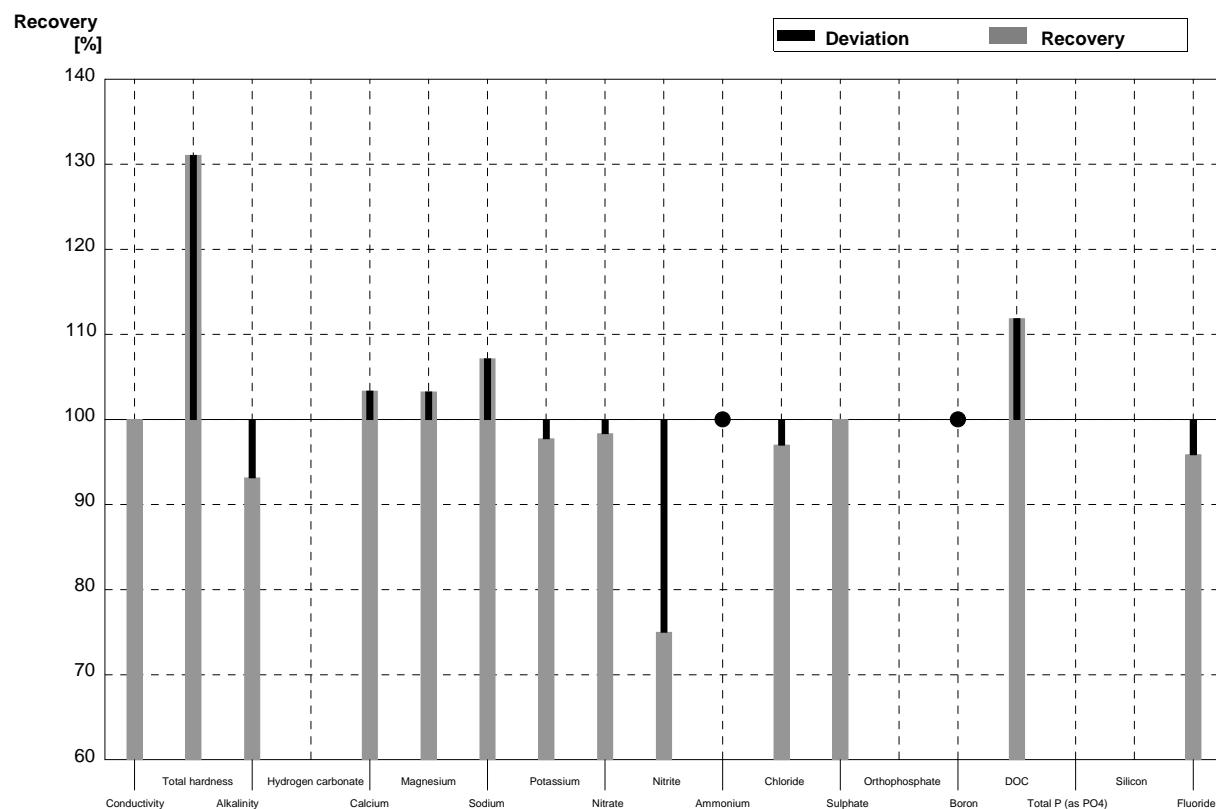
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1			µS/cm	
Total hardness	0,560	0,006			mmol/l	
Alkalinity	1,37	0,01			mmol/l	
Hydrogen carbonate	80,4	0,7			mg/l	
Calcium	16,3	0,2			mg/l	
Magnesium	3,73	0,05			mg/l	
Sodium	32,6	0,2			mg/l	
Potassium	2,93	0,02			mg/l	
Nitrate	16,6	0,3			mg/l	
Nitrite	0,0091	0,0002			mg/l	
Ammonium	<0,01				mg/l	
Chloride	11,5	0,1			mg/l	
Sulphate	28,9	0,2			mg/l	
Orthophosphate	0,160	0,002			mg/l	
Boron	0,185	0,001	0,175		mg/l	95%
DOC	2,16	0,04			mg/l	
Total P (as PO ₄)	0,070	0,001			mg/l	
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01			mg/l	



Sample N146A

Laboratory BG

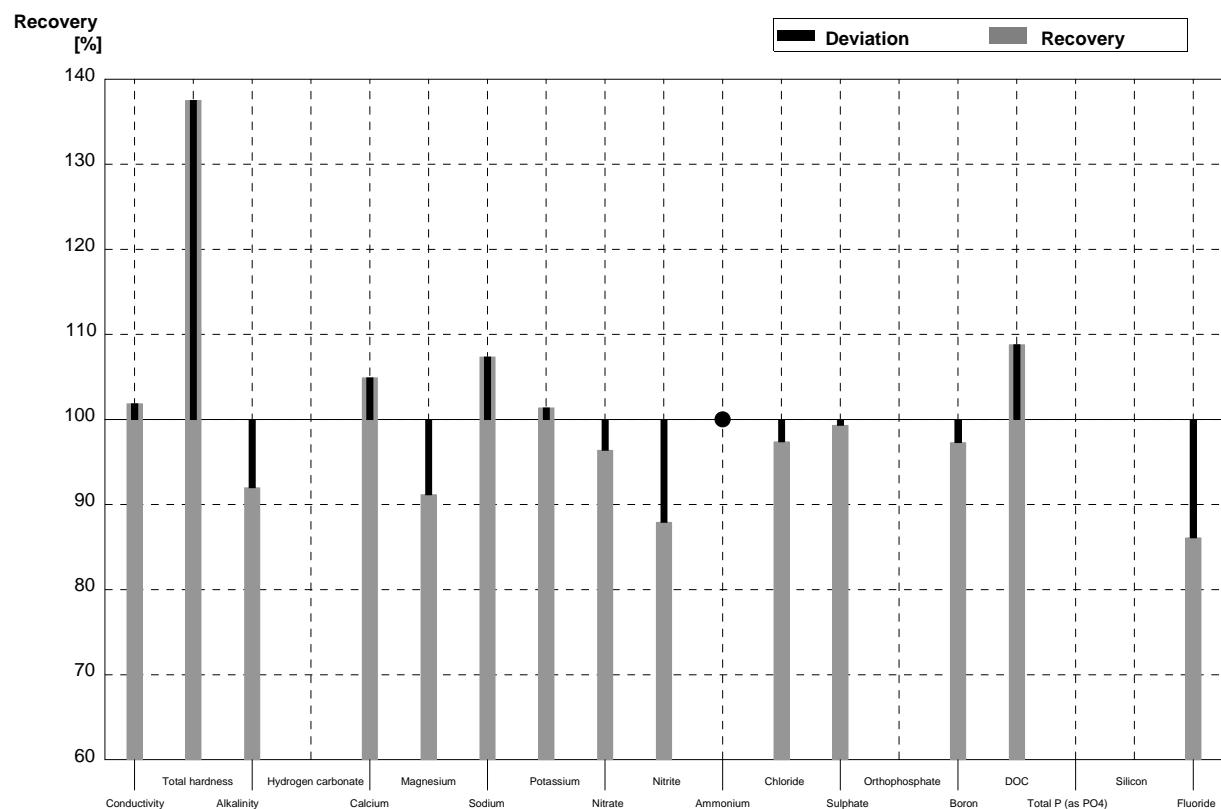
Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Conductivity	526	1	526	30	$\mu\text{S}/\text{cm}$	100%
Total hardness	1,90	0,02	2,49	0,05	mmol/l	131%
Alkalinity	1,46	0,02	1,36	0,02	mmol/l	93%
Hydrogen carbonate	86,3	1,4			mg/l	
Calcium	50,8	0,6	52,5	0,6	mg/l	103%
Magnesium	15,4	0,2	15,9	0,6	mg/l	103%
Sodium	25,2	0,3	27,0	0,3	mg/l	107%
Potassium	4,86	0,03	4,75	0,06	mg/l	98%
Nitrate	54,3	0,9	53,4	0,5	mg/l	98%
Nitrite	0,032	0,001	0,024	0,015	mg/l	75%
Ammonium	0,028	0,004	<0,03	0,08	mg/l	•
Chloride	43,3	0,6	42,0	0,25	mg/l	97%
Sulphate	70,5	0,4	70,5	3,0	mg/l	100%
Orthophosphate	<0,009				mg/l	
Boron	0,045	0,001	<0,05	0,07	mg/l	•
DOC	1,18	0,04	1,32	0,03	mg/l	112%
Total P (as PO ₄)	<0,009				mg/l	
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004	0,58	0,08	mg/l	96%



Sample N146B

Laboratory BG

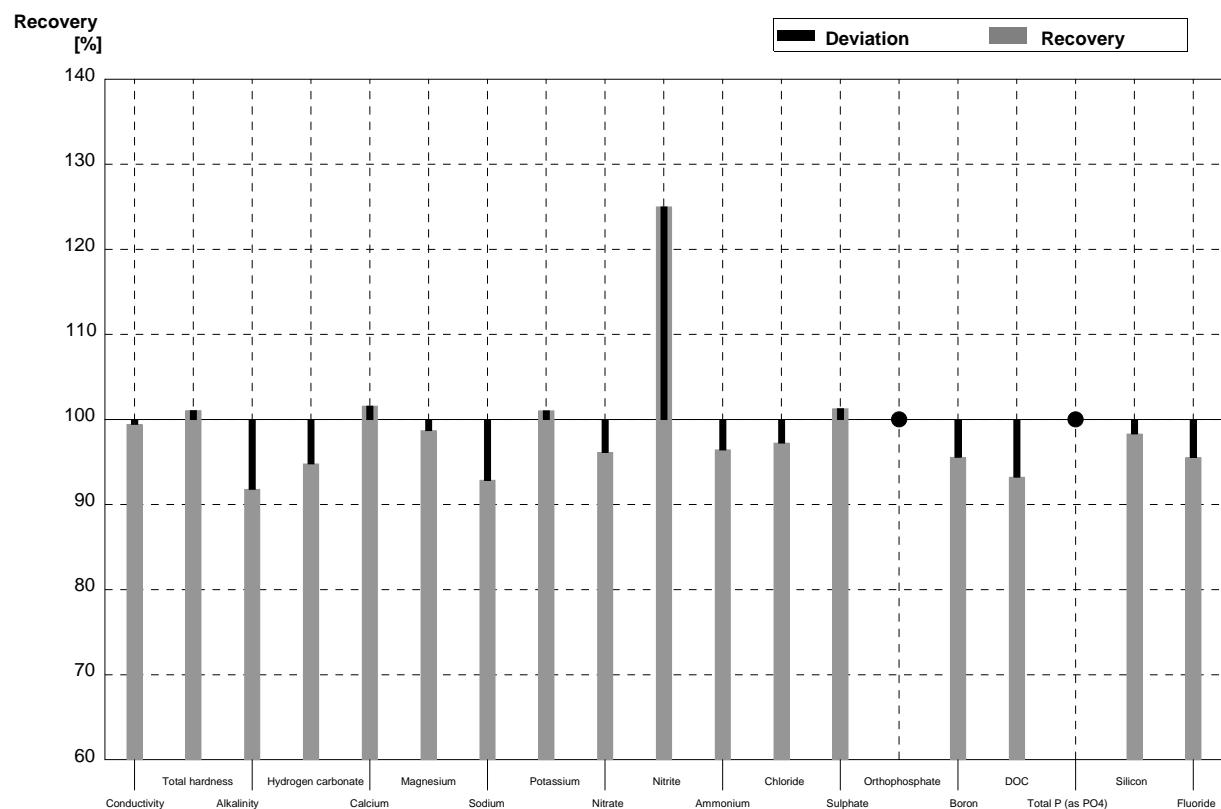
Parameter	Target value	$\pm U$ (k=2)	Result	\pm	Unit	Recovery
Conductivity	270	1	275	30	$\mu\text{S}/\text{cm}$	102%
Total hardness	0,560	0,006	0,77	0,05	mmol/l	138%
Alkalinity	1,37	0,01	1,26	0,02	mmol/l	92%
Hydrogen carbonate	80,4	0,7			mg/l	
Calcium	16,3	0,2	17,1	0,6	mg/l	105%
Magnesium	3,73	0,05	3,4	0,6	mg/l	91%
Sodium	32,6	0,2	35,0	0,3	mg/l	107%
Potassium	2,93	0,02	2,97	0,06	mg/l	101%
Nitrate	16,6	0,3	16,0	0,5	mg/l	96%
Nitrite	0,0091	0,0002	0,008	0,015	mg/l	88%
Ammonium	<0,01		<0,03	0,08	mg/l	•
Chloride	11,5	0,1	11,2	0,25	mg/l	97%
Sulphate	28,9	0,2	28,7	3,0	mg/l	99%
Orthophosphate	0,160	0,002			mg/l	
Boron	0,185	0,001	0,18	0,07	mg/l	97%
DOC	2,16	0,04	2,35	0,03	mg/l	109%
Total P (as PO ₄)	0,070	0,001			mg/l	
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01	1,30	0,08	mg/l	86%



Sample N146A

Laboratory BH

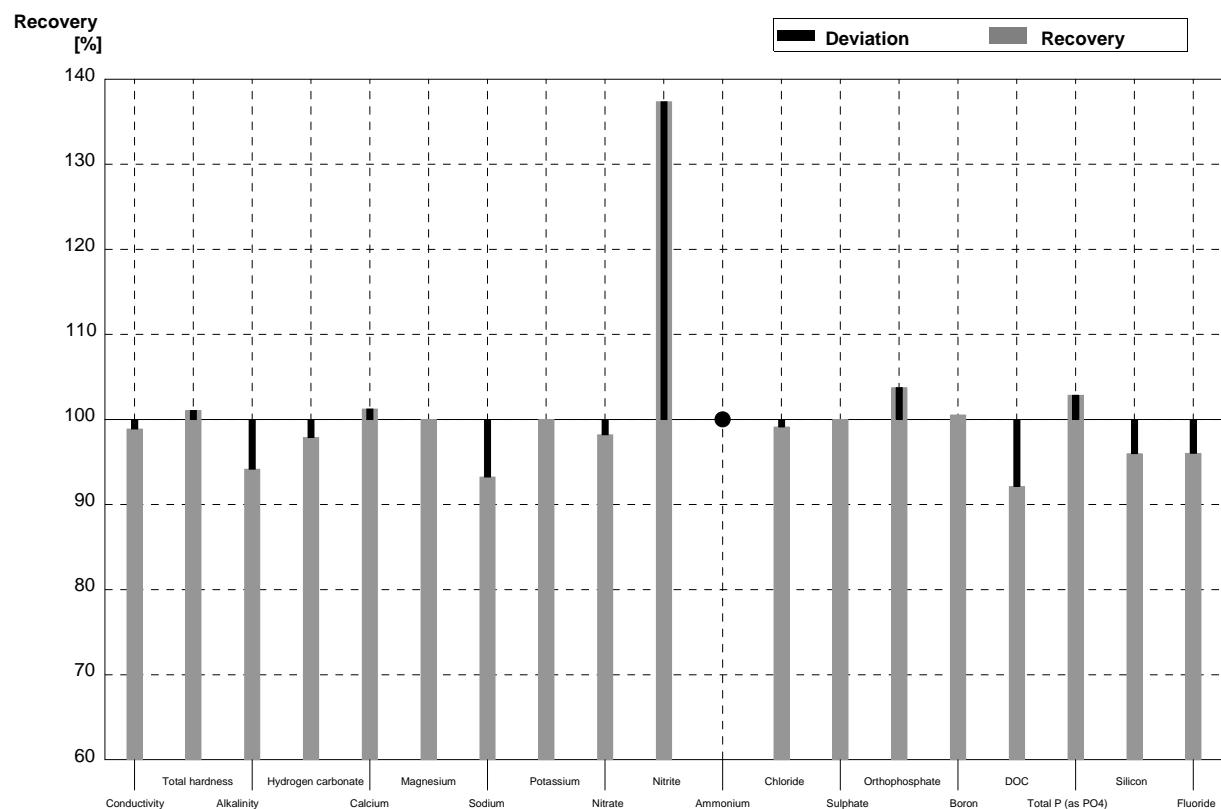
Parameter	Target value	$\pm U$ ($k=2$)	Result	\pm	Unit	Recovery
Conductivity	526	1	523	16	$\mu\text{S}/\text{cm}$	99%
Total hardness	1,90	0,02	1,92	0,16	mmol/l	101%
Alkalinity	1,46	0,02	1,34	0,07	mmol/l	92%
Hydrogen carbonate	86,3	1,4	81,8	3,9	mg/l	95%
Calcium	50,8	0,6	51,6	2,4	mg/l	102%
Magnesium	15,4	0,2	15,2	1,3	mg/l	99%
Sodium	25,2	0,3	23,4	1,7	mg/l	93%
Potassium	4,86	0,03	4,91	0,35	mg/l	101%
Nitrate	54,3	0,9	52,2	5,2	mg/l	96%
Nitrite	0,032	0,001	0,040	0,004	mg/l	125%
Ammonium	0,028	0,004	0,027	0,002	mg/l	96%
Chloride	43,3	0,6	42,1	2,8	mg/l	97%
Sulphate	70,5	0,4	71,4	3,6	mg/l	101%
Orthophosphate	<0,009		<0,015		mg/l	•
Boron	0,045	0,001	0,043	0,005	mg/l	96%
DOC	1,18	0,04	1,10	0,18	mg/l	93%
Total P (as PO ₄)	<0,009		<0,015		mg/l	•
Silicon	1,00	0,02	0,983	0,087	mg/l	98%
Fluoride	0,605	0,004	0,578	0,058	mg/l	96%



Sample N146B

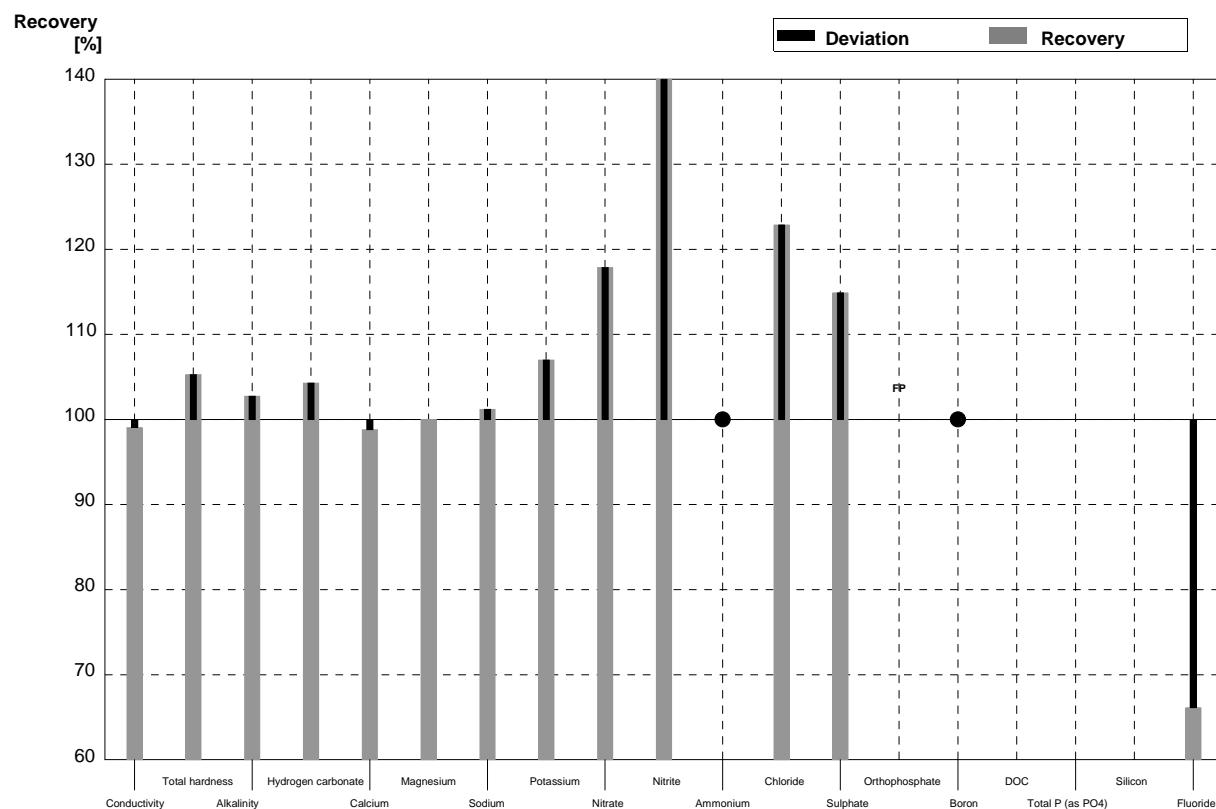
Laboratory BH

Parameter	Target value	$\pm U$ (k=2)	Result	\pm	Unit	Recovery
Conductivity	270	1	267	8	$\mu\text{S}/\text{cm}$	99%
Total hardness	0,560	0,006	0,566	0,047	mmol/l	101%
Alkalinity	1,37	0,01	1,29	0,06	mmol/l	94%
Hydrogen carbonate	80,4	0,7	78,7	3,8	mg/l	98%
Calcium	16,3	0,2	16,5	0,8	mg/l	101%
Magnesium	3,73	0,05	3,73	0,31	mg/l	100%
Sodium	32,6	0,2	30,4	2,1	mg/l	93%
Potassium	2,93	0,02	2,93	0,21	mg/l	100%
Nitrate	16,6	0,3	16,3	1,6	mg/l	98%
Nitrite	0,0091	0,0002	0,0125	0,002	mg/l	137%
Ammonium	<0,01		<0,01		mg/l	•
Chloride	11,5	0,1	11,4	0,8	mg/l	99%
Sulphate	28,9	0,2	28,9	1,4	mg/l	100%
Orthophosphate	0,160	0,002	0,166	0,017	mg/l	104%
Boron	0,185	0,001	0,186	0,023	mg/l	101%
DOC	2,16	0,04	1,99	0,32	mg/l	92%
Total P (as PO ₄)	0,070	0,001	0,072	0,007	mg/l	103%
Silicon	2,99	0,07	2,87	0,26	mg/l	96%
Fluoride	1,51	0,01	1,45	0,15	mg/l	96%



Sample N146A**Laboratory BI**

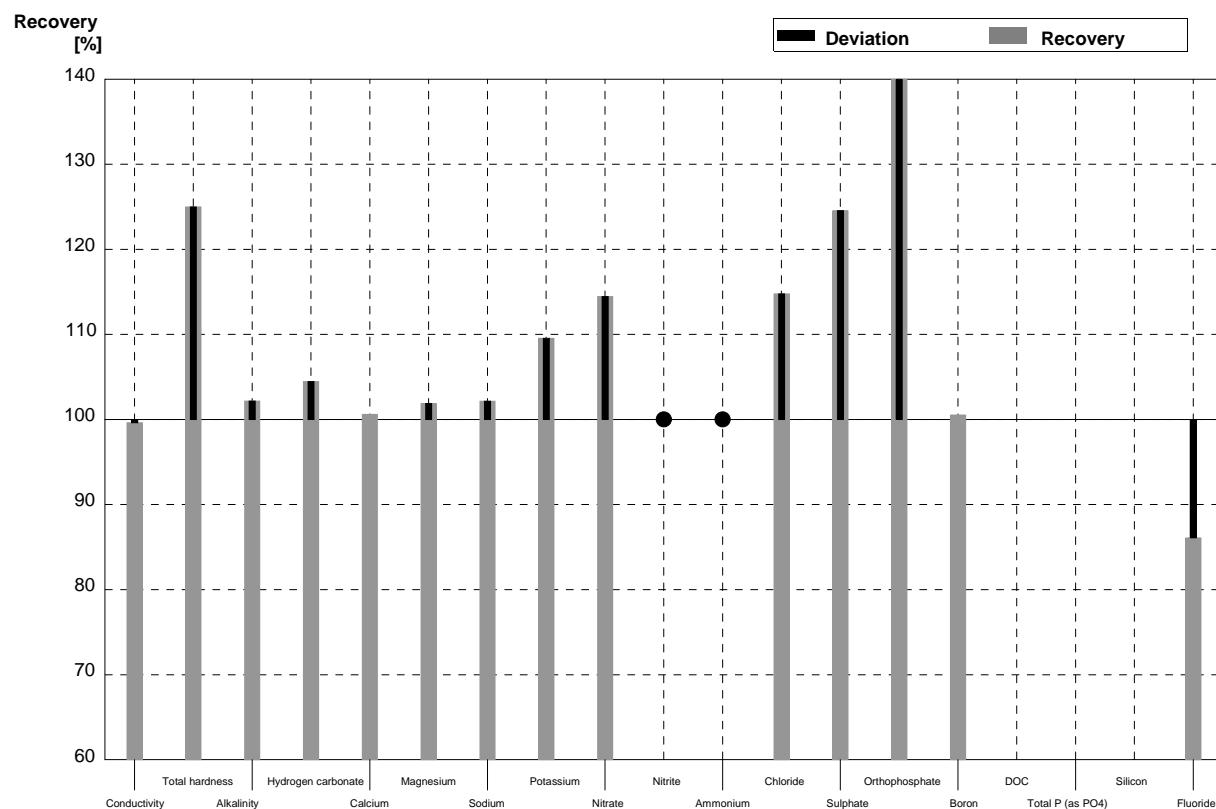
Parameter	Target value	$\pm U$ ($k=2$)	Result	\pm	Unit	Recovery
Conductivity	526	1	521	52	$\mu\text{S}/\text{cm}$	99%
Total hardness	1,90	0,02	2,0	0,2	mmol/l	105%
Alkalinity	1,46	0,02	1,5	0,2	mmol/l	103%
Hydrogen carbonate	86,3	1,4	90	9	mg/l	104%
Calcium	50,8	0,6	50,2	5	mg/l	99%
Magnesium	15,4	0,2	15,4	1,5	mg/l	100%
Sodium	25,2	0,3	25,5	2,5	mg/l	101%
Potassium	4,86	0,03	5,20	0,52	mg/l	107%
Nitrate	54,3	0,9	64	6,4	mg/l	118%
Nitrite	0,032	0,001	0,11	0,01	mg/l	344%
Ammonium	0,028	0,004	<0,05		mg/l	•
Chloride	43,3	0,6	53,2	5,3	mg/l	123%
Sulphate	70,5	0,4	81	8,1	mg/l	115%
Orthophosphate	<0,009		2	0,2	mg/l	FP
Boron	0,045	0,001	<0,1		mg/l	•
DOC	1,18	0,04			mg/l	
Total P (as PO ₄)	<0,009				mg/l	
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004	0,4	0,04	mg/l	66%



Sample N146B

Laboratory BI

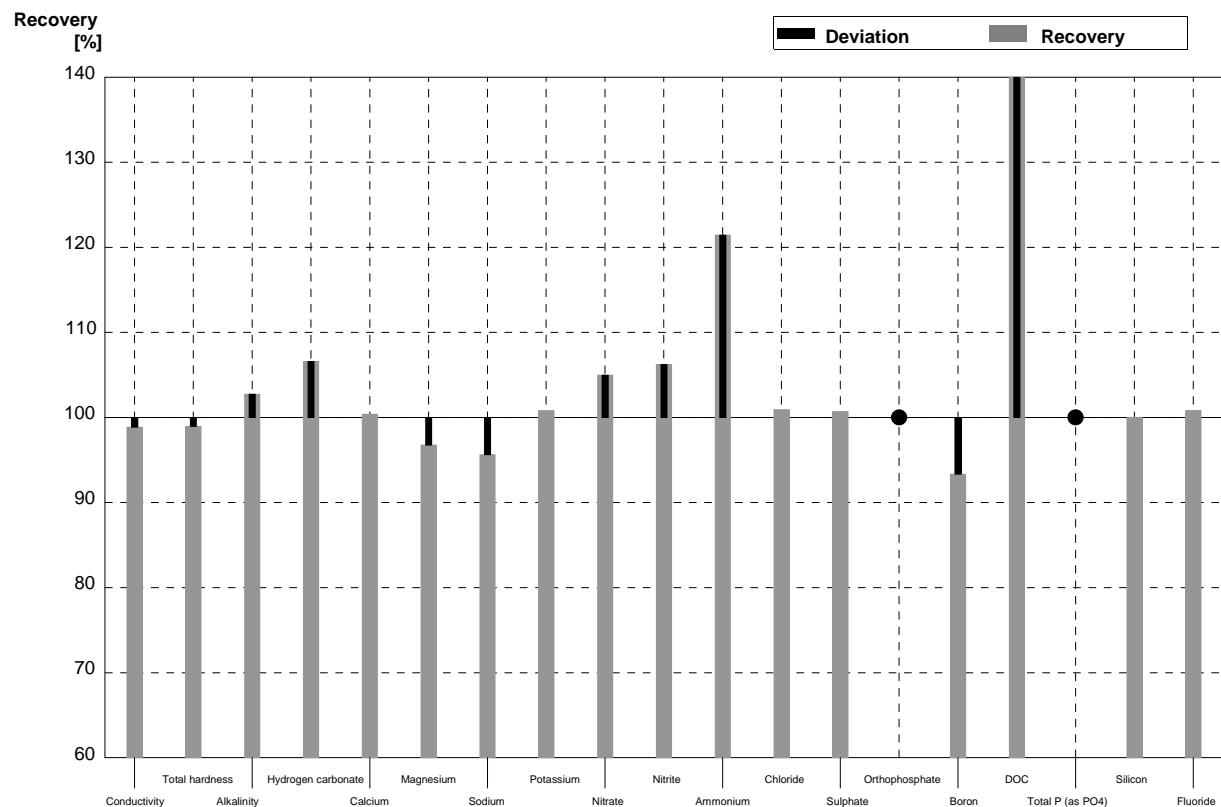
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1	269	27	µS/cm	100%
Total hardness	0,560	0,006	0,7	0,07	mmol/l	125%
Alkalinity	1,37	0,01	1,4	0,1	mmol/l	102%
Hydrogen carbonate	80,4	0,7	84	8	mg/l	104%
Calcium	16,3	0,2	16,4	1,6	mg/l	101%
Magnesium	3,73	0,05	3,8	0,4	mg/l	102%
Sodium	32,6	0,2	33,3	3,3	mg/l	102%
Potassium	2,93	0,02	3,21	0,32	mg/l	110%
Nitrate	16,6	0,3	19	1,9	mg/l	114%
Nitrite	0,0091	0,0002	<0,05		mg/l	•
Ammonium	<0,01		<0,05		mg/l	•
Chloride	11,5	0,1	13,2	1,3	mg/l	115%
Sulphate	28,9	0,2	36	3,6	mg/l	125%
Orthophosphate	0,160	0,002	4	0,4	mg/l	2500%
Boron	0,185	0,001	0,186	0,02	mg/l	101%
DOC	2,16	0,04			mg/l	
Total P (as PO4)	0,070	0,001			mg/l	
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01	1,3	0,13	mg/l	86%



Sample N146A

Laboratory BJ

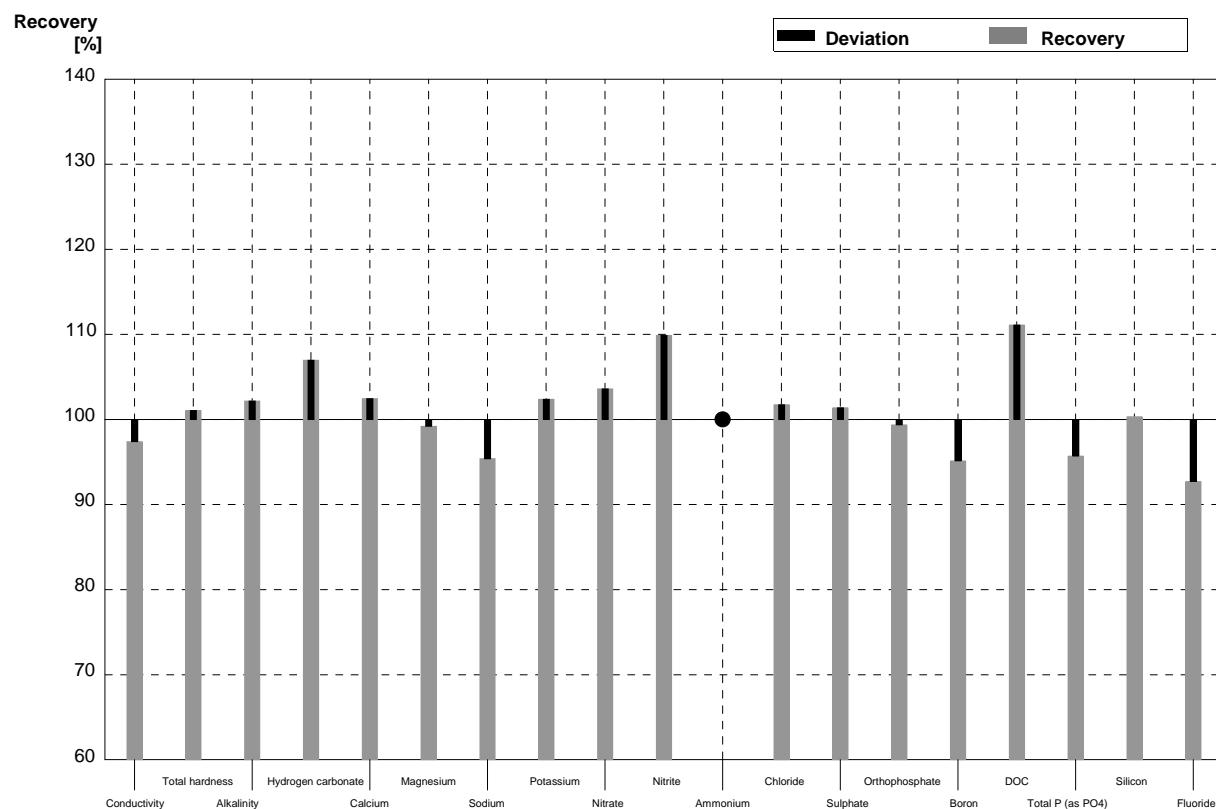
Parameter	Target value	$\pm U$ ($k=2$)	Result	\pm	Unit	Recovery
Conductivity	526	1	520	52	$\mu\text{S}/\text{cm}$	99%
Total hardness	1,90	0,02	1,88	0,19	mmol/l	99%
Alkalinity	1,46	0,02	1,5	0,15	mmol/l	103%
Hydrogen carbonate	86,3	1,4	92	9,2	mg/l	107%
Calcium	50,8	0,6	51	5,1	mg/l	100%
Magnesium	15,4	0,2	14,9	1,5	mg/l	97%
Sodium	25,2	0,3	24,1	2,4	mg/l	96%
Potassium	4,86	0,03	4,9	0,49	mg/l	101%
Nitrate	54,3	0,9	57	5,7	mg/l	105%
Nitrite	0,032	0,001	0,034	0,003	mg/l	106%
Ammonium	0,028	0,004	0,034	0,003	mg/l	121%
Chloride	43,3	0,6	43,7	4,4	mg/l	101%
Sulphate	70,5	0,4	71	7,1	mg/l	101%
Orthophosphate	<0,009		<0,008		mg/l	•
Boron	0,045	0,001	0,042	0,004	mg/l	93%
DOC	1,18	0,04	1,7	0,17	mg/l	144%
Total P (as PO ₄)	<0,009		<0,015		mg/l	•
Silicon	1,00	0,02	1,0	0,1	mg/l	100%
Fluoride	0,605	0,004	0,61	0,06	mg/l	101%



Sample N146B

Laboratory BJ

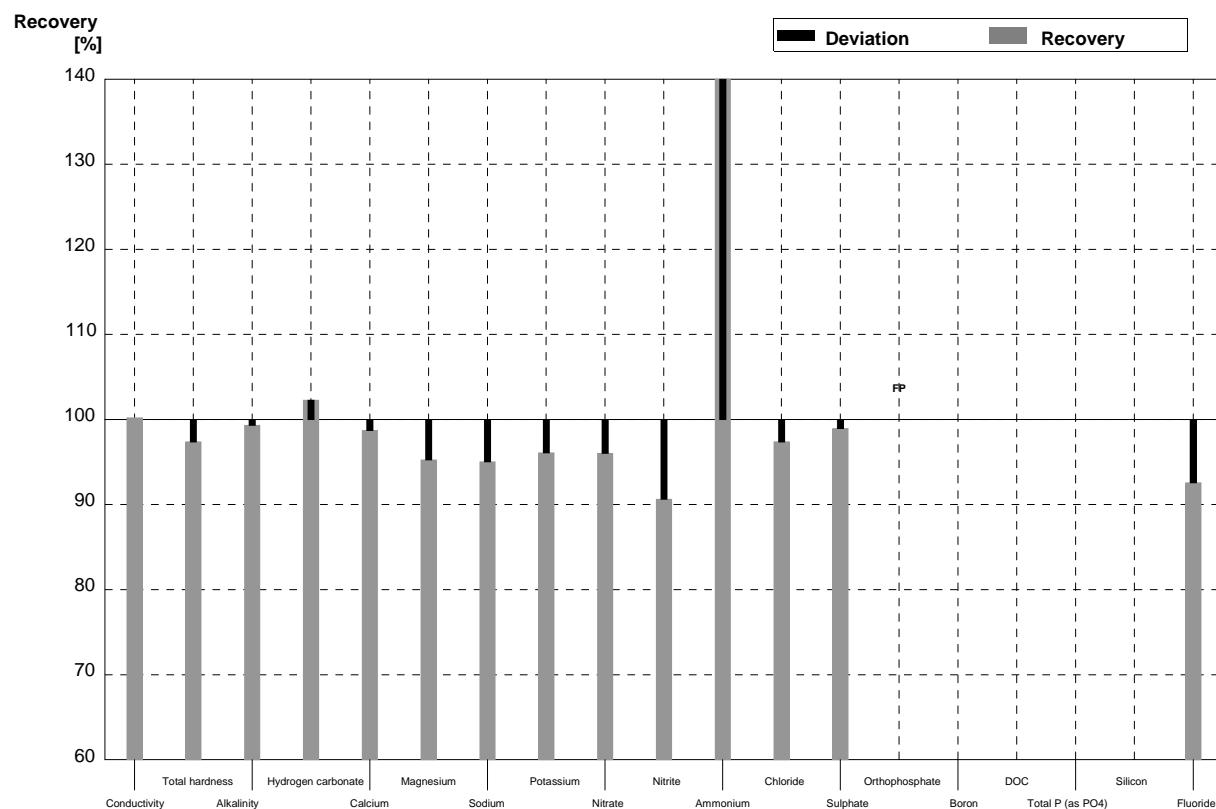
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1	263	26,3	µS/cm	97%
Total hardness	0,560	0,006	0,566	0,057	mmol/l	101%
Alkalinity	1,37	0,01	1,4	0,14	mmol/l	102%
Hydrogen carbonate	80,4	0,7	86	8,6	mg/l	107%
Calcium	16,3	0,2	16,7	1,7	mg/l	102%
Magnesium	3,73	0,05	3,7	0,37	mg/l	99%
Sodium	32,6	0,2	31,1	3,1	mg/l	95%
Potassium	2,93	0,02	3,0	0,3	mg/l	102%
Nitrate	16,6	0,3	17,2	1,7	mg/l	104%
Nitrite	0,0091	0,0002	0,010	0,001	mg/l	110%
Ammonium	<0,01		<0,01		mg/l	•
Chloride	11,5	0,1	11,7	1,2	mg/l	102%
Sulphate	28,9	0,2	29,3	2,9	mg/l	101%
Orthophosphate	0,160	0,002	0,159	0,016	mg/l	99%
Boron	0,185	0,001	0,176	0,018	mg/l	95%
DOC	2,16	0,04	2,4	0,24	mg/l	111%
Total P (as PO4)	0,070	0,001	0,067	0,007	mg/l	96%
Silicon	2,99	0,07	3,0	0,3	mg/l	100%
Fluoride	1,51	0,01	1,4	0,14	mg/l	93%



Sample N146A

Laboratory BK

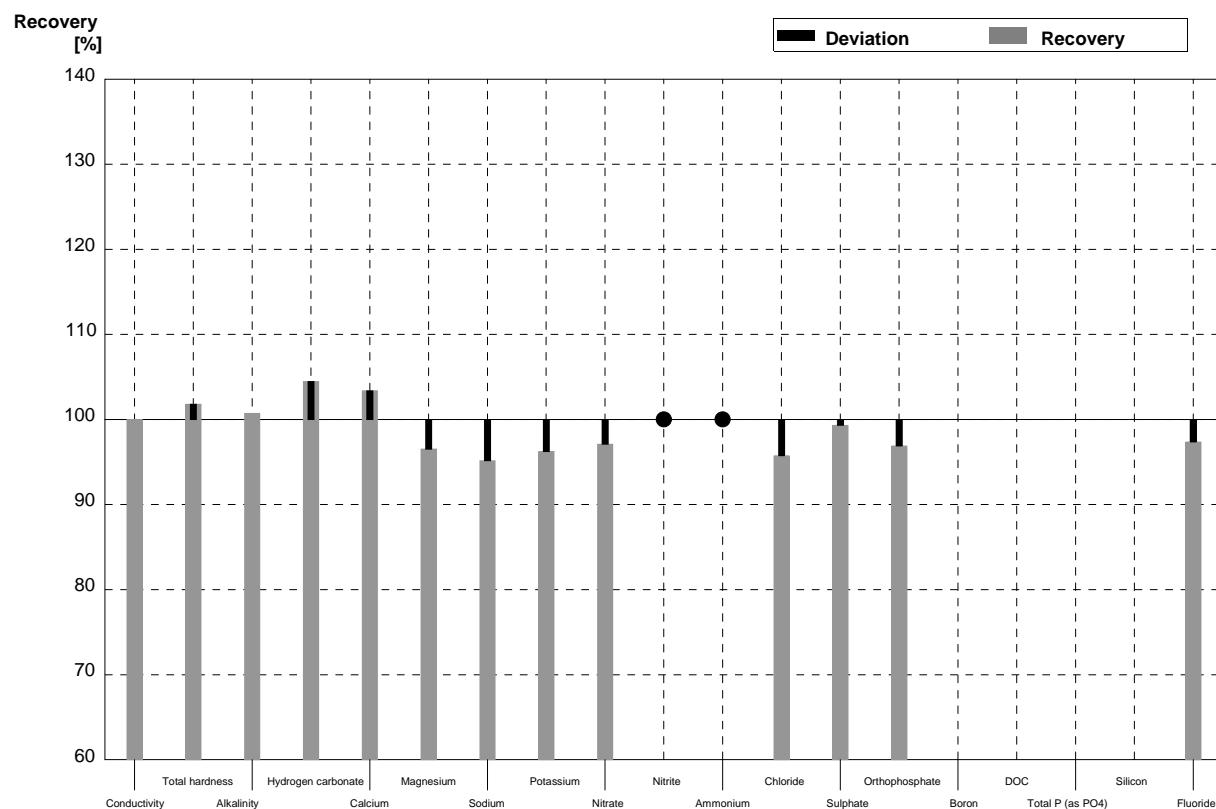
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	526	1	527,0		µS/cm	100%
Total hardness	1,90	0,02	1,85		mmol/l	97%
Alkalinity	1,46	0,02	1,45		mmol/l	99%
Hydrogen carbonate	86,3	1,4	88,25		mg/l	102%
Calcium	50,8	0,6	50,15		mg/l	99%
Magnesium	15,4	0,2	14,67		mg/l	95%
Sodium	25,2	0,3	23,95		mg/l	95%
Potassium	4,86	0,03	4,67		mg/l	96%
Nitrate	54,3	0,9	52,14		mg/l	96%
Nitrite	0,032	0,001	0,029		mg/l	91%
Ammonium	0,028	0,004	0,04		mg/l	143%
Chloride	43,3	0,6	42,16		mg/l	97%
Sulphate	70,5	0,4	69,75		mg/l	99%
Orthophosphate	<0,009		0,029		mg/l	FP
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04			mg/l	
Total P (as PO4)	<0,009				mg/l	
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004	0,56		mg/l	93%



Sample N146B

Laboratory BK

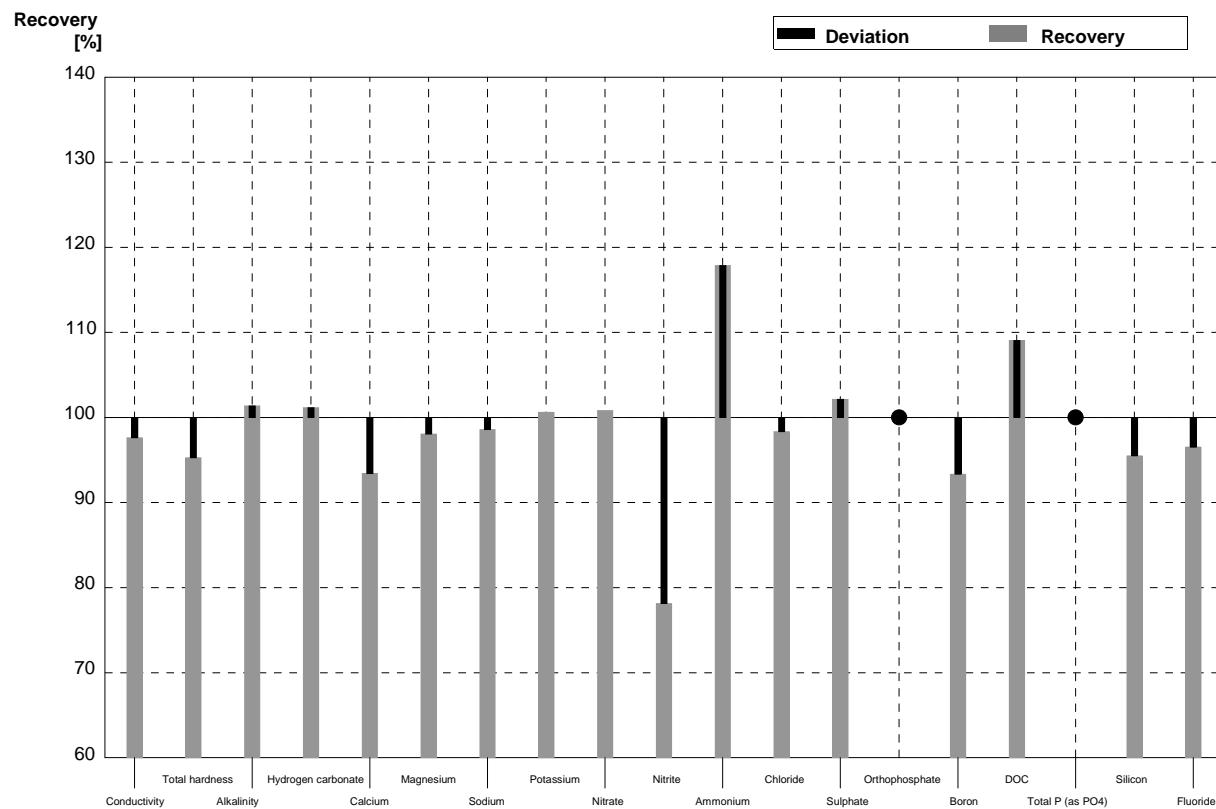
Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1	270,0		µS/cm	100%
Total hardness	0,560	0,006	0,57		mmol/l	102%
Alkalinity	1,37	0,01	1,38		mmol/l	101%
Hydrogen carbonate	80,4	0,7	83,99		mg/l	104%
Calcium	16,3	0,2	16,85		mg/l	103%
Magnesium	3,73	0,05	3,60		mg/l	97%
Sodium	32,6	0,2	31,02		mg/l	95%
Potassium	2,93	0,02	2,82		mg/l	96%
Nitrate	16,6	0,3	16,12		mg/l	97%
Nitrite	0,0091	0,0002	<0,02		mg/l	•
Ammonium	<0,01		<0,02		mg/l	•
Chloride	11,5	0,1	11,01		mg/l	96%
Sulphate	28,9	0,2	28,7		mg/l	99%
Orthophosphate	0,160	0,002	0,155		mg/l	97%
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04			mg/l	
Total P (as PO4)	0,070	0,001			mg/l	
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01	1,47		mg/l	97%



Sample N146A

Laboratory BL

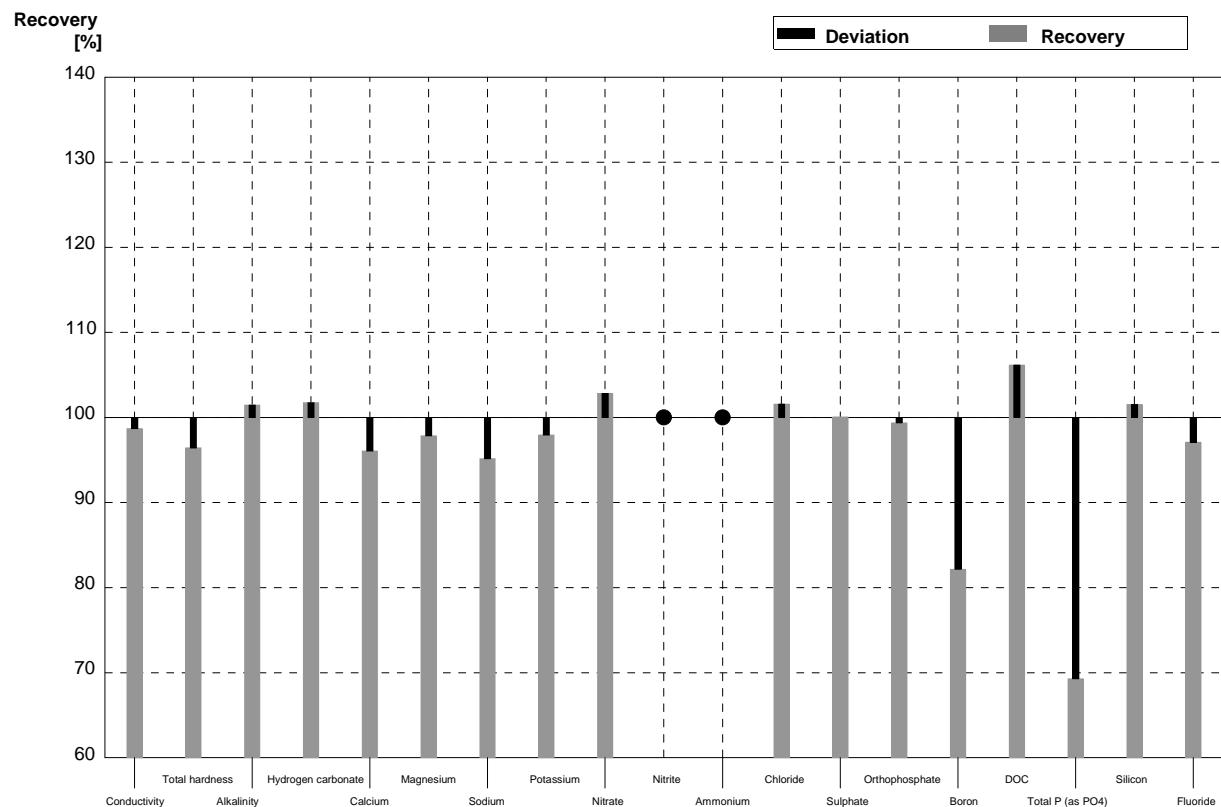
Parameter	Target value	$\pm U$ ($k=2$)	Result	\pm	Unit	Recovery
Conductivity	526	1	513,5	5,032	$\mu\text{S}/\text{cm}$	98%
Total hardness	1,90	0,02	1,81	0,18	mmol/l	95%
Alkalinity	1,46	0,02	1,48	0,084	mmol/l	101%
Hydrogen carbonate	86,3	1,4	87,3	8,7	mg/l	101%
Calcium	50,8	0,6	47,46	3,132	mg/l	93%
Magnesium	15,4	0,2	15,1	0,513	mg/l	98%
Sodium	25,2	0,3	24,84	2,062	mg/l	99%
Potassium	4,86	0,03	4,89	0,462	mg/l	101%
Nitrate	54,3	0,9	54,74	3,482	mg/l	101%
Nitrite	0,032	0,001	0,025	0,004	mg/l	78%
Ammonium	0,028	0,004	0,033	0,004	mg/l	118%
Chloride	43,3	0,6	42,58	5,13	mg/l	98%
Sulphate	70,5	0,4	72,00	7,949	mg/l	102%
Orthophosphate	<0,009		0,006	0,001	mg/l	•
Boron	0,045	0,001	0,042	0,006	mg/l	93%
DOC	1,18	0,04	1,287	0,158	mg/l	109%
Total P (as PO ₄)	<0,009		<0,010		mg/l	•
Silicon	1,00	0,02	0,955	0,270	mg/l	96%
Fluoride	0,605	0,004	0,584	0,120	mg/l	97%



Sample N146B

Laboratory BL

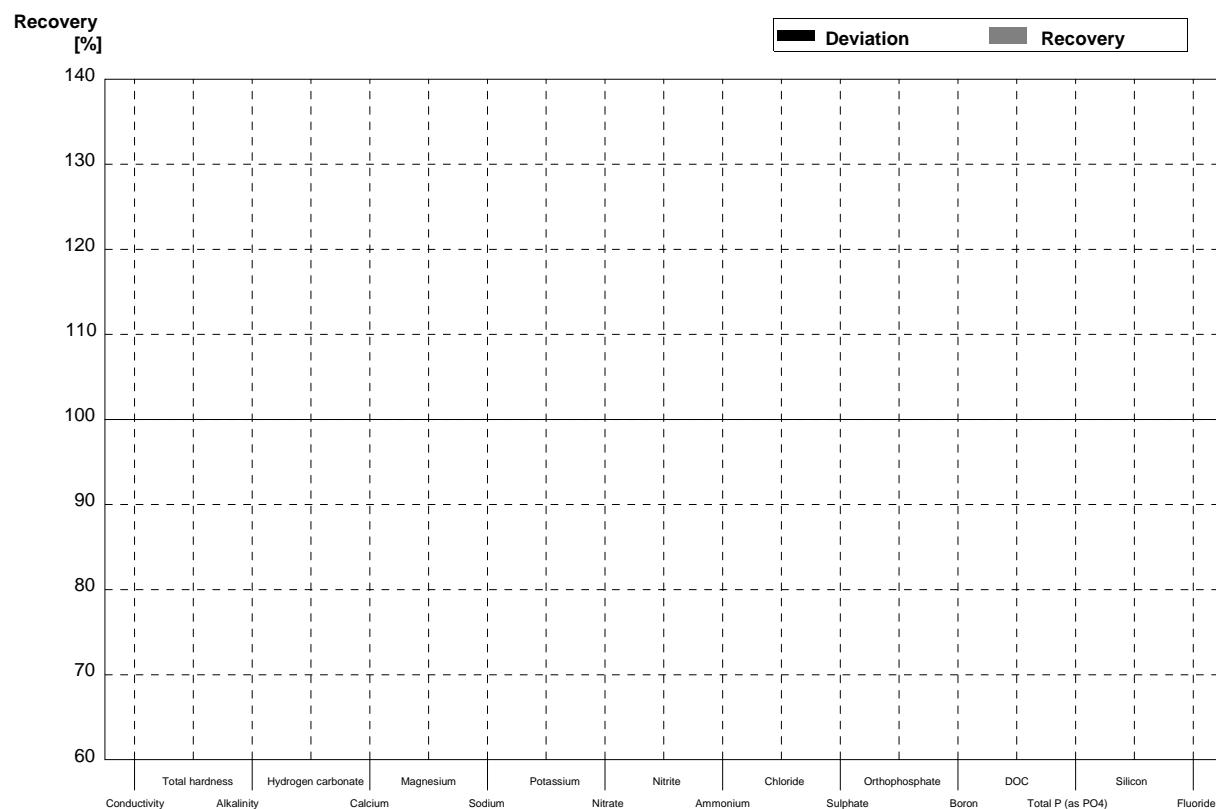
Parameter	Target value	\pm U (k=2)	Result	\pm	Unit	Recovery
Conductivity	270	1	266,5	2,612	$\mu\text{S}/\text{cm}$	99%
Total hardness	0,560	0,006	0,54	0,05	mmol/l	96%
Alkalinity	1,37	0,01	1,39	0,079	mmol/l	101%
Hydrogen carbonate	80,4	0,7	81,8	8,2	mg/l	102%
Calcium	16,3	0,2	15,66	1,034	mg/l	96%
Magnesium	3,73	0,05	3,65	0,197	mg/l	98%
Sodium	32,6	0,2	31,02	2,575	mg/l	95%
Potassium	2,93	0,02	2,87	0,271	mg/l	98%
Nitrate	16,6	0,3	17,07	1,538	mg/l	103%
Nitrite	0,0091	0,0002	<0,01		mg/l	•
Ammonium	<0,01		<0,01		mg/l	•
Chloride	11,5	0,1	11,68	2,13	mg/l	102%
Sulphate	28,9	0,2	28,92	3,193	mg/l	100%
Orthophosphate	0,160	0,002	0,159	0,025	mg/l	99%
Boron	0,185	0,001	0,152	0,23	mg/l	82%
DOC	2,16	0,04	2,293	0,345	mg/l	106%
Total P (as PO ₄)	0,070	0,001	0,0485	0,009	mg/l	69%
Silicon	2,99	0,07	3,036	0,858	mg/l	102%
Fluoride	1,51	0,01	1,466	0,212	mg/l	97%



Sample N146A

Laboratory BM

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	526	1			µS/cm	
Total hardness	1,90	0,02			mmol/l	
Alkalinity	1,46	0,02			mmol/l	
Hydrogen carbonate	86,3	1,4			mg/l	
Calcium	50,8	0,6			mg/l	
Magnesium	15,4	0,2			mg/l	
Sodium	25,2	0,3			mg/l	
Potassium	4,86	0,03			mg/l	
Nitrate	54,3	0,9			mg/l	
Nitrite	0,032	0,001			mg/l	
Ammonium	0,028	0,004			mg/l	
Chloride	43,3	0,6			mg/l	
Sulphate	70,5	0,4			mg/l	
Orthophosphate	<0,009				mg/l	
Boron	0,045	0,001			mg/l	
DOC	1,18	0,04			mg/l	
Total P (as PO ₄)	<0,009				mg/l	
Silicon	1,00	0,02			mg/l	
Fluoride	0,605	0,004			mg/l	



Sample N146B

Laboratory BM

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Conductivity	270	1			µS/cm	
Total hardness	0,560	0,006			mmol/l	
Alkalinity	1,37	0,01			mmol/l	
Hydrogen carbonate	80,4	0,7			mg/l	
Calcium	16,3	0,2			mg/l	
Magnesium	3,73	0,05			mg/l	
Sodium	32,6	0,2			mg/l	
Potassium	2,93	0,02			mg/l	
Nitrate	16,6	0,3			mg/l	
Nitrite	0,0091	0,0002			mg/l	
Ammonium	<0,01				mg/l	
Chloride	11,5	0,1			mg/l	
Sulphate	28,9	0,2			mg/l	
Orthophosphate	0,160	0,002			mg/l	
Boron	0,185	0,001			mg/l	
DOC	2,16	0,04			mg/l	
Total P (as PO ₄)	0,070	0,001			mg/l	
Silicon	2,99	0,07			mg/l	
Fluoride	1,51	0,01			mg/l	

