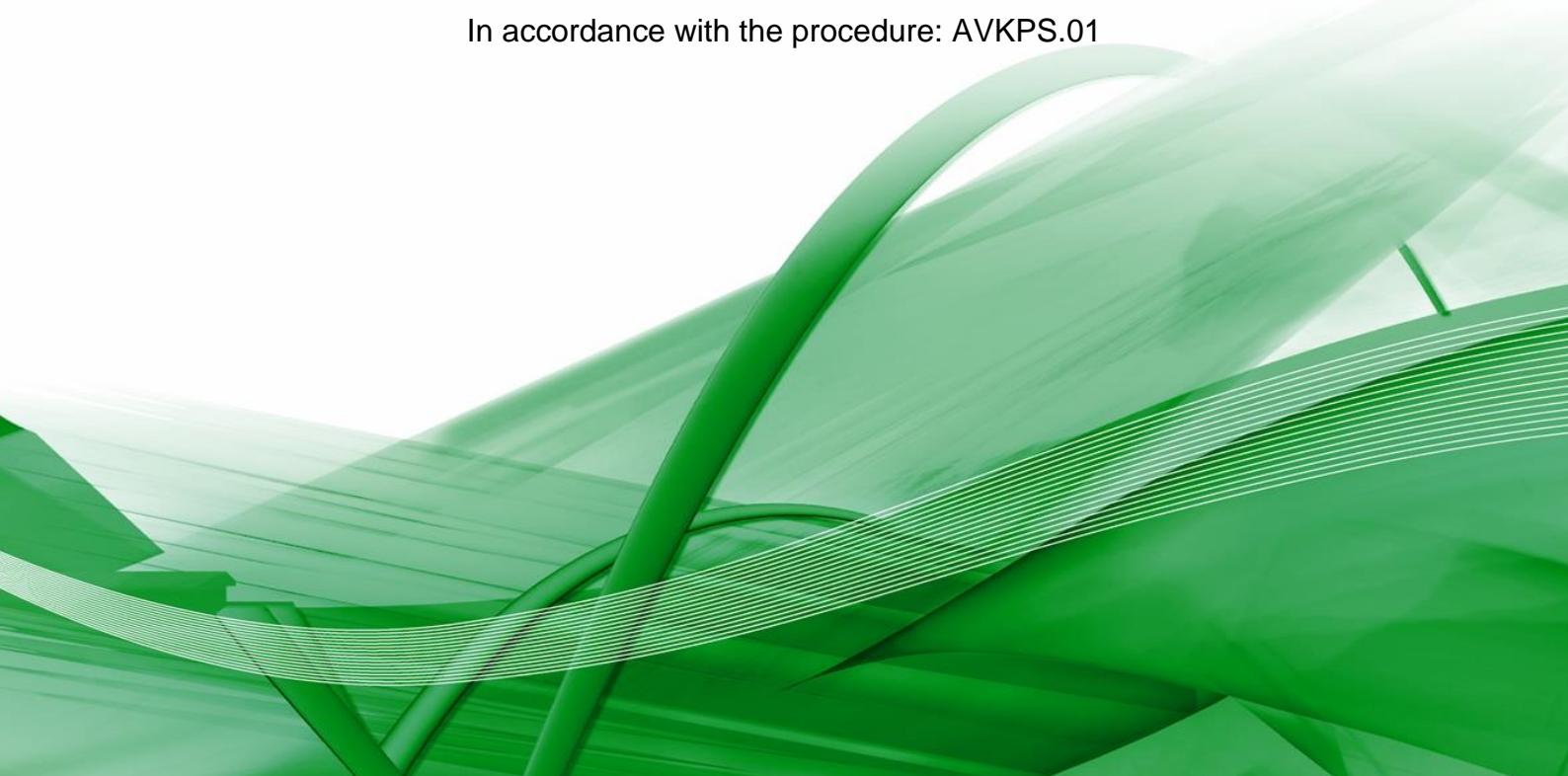


# IFA-Proficiency Testing Scheme for Water Analysis

Round N167  
Major Ions

Sample Dispatch: 22 May 2023

In accordance with the procedure: AVKPS.01



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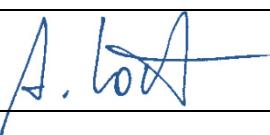
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|              |                               |  |
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| Round: N167  | Date / Signature:             | 28.06.2023  |

Report: 1<sup>st</sup> edition, created on 28 June 2023 by Ing. Uta Kachelmeier  
155 pages

This report summarises the results of round N167 (major ions) within the IFA-Proficiency Testing Scheme for Water Analysis. The samples N167A and N167B were distributed to 48 participants on Monday, 22 May 2023. Each participant received two samples of 1000 mL, each filled into two 500 mL PET bottles.

Closing date for reporting results to the IFA-Tulln was Friday, 23 June 2023. All participants submitted results. To make the participants anonymous, each laboratory obtained a letter code by random.

## Samples

The samples consisted of artificial ground water. For sample preparation, ultrapure water was spiked with solutions of salts and standards in order to simulate the ionic composition of natural Austrian ground water. The following substances were added to the samples: CaCO<sub>3</sub>, CaCl<sub>2</sub>, Ca(NO<sub>3</sub>)<sub>2</sub>, MgSO<sub>4</sub>, Mg(NO<sub>3</sub>)<sub>2</sub>, NaCl, NaHCO<sub>3</sub>, Na<sub>2</sub>SO<sub>4</sub>, K<sub>2</sub>SO<sub>4</sub>, KHCO<sub>3</sub>, diethyl ethylphosphonate (C<sub>6</sub>H<sub>15</sub>PO<sub>3</sub>, for total-P), potassium hydrogen phthalate (for DOC), sodium salicylate (for KMnO<sub>4</sub>-Index) and certified standard solutions of NaNO<sub>2</sub>, Na<sub>2</sub>SiO<sub>3</sub>, NH<sub>4</sub>Cl, KH<sub>2</sub>PO<sub>4</sub> and H<sub>3</sub>BO<sub>3</sub>. Both samples, N167A and N167B, contained free CO<sub>2</sub>, which was used for dissolution of CaCO<sub>3</sub> and neutralisation of Na<sub>2</sub>SiO<sub>3</sub> (substance for matrix). No other substances (e.g. preservatives) were added. The samples were stabilised by sterile filtration and low temperature.

## Homogeneity, accuracy and stability tests at the IFA-Tulln

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

To verify stability, the parameters DOC, NH<sub>4</sub><sup>+</sup>, NO<sub>2</sub><sup>-</sup>, o-PO<sub>4</sub><sup>3-</sup> and KMnO<sub>4</sub>-Index of samples N167A and N167B were determined in several samples four weeks after shipment. The results are listed in the result tables ("Stability test") and the parameter oriented part of the report ("IFA result"). Stability tests for all other parameters will be carried out together with the accuracy tests of the following round (N168).

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

## Results

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

The target value of the electrical conductivity was set to the laboratory mean (conventional value). When calculated from more than 20 results with a standard deviation between the laboratories of about 1 %, the conventional value has a confidence interval that is smaller than the uncertainty of our estimate calculated from the target concentrations by Debye-Hückel's theory: 2.4 % (p = 95 %). However, the calculated electrical conductivity was 534 µS/cm in sample N167A and 444 µS/cm in sample N167B.

For the pH no target values can be assigned. The results can be compared on the tables. In this kind of samples containing CO<sub>2</sub>, the pH tends to increase slowly over time.

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

The concentrations of sodium salicylate, which was used as standard substance for the KMnO<sub>4</sub>-Index, were 2.68 mg/L in sample N167A and 4.43 mg/L in sample N167B. Assuming complete oxidation to carbon dioxide, nitrate and water (considering nitrite), the theoretical values were 3.76 mg/L O<sub>2</sub> (N167A) and 6.20 mg/L O<sub>2</sub> (N167B). However, the laboratory mean values were taken as reference values in this report: 3.51 mg/L O<sub>2</sub> for N167A and 5.64 mg/L O<sub>2</sub> for N167B.

No phosphorus substances were added to sample N167A and Ammonium was not added to sample N167B in order to check the analytical blank values. The target concentrations were set to <0.01 mg/L NH<sub>4</sub><sup>+</sup>, <0.009 mg/L o- $PO_4^{3-}$  and <0.009 mg/L total-P (as  $PO_4^{3-}$ ), which meets the minimum quantifiable values defined by the Austrian ground and river water monitoring program and the quantification limits of the analytical methods applied in the IFA.

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

The recoveries of the target concentrations, calculated from outlier-corrected data mean values ranged between 96.2 % (total-P (as PO<sub>4</sub>) in sample N167B) and 107.6 % (DOC in sample N167A).

The between laboratory CVs covered the range between 0.8 % (conductivity in sample N167B) and 9.7 % (ammonium in sample N167A).

All confidence intervals of the outlier-corrected laboratory mean values except for DOC in sample N167A ( $107.6\% \pm 3.8\%$ ) encompass the corresponding target values with their uncertainties. For all other parameters, statistically, no difference could be detected between theoretical target concentrations and outlier corrected laboratory means.

## **z-scores**

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

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

z      z-score  
x<sub>i</sub>    result of laboratory  
X      target value or mean value („consensus value“)  
 $\sigma_{PT}$     standard deviation for proficiency assessment

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

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

### Calculation example:

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

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

$z$  z-score

$x_i$  7.00 mg/L equivalent to 116 % (value of the laboratory)

$X$  6.02 mg/L equivalent to 100 % (target value)

$\sigma_{pt}$  0.33 mg/L equivalent to 3.0 % (standard deviation for proficiency assessment, see table below)

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

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

| Parameter                                   | standard deviation for proficiency assessment | Lower limit |
|---|---|-------------|
| Alkalinity K <sub>S4.3</sub>                | 1.9 %   | 0.2 mmol/L  |
| Ammonium                                    | 11 %  | 0.01 mg/L   |
| Boron                                       | 7.3 %   | 0.012 mg/L  |
| Calcium                                     | 3.2 %   | 9 mg/L      |
| Chloride                                    | 2.9 %   | 2 mg/L      |
| el. Conductivity                            | 1.2 %   | 50 µS/cm    |
| DOC   | 5.4 %   | 1 mg/L      |
| Hydrogen carbonate                          | 2.4 %   | 20 mg/L     |
| KMnO <sub>4</sub> -Index                    | 10 %  | 1 mg/L      |
| Magnesium                                   | 3.5 %   | 1 mg/L      |
| Nitrate                                     | 3.1 %   | 2 mg/L      |
| Nitrite                                     | 5.4 %   | 0.01 mg/L   |
| Orthophosphate                              | 9.5 %   | 0.015 mg/L  |
| Potassium                                   | 4.3 %   | 0.5 mg/L    |
| Sodium                                      | 3.2 %   | 1 mg/L      |
| Sulphate                                    | 3.1 %   | 3 mg/L      |
| Total hardness                              | 2.8 %   | 0.1 mmol/L  |
| Total-P (as PO <sub>4</sub> <sup>3-</sup> ) | 9.4 %   | 0.015 mg/L  |

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

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

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

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

### Illustration of results

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

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

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

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

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

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

Tulln, 28 June 2023

## 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

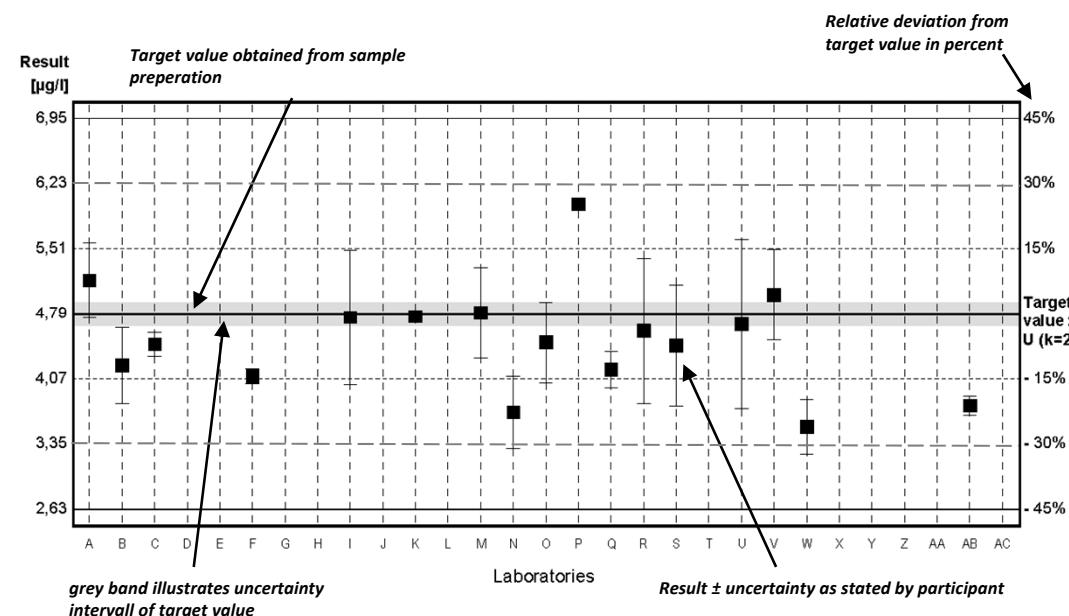


Diagram 1: Measurement results and their uncertainties

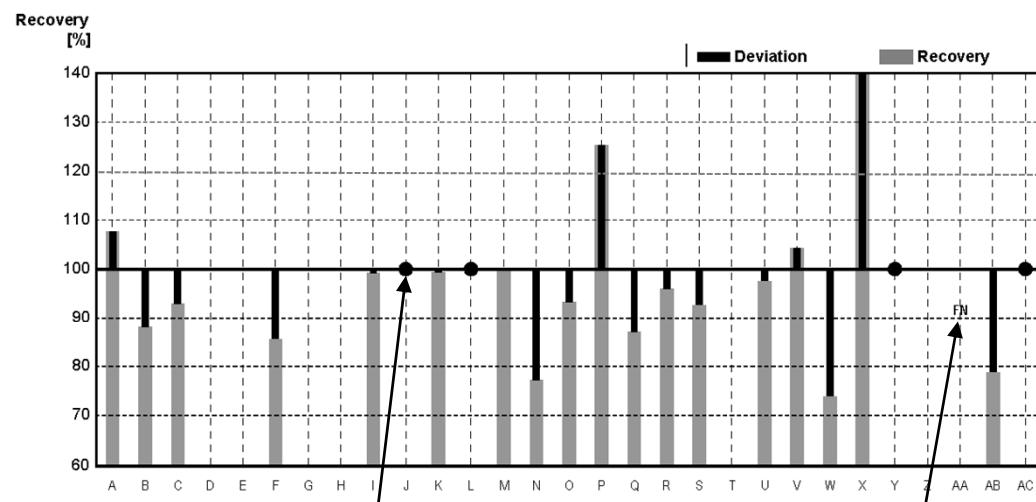


Diagram 2: Recoveries and deviations from target values



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

Round N167  
Major Ions

Sample Dispatch: 22 May 2023

## Results Sample N167A

|                | pH    | Cond. | total-Hardn. | K <sub>S 4.3</sub> | HCO <sub>3</sub> <sup>-</sup> | Ca <sup>2+</sup> | Mg <sup>2+</sup> | Na <sup>+</sup> | K <sup>+</sup> | NO <sub>3</sub> <sup>-</sup> |
|----------------|-------|-------|--------------|--------------------|-------------------------------|------------------|------------------|-----------------|----------------|------------------------------|
| Unit           |       | µS/cm | mmol/L       | mmol/L             | mg/L                          | mg/L             | mg/L             | mg/L            | mg/L           | mg/L                         |
| Target value   |       | 544   | 1.94         | 2.36               | 140.9                         | 60.1             | 10.79            | 24.9            | 8.81           | 37.2                         |
| IFA result     | 6.50  | 543   | 2.04         | 2.30               | 137                           | 64               | 11.1             | 25.6            | 8.9            | 36.4                         |
| Stability test |       |       |              |                    |                               |                  |                  |                 |                |                              |
| A              | 6.6   | 548   | 1.90         | 2.434              | 145                           | 58.098           | 11.025           | 25.223          | 8.922          | 37.33                        |
| B              | 6.77  | 524.3 | 1.93         | 2.343              |                               | 61.06            | 9.81             |                 |                | 36.7                         |
| C              | 6.4   | 541   | 1.94         | 2.30               | 137                           | 60.0             | 10.7             | 24.7            | 9.00           | 37.9                         |
| D              | 6.73  | 545   | 1.87         | 2.31               | 141                           | 56.3             | 11.3             | 25.8            | 8.48           | 36.3                         |
| E              | 6.47  | 545   | 1.81         | 2.38               | 145                           | 57.6             | 9.88             | 24.6            | 7.61           | 36.5                         |
| F              | 6.55  | 544   | 1.97         | 2.33               | 139                           | 61.9             | 10.3             | 25.6            | 9.10           | 36.3                         |
| G              | 6.34  | 525   | 1.95         | 2.20               | 134                           | 58.3             | 10.0             | 22.4            | 8.37           | 46.0                         |
| H              | 6.6   | 543   | 2.04         | 2.31               | 138                           | 64.3             | 10.7             | 24.3            | 9.1            | 39.2                         |
| I              | 6.74  | 549   | 1.93         | 2.37               | 140.3                         | 59.21            | 10.69            | 24.44           | 8.69           | 35.45                        |
| J              | 6.55  | 534   | 1.97         | 2.33               | 142                           | 61               | 11.0             | 24.9            | 9.2            | 36.8                         |
| K              | 6.80  | 546   | 1.91         | 2.36               | 141                           | 59.4             | 10.5             | 24.5            | 8.67           | 35.3                         |
| L              | 6.7   | 552   | 1.85         | 2.30               | 142.8                         | 57               | 10.6             | 23.5            | 8.8            | 39.5                         |
| M              | 6.39  | 538   | 1.809        | 2.30               | 140.3                         | 55.5             | 10.3             | 23.3            | 8.17           | 35.4                         |
| N              | 6.55  | 556   | 1.90         | 2.39               | 146                           | 58.8             | 10.5             | 24.3            | 8.81           | 36.9                         |
| O              | 6.4   | 545   | 1.94         | 2.29               | 139.7                         | 58.9             | 11.3             | 25.5            | 8.90           | 36.4                         |
| P              | 6.5   | 543   | 10.7         | 2.334              | 139                           | 59.2             | 10.42            | 23.74           | 8.388          | 36.4                         |
| Q              | 6.82  | 528   | 1.94         | 2.40               | 143.5                         | 58.9             | 11.4             | 25.0            | 8.88           | 36.2                         |
| R              | 6.9   |       |              |                    |                               |                  |                  |                 |                | 21.36                        |
| S              | 6.5   | 545   |              | 2.31               | 141                           |                  |                  |                 |                | 36.9                         |
| T              | 6.8   | 548   | 1.97         |                    |                               | 61.1             | 10.8             | 25.2            | 8.73           | 36.7                         |
| U              | 6.427 | 552   | 3.88         | 2.25               | 137                           | 59.8             | 10.9             | 24.2            | 8.5            | 36.2                         |
| V              | 6.5   | 484   |              | 2.27               |                               |                  |                  |                 |                | 36.8                         |
| W              | 6.43  | 538   | 1.952        | 2.34               |                               | 60.40            | 10.81            | 26.84           | 8.92           | 35.35                        |
| X              |       |       |              |                    |                               |                  |                  |                 |                | 35.41                        |
| Y              |       |       |              |                    |                               |                  |                  |                 |                | >30                          |
| Z              | 6.43  | 544   | 1.99         | 2.27               | 135.44                        | 61.93            | 10.84            | 25.78           | 9.24           | 35.12                        |
| AA             | 6.7   | 546   | 1.92         | 2.28               | 139.1                         | 59.58            | 10.62            | 24.66           | 8.69           | 36.7                         |
| AB             | 6.34  | 546   |              | 2.37               | 141                           |                  |                  |                 |                | 35.6                         |
| AC             |       |       |              |                    |                               | 58               | 10.9             | 24.3            | 8.5            |                              |
| AD             |       |       |              |                    |                               |                  |                  |                 |                |                              |
| AE             | 6.43  | 540   | 1.96         | 2.36               | 144                           | 60.3             | 11.2             | 24.9            | 8.65           | 36.703                       |
| AF             | 6.37  | 540   | 1.92         | 2.31               | 137.81                        | 59.55            | 10.64            | 24.47           | 8.83           | 36.51                        |
| AG             | 6.4   | 543   | 1.93         | 2.30               | 140.3                         | 59.6             | 10.7             | 24.3            | 8.8            | 38.3                         |
| AH             | 6.43  | 544   | 1.92         | 2.32               | 138                           | 59.3             | 10.6             | 24.8            | 8.78           | 36.1                         |
| AI             | 6.57  | 539   | 2.00         | 2.31               | 138                           | 61.7             | 11.4             | 26.0            | 8.7            | 35.5                         |
| AJ             | 6.43  | 535   | 1.95         | 2.29               | 140                           | 60               | 11.2             | 25.6            | 6.8            | 37.0                         |
| AK             | 6.35  | 541   | 1.96         | 2.42               |                               | 58.7             | 10.6             | 24.7            | 8.7            | 36.6                         |
| AL             | 6.80  | 531.0 | 1.92         | 2.40               | 146.44                        | 59.88            | 10.5             | 25.0            | 8.41           | 32.5                         |
| AM             |       | 545.7 | 10.8         | 2.396              | 143.1                         | 58.9             | 11.0             | 24.8            | 9.2            | 37.1                         |
| AN             |       |       |              |                    |                               | 59.06            | 10.51            | 24.18           | 8.37           |                              |
| AO             | 6.39  | 540   | 1.93         | 2.31               | 141                           | 60.1             | 10.5             | 23.9            | 8.95           | 35.6                         |
| AP             | 6.7   | 546   | 1.89         | 2.34               | 143                           | 61               | 10.8             | 26.4            | 9.1            | 38.7                         |
| AQ             | 6.3   | 544   | 1.94         | 2.30               |                               | 59.0             | 11.3             | 25.6            | 8.88           | 36.6                         |
| AR             | 6.38  | 544   | 2.006        | 2.64               | 161                           | 61.37            | 11.44            | 25.76           | 8.93           | 37.50                        |
| AS             | 6.48  | 541   | 1.95         | 2.31               | 138                           | 60.3             | 10.7             | 24.4            | 8.68           | 36.7                         |
| AT             | 6.53  | 545   | 1.98         | 2.28               | 139                           | 60.15            | 10.59            | 24.39           | 8.98           | 36.4                         |
| AU             | 6.7   | 548   | 2.04         | 2.33               | 142                           | 63               | 11.3             | 25.6            | 9.0            | 35.9                         |
| AV             |       |       |              |                    |                               | 59.5             | 11.0             | 24.9            | 8.85           |                              |

### Measurement Uncertainties Sample N167A

|                | pH<br>± | Cond.<br>± | total-<br>Hardn. ± | K <sub>S 4.3</sub><br>± | HCO <sub>3</sub> <sup>-</sup><br>± | Ca <sup>2+</sup><br>± | Mg <sup>2+</sup><br>± | Na <sup>+</sup><br>± | K <sup>+</sup><br>± | NO <sub>3</sub> <sup>-</sup><br>± |
|----------------|---------|------------|--------------------|-------------------------|------------------------------------|-----------------------|-----------------------|----------------------|---------------------|-----------------------------------|
| Unit           |         | µS/cm      | mmol/L             | mmol/L                  | mg/L                               | mg/L                  | mg/L                  | mg/L                 | mg/L                | mg/L                              |
| Target value   |         | 2          | 0.02               | 0.03                    | 1.7                                | 0.9                   | 0.14                  | 0.3                  | 0.06                | 0.7                               |
| IFA result     | 0.20    | 7          | 0.08               | 0.09                    | 6                                  | 3                     | 0.6                   | 1.3                  | 0.4                 | 2.0                               |
| Stability test |         |            |                    |                         |                                    |                       |                       |                      |                     |                                   |
| A              | 0.19    | 30.5       | 0.19               | 0.14                    | 11.6                               | 5.80                  | 1.10                  | 2.52                 | 0.89                | 1.87                              |
| B              | 0.05    | 0.275      | 0.06               | 0.06                    |                                    | 0.82                  | 1.53                  |                      |                     | 0.482                             |
| C              | 0.3     | 22         | 0.1                | 0.1                     | 6                                  | 5                     | 1.3                   | 4                    | 1.2                 | 3                                 |
| D              | 0.67    | 55         | 0.37               | 0.23                    | 14                                 | 11                    | 2.25                  | 5.2                  | 1.7                 | 5.4                               |
| E              | 0.36    | 18.5       | 0.14               | 0.10                    | 8.57                               | 4.38                  | 0.67                  | 2.21                 | 0.56                | 2.96                              |
| F              | 0.0655  | 0.427      | 0.0412             | 0.0957                  | 2.79                               | 0.745                 | 0.896                 | 0.235                | 0.346               | 0.455                             |
| G              | 0.13    | 13         | 0.25               | 0.05                    | 3                                  | 7.6                   | 1.2                   | 2.7                  | 1.1                 | 1.7                               |
| H              | 0.66    | 32.58      | 0.153              | 0.22                    | 13.1                               | 3.86                  | 1.28                  | 1.58                 | 0.91                | 4.12                              |
| I              | 0.25    | 14         | 0.02               | 0.01                    | 2.8                                | 0.59                  | 0.11                  | 0.49                 | 0.51                | 1.77                              |
| J              | 0.06    | 12         | 0.16               | 0.10                    | 6.4                                | 3.1                   | 0.69                  | 1.9                  | 0.32                | 1.8                               |
| K              | 0.272   | 21.8       | 0.344              | 0.094                   | 5.64                               | 10.7                  | 1.89                  | 4.41                 | 1.56                | 3.18                              |
| L              | 0.083   | 18         | 0.15               | 0.069                   | 4.3                                | 4.7                   | 0.75                  | 1.7                  | 0.41                | 1.9                               |
| M              |         |            |                    |                         |                                    |                       |                       |                      |                     |                                   |
| N              | 0.2     | 56         | 0.19               | 0.24                    | 15                                 | 5.9                   | 1.0                   | 2.4                  | 0.88                | 3.7                               |
| O              | 0.1     | 10         | 0.19               | 2.3                     | 13.97                              | 12                    | 2.3                   | 3.8                  | 1.8                 | 3.6                               |
| P              | 0.2     | 15         |                    | 0.156                   |                                    | 4.1                   | 0.9                   | 2.3                  | 0.8                 | 3.8                               |
| Q              |         | 11         | 0.16               | 0.22                    | 12.9                               | 5.9                   | 1.5                   | 1.25                 | 0.44                | 1.1                               |
| R              | 0.02    |            |                    |                         |                                    |                       |                       |                      |                     | 0.17                              |
| S              | 0.1     | 15.3       |                    | 0.05                    | 2.96                               |                       |                       |                      |                     | 1.6                               |
| T              | 0.34    | 27.4       | 0.300              |                         |                                    | 9.17                  | 1.08                  | 3.78                 | 1.31                | 3.67                              |
| U              | 0.212   | 16.0       |                    | 0.1125                  |                                    | 8.97                  | 1.635                 | 3.63                 | 1.275               | 5.43                              |
| V              | 0.1     |            |                    |                         |                                    |                       |                       |                      |                     | 0.828                             |
| W              | 0.02    | 30         | 0.05               | 0.02                    |                                    | 0.6                   | 0.6                   | 0.3                  | 0.06                | 0.5                               |
| X              |         |            |                    |                         |                                    |                       |                       |                      |                     | 0.5                               |
| Y              |         |            |                    |                         |                                    |                       |                       |                      |                     |                                   |
| Z              | 0.1     | 4.51       |                    | 0.22                    |                                    | 6.1                   | 1.0                   | 2.5                  | 0.9                 | 3.5                               |
| AA             | 0.2     | 54.6       |                    | 0.342                   | 20.87                              | 5.958                 | 1.062                 | 2.466                | 0.869               | 1.47                              |
| AB             | 0.0085  | 3.87       |                    | 0.067                   | 2.04                               |                       |                       |                      |                     | 2.44                              |
| AC             |         |            |                    |                         |                                    |                       |                       |                      |                     |                                   |
| AD             |         |            |                    |                         |                                    |                       |                       |                      |                     |                                   |
| AE             | 0.006   | 0.577      | 0.025              | 0.006                   | 0.36                               | 0.9                   | 0.176                 | 0.252                | 0.161               | 0.1                               |
| AF             | 0.25    | 11.9       | 0.08               | 0.05                    | 2.89                               | 2.32                  | 0.50                  | 1.17                 | 0.57                | 2.45                              |
| AG             | 0.2     | 22         | 0.10               | 0.15                    | 8.8                                | 2.8                   | 0.7                   | 1.2                  | 0.4                 | 3.7                               |
| AH             | 0.30    | 16         | 0.16               | 0.09                    | 6                                  | 3.0                   | 0.7                   | 1.0                  | 0.70                | 2.2                               |
| AI             | 0.20    | 53.9       | 0.20               | 0.23                    | 7                                  | 3.1                   | 0.6                   | 2.6                  | 0.9                 | 2.4                               |
| AJ             | 0.05    | 12         | 0.16               | 0.11                    | 7                                  | 3                     | 0.5                   | 1.1                  | 0.3                 | 1.4                               |
| AK             | 0.091   | 27.1       | 0.10               | 0.12                    |                                    | 1.76                  | 0.36                  | 0.32                 | 0.26                | 0.94                              |
| AL             | 0.2     | 25         | 0.2                | 0.25                    | 15                                 | 5.0                   | 1.0                   | 2.5                  | 0.8                 | 3                                 |
| AM             |         |            |                    |                         |                                    |                       |                       |                      |                     |                                   |
| AN             |         |            |                    |                         |                                    | 2.06                  | 0.88                  | 1.51                 | 0.29                |                                   |
| AO             | 0.19    | 16         | 0.29               | 0.18                    | 11                                 | 9.0                   | 1.3                   | 3.1                  | 1.3                 | 3.6                               |
| AP             | 0.2     | 30         | 0.19               | 0.25                    |                                    | 6.1                   | 1.1                   | 2.6                  | 0.9                 | 3.9                               |
| AQ             | 0.1     | 10         | 0.39               | 0.23                    |                                    | 12                    | 2.3                   | 3.8                  | 1.8                 | 3.7                               |
| AR             |         |            |                    |                         |                                    |                       |                       |                      |                     |                                   |
| AS             |         |            |                    |                         |                                    |                       |                       |                      |                     |                                   |
| AT             | 0.32    | 17.2       | 0.30               | 0.77                    | 47.2                               | 5.02                  | 0.852                 | 1.85                 | 0.908               | 3.91                              |
| AU             | 0.2     | 11         | 0.14               | 0.12                    | 11                                 | 5                     | 0.9                   | 3.1                  | 1.0                 | 2.9                               |
| AV             |         |            |                    |                         |                                    | 4.85                  | 1.23                  | 1.18                 | 0.806               |                                   |

## Results Sample N167A

|                | <b>NO<sub>2</sub><sup>-</sup></b> | <b>NH<sub>4</sub><sup>+</sup></b> | <b>Cl<sup>-</sup></b> | <b>SO<sub>4</sub><sup>2-</sup></b> | <b>o-PO<sub>4</sub><sup>3-</sup></b> | <b>Boron</b> | <b>DOC</b> | <b>total-P<br/>(as PO<sub>4</sub><sup>3-</sup>)</b> | <b>KMnO<sub>4</sub>-<br/>index</b> |
|----------------|-----------------------------------|-----------------------------------|-----------------------|------------------------------------|--------------------------------------|--------------|------------|---|------------------------------------|
| Unit           | mg/L                              | mg/L                              | mg/L                  | mg/L                               | mg/L                                 | mg/L         | mg/L       | mg/L  | mg/L                               |
| Target value   | 0.0404                            | 0.070                             | 54.8                  | 34.7                               | <0.009                               | 0.1265       | 1.89       | <0.009  | 3.51                               |
| IFA result     | 0.0396                            | 0.070                             | 54.1                  | 34.8                               | <0.009                               | 0.115        | 1.92       | <0.009  | 3.66                               |
| Stability test | 0.0401                            | 0.069                             |                       |                                    | <0.009                               |              | 2.04       |   | 3.41                               |
| A              | 0.0420                            | 0.0700                            | 55.37                 | 34.96                              | <0.01                                | 0.120        | 2.05       | <0.01   | 3.43                               |
| B              |                                   |                                   | 56.6                  | 35.0                               |                                      |              |            |   | 3.856                              |
| C              | 0.0420                            | 0.068                             | 56.5                  | 35.5                               | <0.01                                |              | 2.04       | <0.013  |                                    |
| D              | 0.0388                            | 0.070                             | 51.0                  | 35.3                               | <0.1                                 | 0.118        | 2.33       | <31   |                                    |
| E              | 0.0400                            | 0.0658                            | 54.7                  | 34.6                               | <0.02                                | 0.1177       | 2.63       | <0.02   | 3.49                               |
| F              | 0.0422                            | 0.0792                            | 54.5                  | 34.2                               | <0.0150                              | 0.128        | 1.91       | <0.0150   | 3.80                               |
| G              | 0.0493                            | 0.734                             | 52.3                  | 31.7                               | <0.061                               |              | 2.17       | <0.061  | 3.49                               |
| H              | 0.0377                            | 0.0776                            | 59.2                  | 33.9                               | <0.060                               | 0.120        | 1.90       | <0.060  |                                    |
| I              | 0.0400                            | 0.0590                            | 50.62                 | 34.16                              | <0.009                               |              | 3.518      | <0.009  | 3.445                              |
| J              | 0.057                             | 0.0380                            | 56                    | 34.7                               | <0.01                                |              | 2.81       | <0.01   | 3.88                               |
| K              | 0.0394                            | 0.0751                            | 52.4                  | 32.7                               | <0.01                                | 0.121        | 2.10       | <0.05   | 3.84                               |
| L              | 0.0390                            | 0.070                             | 59                    | 36.7                               | <0.02                                |              | 1.71       | <0.15   | 3.77                               |
| M              | 0.0390                            | 0.0720                            | 53.2                  | 33.8                               | 0.124                                | 0.125        | 2.25       |   | 2.76                               |
| N              | 0.0410                            | 0.0598                            | 54.0                  | 34.4                               | <0.008                               | 0.114        | 2.21       | <0.015  | 3.62                               |
| O              | 0.0401                            | 0.0655                            | 54.2                  | 34.1                               | <0.015                               | 0.123        | 2.01       | <0.015  |                                    |
| P              | 0.0406                            | 0.087                             | 54.0                  | 34.5                               |                                      | 0.130        | 1.92       | <0.03   |                                    |
| Q              | 0.0410                            | 0.075                             | 53.6                  | 34.2                               | <0.040                               | 0.1445       | 1.93       | <0.03   | 3.46                               |
| R              | 0.80                              | 0.068                             | 44.90                 | 31.02                              | 0.311                                |              |            |   |                                    |
| S              | 0.0400                            | 0.059                             | 54.3                  | 34.7                               |                                      |              | 2.06       |   |                                    |
| T              | 0.0360                            | 0.072                             | 54.6                  | 34.2                               | <0.046                               | 0.125        | 2.06       | <0.015  |                                    |
| U              | 0.0413                            | 0.0588                            | 54.3                  | 34.4                               | <0.03                                | 0.114        | 2.156      | <0.03   |                                    |
| V              | 0.0415                            | 0.074                             | 54.3                  | 35.3                               | <0.01                                |              |            | 0.0195  |                                    |
| W              | 0.0314                            | 0.0735                            | 56.40                 | 35.04                              |                                      |              | 2.20       |   |                                    |
| X              |                                   |                                   | 52.6                  |                                    |                                      |              |            |   |                                    |
| Y              |                                   | 0.0626                            |                       |                                    | <0.019                               |              |            | <0.02   |                                    |
| Z              | 0.0410                            | 0.064                             | 51.80                 | 31.48                              | <0.001                               | 0.130        | 2.03       | <0.003  |                                    |
| AA             | 0.0390                            | 0.068                             | 55.07                 | 35.86                              | 0.0060                               | 0.138        | 2.00       | <0.006  | 3.40                               |
| AB             | 0.0411                            | 0.080                             | 55                    |                                    | <0.006                               |              |            | <0.006  |                                    |
| AC             |                                   | 0.0675                            |                       |                                    | <0.0100                              | 0.123        | 2.03       |   | 3.46                               |
| AD             |                                   |                                   |                       |                                    |                                      |              |            |   | 3.30                               |
| AE             | 0.0384                            | 0.0613                            | 54.223                | 34.555                             | <0.020                               | 0.112        | 1.76       | <0.020  | 3.31                               |
| AF             | 0.0403                            | 0.0618                            | 54.41                 | 34.00                              |                                      |              | 1.955      |   | 3.46                               |
| AG             | 0.0412                            | 0.0755                            | 57.0                  | 36.1                               | <0.010                               | 0.126        | 1.98       | <0.010  |                                    |
| AH             | 0.0421                            | 0.071                             | 55.2                  | 35.4                               | <0.006                               | 0.119        | 1.88       | <0.006  |                                    |
| AI             | 0.0411                            | 0.074                             | 54.0                  | 35.7                               | <0.006                               | 0.123        | 1.93       | <0.005  | 3.67                               |
| AJ             | 0.0396                            | 0.060                             | 56                    | 35.9                               | <0.01                                |              | 2.04       | <0.01   | 3.55                               |
| AK             | 0.0401                            | 0.081                             | 53.9                  | 34.4                               | <0.003                               | 0.109        |            | <0.003  |                                    |
| AL             | 0.036                             | 0.068                             | 53.0                  | 32.8                               | <0.04                                | 0.130        | 2.0        | <0.04   | 3.05                               |
| AM             | 0.0420                            | 0.070                             | 56.6                  | 35.4                               | <0.03                                | 0.125        | 2.10       | <0.015  | 4.20                               |
| AN             |                                   | 0.065                             |                       |                                    | <0.010                               |              |            | <0.02   |                                    |
| AO             | 0.0392                            | 0.0692                            | 56.0                  | 33.6                               | <0.015                               | 0.132        | 2.22       | <0.015  | 3.63                               |
| AP             | 0.0370                            | 0.072                             | 55                    | 32.3                               |                                      |              |            |   | 3.58                               |
| AQ             | 0.0404                            | 0.0668                            | 54.5                  | 34.3                               |                                      | 0.122        |            |   | 3.37                               |
| AR             | 0.080                             | 0.080                             | 55.49                 | 35.22                              | 0.0133                               | 0.1207       | 1.94       |   | 3.76                               |
| AS             | 0.0412                            | 0.075                             | 53.2                  | 35.8                               | <0.01                                | 0.126        | 1.919      | <0.03   | 2.99                               |
| AT             | 0.0410                            | 0.094                             | 53.5                  | 34.0                               | <0.02                                | 0.123        | 2.39       | <0.02   | 1.70                               |
| AU             | 0.0420                            | 0.073                             | 54                    | 33.9                               | <0.009                               |              | 1.90       | <0.009  | 3.30                               |
| AV             |                                   |                                   |                       |                                    |                                      |              |            |   |                                    |

### Measurement Uncertainties Sample N167A

|                | $\text{NO}_2^-$<br>± | $\text{NH}_4^+$<br>± | $\text{Cl}^-$<br>± | $\text{SO}_4^{2-}$<br>± | $\text{o-PO}_4^{3-}$<br>± | Boron<br>± | DOC<br>± | total-P<br>(as $\text{PO}_4^{3-}$ ) ± | KMnO <sub>4</sub> -<br>Index ± |
|----------------|----------------------|----------------------|--------------------|-------------------------|---------------------------|------------|----------|---------------------------------------|--------------------------------|
| Unit           | mg/L                 | mg/L                 | mg/L               | mg/L                    | mg/L                      | mg/L       | mg/L     | mg/L                                  | mg/L                           |
| Target value   | 0.0009               | 0.004                | 1.2                | 0.4                     |                           | 0.0012     | 0.04     |                                       | 0.12                           |
| IFA result     | 0.0020               | 0.002                | 2.0                | 0.9                     |                           | 0.009      | 0.09     |                                       | 0.54                           |
| Stability test | 0.0020               | 0.002                |                    |                         |                           |            | 0.09     |                                       | 0.51                           |
| A              | 0.004                | 0.007                | 2.77               | 1.75                    |                           | 0.01       | 0.41     |                                       | 0.545                          |
| B              |                      |                      | 1.074              | 7.4                     |                           |            |          |                                       | 0.588                          |
| C              | 0.003                | 0.007                | 4                  | 3                       |                           |            | 0.3      |                                       |                                |
| D              | 0.0058               | 0.02                 | 7.7                | 5.3                     |                           | 0.024      | 0.70     |                                       |                                |
| E              | 0.0019               | 0.0045               | 1.75               | 1.56                    |                           | 0.0108     | 0.40     |                                       | 0.49                           |
| F              | 0.00088              | 0.00125              | 1.29               | 0.534                   |                           | 0.00183    | 0.0836   |                                       |                                |
| G              | 0.0017               | 0.039                | 2.6                | 1.5                     | 0.005                     |            | 0.13     | 0.005                                 | 0.35                           |
| H              | 0.00377              | 0.00776              | 5.33               | 3.05                    |                           | 0.0168     | 0.114    |                                       |                                |
| I              | 0.0040               | 0.0035               | 3.04               | 1.02                    |                           |            | 0.528    |                                       | 0.413                          |
| J              | 0.0084               | 0.0028               | 4.4                | 2.1                     |                           |            | 0.47     |                                       | 0.24                           |
| K              | 0.004                | 0.007                | 4.72               | 2.94                    |                           | 0.022      | 0.189    |                                       | 0.346                          |
| L              | 0.0010               | 0.004                | 2.8                | 1.9                     |                           |            | 0.37     |                                       | 0.38                           |
| M              |                      |                      |                    |                         |                           |            |          |                                       |                                |
| N              | 0.0041               | 0.0060               | 5.4                | 3.4                     |                           | 0.011      | 0.22     |                                       | 0.72                           |
| O              | 0.0074               | 0.0106               | 5.4                | 3.4                     |                           | 0.031      | 0.20     |                                       |                                |
| P              | 0.0088               | 0.035                | 7.6                | 3.3                     |                           | 0.014      | 0.36     |                                       |                                |
| Q              | 0.004                | 0.011                | 1.6                | 1.0                     |                           | 0.01445    | 0.39     |                                       | 0.35                           |
| R              | 0.10                 | 0.012                | 1.80               | 1.04                    | 0.070                     |            |          |                                       |                                |
| S              | 0.003                | 0.006                | 3.96               | 0.97                    |                           |            | 0.016    |                                       |                                |
| T              | 0.0018               | 0.0072               | 5.46               | 3.42                    |                           | 0.0063     | 0.412    |                                       |                                |
| U              | 0.0083               | 0.0059               | 8.145              | 5.16                    |                           | 0.04       | 0.5395   |                                       |                                |
| V              | 0.002                | 0.002                | 1.41               |                         |                           |            |          |                                       |                                |
| W              | 0.015                | 0.080                | 0.25               | 3.0                     |                           |            | 0.03     |                                       |                                |
| X              |                      |                      | 0.6                |                         |                           |            |          |                                       |                                |
| Y              |                      | 0.00150              |                    |                         |                           |            |          |                                       |                                |
| Z              | 0.004                | 0.006                | 5.2                | 3.1                     |                           | 0.0130     | 0.2      |                                       |                                |
| AA             | 0.0059               | 0.0068               | 2.754              | 1.79                    | 0.00090                   | 0.0166     | 0.160    |                                       | 0.544                          |
| AB             | 0.0041               | 0.012                | 0.55               |                         | 0                         |            |          | 0                                     |                                |
| AC             |                      | 0.00635              |                    |                         | 0.00281                   |            | 0.508    |                                       | 0.799                          |
| AD             |                      |                      |                    |                         |                           |            |          |                                       |                                |
| AE             | 0.001                | 0.001                | 2.165              | 0.089                   |                           | 0.003      | 0.015    |                                       | 0.040                          |
| AF             | 0.003                | 0.010                | 2.56               | 1.70                    |                           |            | 0.34     |                                       | 0.73                           |
| AG             | 0.0049               | 0.0133               | 4.4                | 2.9                     |                           | 0.012      | 0.47     |                                       |                                |
| AH             | 0.0035               | 0.007                | 2.8                | 2.2                     |                           | 0.012      | 0.17     |                                       |                                |
| AI             | 0.0062               | 0.013                | 2.7                | 1.8                     |                           | 0.012      | 0.19     |                                       | 0.55                           |
| AJ             | 0.0029               | 0.008                | 3                  | 1.4                     |                           |            | 0.26     |                                       | 0.48                           |
| AK             | 0.0019               | 0.016                | 1.58               | 0.95                    |                           | 0.0116     |          |                                       |                                |
| AL             | 0.004                | 0.007                | 5                  | 3                       |                           | 0.013      | 0.2      |                                       | 0.3                            |
| AM             |                      |                      |                    |                         |                           |            |          |                                       |                                |
| AN             |                      | 0.003                |                    |                         | 0.0001                    |            |          | 0.0066                                |                                |
| AO             | 0.0043               | 0.0055               | 5.6                | 5.4                     |                           | 0.017      | 0.44     |                                       | 0.54                           |
| AP             | 0.004                | 0.007                | 5.5                | 3.2                     |                           |            |          |                                       | 0.40                           |
| AQ             | 0.010                | 0.018                | 5.45               | 3.4                     |                           | 0.031      |          |                                       | 0.85                           |
| AR             |                      |                      |                    |                         |                           |            |          |                                       |                                |
| AS             |                      |                      |                    |                         |                           |            |          |                                       |                                |
| AT             | 0.006                | 0.014                | 3.05               | 3.13                    |                           | 0.0123     | 0.115    |                                       | 0.40                           |
| AU             | 0.005                | 0.019                | 4                  | 2.0                     |                           |            | 0.48     |                                       | 0.2                            |
| AV             |                      |                      |                    |                         |                           |            |          |                                       |                                |

## Results Sample N167B

|                | pH    | Cond. | total-Hardn. | K <sub>S 4.3</sub> | HCO <sub>3</sub> <sup>-</sup> | Ca <sup>2+</sup> | Mg <sup>2+</sup> | Na <sup>+</sup> | K <sup>+</sup> | NO <sub>3</sub> <sup>-</sup> |
|----------------|-------|-------|--------------|--------------------|-------------------------------|------------------|------------------|-----------------|----------------|------------------------------|
| Unit           |       | µS/cm | mmol/L       | mmol/L             | mg/L                          | mg/L             | mg/L             | mg/L            | mg/L           | mg/L                         |
| Target value   |       | 444   | 1.321        | 1.294              | 75.9                          | 39.6             | 8.07             | 30.8            | 6.98           | 51.3                         |
| IFA result     | 6.36  | 443   | 1.40         | 1.27               | 74                            | 42.0             | 8.5              | 32.3            | 7.2            | 50                           |
| Stability test |       |       |              |                    |                               |                  |                  |                 |                |                              |
| A              | 6.58  | 446   | 1.29         | 1.315              | 77.2                          | 38.120           | 8.243            | 30.982          | 7.062          | 50.88                        |
| B              | 6.68  | 427.6 | 1.32         | 1.286              |                               | 40.03            | 7.65             |                 |                | 50.5                         |
| C              | 6.3   | 443   | 1.31         | 1.263              | 74.0                          | 39.3             | 8.0              | 30.7            | 7.11           | 52.4                         |
| D              | 6.53  | 446   | 1.28         | 1.28               | 78.2                          | 37.3             | 8.40             | 31.5            | 6.78           | 48.8                         |
| E              | 6.43  | 444   | 1.21         | 1.32               | 80.2                          | 37.7             | 7.25             | 30.5            | 6.21           | 50.3                         |
| F              | 6.48  | 446   | 1.32         | 1.28               | 75.1                          | 40.3             | 7.71             | 31.4            | 7.20           | 50.6                         |
| G              | 6.23  | 425   | 1.33         | 1.25               | 76.3                          | 38.4             | 7.66             | 28.3            | 6.67           | 67.5                         |
| H              | 6.4   | 440   | 1.38         | 1.28               | 74.8                          | 42.4             | 7.9              | 30.6            | 6.8            | 53.8                         |
| I              | 6.67  | 449   | 1.31         | 1.32               | 77.2                          | 39.04            | 8.12             | 30.79           | 6.92           | 48.18                        |
| J              | 6.79  | 427   | 1.34         | 1.35               | 82                            | 40.1             | 8.2              | 31.0            | 7.1            | 51                           |
| K              | 6.64  | 445   | 1.29         | 1.32               | 77.2                          | 38.5             | 7.91             | 29.9            | 6.88           | 49.1                         |
| L              | 6.7   | 451   | 1.25         | 1.29               | 78.7                          | 36.8             | 8.0              | 29.2            | 7.0            | 51                           |
| M              | 6.29  | 444   | 1.223        | 1.32               | 80.5                          | 36.3             | 7.70             | 29.3            | 7.20           | 49.6                         |
| N              | 6.49  | 456   | 1.36         | 1.32               | 80.7                          | 40.8             | 8.22             | 30.2            | 6.96           | 50.5                         |
| O              | 6.3   | 446   | 1.33         | 1.27               | 74.4                          | 39.3             | 8.53             | 31.6            | 7.05           | 50.8                         |
| P              | 6.4   | 444   | 7.1          | 1.285              | 75.4                          | 38.0             | 7.80             | 29.74           | 6.813          | 50.3                         |
| Q              | 6.67  | 431   | 1.31         | 1.35               | 78.99                         | 39.5             | 8.0              | 30.9            | 7.05           | 49.8                         |
| R              | 7.5   |       |              |                    |                               |                  |                  |                 |                | 19.31                        |
| S              | 6.5   | 445   |              | 1.27               | 77.2                          |                  |                  |                 |                | 50.5                         |
| T              | 6.8   | 446   | 1.35         |                    |                               | 40.4             | 8.22             | 30.8            | 6.88           | 50.7                         |
| U              | 6.314 | 452   | 2.64         | 1.22               | 74.4                          | 39.4             | 8.2              | 30.0            | 6.8            | 49.7                         |
| V              | 6.5   | 402   |              | 1.32               |                               |                  |                  |                 |                | 50.4                         |
| W              | 6.32  | 437   | 1.325        | 1.29               |                               | 39.71            | 8.13             | 33.19           | 7.07           | 48.19                        |
| X              |       |       |              |                    |                               |                  |                  |                 |                | 49.3                         |
| Y              |       |       |              |                    |                               |                  |                  |                 |                | >30                          |
| Z              | 6.39  | 444   | 1.29         | 1.33               | 78.09                         | 38.84            | 7.73             | 30.72           | 6.95           | 49.14                        |
| AA             | 6.6   | 446   | 1.31         | 1.25               | 76.3                          | 39.17            | 7.97             | 30.47           | 6.90           | 50.381                       |
| AB             | 6.24  | 447   |              | 1.30               | 76                            |                  |                  |                 |                | 48.7                         |
| AC             |       |       |              |                    |                               | 38.9             | 8.1              | 29.9            | 6.6            |                              |
| AD             |       |       |              |                    |                               |                  |                  |                 |                |                              |
| AE             | 6.39  | 442   | 1.32         | 1.31               | 80.1                          | 38.8             | 8.52             | 31.5            | 7.03           | 50.230                       |
| AF             | 6.33  | 441   | 1.29         | 1.28               | 75.01                         | 38.61            | 7.91             | 30.26           | 6.95           | 50.06                        |
| AG             | 6.3   | 444   | 1.28         | 1.26               | 77.0                          | 37.7             | 8.1              | 30.2            | 7.0            | 53.3                         |
| AH             | 6.59  | 445   | 1.29         | 1.28               | 75.0                          | 38.7             | 7.94             | 30.7            | 6.94           | 50.0                         |
| AI             | 6.31  | 437   | 1.40         | 1.28               | 75                            | 40.2             | 8.6              | 32.6            | 6.7            | 49.3                         |
| AJ             | 6.32  | 436   | 1.32         | 1.250              | 76.3                          | 39.6             | 8.0              | 32.1            | 6.0            | 51                           |
| AK             | 6.27  | 442   | 1.34         | 1.33               |                               | 38.6             | 8.0              | 30.9            | 6.9            | 50.4                         |
| AL             | 6.62  | 433.0 | 1.30         | 1.30               | 78.1                          | 39.22            | 8.0              | 30.5            | 6.75           | 46.5                         |
| AM             |       | 446.4 | 7.2          | 1.336              | 78.5                          | 38.4             | 8.1              | 30.8            | 7.20           | 40.8                         |
| AN             |       |       |              |                    |                               | 39.88            | 7.90             | 30.02           | 6.67           |                              |
| AO             | 6.32  | 442   | 1.31         | 1.29               | 78.7                          | 39.4             | 7.89             | 28.9            | 6.94           | 49.7                         |
| AP             | 6.6   | 444   | 1.29         | 1.25               | 76                            | 38.8             | 7.9              | 32.1            | 7.1            | 53                           |
| AQ             | 6.2   | 446   | 1.32         | 1.28               |                               | 38.7             | 8.56             | 31.5            | 7.06           | 51.3                         |
| AR             | 6.30  | 445   | 1.346        | 1.61               | 98                            | 39.87            | 8.49             | 31.54           | 7.01           | 51.79                        |
| AS             | 6.35  | 444   | 1.38         | 1.27               | 74                            | 41.7             | 8.35             | 32.1            | 7.11           | 50.6                         |
| AT             | 6.42  | 444   | 1.33         | 1.25               | 76                            | 39.82            | 7.97             | 29.99           | 7.01           | 50.2                         |
| AU             | 6.5   | 447   | 1.37         | 1.30               | 79                            | 41.1             | 8.5              | 32.0            | 7.2            | 51                           |
| AV             |       |       |              |                    |                               | 39.4             | 8.26             | 32.3            | 7.84           |                              |

### Measurement Uncertainties Sample N167B

|                | pH<br>± | Cond.<br>± | total-<br>Hardn.± | K <sub>S 4.3</sub><br>± | HCO <sub>3</sub> <sup>-</sup><br>± | Ca <sup>2+</sup><br>± | Mg <sup>2+</sup><br>± | Na <sup>+</sup><br>± | K <sup>+</sup><br>± | NO <sub>3</sub> <sup>-</sup><br>± |
|----------------|---------|------------|-------------------|-------------------------|------------------------------------|-----------------------|-----------------------|----------------------|---------------------|-----------------------------------|
| Unit           |         | µS/cm      | mmol/L            | mmol/L                  | mg/L                               | mg/L                  | mg/L                  | mg/L                 | mg/L                | mg/L                              |
| Target value   |         | 1          | 0.015             | 0.018                   | 1.1                                | 0.6                   | 0.10                  | 0.2                  | 0.04                | 1.2                               |
| IFA result     | 0.20    | 6          | 0.06              | 0.05                    | 3                                  | 1.9                   | 0.5                   | 1.5                  | 0.4                 | 3                                 |
| Stability test |         |            |                   |                         |                                    |                       |                       |                      |                     |                                   |
| A              | 0.19    | 24.8       | 0.13              | 0.076                   | 6.18                               | 3.81                  | 0.82                  | 3.1                  | 0.71                | 2.54                              |
| B              | 0.05    | 0.275      | 0.06              | 0.06                    |                                    | 0.06                  | 0.06                  |                      |                     | 0.06                              |
| C              | 0.3     | 18         | 0.1               | 0.1                     | 3                                  | 4                     | 1                     | 5                    | 1                   | 4                                 |
| D              | 0.65    | 45         | 0.26              | 0.13                    | 7.8                                | 7.5                   | 1.7                   | 6.3                  | 1.4                 | 7.3                               |
| E              | 0.36    | 15.1       | 0.096             | 0.10                    | 4.73                               | 2.86                  | 0.49                  | 2.74                 | 0.46                | 4.07                              |
| F              | 0.0648  | 0.197      | 0.0178            | 0.0746                  | 1.50                               | 0.704                 | 0.0672                | 0.237                | 0.351               | 0.894                             |
| G              | 0.12    | 11         | 0.17              | 0.05                    | 3                                  | 5.0                   | 0.92                  | 3.4                  | 0.87                | 2.5                               |
| H              | 0.64    | 26.40      | 0.104             | 0.12                    | 7.102                              | 2.54                  | 0.95                  | 1.99                 | 0.68                | 5.65                              |
| I              | 0.25    | 11         | 0.01              | 0.01                    | 1.5                                | 0.39                  | 0.08                  | 0.62                 | 0.41                | 2.41                              |
| J              | 0.07    | 9.2        | 0.11              | 0.06                    | 3.7                                | 2.1                   | 0.52                  | 2.4                  | 0.25                | 2.5                               |
| K              | 0.265   | 17.8       | 0.232             | 0.053                   | 3.09                               | 6.93                  | 1.42                  | 5.38                 | 1.24                | 4.42                              |
| L              | 0.083   | 14         | 0.10              | 0.039                   | 2.4                                | 3.0                   | 0.56                  | 2.1                  | 0.32                | 2.4                               |
| M              |         |            |                   |                         |                                    |                       |                       |                      |                     |                                   |
| N              | 0.2     | 46         | 0.14              | 0.13                    | 8.1                                | 4.1                   | 0.82                  | 3.0                  | 0.70                | 5.0                               |
| O              | 0.1     | 10         | 0.13              | 0.13                    | 7.4                                | 7.9                   | 1.7                   | 4.8                  | 1.4                 | 5.1                               |
| P              | 0.2     | 12         |                   | 0.086                   |                                    | 2.6                   | 0.7                   | 2.8                  | 0.7                 | 5.2                               |
| Q              |         | 9          | 0.11              | 0.12                    | 7.11                               | 4.0                   | 1.0                   | 1.55                 | 0.35                | 1.5                               |
| R              | 0.03    |            |                   |                         |                                    |                       |                       |                      |                     | 0.20                              |
| S              | 0.1     | 12.5       |                   | 0.03                    | 1.6                                |                       |                       |                      |                     | 2.2                               |
| T              | 0.34    | 22.3       | 0.203             |                         |                                    | 6.06                  | 0.822                 | 4.62                 | 1.03                | 5.07                              |
| U              | 0.208   | 13.1       |                   | 0.061                   |                                    | 5.91                  | 1.23                  | 4.5                  | 1.02                | 7.455                             |
| V              | 0.1     |            |                   |                         |                                    |                       |                       |                      |                     | 1.13                              |
| W              | 0.02    | 30         | 0.05              | 0.02                    |                                    | 0.6                   | 0.6                   | 0.3                  | 0.06                | 0.5                               |
| X              |         |            |                   |                         |                                    |                       |                       |                      |                     | 0.5                               |
| Y              |         |            |                   |                         |                                    |                       |                       |                      |                     |                                   |
| Z              | 0.1     | 4.51       |                   | 0.13                    |                                    | 3.8                   | 0.8                   | 3.1                  | 0.7                 | 4.9                               |
| AA             | 0.2     | 44.6       |                   | 0.188                   | 11.4                               | 3.917                 | 0.797                 | 3.047                | 0.690               | 2.0153                            |
| AB             | 0.0084  | 3.17       |                   | 0.037                   | 1.10                               |                       |                       |                      |                     | 3.34                              |
| AC             |         |            |                   |                         |                                    |                       |                       |                      |                     |                                   |
| AD             |         |            |                   |                         |                                    |                       |                       |                      |                     |                                   |
| AE             | 0.010   | 1          | 0.017             | 0.006                   | 0.153                              | 0.872                 | 0.134                 | 0.351                | 0.115               | 0.766                             |
| AF             | 0.25    | 9.7        | 0.03              | 0.03                    | 1.58                               | 1.51                  | 0.37                  | 1.45                 | 0.44                | 3.35                              |
| AG             | 0.2     | 18         | 0.068             | 0.09                    | 5.7                                | 1.8                   | 0.5                   | 1.5                  | 0.3                 | 5.1                               |
| AH             | 0.30    | 13         | 0.11              | 0.06                    | 3.0                                | 2.0                   | 0.48                  | 1.2                  | 0.56                | 3.0                               |
| AI             | 0.20    | 43.7       | 0.14              | 0.13                    | 4                                  | 2.0                   | 0.4                   | 3.3                  | 0.7                 | 3.3                               |
| AJ             | 0.05    | 10         | 0.11              | 0.055                   | 3.4                                | 1.8                   | 0.3                   | 1.4                  | 0.3                 | 2                                 |
| AK             | 0.090   | 22.1       | 0.07              | 0.07                    |                                    | 1.16                  | 0.27                  | 0.40                 | 0.21                | 1.30                              |
| AL             | 0.2     | 20         | 0.13              | 0.13                    | 8.0                                | 4.0                   | 0.8                   | 3                    | 0.6                 | 4                                 |
| AM             |         |            |                   |                         |                                    |                       |                       |                      |                     |                                   |
| AN             |         |            |                   |                         |                                    | 1.65                  | 0.58                  | 1.81                 | 0.22                |                                   |
| AO             | 0.19    | 13         | 0.20              | 0.10                    | 6.3                                | 5.9                   | 0.95                  | 3.8                  | 1.0                 | 5.0                               |
| AP             | 0.2     | 22         | 0.13              | 0.13                    |                                    | 3.9                   | 0.8                   | 3.2                  | 0.7                 | 5.3                               |
| AQ             | 0.1     | 10         | 0.27              | 0.13                    |                                    | 7.9                   | 1.7                   | 4.8                  | 1.4                 | 5.1                               |
| AR             |         |            |                   |                         |                                    |                       |                       |                      |                     |                                   |
| AS             |         |            |                   |                         |                                    |                       |                       |                      |                     |                                   |
| AT             | 0.31    | 14.0       | 0.20              | 0.42                    | 25.8                               | 3.32                  | 0.642                 | 2.27                 | 0.708               | 5.35                              |
| AU             | 0.2     | 9          | 0.09              | 0.07                    | 6                                  | 3.3                   | 0.7                   | 1.9                  | 0.8                 | 4                                 |
| AV             |         |            |                   |                         |                                    | 3.21                  | 0.927                 | 1.53                 | 0.714               |                                   |

## Results Sample N167B

|                | <b>NO<sub>2</sub><sup>-</sup></b> | <b>NH<sub>4</sub><sup>+</sup></b> | <b>Cl<sup>-</sup></b> | <b>SO<sub>4</sub><sup>2-</sup></b> | <b>o-PO<sub>4</sub><sup>3-</sup></b> | <b>Boron</b> | <b>DOC</b> | <b>total-P<br/>(as PO<sub>4</sub><sup>3-</sup>)</b> | <b>KMnO<sub>4</sub>-<br/>index</b> |
|----------------|-----------------------------------|-----------------------------------|-----------------------|------------------------------------|--------------------------------------|--------------|------------|---|------------------------------------|
| Unit           | mg/L                              | mg/L                              | mg/L                  | mg/L                               | mg/L                                 | mg/L         | mg/L       | mg/L  | mg/L                               |
| Target value   | 0.0203                            | <0.01                             | 28.6                  | 58.9                               | 0.061                                | 0.0544       | 4.88       | 0.187   | 5.64                               |
| IFA result     | 0.0195                            | <0.01                             | 28.1                  | 58.8                               | 0.062                                | 0.051        | 4.73       | 0.209   | 5.73                               |
| Stability test | 0.0203                            | <0.01                             |                       |                                    | 0.061                                |              | 5.06       |   | 5.62                               |
| A              | 0.0220                            | <0.01                             | 28.98                 | 59.73                              | 0.0590                               | 0.0534       | 4.77       | 0.189   | 5.63                               |
| B              |                                   |                                   | 30.3                  | 63                                 |                                      |              |            |   | 5.814                              |
| C              | 0.0210                            | <0.013                            | 29.2                  | 60.5                               | 0.061                                |              | 5.03       | 0.185   |                                    |
| D              | 0.0203                            | <0.01                             | 28.3                  | 53.8                               | <0.1                                 | 0.0473       | 5.53       | 179   |                                    |
| E              | <0.03                             | <0.04                             | 28.4                  | 58.9                               | 0.0642                               | 0.0597       | 5.11       | 0.0632  | 5.45                               |
| F              | 0.0212                            | [0.0015]                          | 28.1                  | 59.1                               | 0.0624                               | 0.0537       | 4.84       | 0.187   | 6.00                               |
| G              | <0.0328                           | <0.0515                           | 27.9                  | 56.1                               | <0.061                               |              | 5.67       | 0.172   | 5.69                               |
| H              | 0.0180                            | <0.04                             | 30.4                  | 59.1                               | 0.063                                | 0.0456       | 4.89       | <0.060  |                                    |
| I              | 0.0200                            | <0.01                             | 26.50                 | 57.12                              | 0.067                                |              | 6.570      | 0.175   | 5.827                              |
| J              | 0.0300                            | <0.01                             | 28.3                  | 59                                 | 0.068                                |              | 5.9        | 0.117   | 6.7                                |
| K              | 0.0213                            | <0.01                             | 27.1                  | 56.3                               | 0.0651                               | 0.053        | 4.93       | 0.187   | 6.27                               |
| L              | 0.0190                            | <0.01                             | 28.1                  | 59                                 | 0.060                                |              | 4.58       | <0.15   | 6.03                               |
| M              | 0.0200                            | <0.01                             | 27.9                  | 58.3                               | 0.0630                               | 0.0633       | 5.18       |   | 3.49                               |
| N              | 0.0220                            | <0.01                             | 29.2                  | 57.4                               | 0.0660                               | 0.0500       | 5.15       | 0.185   | 5.97                               |
| O              | 0.0205                            | <0.0100                           | 27.5                  | 58.9                               | 0.0611                               | 0.0543       | 5.07       | 0.1845  |                                    |
| P              | 0.0207                            | <0.05                             | 27.3                  | 59.0                               |                                      | 0.057        | 4.98       | 0.196   |                                    |
| Q              | 0.0210                            | <0.040                            | 28.0                  | 57.4                               | 0.058                                | 0.062        | 4.90       | 0.210   | 5.55                               |
| R              | 0.423                             | 0.061                             | 16.25                 | 56.28                              | 0.69                                 |              |            |   |                                    |
| S              | 0.0210                            | <0.047                            | 28.5                  | 58.3                               |                                      |              |            |   |                                    |
| T              | 0.0160                            | <0.01                             | 28.4                  | 58.1                               | 0.055                                | 0.055        | 4.93       | 0.212   |                                    |
| U              | 0.0207                            | <0.01                             | 28.2                  | 58.25                              | 0.052                                | 0.051        | 5.327      | 0.183   |                                    |
| V              | 0.0215                            | <0.01                             | 28.1                  | 60.9                               | 0.0272                               |              |            | 0.072   |                                    |
| W              | 0.0160                            | <0.03                             | 29.48                 | 59.78                              |                                      |              | 5.00       |   |                                    |
| X              |                                   |                                   | 27.59                 |                                    |                                      |              |            |   |                                    |
| Y              |                                   | <0.01                             |                       |                                    | 0.059                                |              |            | 0.171   |                                    |
| Z              | 0.0210                            | <0.007                            | 27.50                 | 55.61                              | 0.058                                | 0.052        | 4.96       | 0.164   |                                    |
| AA             | 0.0200                            | <0.0052                           | 28.71                 | 59.55                              | 0.058                                | 0.060        | 5.20       | 0.178   | 5.50                               |
| AB             | 0.0216                            | 0.0220                            | 28.7                  |                                    | 0.058                                |              |            | 0.184   |                                    |
| AC             |                                   | <0.0500                           |                       |                                    | 0.0600                               | 0.0485       | 4.90       |   | 5.77                               |
| AD             |                                   |                                   |                       |                                    |                                      |              |            |   | 5.55                               |
| AE             | 0.0180                            | <0.015                            | 27.875                | 58.325                             | 0.0610                               | 0.0526       | 4.78       | 0.170   | 5.43                               |
| AF             | 0.0201                            | <0.003                            | 28.45                 | 57.69                              |                                      |              | 5.014      |   | 5.38                               |
| AG             | 0.0213                            | <0.010                            | 34.0                  | 61.4                               | 0.061                                | 0.0548       | 5.1        | 0.178   |                                    |
| AH             | 0.0208                            | <0.008                            | 28.8                  | 59.1                               | 0.061                                | 0.052        | 4.71       | 0.188   |                                    |
| AI             | 0.0213                            | <0.01                             | 27.6                  | 60.0                               | 0.063                                | 0.053        | 4.77       | 0.184   | 6.1                                |
| AJ             | 0.0200                            | <0.02                             | 28.9                  | 61                                 | 0.058                                |              | 5.0        | 0.178   | 5.8                                |
| AK             | 0.0203                            | <0.012                            | 28.4                  | 58.4                               | 0.061                                | 0.0476       |            | 0.181   |                                    |
| AL             | 0.017                             | <0.04                             | 26.5                  | 54.0                               | 0.056                                | 0.057        | 4.6        | 0.162   | 5.43                               |
| AM             | 0.0220                            | <0.03                             | 28.9                  | 60.1                               | 0.052                                | 0.054        | 5.1        | 0.184   | 6.10                               |
| AN             |                                   | <0.040                            |                       |                                    | 0.0210                               |              |            | 0.1333  |                                    |
| AO             | 0.0186                            | <0.01                             | 29.6                  | 60.0                               | 0.0595                               | 0.0566       | 5.19       | 0.184   | 5.64                               |
| AP             | 0.0172                            | <0.01                             | 28.7                  | 60                                 |                                      |              |            |   | 5.45                               |
| AQ             | 0.0204                            | <0.010                            | 27.8                  | 59.9                               |                                      | 0.0543       |            |   | 5.34                               |
| AR             | 0.060                             | 0.0100                            | 28.43                 | 59.85                              | 0.057                                | 0.0496       | 4.89       |   | 4.96                               |
| AS             | 0.0205                            | <0.01                             | 28.8                  | 60.4                               | 0.058                                | 0.056        | 5.067      | 0.178   | 4.71                               |
| AT             | 0.0220                            | 0.0270                            | 28.2                  | 57.5                               | 0.128                                | 0.0548       | 5.15       | 0.183   | 2.23                               |
| AU             | 0.0210                            | <0.02                             | 27.7                  | 59                                 | 0.060                                |              | 4.75       | 0.169   | 5.7                                |
| AV             |                                   |                                   |                       |                                    |                                      |              |            |   |                                    |

### Measurement Uncertainties Sample N167B

|                | $\text{NO}_2^-$<br>± | $\text{NH}_4^+$<br>± | $\text{Cl}^-$<br>± | $\text{SO}_4^{2-}$<br>± | $\text{o-PO}_4^{3-}$<br>± | Boron<br>± | DOC<br>± | total-P<br>(as $\text{PO}_4^{3-}$ ) ± | KMnO <sub>4</sub> -<br>Index ± |
|----------------|----------------------|----------------------|--------------------|-------------------------|---------------------------|------------|----------|---------------------------------------|--------------------------------|
| Unit           | mg/L                 | mg/L                 | mg/L               | mg/L                    | mg/L                      | mg/L       | mg/L     | mg/L                                  |                                |
| Target value   | 0.0018               |                      | 0.4                | 0.4                     | 0.001                     | 0.0004     | 0.05     | 0.003                                 | 0.15                           |
| IFA result     | 0.0010               |                      | 1.1                | 1.4                     | 0.001                     | 0.004      | 0.09     | 0.024                                 | 0.85                           |
| Stability test | 0.0010               |                      |                    |                         | 0.001                     |            | 0.10     |                                       | 0.84                           |
| A              | 0.002                |                      | 1.45               | 2.99                    | 0.006                     | 0.005      | 0.954    | 0.019                                 | 0.89                           |
| B              |                      |                      | 1.074              | 7.4                     |                           |            |          |                                       | 0.588                          |
| C              | 0.002                |                      | 2                  | 4                       | 0.008                     |            | 0.8      | 0.02                                  |                                |
| D              | 0.0031               |                      | 4.2                | 8.1                     |                           | 0.0095     | 1.66     | 36                                    |                                |
| E              |                      |                      | 0.91               | 2.65                    | 0.0038                    | 0.0055     | 0.77     | 0.0078                                | 0.764                          |
| F              | 0.00090              |                      | 0.651              | 1.05                    | 0.00150                   | 0.00172    | 0.0844   | 0.00140                               |                                |
| G              | 0.0011               | 0.003                | 1.3                | 2.6                     | 0.005                     |            | 0.34     | 0.014                                 | 0.57                           |
| H              | 0.00180              |                      | 2.74               | 5.32                    | 0.0063                    | 0.00639    | 0.29     |                                       |                                |
| I              | 0.0020               |                      | 1.59               | 1.71                    | 0.008                     |            | 0.986    | 0.011                                 | 0.699                          |
| J              | 0.0044               |                      | 2.2                | 3.6                     | 0.0058                    |            | 0.99     | 0.015                                 | 0.42                           |
| K              | 0.002                |                      | 2.44               | 5.07                    | 0.006                     | 0.010      | 0.444    | 0.007                                 | 0.564                          |
| L              | 0.0010               |                      | 1.3                | 3.1                     | 0.003                     |            | 0.98     |                                       | 0.60                           |
| M              |                      |                      |                    |                         |                           |            |          |                                       |                                |
| N              | 0.0022               |                      | 2.9                | 5.7                     | 0.0066                    | 0.0050     | 0.52     | 0.037                                 | 1.19                           |
| O              | 0.0038               |                      | 2.8                | 5.9                     | 0.0127                    |            | 0.51     | 0.0384                                |                                |
| P              | 0.0045               |                      | 3.8                | 5.6                     |                           | 0.006      | 0.92     | 0.020                                 |                                |
| Q              | 0.002                |                      | 0.8                | 1.7                     | 0.006                     | 0.0062     | 0.98     | 0.0315                                | 0.56                           |
| R              | 0.011                | 0.013                | 1.87               | 1.61                    | 0.05                      |            |          |                                       |                                |
| S              | 0.0014               |                      | 2.08               | 1.6                     |                           |            |          |                                       |                                |
| T              | 0.0008               |                      | 2.84               | 5.81                    | 0.0083                    | 0.0028     | 0.986    | 0.042                                 |                                |
| U              | 0.0041               |                      | 4.23               | 8.738                   | 0.006                     | 0.02       | 1.332    | 0.022                                 |                                |
| V              | 0.001                |                      | 0.73               |                         |                           |            |          | 0.003                                 |                                |
| W              | 0.015                | 0.080                | 0.25               | 3.0                     |                           |            | 0.03     |                                       |                                |
| X              |                      |                      | 0.3                |                         |                           |            |          |                                       |                                |
| Y              |                      |                      |                    |                         | 0.00120                   |            |          | 0.0128                                |                                |
| Z              | 0.002                |                      | 2.8                | 5.6                     | 0.006                     | 0.0052     | 0.5      | 0.016                                 |                                |
| AA             | 0.00300              |                      | 1.436              | 2.978                   | 0.0087                    | 0.0072     | 0.420    | 0.0267                                | 0.880                          |
| AB             | 0.0022               | 0.0033               | 0.29               |                         | 0.007                     |            |          | 0.024                                 |                                |
| AC             |                      | 0.00470              |                    |                         | 0.0169                    |            | 1.23     |                                       | 1.33                           |
| AD             |                      |                      |                    |                         |                           |            |          |                                       |                                |
| AE             | 0.001                |                      | 0.128              | 0.215                   | 0.002                     | 0.001      | 0.053    | 0.001                                 | 0.075                          |
| AF             | 0.001                | 0.000                | 1.34               | 2.88                    |                           |            | 0.87     |                                       | 1.14                           |
| AG             | 0.0033               |                      | 2.7                | 4.8                     | 0.009                     | 0.0058     | 1.0      | 0.018                                 |                                |
| AH             | 0.0020               |                      | 1.5                | 3.6                     | 0.004                     | 0.005      | 0.42     | 0.013                                 |                                |
| AI             | 0.0064               |                      | 1.4                | 3.0                     | 0.009                     | 0.011      | 0.48     | 0.020                                 | 0.92                           |
| AJ             | 0.0015               |                      | 1.1                | 3                       | 0.005                     |            | 0.7      | 0.038                                 | 0.8                            |
| AK             | 0.0010               |                      | 0.83               | 1.61                    | 0.005                     | 0.0051     |          | 0.009                                 |                                |
| AL             | 0.002                |                      | 2.5                | 5                       | 0.006                     | 0.006      | 0.5      | 0.016                                 | 0.5                            |
| AM             |                      |                      |                    |                         |                           |            |          |                                       |                                |
| AN             |                      | 0.003                |                    |                         | 0.0001                    |            |          | 0.0066                                |                                |
| AO             | 0.0020               |                      | 3.0                | 9.6                     | 0.0048                    | 0.0074     | 1.0      | 0.015                                 | 0.85                           |
| AP             |                      |                      | 2.9                | 6.0                     |                           |            |          |                                       | 0.55                           |
| AQ             | 0.010                |                      | 2.8                | 6.0                     |                           | 0.014      |          |                                       | 1.34                           |
| AR             |                      |                      |                    |                         |                           |            |          |                                       |                                |
| AS             |                      |                      |                    |                         |                           |            |          |                                       |                                |
| AT             | 0.003                | 0.004                | 1.61               | 5.28                    | 0.026                     | 0.00548    | 0.231    | 0.038                                 | 0.53                           |
| AU             | 0.003                |                      | 2.2                | 4                       | 0.005                     |            | 1.19     | 0.015                                 | 0.4                            |
| AV             |                      |                      |                    |                         |                           |            |          |                                       |                                |

**z- Scores Sample N167A**

|    | Cond. | total-Hardn. | K <sub>S 4.3</sub> | HCO <sub>3</sub> <sup>-</sup> | Ca <sup>2+</sup> | Mg <sup>2+</sup> | Na <sup>+</sup> | K <sup>+</sup> | NO <sub>3</sub> <sup>-</sup> |
|----|-------|--------------|--------------------|-------------------------------|------------------|------------------|-----------------|----------------|------------------------------|
| A  | 0.61  | -0.74        | 1.65               | 1.21                          | -1.04            | 0.62             | 0.41            | 0.30           | 0.11                         |
| B  | -3.02 | -0.18        | -0.38              |                               | 0.50             | -2.59            |                 |                | -0.43                        |
| C  | -0.46 | 0.00         | -1.34              | -1.15                         | -0.05            | -0.24            | -0.25           | 0.50           | 0.61                         |
| D  | 0.15  | -1.29        | -1.12              | 0.03                          | -1.98            | 1.35             | 1.13            | -0.87          | -0.78                        |
| E  | 0.15  | -2.39        | 0.45               | 1.21                          | -1.30            | -2.41            | -0.38           | -3.17          | -0.61                        |
| F  | 0.00  | 0.55         | -0.67              | -0.56                         | 0.94             | -1.30            | 0.88            | 0.77           | -0.78                        |
| G  | -2.91 | 0.18         | -3.57              | -2.04                         | -0.94            | -2.09            | -3.14           | -1.16          | 7.63                         |
| H  | -0.15 | 1.84         | -1.12              | -0.86                         | 2.18             | -0.24            | -0.75           | 0.77           | 1.73                         |
| I  | 0.77  | -0.18        | 0.22               | -0.18                         | -0.46            | -0.26            | -0.58           | -0.32          | -1.52                        |
| J  | -1.53 | 0.55         | -0.67              | 0.33                          | 0.47             | 0.56             | 0.00            | 1.03           | -0.35                        |
| K  | 0.31  | -0.55        | 0.00               | 0.03                          | -0.36            | -0.77            | -0.50           | -0.37          | -1.65                        |
| L  | 1.23  | -1.66        | -1.34              | 0.56                          | -1.61            | -0.50            | -1.76           | -0.03          | 1.99                         |
| M  | -0.92 | -2.41        | -1.34              | -0.18                         | -2.39            | -1.30            | -2.01           | -1.69          | -1.56                        |
| N  | 1.84  | -0.74        | 0.67               | 1.51                          | -0.68            | -0.77            | -0.75           | 0.00           | -0.26                        |
| O  | 0.15  | 0.00         | -1.56              | -0.35                         | -0.62            | 1.35             | 0.75            | 0.24           | -0.69                        |
| P  | -0.15 | 161.27       | -0.58              | -0.56                         | -0.47            | -0.98            | -1.46           | -1.11          | -0.69                        |
| Q  | -2.45 | 0.00         | 0.89               | 0.77                          | -0.62            | 1.62             | 0.13            | 0.18           | -0.87                        |
| R  |       |              |                    |                               |                  |                  |                 |                | -13.74                       |
| S  | 0.15  |              | -1.12              | 0.03                          |                  |                  |                 |                | -0.26                        |
| T  | 0.61  | 0.55         |                    |                               | 0.52             | 0.03             | 0.38            | -0.21          | -0.43                        |
| U  | 1.23  | 35.71        | -2.45              | -1.15                         | -0.16            | 0.29             | -0.88           | -0.82          | -0.87                        |
| V  | -9.19 |              | -2.01              |                               |                  |                  |                 |                | -0.35                        |
| W  | -0.92 | 0.22         | -0.45              |                               | 0.16             | 0.05             | 2.43            | 0.29           | -1.60                        |
| X  |       |              |                    |                               |                  |                  |                 |                | -1.55                        |
| Y  |       |              |                    |                               |                  |                  |                 |                |                              |
| Z  | 0.00  | 0.92         | -2.01              | -1.61                         | 0.95             | 0.13             | 1.10            | 1.14           | -1.80                        |
| AA | 0.31  | -0.37        | -1.78              | -0.53                         | -0.27            | -0.45            | -0.30           | -0.32          | -0.43                        |
| AB | 0.31  |              | 0.22               | 0.03                          |                  |                  |                 |                | -1.39                        |
| AC |       |              |                    |                               | -1.09            | 0.29             | -0.75           | -0.82          |                              |
| AD |       |              |                    |                               |                  |                  |                 |                |                              |
| AE | -0.61 | 0.37         | 0.00               | 0.92                          | 0.10             | 1.09             | 0.00            | -0.42          | -0.43                        |
| AF | -0.61 | -0.37        | -1.12              | -0.91                         | -0.29            | -0.40            | -0.54           | 0.05           | -0.60                        |
| AG | -0.15 | -0.18        | -1.34              | -0.18                         | -0.26            | -0.24            | -0.75           | -0.03          | 0.95                         |
| AH | 0.00  | -0.37        | -0.89              | -0.86                         | -0.42            | -0.50            | -0.13           | -0.08          | -0.95                        |
| AI | -0.77 | 1.10         | -1.12              | -0.86                         | 0.83             | 1.62             | 1.38            | -0.29          | -1.47                        |
| AJ | -1.38 | 0.18         | -1.56              | -0.27                         | -0.05            | 1.09             | 0.88            | -5.31          | -0.17                        |
| AK | -0.46 | 0.37         | 1.34               |                               | -0.73            | -0.50            | -0.25           | -0.29          | -0.52                        |
| AL | -1.99 | -0.37        | 0.89               | 1.64                          | -0.11            | -0.77            | 0.13            | -1.06          | -4.08                        |
| AM | 0.26  | 163.11       | 0.80               | 0.65                          | -0.62            | 0.56             | -0.13           | 1.03           | -0.09                        |
| AN |       |              |                    |                               | -0.54            | -0.74            | -0.90           | -1.16          |                              |
| AO | -0.61 | -0.18        | -1.12              | 0.03                          | 0.00             | -0.77            | -1.26           | 0.37           | -1.39                        |
| AP | 0.31  | -0.92        | -0.45              | 0.62                          | 0.47             | 0.03             | 1.88            | 0.77           | 1.30                         |
| AQ | 0.00  | 0.00         | -1.34              |                               | -0.57            | 1.35             | 0.88            | 0.18           | -0.52                        |
| AR | 0.00  | 1.22         | 6.24               | 5.94                          | 0.66             | 1.72             | 1.08            | 0.32           | 0.26                         |
| AS | -0.46 | 0.18         | -1.12              | -0.86                         | 0.10             | -0.24            | -0.63           | -0.34          | -0.43                        |
| AT | 0.15  | 0.74         | -1.78              | -0.56                         | 0.03             | -0.53            | -0.64           | 0.45           | -0.69                        |
| AU | 0.61  | 1.84         | -0.67              | 0.33                          | 1.51             | 1.35             | 0.88            | 0.50           | -1.13                        |
| AV |       |              |                    |                               | -0.31            | 0.56             | 0.00            | 0.11           |                              |

**z-Scores Sample N167A**

|    | NO <sub>2</sub> <sup>-</sup> | NH <sub>4</sub> <sup>+</sup> | Cl <sup>-</sup> | SO <sub>4</sub> <sup>2-</sup> | o-PO <sub>4</sub> <sup>3-</sup> | Boron | DOC   | total-P<br>(as PO <sub>4</sub> <sup>3-</sup> ) | KMnO <sub>4</sub> <sup>-</sup><br>index |
|----|------------------------------|------------------------------|-----------------|-------------------------------|---------------------------------|-------|-------|--|---|
| A  | 0.73                         | 0.00                         | 0.36            | 0.24                          |                                 | -0.70 | 1.57  |  | -0.23                                   |
| B  |                              |                              | 1.13            | 0.28                          |                                 |       |       |  | 0.99                                    |
| C  | 0.73                         | -0.26                        | 1.07            | 0.74                          |                                 |       | 1.47  |  |   |
| D  | -0.73                        | 0.00                         | -2.39           | 0.56                          |                                 | -0.92 | 4.31  |  |   |
| E  | -0.18                        | -0.55                        | -0.06           | -0.09                         |                                 | -0.95 | 7.25  |  | -0.06                                   |
| F  | 0.83                         | 1.19                         | -0.19           | -0.46                         |                                 | 0.16  | 0.20  |  | 0.83                                    |
| G  | 4.08                         | 86.23                        | -1.57           | -2.79                         |                                 |       | 2.74  |  | -0.06                                   |
| H  | -1.24                        | 0.99                         | 2.77            | -0.74                         |                                 | -0.70 | 0.10  |  |   |
| I  | -0.18                        | -1.43                        | -2.63           | -0.50                         |                                 |       | 15.95 |  | -0.19                                   |
| J  | 7.61                         | -4.16                        | 0.76            | 0.00                          |                                 |       | 9.01  |  | 1.05                                    |
| K  | -0.46                        | 0.66                         | -1.51           | -1.86                         |                                 | -0.60 | 2.06  |  | 0.94                                    |
| L  | -0.64                        | 0.00                         | 2.64            | 1.86                          |                                 |       | -1.76 |  | 0.74                                    |
| M  | -0.64                        | 0.26                         | -1.01           | -0.84                         |                                 | -0.16 | 3.53  |  | -2.14                                   |
| N  | 0.28                         | -1.32                        | -0.50           | -0.28                         |                                 | -1.35 | 3.14  |  | 0.31                                    |
| O  | -0.14                        | -0.58                        | -0.38           | -0.56                         |                                 | -0.38 | 1.18  |  |   |
| P  | 0.09                         | 2.21                         | -0.50           | -0.19                         |                                 | 0.38  | 0.29  |  |   |
| Q  | 0.28                         | 0.65                         | -0.76           | -0.46                         |                                 | 1.95  | 0.39  |  | -0.14                                   |
| R  | 348.18                       | -0.26                        | -6.23           | -3.42                         |                                 |       |       |  |   |
| S  | -0.18                        | -1.43                        | -0.31           | 0.00                          |                                 |       | 1.67  |  |   |
| T  | -2.02                        | 0.26                         | -0.13           | -0.46                         |                                 | -0.16 | 1.67  |  |   |
| U  | 0.41                         | -1.45                        | -0.31           | -0.28                         |                                 | -1.35 | 2.61  |  |   |
| V  | 0.50                         | 0.52                         | -0.31           | 0.56                          |                                 |       |       |  |   |
| W  | -4.13                        | 0.45                         | 1.01            | 0.32                          |                                 |       | 3.04  |  |   |
| X  |                              |                              | -1.38           |                               |                                 |       |       |  |   |
| Y  |                              | -0.96                        |                 |                               |                                 |       |       |  |   |
| Z  | 0.28                         | -0.78                        | -1.89           | -2.99                         |                                 | 0.38  | 1.37  |  |   |
| AA | -0.64                        | -0.26                        | 0.17            | 1.08                          |                                 | 1.25  | 1.08  |  | -0.31                                   |
| AB | 0.32                         | 1.30                         | 0.13            |                               |                                 |       |       |  |   |
| AC |                              | -0.32                        |                 |                               |                                 | -0.38 | 1.37  |  | -0.14                                   |
| AD |                              |                              |                 |                               |                                 |       |       |  | -0.60                                   |
| AE | -0.92                        | -1.13                        | -0.36           | -0.13                         |                                 | -1.57 | -1.27 |  | -0.57                                   |
| AF | -0.05                        | -1.06                        | -0.25           | -0.65                         |                                 |       | 0.64  |  | -0.14                                   |
| AG | 0.37                         | 0.71                         | 1.38            | 1.30                          |                                 | -0.05 | 0.88  |  |   |
| AH | 0.78                         | 0.13                         | 0.25            | 0.65                          |                                 | -0.81 | -0.10 |  |   |
| AI | 0.32                         | 0.52                         | -0.50           | 0.93                          |                                 | -0.38 | 0.39  |  | 0.46                                    |
| AJ | -0.37                        | -1.30                        | 0.76            | 1.12                          |                                 |       | 1.47  |  | 0.11                                    |
| AK | -0.14                        | 1.43                         | -0.57           | -0.28                         |                                 | -1.90 |       |  |   |
| AL | -2.02                        | -0.26                        | -1.13           | -1.77                         |                                 | 0.38  | 1.08  |  | -1.31                                   |
| AM | 0.73                         | 0.00                         | 1.13            | 0.65                          |                                 | -0.16 | 2.06  |  | 1.97                                    |
| AN |                              | -0.65                        |                 |                               |                                 |       |       |  |   |
| AO | -0.55                        | -0.10                        | 0.76            | -1.02                         |                                 | 0.60  | 3.23  |  | 0.34                                    |
| AP | -1.56                        | 0.26                         | 0.13            | -2.23                         |                                 |       |       |  | 0.20                                    |
| AQ | 0.00                         | -0.42                        | -0.19           | -0.37                         |                                 | -0.49 |       |  | -0.40                                   |
| AR | 18.15                        | 1.30                         | 0.43            | 0.48                          |                                 | -0.63 | 0.49  |  | 0.71                                    |
| AS | 0.37                         | 0.65                         | -1.01           | 1.02                          |                                 | -0.05 | 0.28  |  | -1.48                                   |
| AT | 0.28                         | 3.12                         | -0.82           | -0.65                         |                                 | -0.38 | 4.90  |  | -5.16                                   |
| AU | 0.73                         | 0.39                         | -0.50           | -0.74                         |                                 |       | 0.10  |  | -0.60                                   |
| AV |                              |                              |                 |                               |                                 |       |       |  |   |

## z-Scores Sample N167B

|    | Cond. | total-Hardn. | K <sub>S 4.3</sub> | HCO <sub>3</sub> <sup>-</sup> | Ca <sup>2+</sup> | Mg <sup>2+</sup> | Na <sup>+</sup> | K <sup>+</sup> | NO <sub>3</sub> <sup>-</sup> |
|----|-------|--------------|--------------------|-------------------------------|------------------|------------------|-----------------|----------------|------------------------------|
| A  | 0.38  | -0.84        | 0.85               | 0.71                          | -1.17            | 0.61             | 0.18            | 0.27           | -0.26                        |
| B  | -3.08 | -0.03        | -0.33              |                               | 0.34             | -1.49            |                 |                | -0.50                        |
| C  | -0.19 | -0.30        | -1.26              | -1.04                         | -0.24            | -0.25            | -0.10           | 0.43           | 0.69                         |
| D  | 0.38  | -1.11        | -0.57              | 1.26                          | -1.82            | 1.17             | 0.71            | -0.67          | -1.57                        |
| E  | 0.00  | -3.00        | 1.06               | 2.36                          | -1.50            | -2.90            | -0.30           | -2.57          | -0.63                        |
| F  | 0.38  | -0.03        | -0.57              | -0.44                         | 0.55             | -1.27            | 0.61            | 0.73           | -0.44                        |
| G  | -3.57 | 0.24         | -1.79              | 0.22                          | -0.95            | -1.45            | -2.54           | -1.03          | 10.19                        |
| H  | -0.75 | 1.60         | -0.57              | -0.60                         | 2.21             | -0.60            | -0.20           | -0.60          | 1.57                         |
| I  | 0.94  | -0.30        | 1.06               | 0.71                          | -0.44            | 0.18             | -0.01           | -0.20          | -1.96                        |
| J  | -3.19 | 0.51         | 2.28               | 3.35                          | 0.39             | 0.46             | 0.20            | 0.40           | -0.19                        |
| K  | 0.19  | -0.84        | 1.06               | 0.71                          | -0.87            | -0.57            | -0.91           | -0.33          | -1.38                        |
| L  | 1.31  | -1.92        | -0.16              | 1.54                          | -2.21            | -0.25            | -1.62           | 0.07           | -0.19                        |
| M  | 0.00  | -2.65        | 1.06               | 2.53                          | -2.60            | -1.31            | -1.52           | 0.73           | -1.07                        |
| N  | 2.25  | 1.05         | 1.06               | 2.64                          | 0.95             | 0.53             | -0.61           | -0.07          | -0.50                        |
| O  | 0.38  | 0.24         | -0.98              | -0.82                         | -0.24            | 1.63             | 0.81            | 0.23           | -0.31                        |
| P  | 0.00  | 156.24       | -0.37              | -0.27                         | -1.26            | -0.96            | -1.08           | -0.56          | -0.63                        |
| Q  | -2.44 | -0.30        | 2.28               | 1.70                          | -0.08            | -0.25            | 0.10            | 0.23           | -0.94                        |
| R  |       |              |                    |                               |                  |                  |                 |                | -20.12                       |
| S  | 0.19  |              | -0.98              | 0.71                          |                  |                  |                 |                | -0.50                        |
| T  | 0.38  | 0.78         |                    |                               | 0.63             | 0.53             | 0.00            | -0.33          | -0.38                        |
| U  | 1.50  | 35.66        | -3.01              | -0.82                         | -0.16            | 0.46             | -0.81           | -0.60          | -1.01                        |
| V  | -7.88 |              | 1.06               |                               |                  |                  |                 |                | -0.57                        |
| W  | -1.31 | 0.11         | -0.16              |                               | 0.09             | 0.21             | 2.42            | 0.30           | -1.96                        |
| X  |       |              |                    |                               |                  |                  |                 |                | -1.26                        |
| Y  |       |              |                    |                               |                  |                  |                 |                |                              |
| Z  | 0.00  | -0.84        | 1.46               | 1.20                          | -0.60            | -1.20            | -0.08           | -0.10          | -1.36                        |
| AA | 0.38  | -0.30        | -1.79              | 0.22                          | -0.34            | -0.35            | -0.33           | -0.27          | -0.58                        |
| AB | 0.56  |              | 0.24               | 0.05                          |                  |                  |                 |                | -1.63                        |
| AC |       |              |                    |                               | -0.55            | 0.11             | -0.91           | -1.27          |                              |
| AD |       |              |                    |                               |                  |                  |                 |                |                              |
| AE | -0.38 | -0.03        | 0.65               | 2.31                          | -0.63            | 1.59             | 0.71            | 0.17           | -0.67                        |
| AF | -0.56 | -0.84        | -0.57              | -0.49                         | -0.78            | -0.57            | -0.55           | -0.10          | -0.78                        |
| AG | 0.00  | -1.11        | -1.38              | 0.60                          | -1.50            | 0.11             | -0.61           | 0.07           | 1.26                         |
| AH | 0.19  | -0.84        | -0.57              | -0.49                         | -0.71            | -0.46            | -0.10           | -0.13          | -0.82                        |
| AI | -1.31 | 2.14         | -0.57              | -0.49                         | 0.47             | 1.88             | 1.83            | -0.93          | -1.26                        |
| AJ | -1.50 | -0.03        | -1.79              | 0.22                          | 0.00             | -0.25            | 1.32            | -3.27          | -0.19                        |
| AK | -0.38 | 0.51         | 1.46               |                               | -0.79            | -0.25            | 0.10            | -0.27          | -0.57                        |
| AL | -2.06 | -0.57        | 0.24               | 1.21                          | -0.30            | -0.25            | -0.30           | -0.77          | -3.02                        |
| AM | 0.45  | 158.94       | 1.71               | 1.43                          | -0.95            | 0.11             | 0.00            | 0.73           | -6.60                        |
| AN |       |              |                    |                               | 0.22             | -0.60            | -0.79           | -1.03          |                              |
| AO | -0.38 | -0.30        | -0.16              | 1.54                          | -0.16            | -0.64            | -1.93           | -0.13          | -1.01                        |
| AP | 0.00  | -0.84        | -1.79              | 0.05                          | -0.63            | -0.60            | 1.32            | 0.40           | 1.07                         |
| AQ | 0.38  | -0.03        | -0.57              |                               | -0.71            | 1.73             | 0.71            | 0.27           | 0.00                         |
| AR | 0.19  | 0.68         | 12.85              | 12.13                         | 0.21             | 1.49             | 0.75            | 0.10           | 0.31                         |
| AS | 0.00  | 1.60         | -0.98              | -1.04                         | 1.66             | 0.99             | 1.32            | 0.43           | -0.44                        |
| AT | 0.00  | 0.24         | -1.79              | 0.05                          | 0.17             | -0.35            | -0.82           | 0.10           | -0.69                        |
| AU | 0.56  | 1.32         | 0.24               | 1.70                          | 1.18             | 1.52             | 1.22            | 0.73           | -0.19                        |
| AV |       |              |                    |                               | -0.16            | 0.67             | 1.52            | 2.87           |                              |

**z-Scores Sample N167B**

|    | NO <sub>2</sub> <sup>-</sup> | NH <sub>4</sub> <sup>+</sup> | Cl <sup>-</sup> | SO <sub>4</sub> <sup>2-</sup> | o-PO <sub>4</sub> <sup>3-</sup> | Boron | DOC   | total-P<br>(as PO <sub>4</sub> <sup>3-</sup> ) | KMnO <sub>4</sub> -<br>index |
|----|------------------------------|------------------------------|-----------------|-------------------------------|---------------------------------|-------|-------|--|------------------------------|
| A  | 1.55                         |                              | 0.46            | 0.45                          | -0.35                           | -0.25 | -0.42 | 0.11   | -0.02                        |
| B  |                              |                              | 2.05            | 2.25                          |                                 |       |       |  | 0.31                         |
| C  | 0.64                         |                              | 0.72            | 0.88                          | 0.00                            |       | 0.57  | -0.11  |                              |
| D  | 0.00                         |                              | -0.36           | -2.79                         |                                 | -1.79 | 2.47  | 10172.55                                       |                              |
| E  |                              |                              | -0.24           | 0.00                          | 0.55                            | 1.33  | 0.87  | -7.04  | -0.34                        |
| F  | 0.82                         |                              | -0.60           | 0.11                          | 0.24                            | -0.18 | -0.15 | 0.00   | 0.64                         |
| G  |                              |                              | -0.84           | -1.53                         |                                 |       | 3.00  | -0.85  | 0.09                         |
| H  | -2.10                        |                              | 2.17            | 0.11                          | 0.35                            | -2.22 | 0.04  |  |                              |
| I  | -0.27                        |                              | -2.53           | -0.97                         | 1.04                            |       | 6.41  | -0.68  | 0.33                         |
| J  | 8.85                         |                              | -0.36           | 0.05                          | 1.21                            |       | 3.87  | -3.98  | 1.88                         |
| K  | 0.91                         |                              | -1.81           | -1.42                         | 0.71                            | -0.35 | 0.19  | 0.00   | 1.12                         |
| L  | -1.19                        |                              | -0.60           | 0.05                          | -0.17                           |       | -1.14 |  | 0.69                         |
| M  | -0.27                        |                              | -0.84           | -0.33                         | 0.35                            | 2.24  | 1.14  |  | -3.81                        |
| N  | 1.55                         |                              | 0.72            | -0.82                         | 0.86                            | -1.11 | 1.02  | -0.11  | 0.59                         |
| O  | 0.18                         |                              | -1.33           | 0.00                          | 0.02                            | -0.03 | 0.72  | -0.14  |                              |
| P  | 0.36                         |                              | -1.57           | 0.05                          |                                 | 0.65  | 0.38  | 0.51   |                              |
| Q  | 0.64                         |                              | -0.72           | -0.82                         | -0.52                           | 1.91  | 0.08  | 1.31   | -0.16                        |
| R  | 367.36                       |                              | -14.89          | -1.43                         | 108.54                          |       |       |  |                              |
| S  | 0.64                         |                              | -0.12           | -0.33                         |                                 |       |       |  |                              |
| T  | -3.92                        |                              | -0.24           | -0.44                         | -1.04                           | 0.15  | 0.19  | 1.42   |                              |
| U  | 0.36                         |                              | -0.48           | -0.36                         | -1.55                           | -0.86 | 1.70  | -0.23  |                              |
| V  | 1.09                         |                              | -0.60           | 1.10                          | -5.83                           |       |       | -6.54  |                              |
| W  | -3.92                        |                              | 1.06            | 0.48                          |                                 |       | 0.46  |  |                              |
| X  |                              |                              | -1.22           |                               |                                 |       |       |  |                              |
| Y  |                              |                              |                 |                               | -0.35                           |       |       | -0.91  |                              |
| Z  | 0.64                         |                              | -1.33           | -1.80                         | -0.52                           | -0.60 | 0.30  | -1.31  |                              |
| AA | -0.27                        |                              | 0.13            | 0.36                          | -0.52                           | 1.41  | 1.21  | -0.51  | -0.25                        |
| AB | 1.19                         |                              | 0.12            |                               | -0.52                           |       |       | -0.17  |                              |
| AC |                              |                              |                 |                               | -0.17                           | -1.49 | 0.08  |  | 0.23                         |
| AD |                              |                              |                 |                               |                                 |       |       |  | -0.16                        |
| AE | -2.10                        |                              | -0.87           | -0.31                         | 0.00                            | -0.45 | -0.38 | -0.97  | -0.37                        |
| AF | -0.18                        |                              | -0.18           | -0.66                         |                                 |       | 0.51  |  | -0.46                        |
| AG | 0.91                         |                              | 6.51            | 1.37                          | 0.00                            | 0.10  | 0.83  | -0.51  |                              |
| AH | 0.46                         |                              | 0.24            | 0.11                          | 0.00                            | -0.60 | -0.65 | 0.06   |                              |
| AI | 0.91                         |                              | -1.21           | 0.60                          | 0.35                            | -0.35 | -0.42 | -0.17  | 0.82                         |
| AJ | -0.27                        |                              | 0.36            | 1.15                          | -0.52                           |       | 0.46  | -0.51  | 0.28                         |
| AK | 0.00                         |                              | -0.24           | -0.27                         | 0.00                            | -1.71 |       | -0.34  |                              |
| AL | -3.01                        |                              | -2.53           | -2.68                         | -0.86                           | 0.65  | -1.06 | -1.42  | -0.37                        |
| AM | 1.55                         |                              | 0.36            | 0.66                          | -1.55                           | -0.10 | 0.83  | -0.17  | 0.82                         |
| AN |                              |                              |                 |                               | -6.90                           |       |       | -3.05  |                              |
| AO | -1.55                        |                              | 1.21            | 0.60                          | -0.26                           | 0.55  | 1.18  | -0.17  | 0.00                         |
| AP | -2.83                        |                              | 0.12            | 0.60                          |                                 |       |       |  | -0.34                        |
| AQ | 0.09                         |                              | -0.96           | 0.55                          |                                 | -0.03 |       |  | -0.53                        |
| AR | 36.22                        |                              | -0.20           | 0.52                          | -0.69                           | -1.21 | 0.04  |  | -1.21                        |
| AS | 0.18                         |                              | 0.24            | 0.82                          | -0.52                           | 0.40  | 0.71  | -0.51  | -1.65                        |
| AT | 1.55                         |                              | -0.48           | -0.77                         | 11.56                           | 0.10  | 1.02  | -0.23  | -6.05                        |
| AU | 0.64                         |                              | -1.09           | 0.05                          | -0.17                           |       | -0.49 | -1.02  | 0.11                         |
| AV |                              |                              |                 |                               |                                 |       |       |  |                              |

# Sample N167A

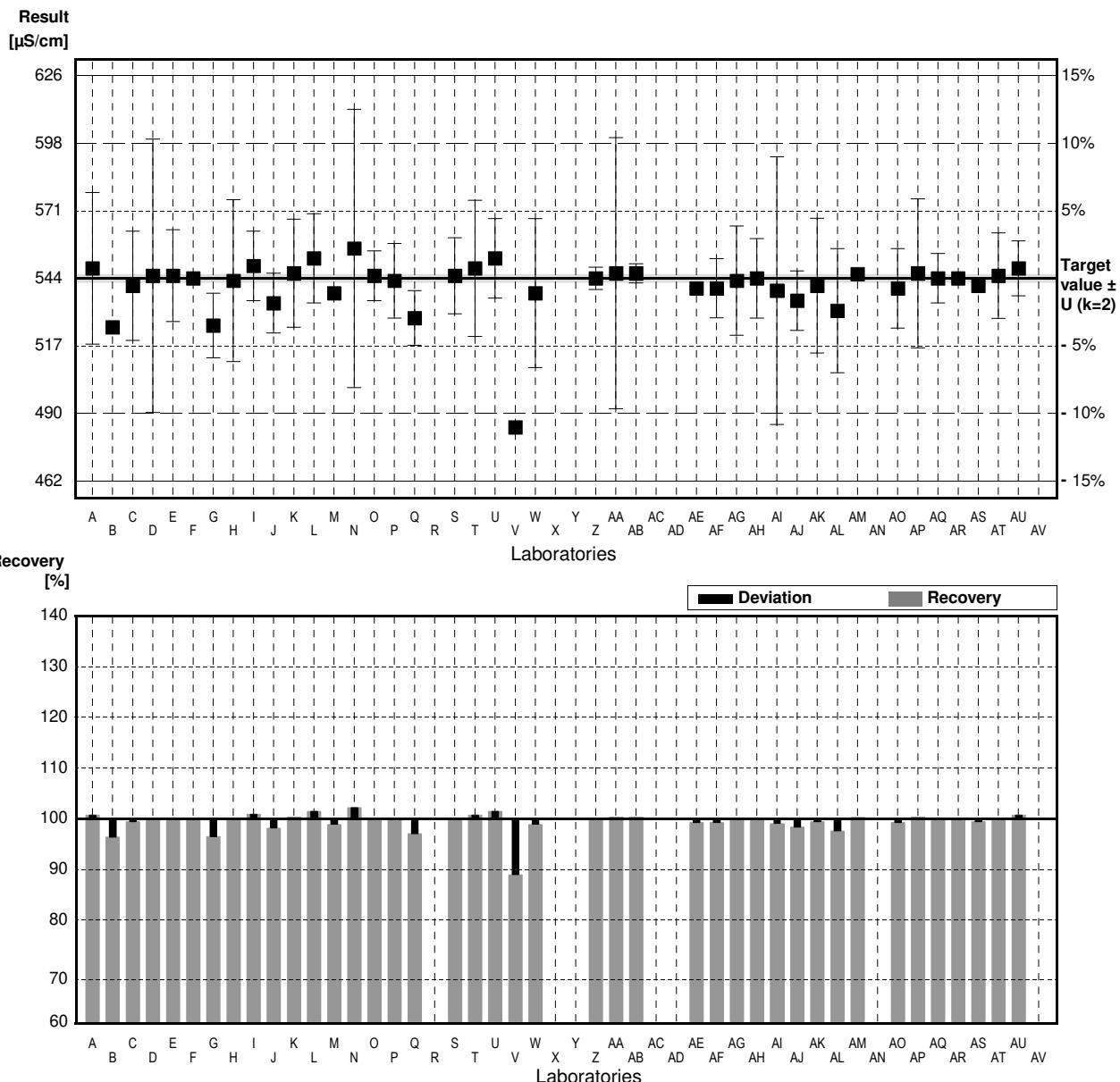
## Parameter Conductivity

Target value  $\pm U$  ( $k=2$ )      544  $\mu\text{S}/\text{cm}$   $\pm$       2  $\mu\text{S}/\text{cm}$   
 IFA result  $\pm U$  ( $k=2$ )      543  $\mu\text{S}/\text{cm}$   $\pm$       7  $\mu\text{S}/\text{cm}$

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

| Lab Code | Result  | $\pm$ | Unit                    | Recovery | z-Score |
|----------|---------|-------|-------------------------|----------|---------|
| A        | 548     | 30.5  | $\mu\text{S}/\text{cm}$ | 101%     | 0.61    |
| B        | 524,3 * | 0.275 | $\mu\text{S}/\text{cm}$ | 96%      | -3.02   |
| C        | 541     | 22    | $\mu\text{S}/\text{cm}$ | 99%      | -0.46   |
| D        | 545     | 55    | $\mu\text{S}/\text{cm}$ | 100%     | 0.15    |
| E        | 545     | 18.5  | $\mu\text{S}/\text{cm}$ | 100%     | 0.15    |
| F        | 544     | 0.427 | $\mu\text{S}/\text{cm}$ | 100%     | 0.00    |
| G        | 525 *   | 13    | $\mu\text{S}/\text{cm}$ | 97%      | -2.91   |
| H        | 543     | 32.58 | $\mu\text{S}/\text{cm}$ | 100%     | -0.15   |
| I        | 549     | 14    | $\mu\text{S}/\text{cm}$ | 101%     | 0.77    |
| J        | 534     | 12    | $\mu\text{S}/\text{cm}$ | 98%      | -1.53   |
| K        | 546     | 21.8  | $\mu\text{S}/\text{cm}$ | 100%     | 0.31    |
| L        | 552     | 18    | $\mu\text{S}/\text{cm}$ | 101%     | 1.23    |
| M        | 538     |       | $\mu\text{S}/\text{cm}$ | 99%      | -0.92   |
| N        | 556     | 56    | $\mu\text{S}/\text{cm}$ | 102%     | 1.84    |
| O        | 545     | 10    | $\mu\text{S}/\text{cm}$ | 100%     | 0.15    |
| P        | 543     | 15    | $\mu\text{S}/\text{cm}$ | 100%     | -0.15   |
| Q        | 528 *   | 11    | $\mu\text{S}/\text{cm}$ | 97%      | -2.45   |
| R        |         |       | $\mu\text{S}/\text{cm}$ |          |         |
| S        | 545     | 15.3  | $\mu\text{S}/\text{cm}$ | 100%     | 0.15    |
| T        | 548     | 27.4  | $\mu\text{S}/\text{cm}$ | 101%     | 0.61    |
| U        | 552     | 16.0  | $\mu\text{S}/\text{cm}$ | 101%     | 1.23    |
| V        | 484 *   |       | $\mu\text{S}/\text{cm}$ | 89%      | -9.19   |
| W        | 538     | 30    | $\mu\text{S}/\text{cm}$ | 99%      | -0.92   |
| X        |         |       | $\mu\text{S}/\text{cm}$ |          |         |
| Y        |         |       | $\mu\text{S}/\text{cm}$ |          |         |
| Z        | 544     | 4.51  | $\mu\text{S}/\text{cm}$ | 100%     | 0.00    |
| AA       | 546     | 54.6  | $\mu\text{S}/\text{cm}$ | 100%     | 0.31    |
| AB       | 546     | 3.87  | $\mu\text{S}/\text{cm}$ | 100%     | 0.31    |
| AC       |         |       | $\mu\text{S}/\text{cm}$ |          |         |
| AD       |         |       | $\mu\text{S}/\text{cm}$ |          |         |
| AE       | 540     | 0.577 | $\mu\text{S}/\text{cm}$ | 99%      | -0.61   |
| AF       | 540     | 11.9  | $\mu\text{S}/\text{cm}$ | 99%      | -0.61   |
| AG       | 543     | 22    | $\mu\text{S}/\text{cm}$ | 100%     | -0.15   |
| AH       | 544     | 16    | $\mu\text{S}/\text{cm}$ | 100%     | 0.00    |
| AI       | 539     | 53.9  | $\mu\text{S}/\text{cm}$ | 99%      | -0.77   |
| AJ       | 535     | 12    | $\mu\text{S}/\text{cm}$ | 98%      | -1.38   |
| AK       | 541     | 27.1  | $\mu\text{S}/\text{cm}$ | 99%      | -0.46   |
| AL       | 531.0   | 25    | $\mu\text{S}/\text{cm}$ | 98%      | -1.99   |
| AM       | 545.7   |       | $\mu\text{S}/\text{cm}$ | 100%     | 0.26    |
| AN       |         |       | $\mu\text{S}/\text{cm}$ |          |         |
| AO       | 540     | 16    | $\mu\text{S}/\text{cm}$ | 99%      | -0.61   |
| AP       | 546     | 30    | $\mu\text{S}/\text{cm}$ | 100%     | 0.31    |
| AQ       | 544     | 10    | $\mu\text{S}/\text{cm}$ | 100%     | 0.00    |
| AR       | 544     |       | $\mu\text{S}/\text{cm}$ | 100%     | 0.00    |
| AS       | 541     |       | $\mu\text{S}/\text{cm}$ | 99%      | -0.46   |
| AT       | 545     | 17.2  | $\mu\text{S}/\text{cm}$ | 100%     | 0.15    |
| AU       | 548     | 11    | $\mu\text{S}/\text{cm}$ | 101%     | 0.61    |
| AV       |         |       | $\mu\text{S}/\text{cm}$ |          |         |

|                              | All results    | Outliers excl. | Unit                    |
|------------------------------|----------------|----------------|-------------------------|
| Mean $\pm \text{CI}(99\%)$   | 541 $\pm$ 5    | 544 $\pm$ 2    | $\mu\text{S}/\text{cm}$ |
| Recov. $\pm \text{CI}(99\%)$ | 99,4 $\pm$ 0,9 | 99,9 $\pm$ 0,4 | %                       |
| SD between labs              | 11             | 5              | $\mu\text{S}/\text{cm}$ |
| RSD between labs             | 2,1            | 0,9            | %                       |
| n for calculation            | 41             | 37             |                         |



# Sample N167B

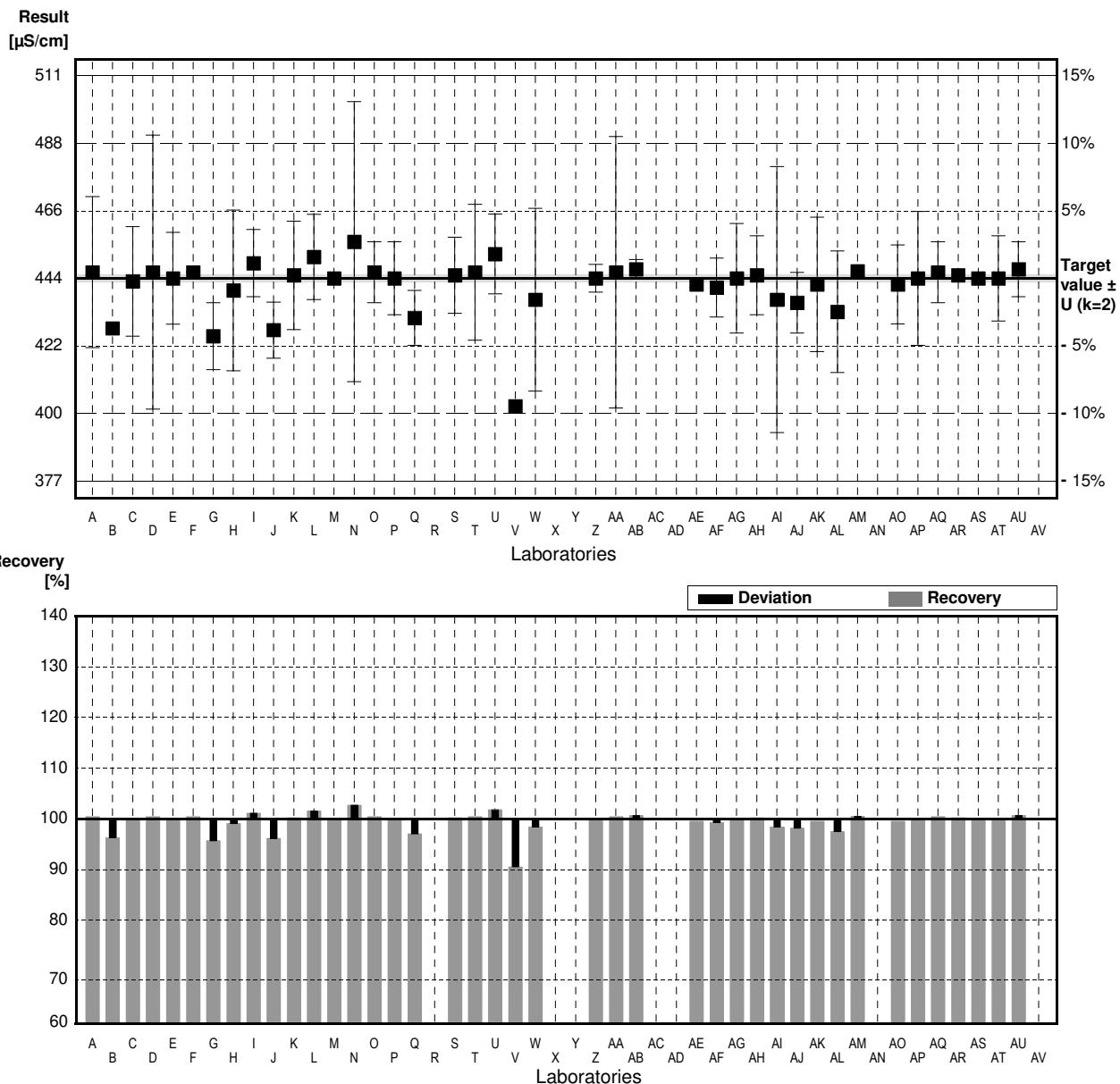
## Parameter Conductivity

Target value  $\pm U$  ( $k=2$ )      444  $\mu\text{S}/\text{cm}$   $\pm$       1  $\mu\text{S}/\text{cm}$   
 IFA result  $\pm U$  ( $k=2$ )      443  $\mu\text{S}/\text{cm}$   $\pm$       6  $\mu\text{S}/\text{cm}$

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

| Lab Code | Result  | $\pm$ | Unit                    | Recovery | z-Score |
|----------|---------|-------|-------------------------|----------|---------|
| A        | 446     | 24.8  | $\mu\text{S}/\text{cm}$ | 100%     | 0.38    |
| B        | 427,6 * | 0.275 | $\mu\text{S}/\text{cm}$ | 96%      | -3.08   |
| C        | 443     | 18    | $\mu\text{S}/\text{cm}$ | 100%     | -0.19   |
| D        | 446     | 45    | $\mu\text{S}/\text{cm}$ | 100%     | 0.38    |
| E        | 444     | 15.1  | $\mu\text{S}/\text{cm}$ | 100%     | 0.00    |
| F        | 446     | 0.197 | $\mu\text{S}/\text{cm}$ | 100%     | 0.38    |
| G        | 425 *   | 11    | $\mu\text{S}/\text{cm}$ | 96%      | -3.57   |
| H        | 440     | 26.40 | $\mu\text{S}/\text{cm}$ | 99%      | -0.75   |
| I        | 449     | 11    | $\mu\text{S}/\text{cm}$ | 101%     | 0.94    |
| J        | 427 *   | 9.2   | $\mu\text{S}/\text{cm}$ | 96%      | -3.19   |
| K        | 445     | 17.8  | $\mu\text{S}/\text{cm}$ | 100%     | 0.19    |
| L        | 451     | 14    | $\mu\text{S}/\text{cm}$ | 102%     | 1.31    |
| M        | 444     |       | $\mu\text{S}/\text{cm}$ | 100%     | 0.00    |
| N        | 456 *   | 46    | $\mu\text{S}/\text{cm}$ | 103%     | 2.25    |
| O        | 446     | 10    | $\mu\text{S}/\text{cm}$ | 100%     | 0.38    |
| P        | 444     | 12    | $\mu\text{S}/\text{cm}$ | 100%     | 0.00    |
| Q        | 431 *   | 9     | $\mu\text{S}/\text{cm}$ | 97%      | -2.44   |
| R        |         |       | $\mu\text{S}/\text{cm}$ |          |         |
| S        | 445     | 12.5  | $\mu\text{S}/\text{cm}$ | 100%     | 0.19    |
| T        | 446     | 22.3  | $\mu\text{S}/\text{cm}$ | 100%     | 0.38    |
| U        | 452     | 13.1  | $\mu\text{S}/\text{cm}$ | 102%     | 1.50    |
| V        | 402 *   |       | $\mu\text{S}/\text{cm}$ | 91%      | -7.88   |
| W        | 437     | 30    | $\mu\text{S}/\text{cm}$ | 98%      | -1.31   |
| X        |         |       | $\mu\text{S}/\text{cm}$ |          |         |
| Y        |         |       | $\mu\text{S}/\text{cm}$ |          |         |
| Z        | 444     | 4.51  | $\mu\text{S}/\text{cm}$ | 100%     | 0.00    |
| AA       | 446     | 44.6  | $\mu\text{S}/\text{cm}$ | 100%     | 0.38    |
| AB       | 447     | 3.17  | $\mu\text{S}/\text{cm}$ | 101%     | 0.56    |
| AC       |         |       | $\mu\text{S}/\text{cm}$ |          |         |
| AD       |         |       | $\mu\text{S}/\text{cm}$ |          |         |
| AE       | 442     | 1     | $\mu\text{S}/\text{cm}$ | 100%     | -0.38   |
| AF       | 441     | 9.7   | $\mu\text{S}/\text{cm}$ | 99%      | -0.56   |
| AG       | 444     | 18    | $\mu\text{S}/\text{cm}$ | 100%     | 0.00    |
| AH       | 445     | 13    | $\mu\text{S}/\text{cm}$ | 100%     | 0.19    |
| AI       | 437     | 43.7  | $\mu\text{S}/\text{cm}$ | 98%      | -1.31   |
| AJ       | 436     | 10    | $\mu\text{S}/\text{cm}$ | 98%      | -1.50   |
| AK       | 442     | 22.1  | $\mu\text{S}/\text{cm}$ | 100%     | -0.38   |
| AL       | 433.0 * | 20    | $\mu\text{S}/\text{cm}$ | 98%      | -2.06   |
| AM       | 446.4   |       | $\mu\text{S}/\text{cm}$ | 101%     | 0.45    |
| AN       |         |       | $\mu\text{S}/\text{cm}$ |          |         |
| AO       | 442     | 13    | $\mu\text{S}/\text{cm}$ | 100%     | -0.38   |
| AP       | 444     | 22    | $\mu\text{S}/\text{cm}$ | 100%     | 0.00    |
| AQ       | 446     | 10    | $\mu\text{S}/\text{cm}$ | 100%     | 0.38    |
| AR       | 445     |       | $\mu\text{S}/\text{cm}$ | 100%     | 0.19    |
| AS       | 444     |       | $\mu\text{S}/\text{cm}$ | 100%     | 0.00    |
| AT       | 444     | 14.0  | $\mu\text{S}/\text{cm}$ | 100%     | 0.00    |
| AU       | 447     | 9     | $\mu\text{S}/\text{cm}$ | 101%     | 0.56    |
| AV       |         |       | $\mu\text{S}/\text{cm}$ |          |         |

|                              | All results    | Outliers excl.  | Unit                    |
|------------------------------|----------------|-----------------|-------------------------|
| Mean $\pm \text{CI}(99\%)$   | 442 $\pm$ 4    | 444 $\pm$ 2     | $\mu\text{S}/\text{cm}$ |
| Recov. $\pm \text{CI}(99\%)$ | 99,5 $\pm$ 0,9 | 100,1 $\pm$ 0,4 | %                       |
| SD between labs              | 9              | 3               | $\mu\text{S}/\text{cm}$ |
| RSD between labs             | 2,1            | 0,8             | %                       |
| n for calculation            | 41             | 34              |                         |



# Sample N167A

## Parameter Total hardness

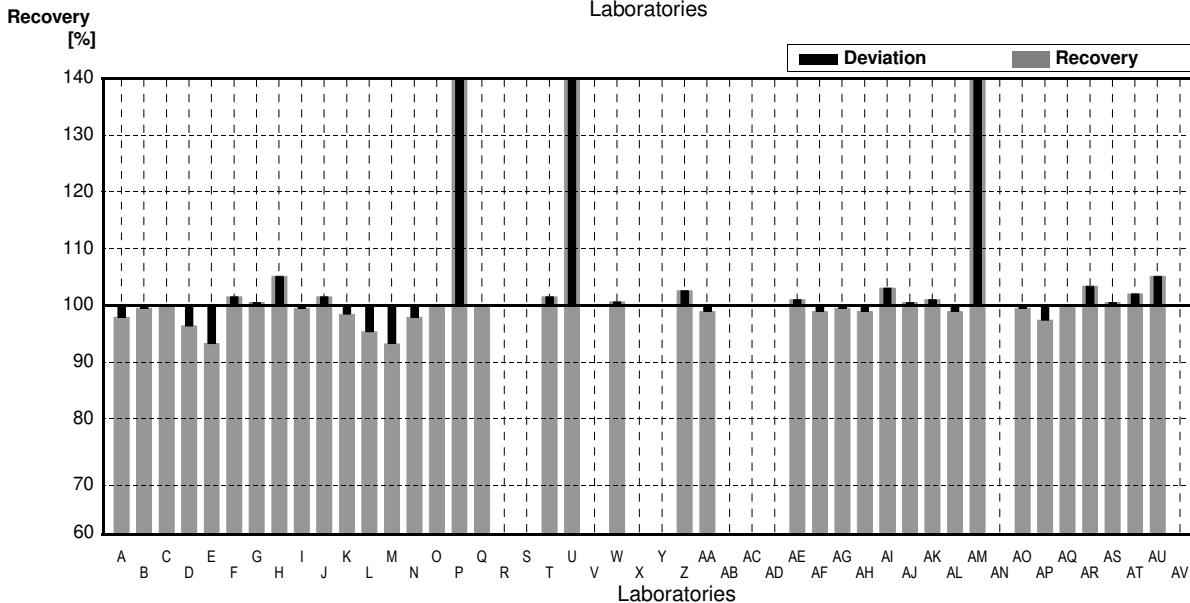
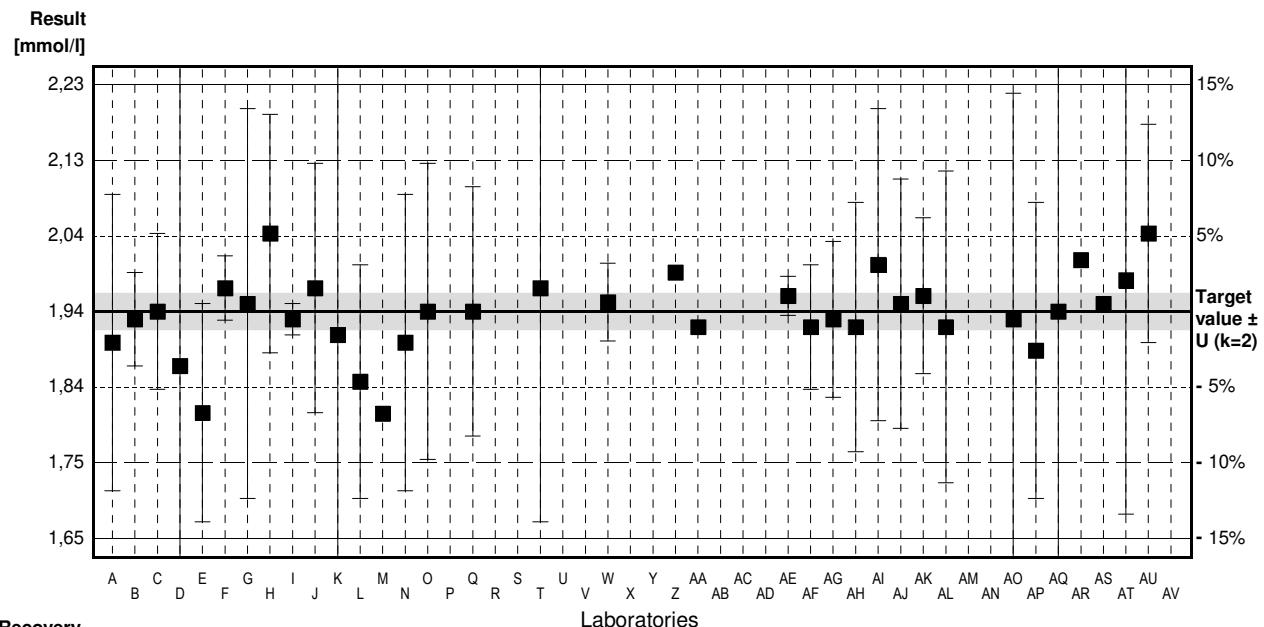
Target value  $\pm U$  ( $k=2$ ) 1,94 mmol/l  $\pm$  0,02 mmol/l  
 IFA result  $\pm U$  ( $k=2$ ) 2,04 mmol/l  $\pm$  0,08 mmol/l

### Stability test

mmol/l

| Lab Code | Result | $\pm$  | Unit   | Recovery | z-Score |
|----------|--------|--------|--------|----------|---------|
| A        | 1,90   | 0,19   | mmol/l | 98%      | -0,74   |
| B        | 1,93   | 0,06   | mmol/l | 99%      | -0,18   |
| C        | 1,94   | 0,1    | mmol/l | 100%     | 0,00    |
| D        | 1,87   | 0,37   | mmol/l | 96%      | -1,29   |
| E        | 1,81   | 0,14   | mmol/l | 93%      | -2,39   |
| F        | 1,97   | 0,0412 | mmol/l | 102%     | 0,55    |
| G        | 1,95   | 0,25   | mmol/l | 101%     | 0,18    |
| H        | 2,04   | 0,153  | mmol/l | 105%     | 1,84    |
| I        | 1,93   | 0,02   | mmol/l | 99%      | -0,18   |
| J        | 1,97   | 0,16   | mmol/l | 102%     | 0,55    |
| K        | 1,91   | 0,344  | mmol/l | 98%      | -0,55   |
| L        | 1,85   | 0,15   | mmol/l | 95%      | -1,66   |
| M        | 1,809  |        | mmol/l | 93%      | -2,41   |
| N        | 1,90   | 0,19   | mmol/l | 98%      | -0,74   |
| O        | 1,94   |        | mmol/l | 100%     | 0,00    |
| P        | 10,7   | *      | mmol/l | 552%     | 161,27  |
| Q        | 1,94   | 0,16   | mmol/l | 100%     | 0,00    |
| R        |        |        | mmol/l |          |         |
| S        |        |        | mmol/l |          |         |
| T        | 1,97   | 0,300  | mmol/l | 102%     | 0,55    |
| U        | 3,88   | *      | mmol/l | 200%     | 35,71   |
| V        |        |        | mmol/l |          |         |
| W        | 1,952  | 0,05   | mmol/l | 101%     | 0,22    |
| X        |        |        | mmol/l |          |         |
| Y        |        |        | mmol/l |          |         |
| Z        | 1,99   |        | mmol/l | 103%     | 0,92    |
| AA       | 1,92   |        | mmol/l | 99%      | -0,37   |
| AB       |        |        | mmol/l |          |         |
| AC       |        |        | mmol/l |          |         |
| AD       |        |        | mmol/l |          |         |
| AE       | 1,96   | 0,025  | mmol/l | 101%     | 0,37    |
| AF       | 1,92   | 0,08   | mmol/l | 99%      | -0,37   |
| AG       | 1,93   | 0,10   | mmol/l | 99%      | -0,18   |
| AH       | 1,92   | 0,16   | mmol/l | 99%      | -0,37   |
| AI       | 2,00   | 0,20   | mmol/l | 103%     | 1,10    |
| AJ       | 1,95   | 0,16   | mmol/l | 101%     | 0,18    |
| AK       | 1,96   | 0,10   | mmol/l | 101%     | 0,37    |
| AL       | 1,92   | 0,2    | mmol/l | 99%      | -0,37   |
| AM       | 10,8   | *      | mmol/l | 557%     | 163,11  |
| AN       |        |        | mmol/l |          |         |
| AO       | 1,93   | 0,29   | mmol/l | 99%      | -0,18   |
| AP       | 1,89   | 0,19   | mmol/l | 97%      | -0,92   |
| AQ       | 1,94   | 0,39   | mmol/l | 100%     | 0,00    |
| AR       | 2,006  |        | mmol/l | 103%     | 1,22    |
| AS       | 1,95   |        | mmol/l | 101%     | 0,18    |
| AT       | 1,98   | 0,30   | mmol/l | 102%     | 0,74    |
| AU       | 2,04   | 0,14   | mmol/l | 105%     | 1,84    |
| AV       |        |        | mmol/l |          |         |

|                      | All results      | Outliers excl.  | Unit   |
|----------------------|------------------|-----------------|--------|
| Mean $\pm$ Cl(99%)   | 2,45 $\pm$ 0,89  | 1,94 $\pm$ 0,02 | mmol/l |
| Recov. $\pm$ Cl(99%) | 126,4 $\pm$ 45,7 | 99,8 $\pm$ 1,2  | %      |
| SD between labs      | 2,01             | 0,05            | mmol/l |
| RSD between labs     | 81,9             | 2,7             | %      |
| n for calculation    | 38               | 35              |        |



# Sample N167B

## Parameter Total hardness

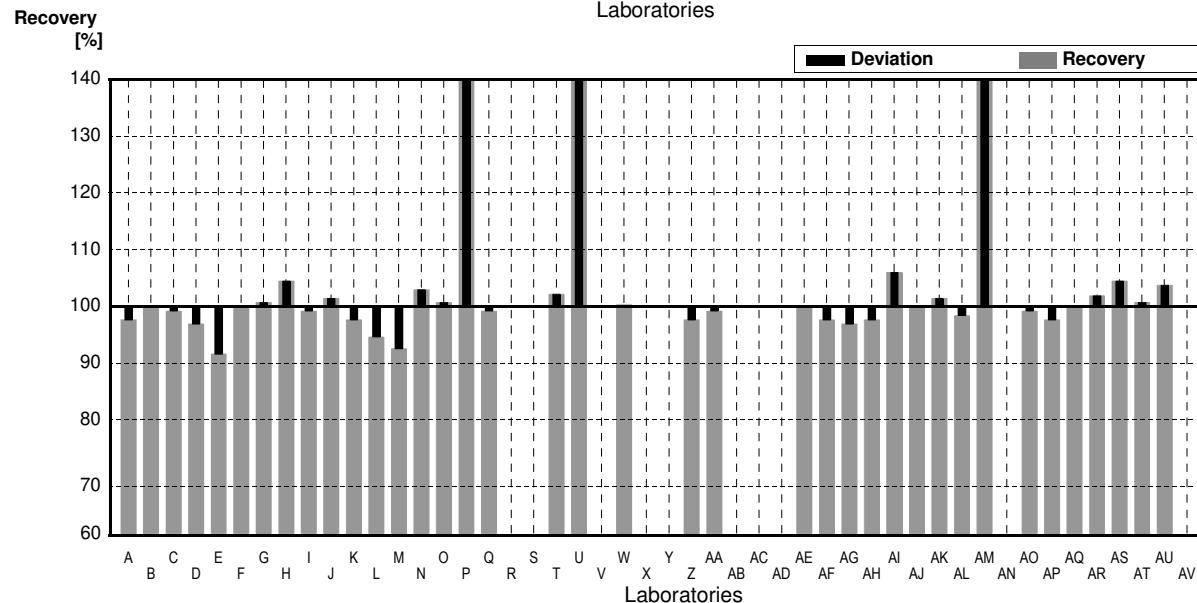
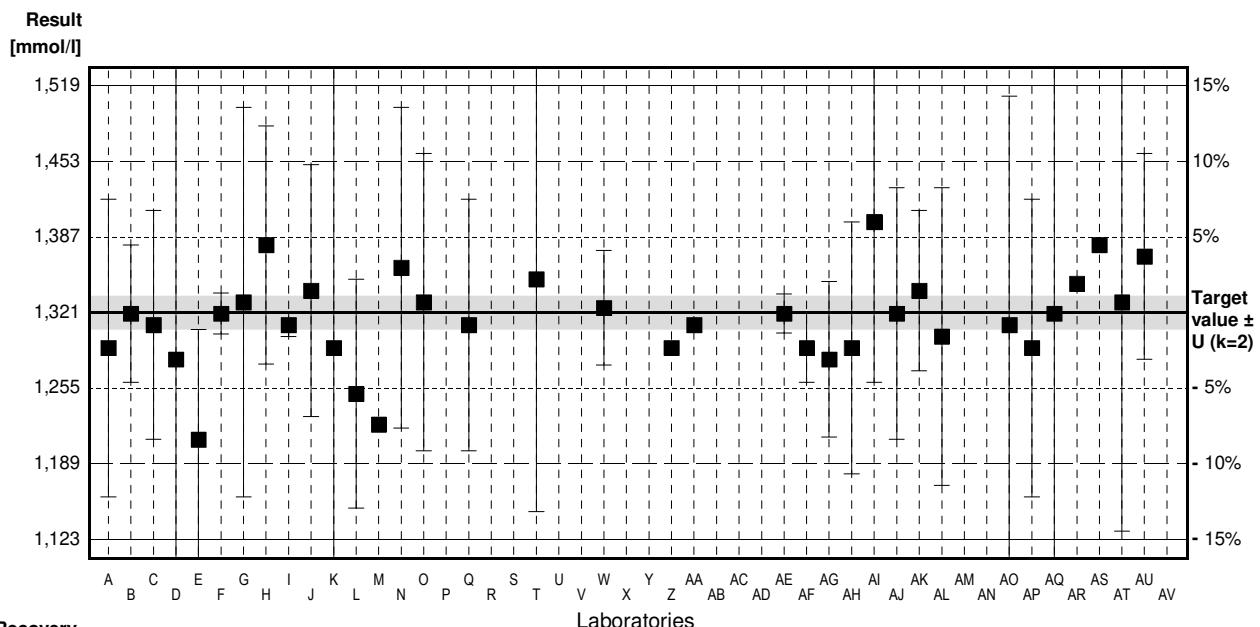
Target value  $\pm U$  ( $k=2$ ) 1,321 mmol/l  $\pm$  0,015 mmol/l  
 IFA result  $\pm U$  ( $k=2$ ) 1,40 mmol/l  $\pm$  0,06 mmol/l

### Stability test

mmol/l

| Lab Code | Result | $\pm$  | Unit   | Recovery | z-Score |
|----------|--------|--------|--------|----------|---------|
| A        | 1.29   | 0.13   | mmol/l | 98%      | -0.84   |
| B        | 1.32   | 0.06   | mmol/l | 100%     | -0.03   |
| C        | 1.31   | 0.1    | mmol/l | 99%      | -0.30   |
| D        | 1.28   | 0.26   | mmol/l | 97%      | -1.11   |
| E        | 1.21   | 0.096  | mmol/l | 92%      | -3.00   |
| F        | 1.32   | 0.0178 | mmol/l | 100%     | -0.03   |
| G        | 1.33   | 0.17   | mmol/l | 101%     | 0.24    |
| H        | 1.38   | 0.104  | mmol/l | 104%     | 1.60    |
| I        | 1.31   | 0.01   | mmol/l | 99%      | -0.30   |
| J        | 1.34   | 0.11   | mmol/l | 101%     | 0.51    |
| K        | 1.29   | 0.232  | mmol/l | 98%      | -0.84   |
| L        | 1.25   | 0.10   | mmol/l | 95%      | -1.92   |
| M        | 1.223  |        | mmol/l | 93%      | -2.65   |
| N        | 1.36   | 0.14   | mmol/l | 103%     | 1.05    |
| O        | 1.33   | 0.13   | mmol/l | 101%     | 0.24    |
| P        | 7.1    | *      | mmol/l | 537%     | 156.24  |
| Q        | 1.31   | 0.11   | mmol/l | 99%      | -0.30   |
| R        |        |        | mmol/l |          |         |
| S        |        |        | mmol/l |          |         |
| T        | 1.35   | 0.203  | mmol/l | 102%     | 0.78    |
| U        | 2.64   | *      | mmol/l | 200%     | 35.66   |
| V        |        |        | mmol/l |          |         |
| W        | 1.325  | 0.05   | mmol/l | 100%     | 0.11    |
| X        |        |        | mmol/l |          |         |
| Y        |        |        | mmol/l |          |         |
| Z        | 1.29   |        | mmol/l | 98%      | -0.84   |
| AA       | 1.31   |        | mmol/l | 99%      | -0.30   |
| AB       |        |        | mmol/l |          |         |
| AC       |        |        | mmol/l |          |         |
| AD       |        |        | mmol/l |          |         |
| AE       | 1.32   | 0.017  | mmol/l | 100%     | -0.03   |
| AF       | 1.29   | 0.03   | mmol/l | 98%      | -0.84   |
| AG       | 1.28   | 0.068  | mmol/l | 97%      | -1.11   |
| AH       | 1.29   | 0.11   | mmol/l | 98%      | -0.84   |
| AI       | 1.40   | 0.14   | mmol/l | 106%     | 2.14    |
| AJ       | 1.32   | 0.11   | mmol/l | 100%     | -0.03   |
| AK       | 1.34   | 0.07   | mmol/l | 101%     | 0.51    |
| AL       | 1.30   | 0.13   | mmol/l | 98%      | -0.57   |
| AM       | 7.2    | *      | mmol/l | 545%     | 158.94  |
| AN       |        |        | mmol/l |          |         |
| AO       | 1.31   | 0.20   | mmol/l | 99%      | -0.30   |
| AP       | 1.29   | 0.13   | mmol/l | 98%      | -0.84   |
| AQ       | 1.32   | 0.27   | mmol/l | 100%     | -0.03   |
| AR       | 1.346  |        | mmol/l | 102%     | 0.68    |
| AS       | 1.38   |        | mmol/l | 104%     | 1.60    |
| AT       | 1.33   | 0.20   | mmol/l | 101%     | 0.24    |
| AU       | 1.37   | 0.09   | mmol/l | 104%     | 1.32    |
| AV       |        |        | mmol/l |          |         |

|                      | All results       | Outliers excl.    | Unit   |
|----------------------|-------------------|-------------------|--------|
| Mean $\pm$ Cl(99%)   | $1,657 \pm 0,587$ | $1,315 \pm 0,019$ | mmol/l |
| Recov. $\pm$ Cl(99%) | $125,4 \pm 44,4$  | $99,5 \pm 1,4$    | %      |
| SD between labs      | 1,330             | 0,040             | mmol/l |
| RSD between labs     | 80,3              | 3,1               | %      |
| n for calculation    | 38                | 35                |        |



# Sample N167A

## Parameter Alkalinity

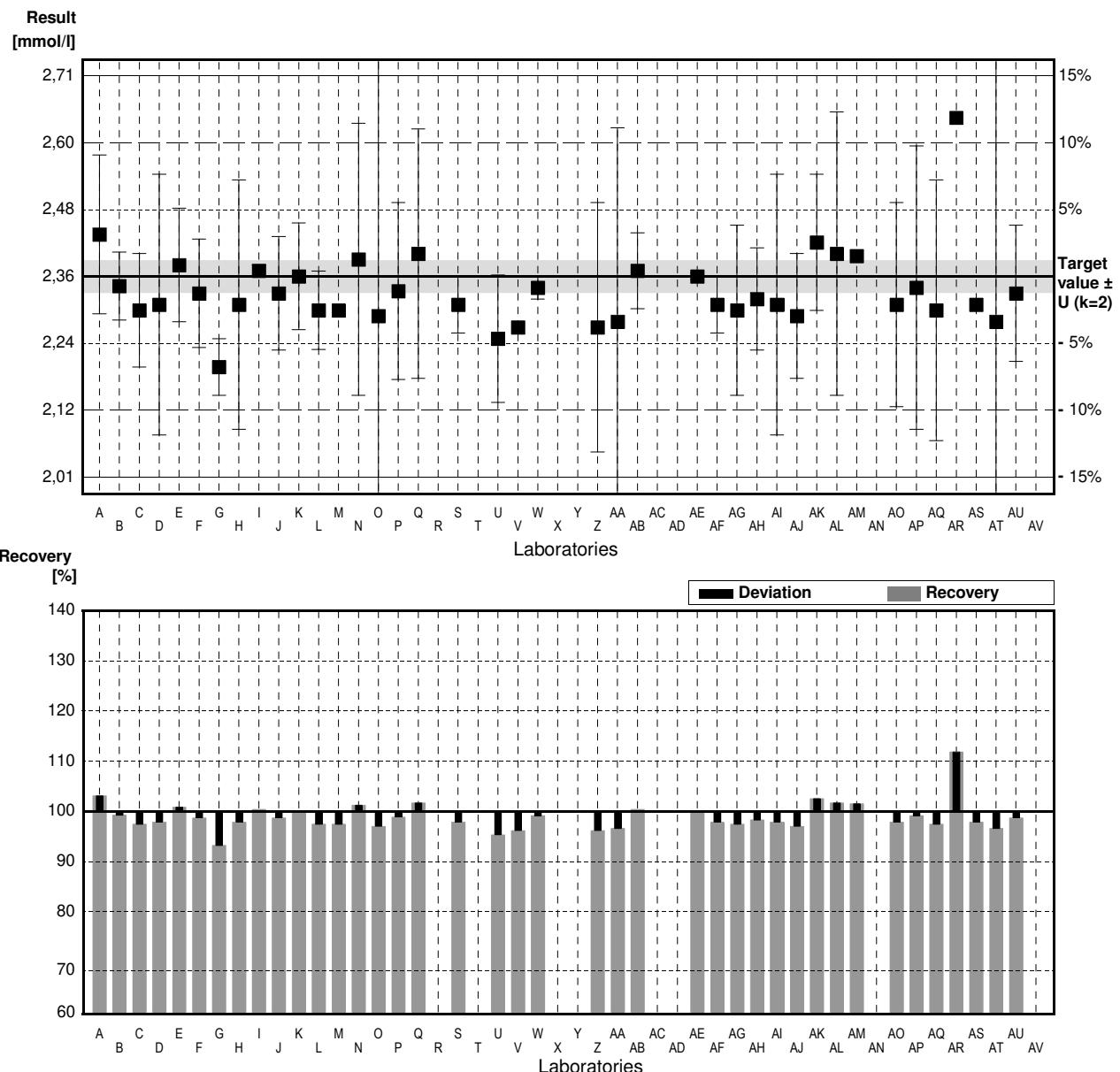
Target value  $\pm U$  ( $k=2$ ) 2,36 mmol/l  $\pm$  0,03 mmol/l  
 IFA result  $\pm U$  ( $k=2$ ) 2,30 mmol/l  $\pm$  0,09 mmol/l

### Stability test

mmol/l

| Lab Code | Result  | $\pm$  | Unit   | Recovery | z-Score |
|----------|---------|--------|--------|----------|---------|
| A        | 2,434 * | 0,14   | mmol/l | 103%     | 1,65    |
| B        | 2,343   | 0,06   | mmol/l | 99%      | -0,38   |
| C        | 2,30    | 0,1    | mmol/l | 97%      | -1,34   |
| D        | 2,31    | 0,23   | mmol/l | 98%      | -1,12   |
| E        | 2,38    | 0,10   | mmol/l | 101%     | 0,45    |
| F        | 2,33    | 0,0957 | mmol/l | 99%      | -0,67   |
| G        | 2,20 *  | 0,05   | mmol/l | 93%      | -3,57   |
| H        | 2,31    | 0,22   | mmol/l | 98%      | -1,12   |
| I        | 2,37    | 0,01   | mmol/l | 100%     | 0,22    |
| J        | 2,33    | 0,10   | mmol/l | 99%      | -0,67   |
| K        | 2,36    | 0,094  | mmol/l | 100%     | 0,00    |
| L        | 2,30    | 0,069  | mmol/l | 97%      | -1,34   |
| M        | 2,30    |        | mmol/l | 97%      | -1,34   |
| N        | 2,39    | 0,24   | mmol/l | 101%     | 0,67    |
| O        | 2,29    | 2,3    | mmol/l | 97%      | -1,56   |
| P        | 2,334   | 0,156  | mmol/l | 99%      | -0,58   |
| Q        | 2,40    | 0,22   | mmol/l | 102%     | 0,89    |
| R        |         |        | mmol/l |          |         |
| S        | 2,31    | 0,05   | mmol/l | 98%      | -1,12   |
| T        |         |        | mmol/l |          |         |
| U        | 2,25    | 0,1125 | mmol/l | 95%      | -2,45   |
| V        | 2,27    |        | mmol/l | 96%      | -2,01   |
| W        | 2,34    | 0,02   | mmol/l | 99%      | -0,45   |
| X        |         |        | mmol/l |          |         |
| Y        |         |        | mmol/l |          |         |
| Z        | 2,27    | 0,22   | mmol/l | 96%      | -2,01   |
| AA       | 2,28    | 0,342  | mmol/l | 97%      | -1,78   |
| AB       | 2,37    | 0,067  | mmol/l | 100%     | 0,22    |
| AC       |         |        | mmol/l |          |         |
| AD       |         |        | mmol/l |          |         |
| AE       | 2,36    | 0,006  | mmol/l | 100%     | 0,00    |
| AF       | 2,31    | 0,05   | mmol/l | 98%      | -1,12   |
| AG       | 2,30    | 0,15   | mmol/l | 97%      | -1,34   |
| AH       | 2,32    | 0,09   | mmol/l | 98%      | -0,89   |
| AI       | 2,31    | 0,23   | mmol/l | 98%      | -1,12   |
| AJ       | 2,29    | 0,11   | mmol/l | 97%      | -1,56   |
| AK       | 2,42    | 0,12   | mmol/l | 103%     | 1,34    |
| AL       | 2,40    | 0,25   | mmol/l | 102%     | 0,89    |
| AM       | 2,396   |        | mmol/l | 102%     | 0,80    |
| AN       |         |        | mmol/l |          |         |
| AO       | 2,31    | 0,18   | mmol/l | 98%      | -1,12   |
| AP       | 2,34    | 0,25   | mmol/l | 99%      | -0,45   |
| AQ       | 2,30    | 0,23   | mmol/l | 97%      | -1,34   |
| AR       | 2,64 *  |        | mmol/l | 112%     | 6,24    |
| AS       | 2,31    |        | mmol/l | 98%      | -1,12   |
| AT       | 2,28    | 0,77   | mmol/l | 97%      | -1,78   |
| AU       | 2,33    | 0,12   | mmol/l | 99%      | -0,67   |
| AV       |         |        | mmol/l |          |         |

|                      | All results     | Outliers excl.  | Unit   |
|----------------------|-----------------|-----------------|--------|
| Mean $\pm$ Cl(99%)   | 2,33 $\pm$ 0,03 | 2,33 $\pm$ 0,02 | mmol/l |
| Recov. $\pm$ Cl(99%) | 98,9 $\pm$ 1,3  | 98,6 $\pm$ 0,8  | %      |
| SD between labs      | 0,07            | 0,04            | mmol/l |
| RSD between labs     | 3,0             | 1,8             | %      |
| n for calculation    | 40              | 37              |        |



# Sample N167B

## Parameter Alkalinity

Target value  $\pm U$  ( $k=2$ ) 1,294 mmol/l  $\pm$  0,018 mmol/l

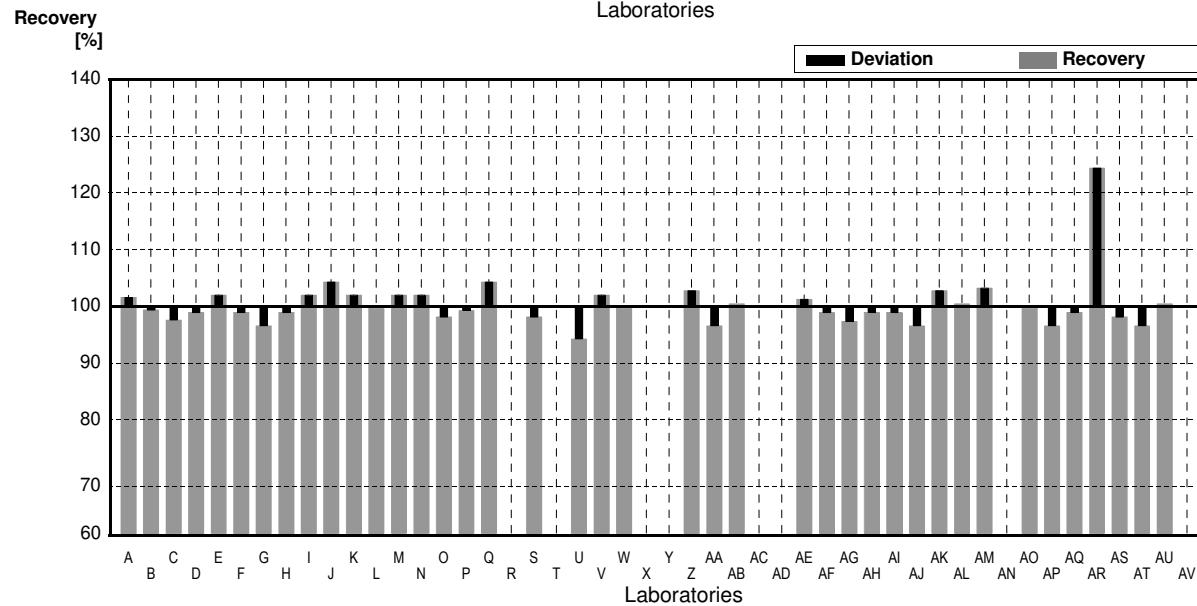
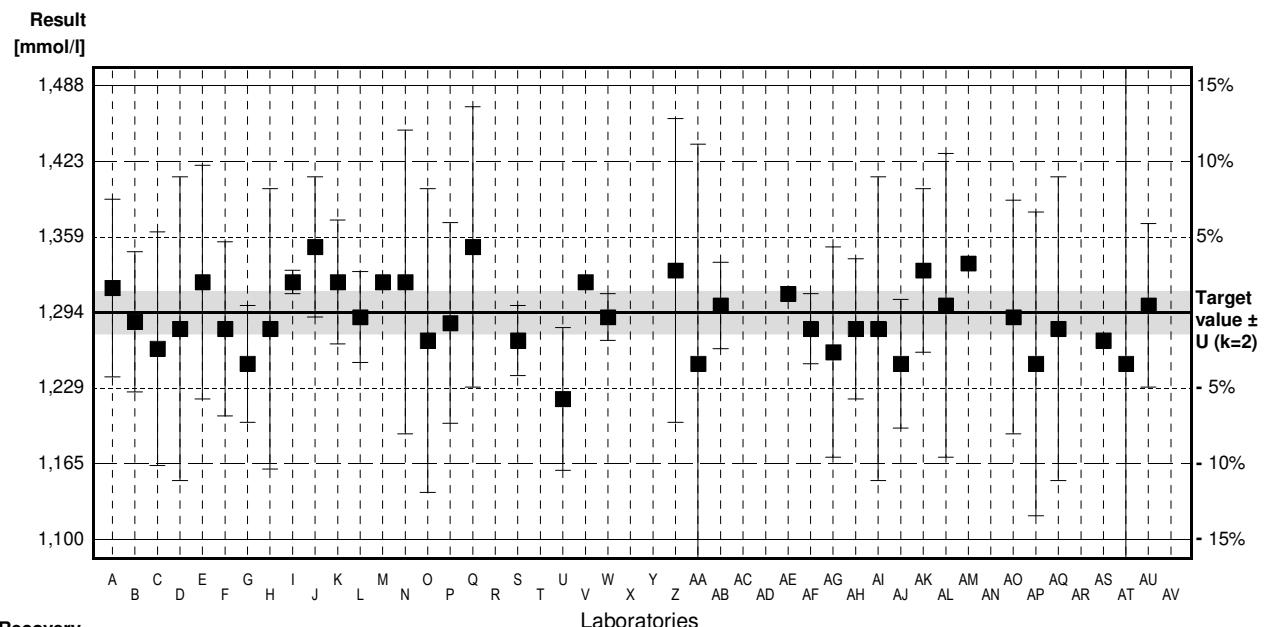
IFA result  $\pm U$  ( $k=2$ ) 1,27 mmol/l  $\pm$  0,05 mmol/l

### Stability test

mmol/l

| Lab Code | Result | $\pm$  | Unit   | Recovery | z-Score |
|----------|--------|--------|--------|----------|---------|
| A        | 1.315  | 0.076  | mmol/l | 102%     | 0.85    |
| B        | 1.286  | 0.06   | mmol/l | 99%      | -0.33   |
| C        | 1.263  | 0.1    | mmol/l | 98%      | -1.26   |
| D        | 1.28   | 0.13   | mmol/l | 99%      | -0.57   |
| E        | 1.32   | 0.10   | mmol/l | 102%     | 1.06    |
| F        | 1.28   | 0.0746 | mmol/l | 99%      | -0.57   |
| G        | 1.25   | 0.05   | mmol/l | 97%      | -1.79   |
| H        | 1.28   | 0.12   | mmol/l | 99%      | -0.57   |
| I        | 1.32   | 0.01   | mmol/l | 102%     | 1.06    |
| J        | 1.35   | 0.06   | mmol/l | 104%     | 2.28    |
| K        | 1.32   | 0.053  | mmol/l | 102%     | 1.06    |
| L        | 1.29   | 0.039  | mmol/l | 100%     | -0.16   |
| M        | 1.32   |        | mmol/l | 102%     | 1.06    |
| N        | 1.32   | 0.13   | mmol/l | 102%     | 1.06    |
| O        | 1.27   | 0.13   | mmol/l | 98%      | -0.98   |
| P        | 1.285  | 0.086  | mmol/l | 99%      | -0.37   |
| Q        | 1.35   | 0.12   | mmol/l | 104%     | 2.28    |
| R        |        |        | mmol/l |          |         |
| S        | 1.27   | 0.03   | mmol/l | 98%      | -0.98   |
| T        |        |        | mmol/l |          |         |
| U        | 1.22   | 0.061  | mmol/l | 94%      | -3.01   |
| V        | 1.32   |        | mmol/l | 102%     | 1.06    |
| W        | 1.29   | 0.02   | mmol/l | 100%     | -0.16   |
| X        |        |        | mmol/l |          |         |
| Y        |        |        | mmol/l |          |         |
| Z        | 1.33   | 0.13   | mmol/l | 103%     | 1.46    |
| AA       | 1.25   | 0.188  | mmol/l | 97%      | -1.79   |
| AB       | 1.30   | 0.037  | mmol/l | 100%     | 0.24    |
| AC       |        |        | mmol/l |          |         |
| AD       |        |        | mmol/l |          |         |
| AE       | 1.31   | 0.006  | mmol/l | 101%     | 0.65    |
| AF       | 1.28   | 0.03   | mmol/l | 99%      | -0.57   |
| AG       | 1.26   | 0.09   | mmol/l | 97%      | -1.38   |
| AH       | 1.28   | 0.06   | mmol/l | 99%      | -0.57   |
| AI       | 1.28   | 0.13   | mmol/l | 99%      | -0.57   |
| AJ       | 1.250  | 0.055  | mmol/l | 97%      | -1.79   |
| AK       | 1.33   | 0.07   | mmol/l | 103%     | 1.46    |
| AL       | 1.30   | 0.13   | mmol/l | 100%     | 0.24    |
| AM       | 1.336  |        | mmol/l | 103%     | 1.71    |
| AN       |        |        | mmol/l |          |         |
| AO       | 1.29   | 0.10   | mmol/l | 100%     | -0.16   |
| AP       | 1.25   | 0.13   | mmol/l | 97%      | -1.79   |
| AQ       | 1.28   | 0.13   | mmol/l | 99%      | -0.57   |
| AR       | 1.61   | *      | mmol/l | 124%     | 12.85   |
| AS       | 1.27   |        | mmol/l | 98%      | -0.98   |
| AT       | 1.25   | 0.42   | mmol/l | 97%      | -1.79   |
| AU       | 1.30   | 0.07   | mmol/l | 100%     | 0.24    |
| AV       |        |        | mmol/l |          |         |

|                      | All results       | Outliers excl.    | Unit   |
|----------------------|-------------------|-------------------|--------|
| Mean $\pm$ Cl(99%)   | $1,299 \pm 0,025$ | $1,291 \pm 0,013$ | mmol/l |
| Recov. $\pm$ Cl(99%) | $100,4 \pm 1,9$   | $99,8 \pm 1,0$    | %      |
| SD between labs      | 0,059             | 0,031             | mmol/l |
| RSD between labs     | 4,5               | 2,4               | %      |
| n for calculation    | 40                | 39                |        |



# Sample N167A

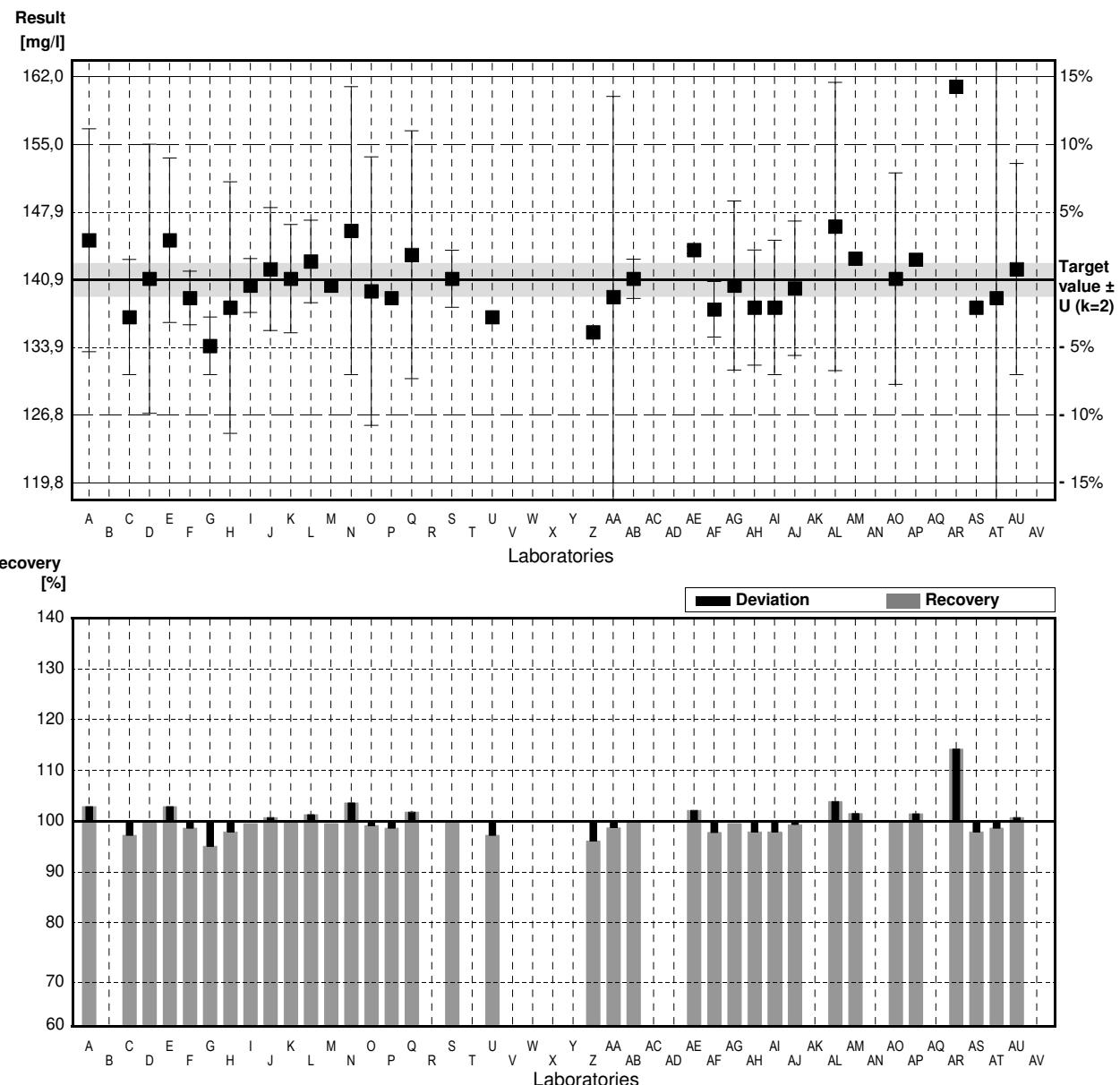
## Parameter Hydrogen carbonate

Target value  $\pm U$  ( $k=2$ ) 140,9 mg/l  $\pm$  1,7 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 137 mg/l  $\pm$  6 mg/l

Stability test mg/l

| Lab Code | Result | $\pm$ | Unit | Recovery | z-Score |
|----------|--------|-------|------|----------|---------|
| A        | 145    | 11,6  | mg/l | 103%     | 1,21    |
| B        |        |       | mg/l |          |         |
| C        | 137    | 6     | mg/l | 97%      | -1,15   |
| D        | 141    | 14    | mg/l | 100%     | 0,03    |
| E        | 145    | 8,57  | mg/l | 103%     | 1,21    |
| F        | 139    | 2,79  | mg/l | 99%      | -0,56   |
| G        | 134    | 3     | mg/l | 95%      | -2,04   |
| H        | 138    | 13,1  | mg/l | 98%      | -0,86   |
| I        | 140,3  | 2,8   | mg/l | 100%     | -0,18   |
| J        | 142    | 6,4   | mg/l | 101%     | 0,33    |
| K        | 141    | 5,64  | mg/l | 100%     | 0,03    |
| L        | 142,8  | 4,3   | mg/l | 101%     | 0,56    |
| M        | 140,3  |       | mg/l | 100%     | -0,18   |
| N        | 146    | 15    | mg/l | 104%     | 1,51    |
| O        | 139,7  | 13,97 | mg/l | 99%      | -0,35   |
| P        | 139    |       | mg/l | 99%      | -0,56   |
| Q        | 143,5  | 12,9  | mg/l | 102%     | 0,77    |
| R        |        |       | mg/l |          |         |
| S        | 141    | 2,96  | mg/l | 100%     | 0,03    |
| T        |        |       | mg/l |          |         |
| U        | 137    |       | mg/l | 97%      | -1,15   |
| V        |        |       | mg/l |          |         |
| W        |        |       | mg/l |          |         |
| X        |        |       | mg/l |          |         |
| Y        |        |       | mg/l |          |         |
| Z        | 135,44 |       | mg/l | 96%      | -1,61   |
| AA       | 139,1  | 20,87 | mg/l | 99%      | -0,53   |
| AB       | 141    | 2,04  | mg/l | 100%     | 0,03    |
| AC       |        |       | mg/l |          |         |
| AD       |        |       | mg/l |          |         |
| AE       | 144    | 0,36  | mg/l | 102%     | 0,92    |
| AF       | 137,81 | 2,89  | mg/l | 98%      | -0,91   |
| AG       | 140,3  | 8,8   | mg/l | 100%     | -0,18   |
| AH       | 138    | 6     | mg/l | 98%      | -0,86   |
| AI       | 138    | 7     | mg/l | 98%      | -0,86   |
| AJ       | 140    | 7     | mg/l | 99%      | -0,27   |
| AK       |        |       | mg/l |          |         |
| AL       | 146,44 | 15    | mg/l | 104%     | 1,64    |
| AM       | 143,1  |       | mg/l | 102%     | 0,65    |
| AN       |        |       | mg/l |          |         |
| AO       | 141    | 11    | mg/l | 100%     | 0,03    |
| AP       | 143    |       | mg/l | 101%     | 0,62    |
| AQ       |        |       | mg/l |          |         |
| AR       | 161    | *     | mg/l | 114%     | 5,94    |
| AS       | 138    |       | mg/l | 98%      | -0,86   |
| AT       | 139    | 47,2  | mg/l | 99%      | -0,56   |
| AU       | 142    | 11    | mg/l | 101%     | 0,33    |
| AV       |        |       | mg/l |          |         |

|                      | All results     | Outliers excl.  | Unit |
|----------------------|-----------------|-----------------|------|
| Mean $\pm$ Cl(99%)   | 141,1 $\pm$ 2,1 | 140,5 $\pm$ 1,4 | mg/l |
| Recov. $\pm$ Cl(99%) | 100,1 $\pm$ 1,5 | 99,7 $\pm$ 1,0  | %    |
| SD between labs      | 4,5             | 2,9             | mg/l |
| RSD between labs     | 3,2             | 2,1             | %    |
| n for calculation    | 35              | 34              |      |



## Sample N167B

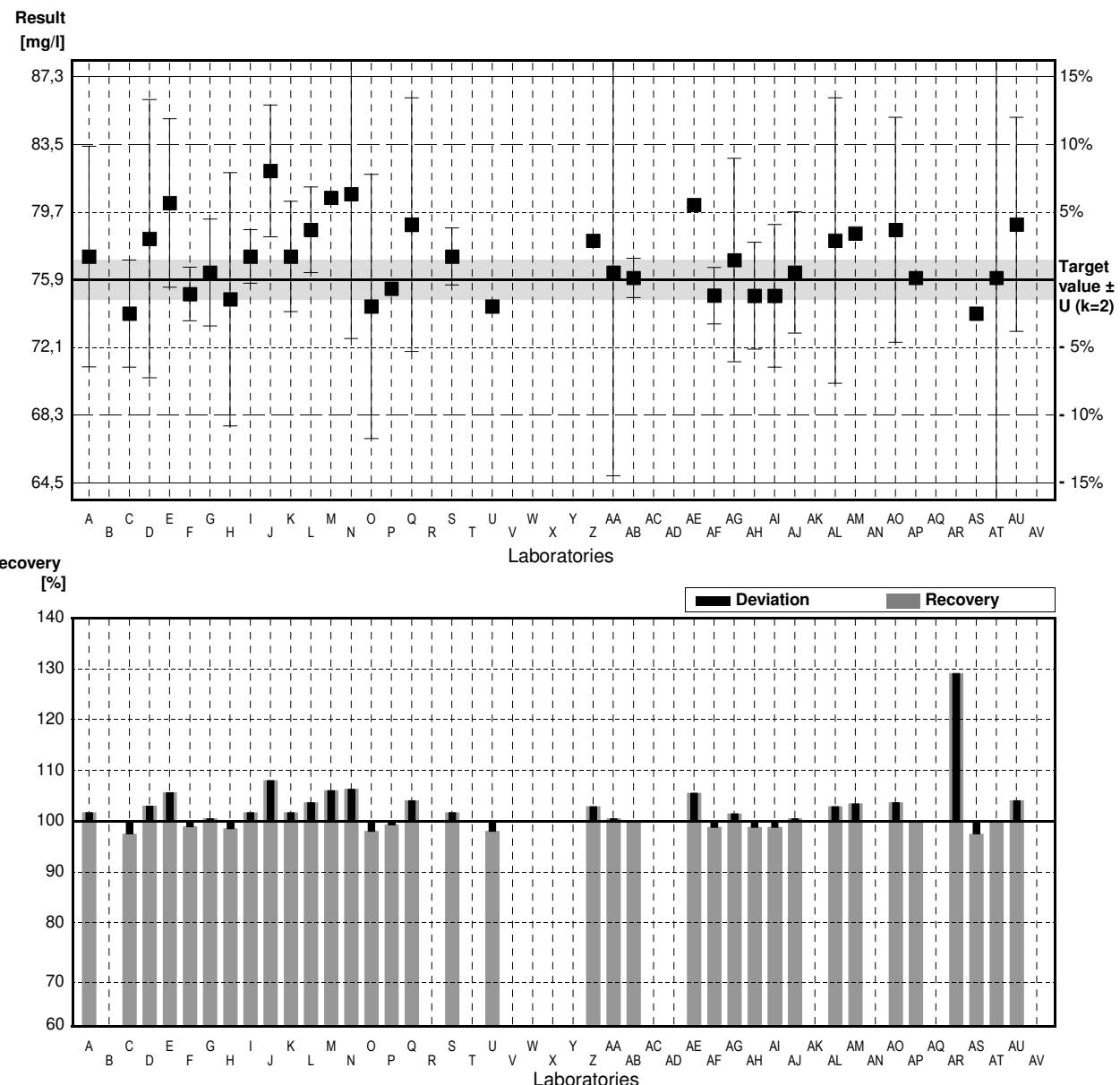
### Parameter Hydrogen carbonate

Target value  $\pm U$  ( $k=2$ ) 75,9 mg/l  $\pm$  1,1 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 74 mg/l  $\pm$  3 mg/l

Stability test mg/l

| Lab Code | Result | $\pm$ | Unit | Recovery | z-Score |
|----------|--------|-------|------|----------|---------|
| A        | 77,2   | 6,18  | mg/l | 102%     | 0,71    |
| B        |        |       | mg/l |          |         |
| C        | 74,0   | 3     | mg/l | 97%      | -1,04   |
| D        | 78,2   | 7,8   | mg/l | 103%     | 1,26    |
| E        | 80,2   | 4,73  | mg/l | 106%     | 2,36    |
| F        | 75,1   | 1,50  | mg/l | 99%      | -0,44   |
| G        | 76,3   | 3     | mg/l | 101%     | 0,22    |
| H        | 74,8   | 7,102 | mg/l | 99%      | -0,60   |
| I        | 77,2   | 1,5   | mg/l | 102%     | 0,71    |
| J        | 82     | 3,7   | mg/l | 108%     | 3,35    |
| K        | 77,2   | 3,09  | mg/l | 102%     | 0,71    |
| L        | 78,7   | 2,4   | mg/l | 104%     | 1,54    |
| M        | 80,5   |       | mg/l | 106%     | 2,53    |
| N        | 80,7   | 8,1   | mg/l | 106%     | 2,64    |
| O        | 74,4   | 7,4   | mg/l | 98%      | -0,82   |
| P        | 75,4   |       | mg/l | 99%      | -0,27   |
| Q        | 78,99  | 7,11  | mg/l | 104%     | 1,70    |
| R        |        |       | mg/l |          |         |
| S        | 77,2   | 1,6   | mg/l | 102%     | 0,71    |
| T        |        |       | mg/l |          |         |
| U        | 74,4   |       | mg/l | 98%      | -0,82   |
| V        |        |       | mg/l |          |         |
| W        |        |       | mg/l |          |         |
| X        |        |       | mg/l |          |         |
| Y        |        |       | mg/l |          |         |
| Z        | 78,09  |       | mg/l | 103%     | 1,20    |
| AA       | 76,3   | 11,4  | mg/l | 101%     | 0,22    |
| AB       | 76     | 1,10  | mg/l | 100%     | 0,05    |
| AC       |        |       | mg/l |          |         |
| AD       |        |       | mg/l |          |         |
| AE       | 80,1   | 0,153 | mg/l | 106%     | 2,31    |
| AF       | 75,01  | 1,58  | mg/l | 99%      | -0,49   |
| AG       | 77,0   | 5,7   | mg/l | 101%     | 0,60    |
| AH       | 75,0   | 3,0   | mg/l | 99%      | -0,49   |
| AI       | 75     | 4     | mg/l | 99%      | -0,49   |
| AJ       | 76,3   | 3,4   | mg/l | 101%     | 0,22    |
| AK       |        |       | mg/l |          |         |
| AL       | 78,1   | 8,0   | mg/l | 103%     | 1,21    |
| AM       | 78,5   |       | mg/l | 103%     | 1,43    |
| AN       |        |       | mg/l |          |         |
| AO       | 78,7   | 6,3   | mg/l | 104%     | 1,54    |
| AP       | 76     |       | mg/l | 100%     | 0,05    |
| AQ       |        |       | mg/l |          |         |
| AR       | 98     | *     | mg/l | 129%     | 12,13   |
| AS       | 74     |       | mg/l | 97%      | -1,04   |
| AT       | 76     | 25,8  | mg/l | 100%     | 0,05    |
| AU       | 79     | 6     | mg/l | 104%     | 1,70    |
| AV       |        |       | mg/l |          |         |

|                      | All results     | Outliers excl.  | Unit |
|----------------------|-----------------|-----------------|------|
| Mean $\pm$ Cl(99%)   | 77,7 $\pm$ 1,9  | 77,1 $\pm$ 1,0  | mg/l |
| Recov. $\pm$ Cl(99%) | 102,4 $\pm$ 2,5 | 101,6 $\pm$ 1,3 | %    |
| SD between labs      | 4,1             | 2,1             | mg/l |
| RSD between labs     | 5,3             | 2,8             | %    |
| n for calculation    | 35              | 34              |      |



# Sample N167A

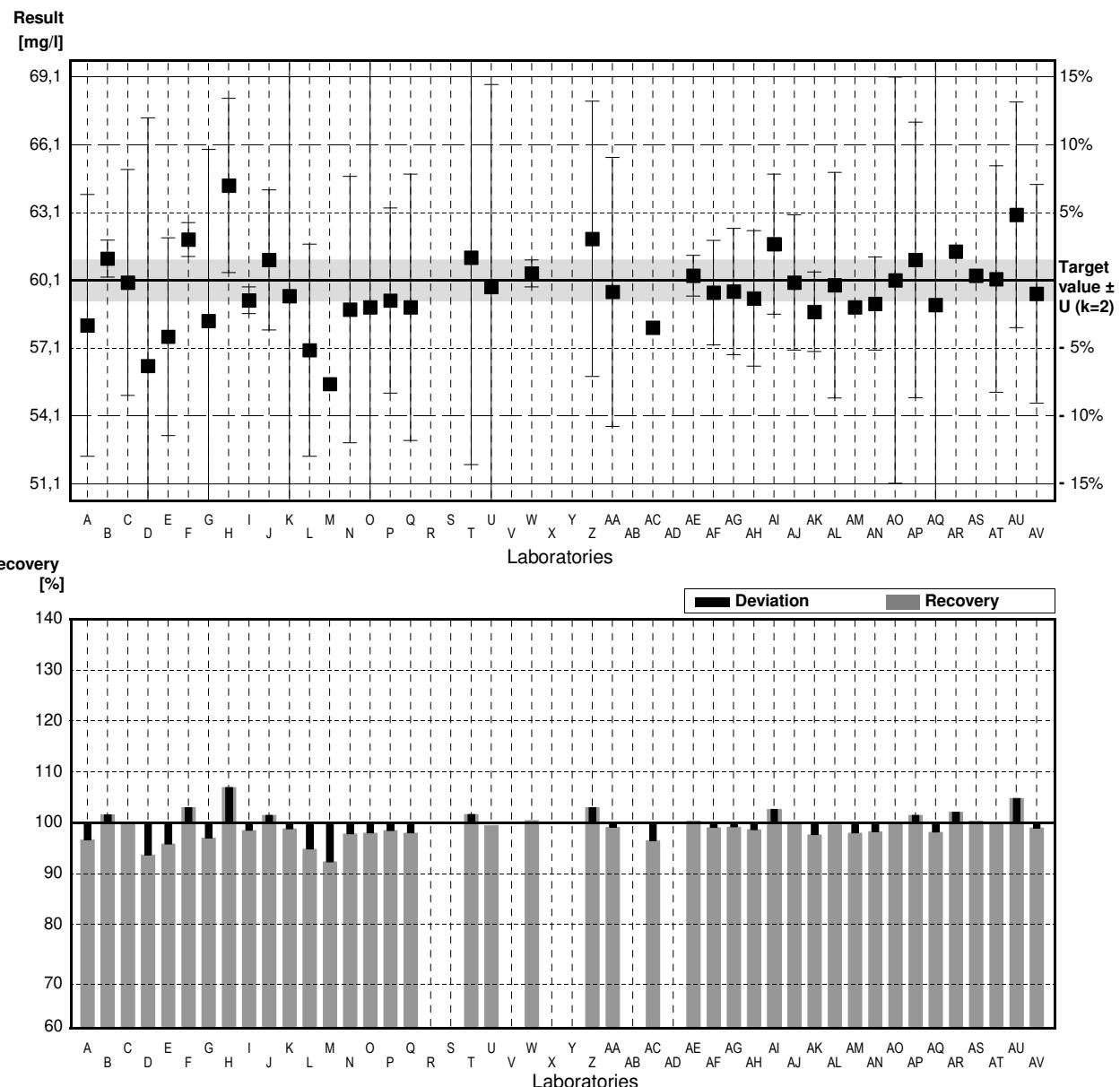
## Parameter Calcium

Target value  $\pm U$  ( $k=2$ ) 60,1 mg/l  $\pm$  0,9 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 64 mg/l  $\pm$  3 mg/l

Stability test mg/l

| Lab Code | Result | $\pm$ | Unit | Recovery | z-Score |
|----------|--------|-------|------|----------|---------|
| A        | 58.098 | 5.80  | mg/l | 97%      | -1.04   |
| B        | 61.06  | 0.82  | mg/l | 102%     | 0.50    |
| C        | 60.0   | 5     | mg/l | 100%     | -0.05   |
| D        | 56.3 * | 11    | mg/l | 94%      | -1.98   |
| E        | 57.6   | 4.38  | mg/l | 96%      | -1.30   |
| F        | 61.9   | 0.745 | mg/l | 103%     | 0.94    |
| G        | 58.3   | 7.6   | mg/l | 97%      | -0.94   |
| H        | 64.3 * | 3.86  | mg/l | 107%     | 2.18    |
| I        | 59.21  | 0.59  | mg/l | 99%      | -0.46   |
| J        | 61     | 3.1   | mg/l | 101%     | 0.47    |
| K        | 59.4   | 10.7  | mg/l | 99%      | -0.36   |
| L        | 57     | 4.7   | mg/l | 95%      | -1.61   |
| M        | 55.5 * |       | mg/l | 92%      | -2.39   |
| N        | 58.8   | 5.9   | mg/l | 98%      | -0.68   |
| O        | 58.9   | 12    | mg/l | 98%      | -0.62   |
| P        | 59.2   | 4.1   | mg/l | 99%      | -0.47   |
| Q        | 58.9   | 5.9   | mg/l | 98%      | -0.62   |
| R        |        |       | mg/l |          |         |
| S        |        |       | mg/l |          |         |
| T        | 61.1   | 9.17  | mg/l | 102%     | 0.52    |
| U        | 59.8   | 8.97  | mg/l | 100%     | -0.16   |
| V        |        |       | mg/l |          |         |
| W        | 60.40  | 0.6   | mg/l | 100%     | 0.16    |
| X        |        |       | mg/l |          |         |
| Y        |        |       | mg/l |          |         |
| Z        | 61.93  | 6.1   | mg/l | 103%     | 0.95    |
| AA       | 59.58  | 5.958 | mg/l | 99%      | -0.27   |
| AB       |        |       | mg/l |          |         |
| AC       | 58     |       | mg/l | 97%      | -1.09   |
| AD       |        |       | mg/l |          |         |
| AE       | 60.3   | 0.9   | mg/l | 100%     | 0.10    |
| AF       | 59.55  | 2.32  | mg/l | 99%      | -0.29   |
| AG       | 59.6   | 2.8   | mg/l | 99%      | -0.26   |
| AH       | 59.3   | 3.0   | mg/l | 99%      | -0.42   |
| AI       | 61.7   | 3.1   | mg/l | 103%     | 0.83    |
| AJ       | 60     | 3     | mg/l | 100%     | -0.05   |
| AK       | 58.7   | 1.76  | mg/l | 98%      | -0.73   |
| AL       | 59.88  | 5.0   | mg/l | 100%     | -0.11   |
| AM       | 58.9   |       | mg/l | 98%      | -0.62   |
| AN       | 59.06  | 2.06  | mg/l | 98%      | -0.54   |
| AO       | 60.1   | 9.0   | mg/l | 100%     | 0.00    |
| AP       | 61     | 6.1   | mg/l | 101%     | 0.47    |
| AQ       | 59.0   | 12    | mg/l | 98%      | -0.57   |
| AR       | 61.37  |       | mg/l | 102%     | 0.66    |
| AS       | 60.3   |       | mg/l | 100%     | 0.10    |
| AT       | 60.15  | 5.02  | mg/l | 100%     | 0.03    |
| AU       | 63 *   | 5     | mg/l | 105%     | 1.51    |
| AV       | 59.5   | 4.85  | mg/l | 99%      | -0.31   |

|                      | All results    | Outliers excl. | Unit |
|----------------------|----------------|----------------|------|
| Mean $\pm$ Cl(99%)   | 59,7 $\pm$ 0,7 | 59,7 $\pm$ 0,5 | mg/l |
| Recov. $\pm$ Cl(99%) | 99,3 $\pm$ 1,2 | 99,3 $\pm$ 0,9 | %    |
| SD between labs      | 1,7            | 1,2            | mg/l |
| RSD between labs     | 2,8            | 2,0            | %    |
| n for calculation    | 41             | 37             |      |



# Sample N167B

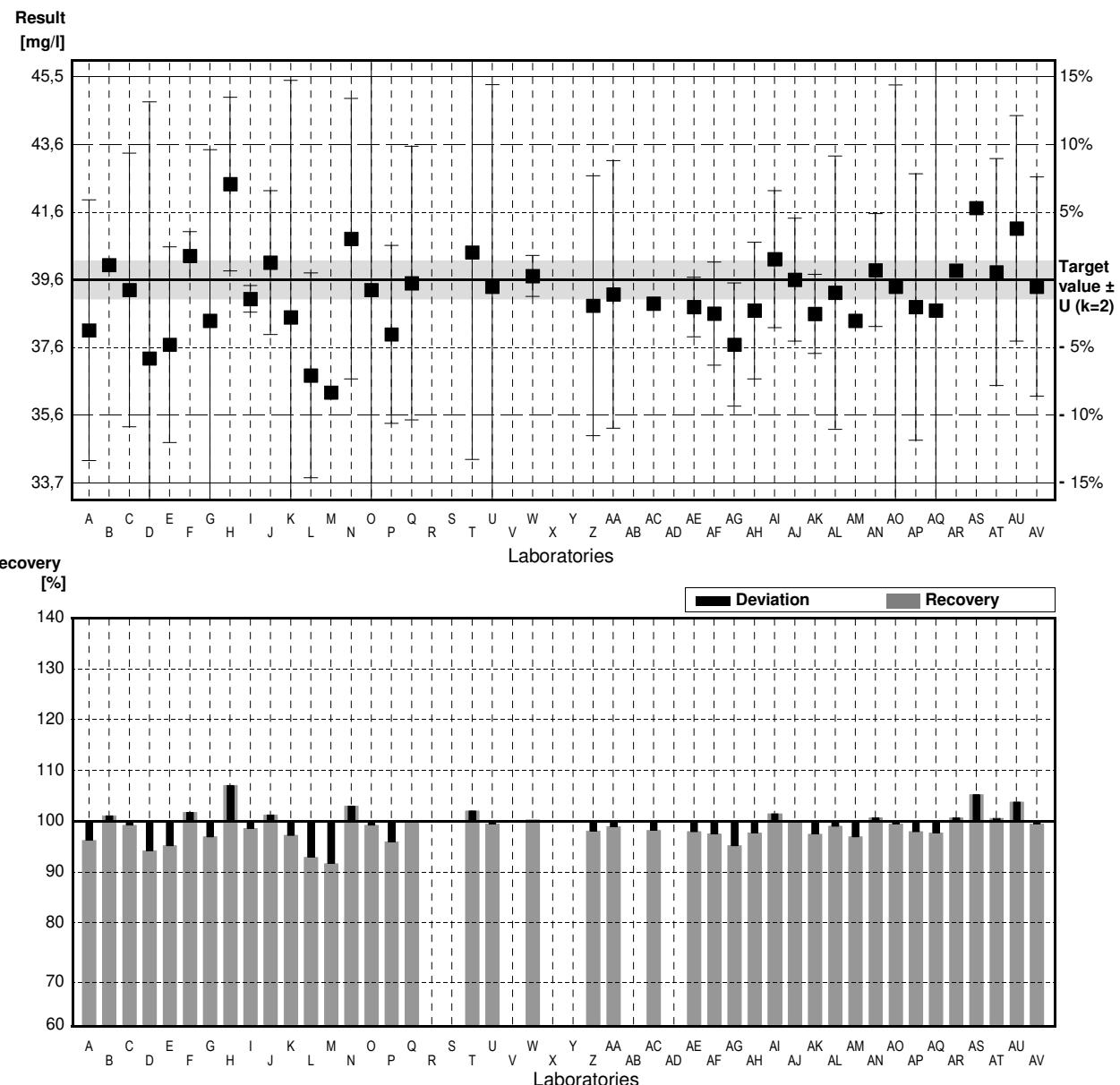
## Parameter Calcium

Target value  $\pm U$  ( $k=2$ ) 39,6 mg/l  $\pm$  0,6 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 42,0 mg/l  $\pm$  1,9 mg/l

Stability test mg/l

| Lab Code | Result | $\pm$ | Unit | Recovery | z-Score |
|----------|--------|-------|------|----------|---------|
| A        | 38.120 | 3.81  | mg/l | 96%      | -1.17   |
| B        | 40.03  | 0.06  | mg/l | 101%     | 0.34    |
| C        | 39.3   | 4     | mg/l | 99%      | -0.24   |
| D        | 37.3   | 7.5   | mg/l | 94%      | -1.82   |
| E        | 37.7   | 2.86  | mg/l | 95%      | -1.50   |
| F        | 40.3   | 0.704 | mg/l | 102%     | 0.55    |
| G        | 38.4   | 5.0   | mg/l | 97%      | -0.95   |
| H        | 42.4 * | 2.54  | mg/l | 107%     | 2.21    |
| I        | 39.04  | 0.39  | mg/l | 99%      | -0.44   |
| J        | 40.1   | 2.1   | mg/l | 101%     | 0.39    |
| K        | 38.5   | 6.93  | mg/l | 97%      | -0.87   |
| L        | 36.8   | 3.0   | mg/l | 93%      | -2.21   |
| M        | 36.3   |       | mg/l | 92%      | -2.60   |
| N        | 40.8   | 4.1   | mg/l | 103%     | 0.95    |
| O        | 39.3   | 7.9   | mg/l | 99%      | -0.24   |
| P        | 38.0   | 2.6   | mg/l | 96%      | -1.26   |
| Q        | 39.5   | 4.0   | mg/l | 100%     | -0.08   |
| R        |        |       | mg/l |          |         |
| S        |        |       | mg/l |          |         |
| T        | 40.4   | 6.06  | mg/l | 102%     | 0.63    |
| U        | 39.4   | 5.91  | mg/l | 99%      | -0.16   |
| V        |        |       | mg/l |          |         |
| W        | 39.71  | 0.6   | mg/l | 100%     | 0.09    |
| X        |        |       | mg/l |          |         |
| Y        |        |       | mg/l |          |         |
| Z        | 38.84  | 3.8   | mg/l | 98%      | -0.60   |
| AA       | 39.17  | 3.917 | mg/l | 99%      | -0.34   |
| AB       |        |       | mg/l |          |         |
| AC       | 38.9   |       | mg/l | 98%      | -0.55   |
| AD       |        |       | mg/l |          |         |
| AE       | 38.8   | 0.872 | mg/l | 98%      | -0.63   |
| AF       | 38.61  | 1.51  | mg/l | 98%      | -0.78   |
| AG       | 37.7   | 1.8   | mg/l | 95%      | -1.50   |
| AH       | 38.7   | 2.0   | mg/l | 98%      | -0.71   |
| AI       | 40.2   | 2.0   | mg/l | 102%     | 0.47    |
| AJ       | 39.6   | 1.8   | mg/l | 100%     | 0.00    |
| AK       | 38.6   | 1.16  | mg/l | 97%      | -0.79   |
| AL       | 39.22  | 4.0   | mg/l | 99%      | -0.30   |
| AM       | 38.4   |       | mg/l | 97%      | -0.95   |
| AN       | 39.88  | 1.65  | mg/l | 101%     | 0.22    |
| AO       | 39.4   | 5.9   | mg/l | 99%      | -0.16   |
| AP       | 38.8   | 3.9   | mg/l | 98%      | -0.63   |
| AQ       | 38.7   | 7.9   | mg/l | 98%      | -0.71   |
| AR       | 39.87  |       | mg/l | 101%     | 0.21    |
| AS       | 41.7   |       | mg/l | 105%     | 1.66    |
| AT       | 39.82  | 3.32  | mg/l | 101%     | 0.17    |
| AU       | 41.1   | 3.3   | mg/l | 104%     | 1.18    |
| AV       | 39.4   | 3.21  | mg/l | 99%      | -0.16   |

|                      | All results    | Outliers excl. | Unit |
|----------------------|----------------|----------------|------|
| Mean $\pm$ CI(99%)   | 39,2 $\pm$ 0,5 | 39,1 $\pm$ 0,5 | mg/l |
| Recov. $\pm$ CI(99%) | 99,0 $\pm$ 1,3 | 98,8 $\pm$ 1,2 | %    |
| SD between labs      | 1,2            | 1,1            | mg/l |
| RSD between labs     | 3,1            | 2,8            | %    |
| n for calculation    | 41             | 40             |      |



# Sample N167A

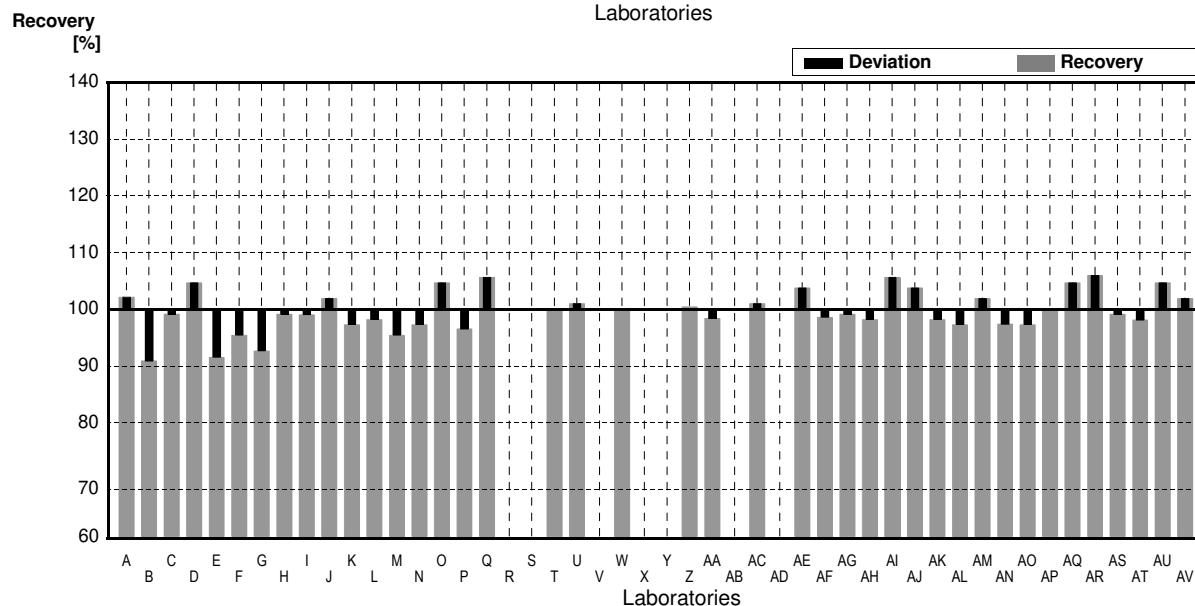
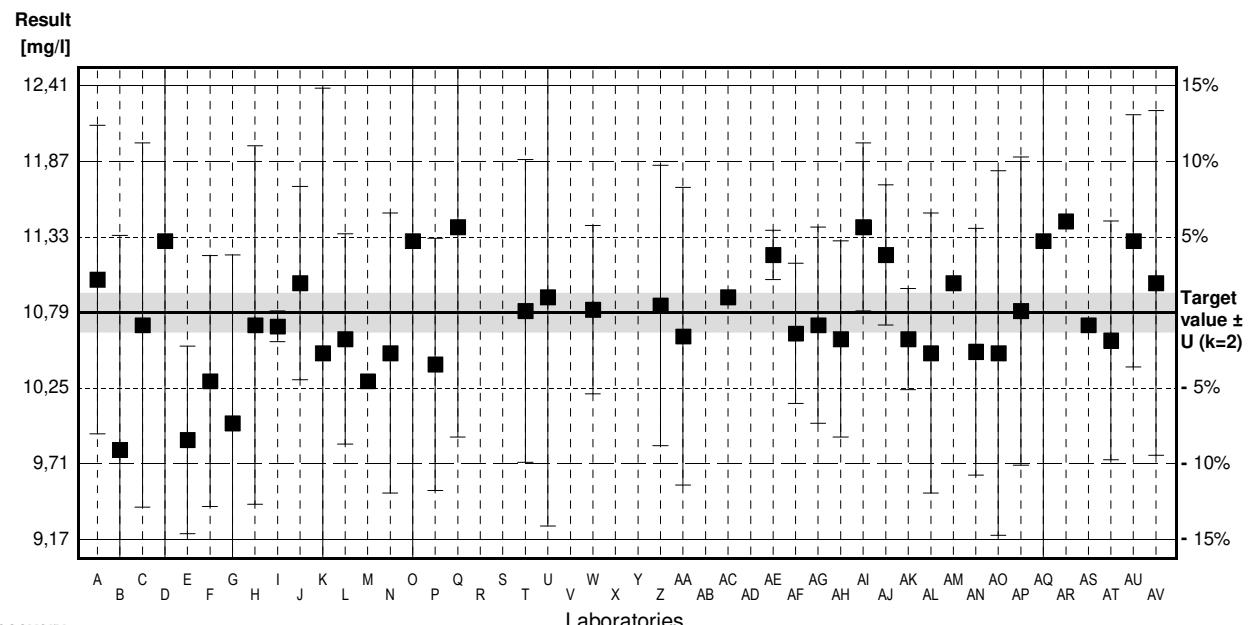
## Parameter Magnesium

Target value  $\pm U$  ( $k=2$ ) 10,79 mg/l  $\pm$  0,14 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        | 11,025 | 1,10  | mg/l | 102%     | 0,62    |
| B        | 9,81   | 1,53  | mg/l | 91%      | -2,59   |
| C        | 10,7   | 1,3   | mg/l | 99%      | -0,24   |
| D        | 11,3   | 2,25  | mg/l | 105%     | 1,35    |
| E        | 9,88   | 0,67  | mg/l | 92%      | -2,41   |
| F        | 10,3   | 0,896 | mg/l | 95%      | -1,30   |
| G        | 10,0   | 1,2   | mg/l | 93%      | -2,09   |
| H        | 10,7   | 1,28  | mg/l | 99%      | -0,24   |
| I        | 10,69  | 0,11  | mg/l | 99%      | -0,26   |
| J        | 11,0   | 0,69  | mg/l | 102%     | 0,56    |
| K        | 10,5   | 1,89  | mg/l | 97%      | -0,77   |
| L        | 10,6   | 0,75  | mg/l | 98%      | -0,50   |
| M        | 10,3   |       | mg/l | 95%      | -1,30   |
| N        | 10,5   | 1,0   | mg/l | 97%      | -0,77   |
| O        | 11,3   | 2,3   | mg/l | 105%     | 1,35    |
| P        | 10,42  | 0,9   | mg/l | 97%      | -0,98   |
| Q        | 11,4   | 1,5   | mg/l | 106%     | 1,62    |
| R        |        |       | mg/l |          |         |
| S        |        |       | mg/l |          |         |
| T        | 10,8   | 1,08  | mg/l | 100%     | 0,03    |
| U        | 10,9   | 1,635 | mg/l | 101%     | 0,29    |
| V        |        |       | mg/l |          |         |
| W        | 10,81  | 0,6   | mg/l | 100%     | 0,05    |
| X        |        |       | mg/l |          |         |
| Y        |        |       | mg/l |          |         |
| Z        | 10,84  | 1,0   | mg/l | 100%     | 0,13    |
| AA       | 10,62  | 1,062 | mg/l | 98%      | -0,45   |
| AB       |        |       | mg/l |          |         |
| AC       | 10,9   |       | mg/l | 101%     | 0,29    |
| AD       |        |       | mg/l |          |         |
| AE       | 11,2   | 0,176 | mg/l | 104%     | 1,09    |
| AF       | 10,64  | 0,50  | mg/l | 99%      | -0,40   |
| AG       | 10,7   | 0,7   | mg/l | 99%      | -0,24   |
| AH       | 10,6   | 0,7   | mg/l | 98%      | -0,50   |
| AI       | 11,4   | 0,6   | mg/l | 106%     | 1,62    |
| AJ       | 11,2   | 0,5   | mg/l | 104%     | 1,09    |
| AK       | 10,6   | 0,36  | mg/l | 98%      | -0,50   |
| AL       | 10,5   | 1,0   | mg/l | 97%      | -0,77   |
| AM       | 11,0   |       | mg/l | 102%     | 0,56    |
| AN       | 10,51  | 0,88  | mg/l | 97%      | -0,74   |
| AO       | 10,5   | 1,3   | mg/l | 97%      | -0,77   |
| AP       | 10,8   | 1,1   | mg/l | 100%     | 0,03    |
| AQ       | 11,3   | 2,3   | mg/l | 105%     | 1,35    |
| AR       | 11,44  |       | mg/l | 106%     | 1,72    |
| AS       | 10,7   |       | mg/l | 99%      | -0,24   |
| AT       | 10,59  | 0,852 | mg/l | 98%      | -0,53   |
| AU       | 11,3   | 0,9   | mg/l | 105%     | 1,35    |
| AV       | 11,0   | 1,23  | mg/l | 102%     | 0,56    |

|                      | All results      | Outliers excl.   | Unit |
|----------------------|------------------|------------------|------|
| Mean $\pm$ CI(99%)   | $10,76 \pm 0,17$ | $10,76 \pm 0,17$ | mg/l |
| Recov. $\pm$ CI(99%) | $99,7 \pm 1,6$   | $99,7 \pm 1,6$   | %    |
| SD between labs      | 0,40             | 0,40             | mg/l |
| RSD between labs     | 3,7              | 3,7              | %    |
| n for calculation    | 41               | 41               |      |



# Sample N167B

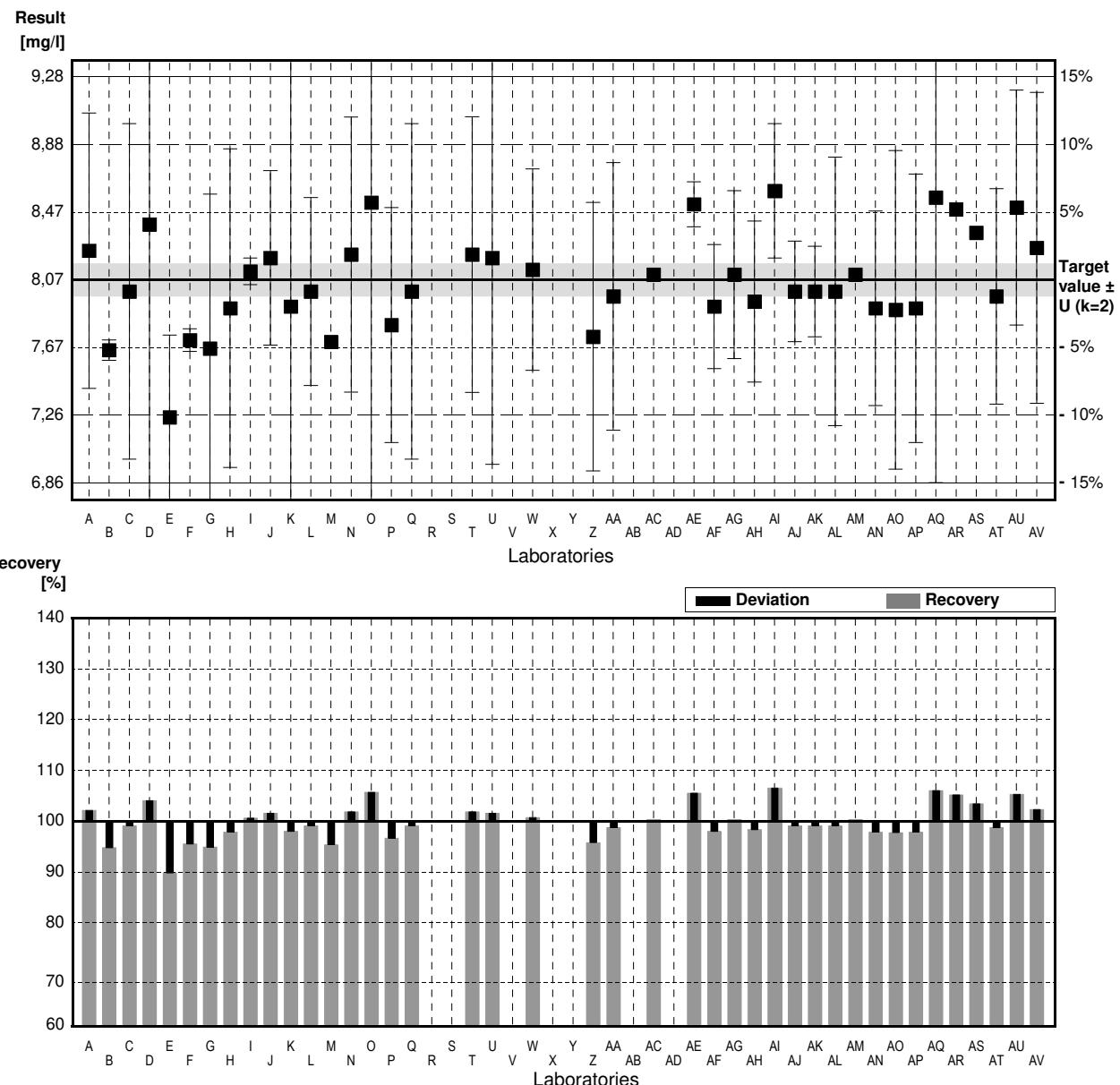
## Parameter Magnesium

Target value  $\pm U$  ( $k=2$ ) 8,07 mg/l  $\pm$  0,10 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 8,5 mg/l  $\pm$  0,5 mg/l

Stability test mg/l

| Lab Code | Result | $\pm$  | Unit | Recovery | z-Score |
|----------|--------|--------|------|----------|---------|
| A        | 8.243  | 0.82   | mg/l | 102%     | 0.61    |
| B        | 7.65   | 0.06   | mg/l | 95%      | -1.49   |
| C        | 8.0    | 1      | mg/l | 99%      | -0.25   |
| D        | 8.40   | 1.7    | mg/l | 104%     | 1.17    |
| E        | 7.25   | 0.49   | mg/l | 90%      | -2.90   |
| F        | 7.71   | 0.0672 | mg/l | 96%      | -1.27   |
| G        | 7.66   | 0.92   | mg/l | 95%      | -1.45   |
| H        | 7.9    | 0.95   | mg/l | 98%      | -0.60   |
| I        | 8.12   | 0.08   | mg/l | 101%     | 0.18    |
| J        | 8.2    | 0.52   | mg/l | 102%     | 0.46    |
| K        | 7.91   | 1.42   | mg/l | 98%      | -0.57   |
| L        | 8.0    | 0.56   | mg/l | 99%      | -0.25   |
| M        | 7.70   |        | mg/l | 95%      | -1.31   |
| N        | 8.22   | 0.82   | mg/l | 102%     | 0.53    |
| O        | 8.53   | 1.7    | mg/l | 106%     | 1.63    |
| P        | 7.80   | 0.7    | mg/l | 97%      | -0.96   |
| Q        | 8.0    | 1.0    | mg/l | 99%      | -0.25   |
| R        |        |        | mg/l |          |         |
| S        |        |        | mg/l |          |         |
| T        | 8.22   | 0.822  | mg/l | 102%     | 0.53    |
| U        | 8.2    | 1.23   | mg/l | 102%     | 0.46    |
| V        |        |        | mg/l |          |         |
| W        | 8.13   | 0.6    | mg/l | 101%     | 0.21    |
| X        |        |        | mg/l |          |         |
| Y        |        |        | mg/l |          |         |
| Z        | 7.73   | 0.8    | mg/l | 96%      | -1.20   |
| AA       | 7.97   | 0.797  | mg/l | 99%      | -0.35   |
| AB       |        |        | mg/l |          |         |
| AC       | 8.1    |        | mg/l | 100%     | 0.11    |
| AD       |        |        | mg/l |          |         |
| AE       | 8.52   | 0.134  | mg/l | 106%     | 1.59    |
| AF       | 7.91   | 0.37   | mg/l | 98%      | -0.57   |
| AG       | 8.1    | 0.5    | mg/l | 100%     | 0.11    |
| AH       | 7.94   | 0.48   | mg/l | 98%      | -0.46   |
| AI       | 8.6    | 0.4    | mg/l | 107%     | 1.88    |
| AJ       | 8.0    | 0.3    | mg/l | 99%      | -0.25   |
| AK       | 8.0    | 0.27   | mg/l | 99%      | -0.25   |
| AL       | 8.0    | 0.8    | mg/l | 99%      | -0.25   |
| AM       | 8.1    |        | mg/l | 100%     | 0.11    |
| AN       | 7.90   | 0.58   | mg/l | 98%      | -0.60   |
| AO       | 7.89   | 0.95   | mg/l | 98%      | -0.64   |
| AP       | 7.9    | 0.8    | mg/l | 98%      | -0.60   |
| AQ       | 8.56   | 1.7    | mg/l | 106%     | 1.73    |
| AR       | 8.49   |        | mg/l | 105%     | 1.49    |
| AS       | 8.35   |        | mg/l | 103%     | 0.99    |
| AT       | 7.97   | 0.642  | mg/l | 99%      | -0.35   |
| AU       | 8.5    | 0.7    | mg/l | 105%     | 1.52    |
| AV       | 8.26   | 0.927  | mg/l | 102%     | 0.67    |

|                      | All results     | Outliers excl.  | Unit |
|----------------------|-----------------|-----------------|------|
| Mean $\pm$ Cl(99%)   | 8,06 $\pm$ 0,12 | 8,06 $\pm$ 0,12 | mg/l |
| Recov. $\pm$ Cl(99%) | 99,9 $\pm$ 1,5  | 99,9 $\pm$ 1,5  | %    |
| SD between labs      | 0,29            | 0,29            | mg/l |
| RSD between labs     | 3,6             | 3,6             | %    |
| n for calculation    | 41              | 41              |      |



# Sample N167A

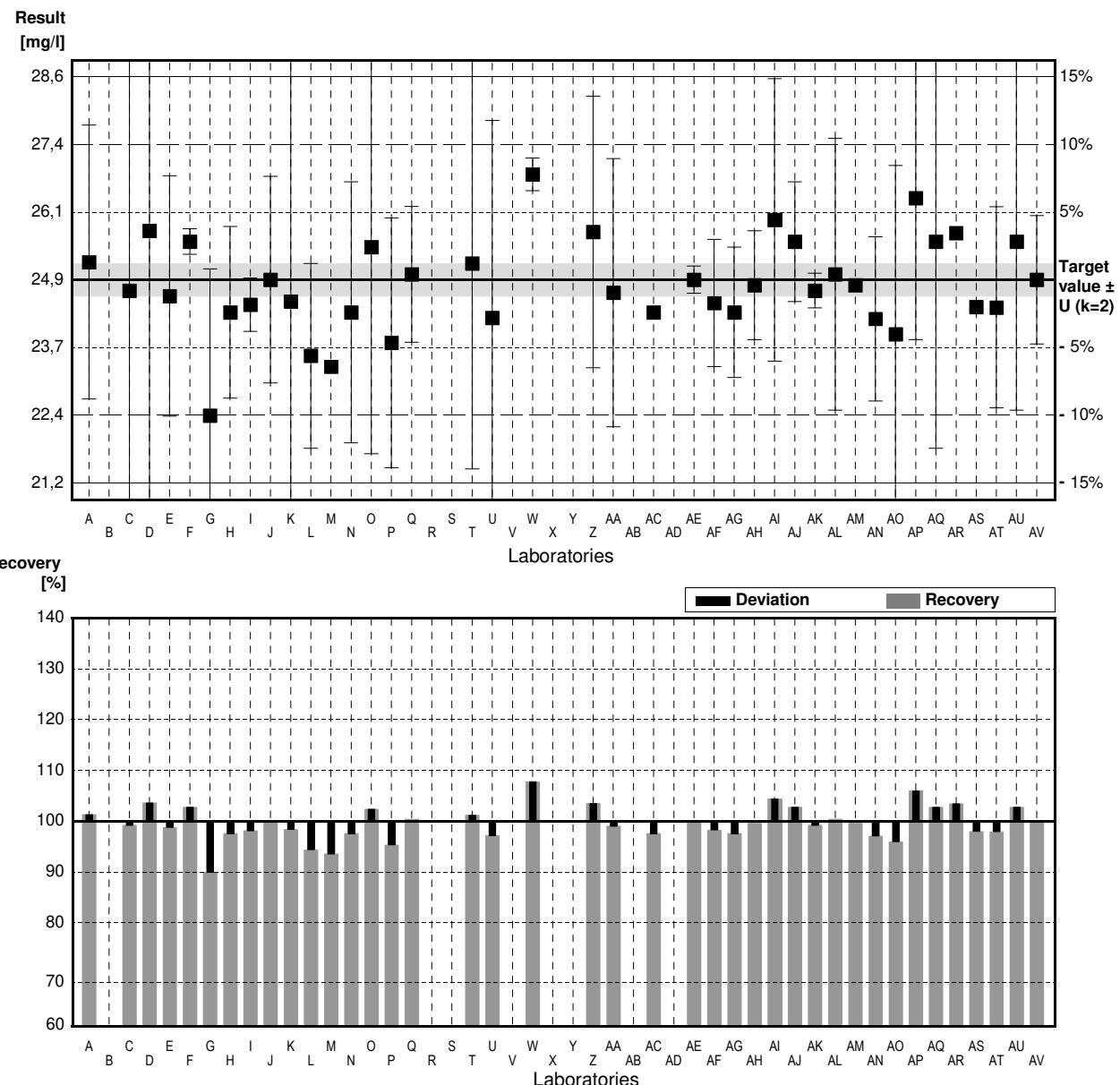
## Parameter Sodium

Target value  $\pm U$  ( $k=2$ ) 24,9 mg/l  $\pm$  0,3 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 25,6 mg/l  $\pm$  1,3 mg/l

Stability test mg/l

| Lab Code | Result  | $\pm$ | Unit | Recovery | z-Score |
|----------|---------|-------|------|----------|---------|
| A        | 25,223  | 2,52  | mg/l | 101%     | 0,41    |
| B        |         |       | mg/l |          |         |
| C        | 24,7    | 4     | mg/l | 99%      | -0,25   |
| D        | 25,8    | 5,2   | mg/l | 104%     | 1,13    |
| E        | 24,6    | 2,21  | mg/l | 99%      | -0,38   |
| F        | 25,6    | 0,235 | mg/l | 103%     | 0,88    |
| G        | 22,4 *  | 2,7   | mg/l | 90%      | -3,14   |
| H        | 24,3    | 1,58  | mg/l | 98%      | -0,75   |
| I        | 24,44   | 0,49  | mg/l | 98%      | -0,58   |
| J        | 24,9    | 1,9   | mg/l | 100%     | 0,00    |
| K        | 24,5    | 4,41  | mg/l | 98%      | -0,50   |
| L        | 23,5    | 1,7   | mg/l | 94%      | -1,76   |
| M        | 23,3    |       | mg/l | 94%      | -2,01   |
| N        | 24,3    | 2,4   | mg/l | 98%      | -0,75   |
| O        | 25,5    | 3,8   | mg/l | 102%     | 0,75    |
| P        | 23,74   | 2,3   | mg/l | 95%      | -1,46   |
| Q        | 25,0    | 1,25  | mg/l | 100%     | 0,13    |
| R        |         |       | mg/l |          |         |
| S        |         |       | mg/l |          |         |
| T        | 25,2    | 3,78  | mg/l | 101%     | 0,38    |
| U        | 24,2    | 3,63  | mg/l | 97%      | -0,88   |
| V        |         |       | mg/l |          |         |
| W        | 26,84 * | 0,3   | mg/l | 108%     | 2,43    |
| X        |         |       | mg/l |          |         |
| Y        |         |       | mg/l |          |         |
| Z        | 25,78   | 2,5   | mg/l | 104%     | 1,10    |
| AA       | 24,66   | 2,466 | mg/l | 99%      | -0,30   |
| AB       |         |       | mg/l |          |         |
| AC       | 24,3    |       | mg/l | 98%      | -0,75   |
| AD       |         |       | mg/l |          |         |
| AE       | 24,9    | 0,252 | mg/l | 100%     | 0,00    |
| AF       | 24,47   | 1,17  | mg/l | 98%      | -0,54   |
| AG       | 24,3    | 1,2   | mg/l | 98%      | -0,75   |
| AH       | 24,8    | 1,0   | mg/l | 100%     | -0,13   |
| AI       | 26,0    | 2,6   | mg/l | 104%     | 1,38    |
| AJ       | 25,6    | 1,1   | mg/l | 103%     | 0,88    |
| AK       | 24,7    | 0,32  | mg/l | 99%      | -0,25   |
| AL       | 25,0    | 2,5   | mg/l | 100%     | 0,13    |
| AM       | 24,8    |       | mg/l | 100%     | -0,13   |
| AN       | 24,18   | 1,51  | mg/l | 97%      | -0,90   |
| AO       | 23,9    | 3,1   | mg/l | 96%      | -1,26   |
| AP       | 26,4    | 2,6   | mg/l | 106%     | 1,88    |
| AQ       | 25,6    | 3,8   | mg/l | 103%     | 0,88    |
| AR       | 25,76   |       | mg/l | 103%     | 1,08    |
| AS       | 24,4    |       | mg/l | 98%      | -0,63   |
| AT       | 24,39   | 1,85  | mg/l | 98%      | -0,64   |
| AU       | 25,6    | 3,1   | mg/l | 103%     | 0,88    |
| AV       | 24,9    | 1,18  | mg/l | 100%     | 0,00    |

|                      | All results    | Outliers excl. | Unit |
|----------------------|----------------|----------------|------|
| Mean $\pm$ CI(99%)   | 24,8 $\pm$ 0,4 | 24,8 $\pm$ 0,3 | mg/l |
| Recov. $\pm$ CI(99%) | 99,6 $\pm$ 1,5 | 99,7 $\pm$ 1,3 | %    |
| SD between labs      | 0,9            | 0,7            | mg/l |
| RSD between labs     | 3,5            | 2,9            | %    |
| n for calculation    | 40             | 38             |      |



# Sample N167B

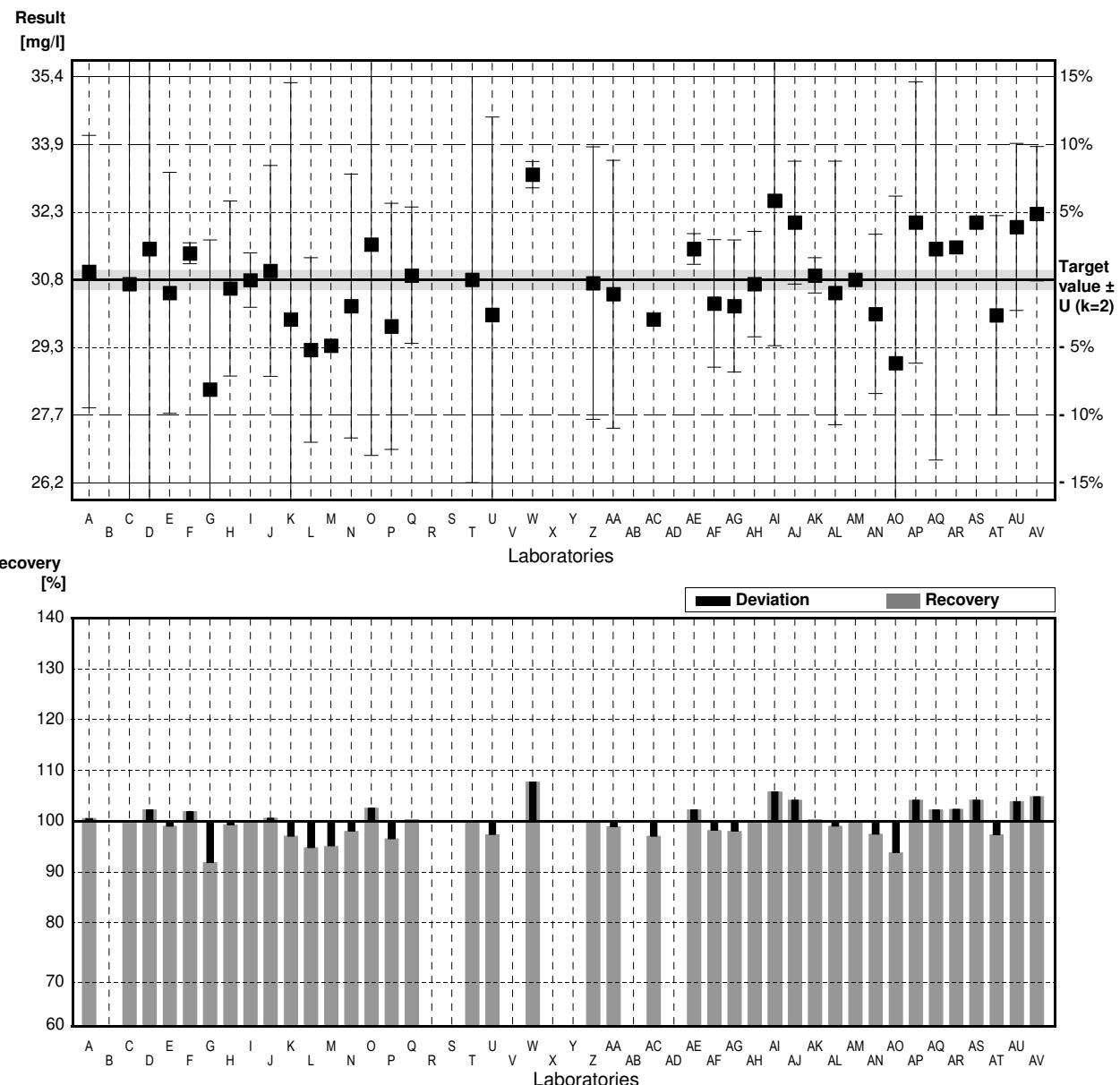
## Parameter Sodium

Target value  $\pm U$  ( $k=2$ ) 30,8 mg/l  $\pm$  0,2 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 32,3 mg/l  $\pm$  1,5 mg/l

Stability test mg/l

| Lab Code | Result | $\pm$ | Unit | Recovery | z-Score |
|----------|--------|-------|------|----------|---------|
| A        | 30,982 | 3,1   | mg/l | 101%     | 0,18    |
| B        |        |       | mg/l |          |         |
| C        | 30,7   | 5     | mg/l | 100%     | -0,10   |
| D        | 31,5   | 6,3   | mg/l | 102%     | 0,71    |
| E        | 30,5   | 2,74  | mg/l | 99%      | -0,30   |
| F        | 31,4   | 0,237 | mg/l | 102%     | 0,61    |
| G        | 28,3   | 3,4   | mg/l | 92%      | -2,54   |
| H        | 30,6   | 1,99  | mg/l | 99%      | -0,20   |
| I        | 30,79  | 0,62  | mg/l | 100%     | -0,01   |
| J        | 31,0   | 2,4   | mg/l | 101%     | 0,20    |
| K        | 29,9   | 5,38  | mg/l | 97%      | -0,91   |
| L        | 29,2   | 2,1   | mg/l | 95%      | -1,62   |
| M        | 29,3   |       | mg/l | 95%      | -1,52   |
| N        | 30,2   | 3,0   | mg/l | 98%      | -0,61   |
| O        | 31,6   | 4,8   | mg/l | 103%     | 0,81    |
| P        | 29,74  | 2,8   | mg/l | 97%      | -1,08   |
| Q        | 30,9   | 1,55  | mg/l | 100%     | 0,10    |
| R        |        |       | mg/l |          |         |
| S        |        |       | mg/l |          |         |
| T        | 30,8   | 4,62  | mg/l | 100%     | 0,00    |
| U        | 30,0   | 4,5   | mg/l | 97%      | -0,81   |
| V        |        |       | mg/l |          |         |
| W        | 33,19  | 0,3   | mg/l | 108%     | 2,42    |
| X        |        |       | mg/l |          |         |
| Y        |        |       | mg/l |          |         |
| Z        | 30,72  | 3,1   | mg/l | 100%     | -0,08   |
| AA       | 30,47  | 3,047 | mg/l | 99%      | -0,33   |
| AB       |        |       | mg/l |          |         |
| AC       | 29,9   |       | mg/l | 97%      | -0,91   |
| AD       |        |       | mg/l |          |         |
| AE       | 31,5   | 0,351 | mg/l | 102%     | 0,71    |
| AF       | 30,26  | 1,45  | mg/l | 98%      | -0,55   |
| AG       | 30,2   | 1,5   | mg/l | 98%      | -0,61   |
| AH       | 30,7   | 1,2   | mg/l | 100%     | -0,10   |
| AI       | 32,6   | 3,3   | mg/l | 106%     | 1,83    |
| AJ       | 32,1   | 1,4   | mg/l | 104%     | 1,32    |
| AK       | 30,9   | 0,40  | mg/l | 100%     | 0,10    |
| AL       | 30,5   | 3     | mg/l | 99%      | -0,30   |
| AM       | 30,8   |       | mg/l | 100%     | 0,00    |
| AN       | 30,02  | 1,81  | mg/l | 97%      | -0,79   |
| AO       | 28,9   | 3,8   | mg/l | 94%      | -1,93   |
| AP       | 32,1   | 3,2   | mg/l | 104%     | 1,32    |
| AQ       | 31,5   | 4,8   | mg/l | 102%     | 0,71    |
| AR       | 31,54  |       | mg/l | 102%     | 0,75    |
| AS       | 32,1   |       | mg/l | 104%     | 1,32    |
| AT       | 29,99  | 2,27  | mg/l | 97%      | -0,82   |
| AU       | 32,0   | 1,9   | mg/l | 104%     | 1,22    |
| AV       | 32,3   | 1,53  | mg/l | 105%     | 1,52    |

|                      | All results     | Outliers excl.  | Unit |
|----------------------|-----------------|-----------------|------|
| Mean $\pm$ Cl(99%)   | 30,8 $\pm$ 0,4  | 30,8 $\pm$ 0,4  | mg/l |
| Recov. $\pm$ Cl(99%) | 100,0 $\pm$ 1,4 | 100,0 $\pm$ 1,4 | %    |
| SD between labs      | 1,0             | 1,0             | mg/l |
| RSD between labs     | 3,4             | 3,4             | %    |
| n for calculation    | 40              | 40              |      |



# Sample N167A

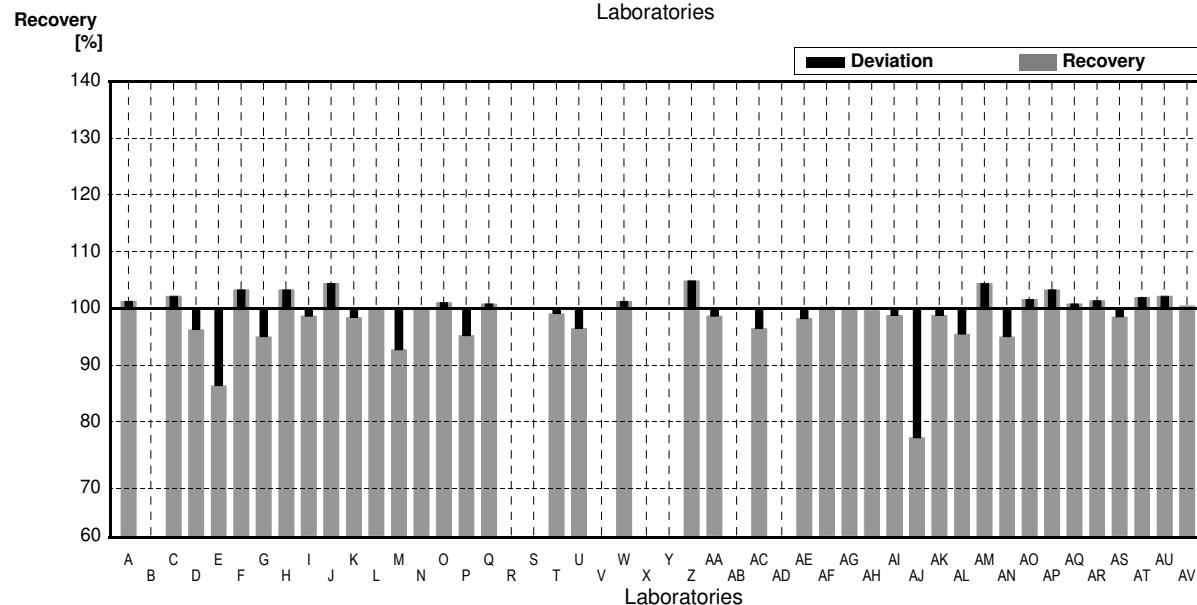
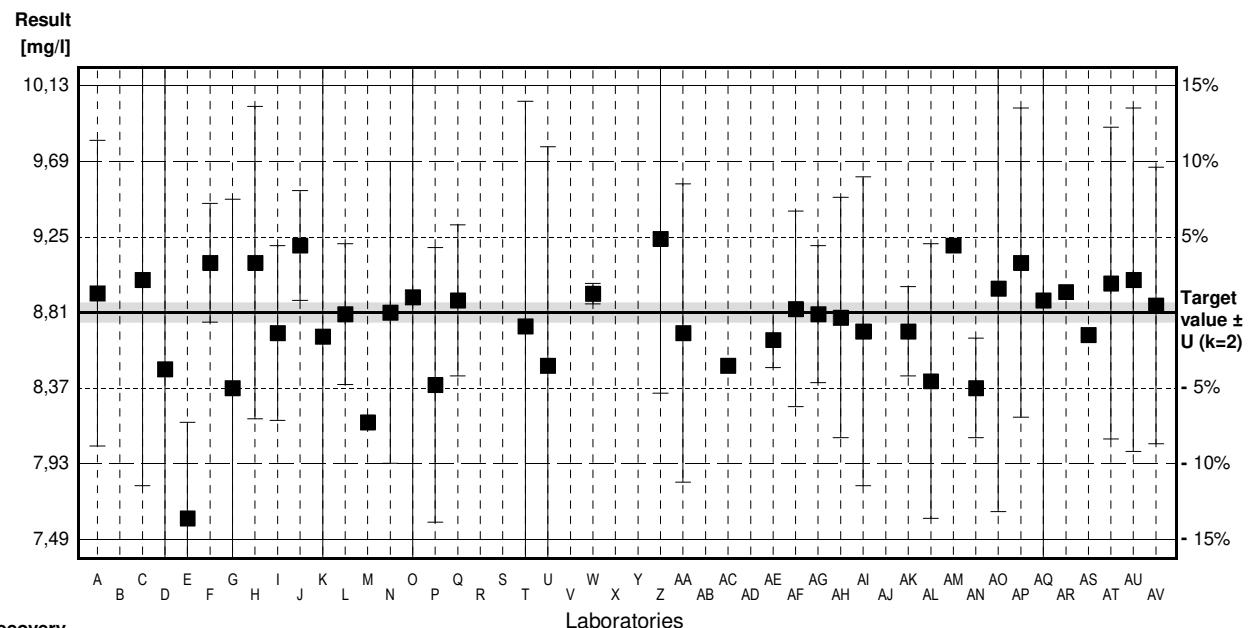
## Parameter Potassium

Target value  $\pm U$  ( $k=2$ ) 8,81 mg/l  $\pm$  0,06 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 8,9 mg/l  $\pm$  0,4 mg/l

Stability test mg/l

| Lab Code | Result | $\pm$ | Unit | Recovery | z-Score |
|----------|--------|-------|------|----------|---------|
| A        | 8,922  | 0,89  | mg/l | 101%     | 0,30    |
| B        |        |       | mg/l |          |         |
| C        | 9,00   | 1,2   | mg/l | 102%     | 0,50    |
| D        | 8,48   | 1,7   | mg/l | 96%      | -0,87   |
| E        | 7,61 * | 0,56  | mg/l | 86%      | -3,17   |
| F        | 9,10   | 0,346 | mg/l | 103%     | 0,77    |
| G        | 8,37   | 1,1   | mg/l | 95%      | -1,16   |
| H        | 9,1    | 0,91  | mg/l | 103%     | 0,77    |
| I        | 8,69   | 0,51  | mg/l | 99%      | -0,32   |
| J        | 9,2    | 0,32  | mg/l | 104%     | 1,03    |
| K        | 8,67   | 1,56  | mg/l | 98%      | -0,37   |
| L        | 8,8    | 0,41  | mg/l | 100%     | -0,03   |
| M        | 8,17   |       | mg/l | 93%      | -1,69   |
| N        | 8,81   | 0,88  | mg/l | 100%     | 0,00    |
| O        | 8,90   | 1,8   | mg/l | 101%     | 0,24    |
| P        | 8,388  | 0,8   | mg/l | 95%      | -1,11   |
| Q        | 8,88   | 0,44  | mg/l | 101%     | 0,18    |
| R        |        |       | mg/l |          |         |
| S        |        |       | mg/l |          |         |
| T        | 8,73   | 1,31  | mg/l | 99%      | -0,21   |
| U        | 8,5    | 1,275 | mg/l | 96%      | -0,82   |
| V        |        |       | mg/l |          |         |
| W        | 8,92   | 0,06  | mg/l | 101%     | 0,29    |
| X        |        |       | mg/l |          |         |
| Y        |        |       | mg/l |          |         |
| Z        | 9,24   | 0,9   | mg/l | 105%     | 1,14    |
| AA       | 8,69   | 0,869 | mg/l | 99%      | -0,32   |
| AB       |        |       | mg/l |          |         |
| AC       | 8,5    |       | mg/l | 96%      | -0,82   |
| AD       |        |       | mg/l |          |         |
| AE       | 8,65   | 0,161 | mg/l | 98%      | -0,42   |
| AF       | 8,83   | 0,57  | mg/l | 100%     | 0,05    |
| AG       | 8,8    | 0,4   | mg/l | 100%     | -0,03   |
| AH       | 8,78   | 0,70  | mg/l | 100%     | -0,08   |
| AI       | 8,7    | 0,9   | mg/l | 99%      | -0,29   |
| AJ       | 6,8 *  | 0,3   | mg/l | 77%      | -5,31   |
| AK       | 8,7    | 0,26  | mg/l | 99%      | -0,29   |
| AL       | 8,41   | 0,8   | mg/l | 95%      | -1,06   |
| AM       | 9,2    |       | mg/l | 104%     | 1,03    |
| AN       | 8,37   | 0,29  | mg/l | 95%      | -1,16   |
| AO       | 8,95   | 1,3   | mg/l | 102%     | 0,37    |
| AP       | 9,1    | 0,9   | mg/l | 103%     | 0,77    |
| AQ       | 8,88   | 1,8   | mg/l | 101%     | 0,18    |
| AR       | 8,93   |       | mg/l | 101%     | 0,32    |
| AS       | 8,68   |       | mg/l | 99%      | -0,34   |
| AT       | 8,98   | 0,908 | mg/l | 102%     | 0,45    |
| AU       | 9,0    | 1,0   | mg/l | 102%     | 0,50    |
| AV       | 8,85   | 0,806 | mg/l | 100%     | 0,11    |

|                      | All results     | Outliers excl.  | Unit |
|----------------------|-----------------|-----------------|------|
| Mean $\pm$ Cl(99%)   | 8,71 $\pm$ 0,19 | 8,79 $\pm$ 0,11 | mg/l |
| Recov. $\pm$ Cl(99%) | 98,8 $\pm$ 2,1  | 99,7 $\pm$ 1,3  | %    |
| SD between labs      | 0,44            | 0,26            | mg/l |
| RSD between labs     | 5,0             | 2,9             | %    |
| n for calculation    | 40              | 38              |      |



# Sample N167B

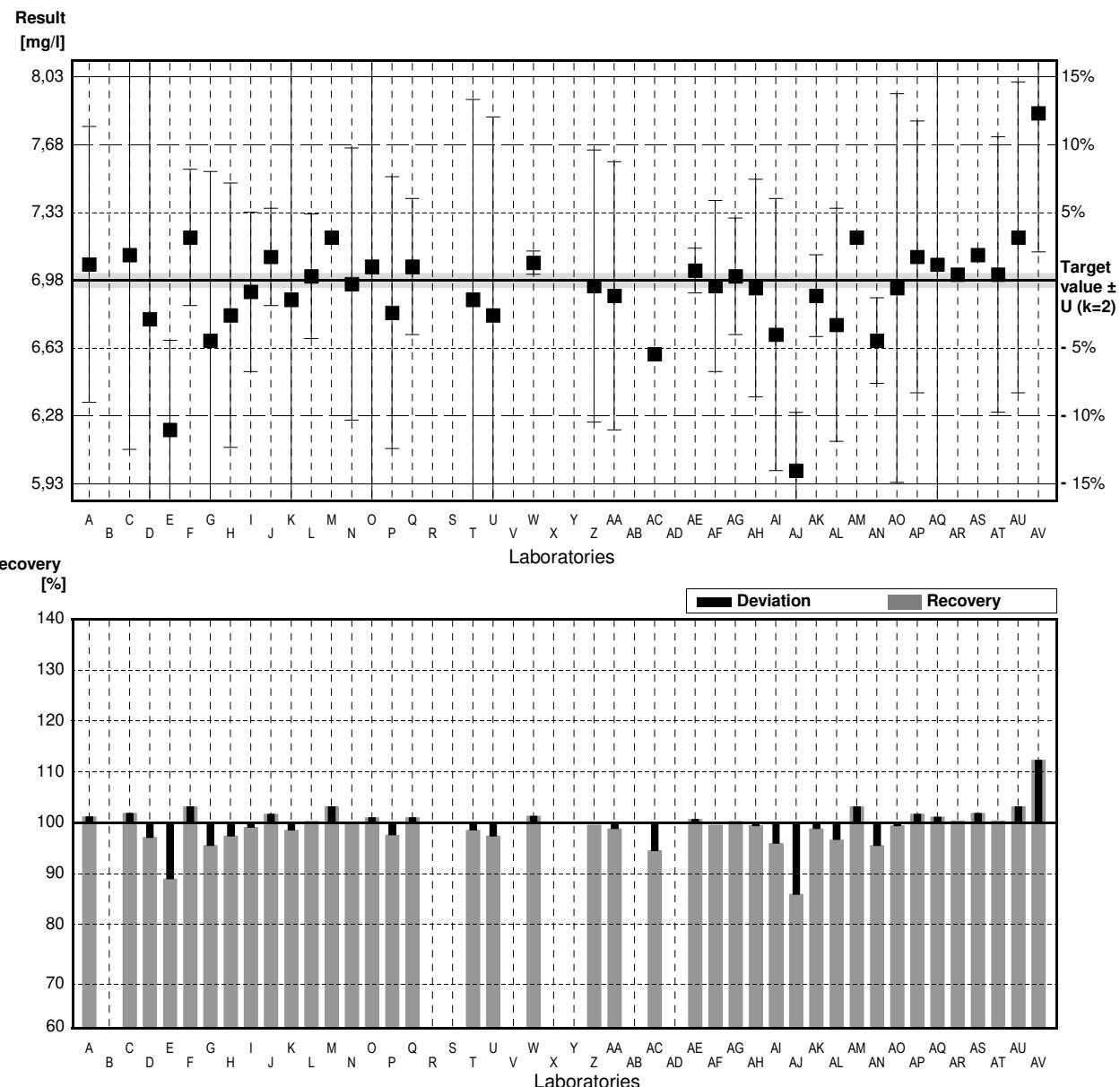
## Parameter Potassium

Target value  $\pm U$  ( $k=2$ ) 6,98 mg/l  $\pm$  0,04 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 7,2 mg/l  $\pm$  0,4 mg/l

Stability test mg/l

| Lab Code | Result | $\pm$ | Unit | Recovery | z-Score |
|----------|--------|-------|------|----------|---------|
| A        | 7,062  | 0,71  | mg/l | 101%     | 0,27    |
| B        |        |       | mg/l |          |         |
| C        | 7,11   | 1     | mg/l | 102%     | 0,43    |
| D        | 6,78   | 1,4   | mg/l | 97%      | -0,67   |
| E        | 6,21 * | 0,46  | mg/l | 89%      | -2,57   |
| F        | 7,20   | 0,351 | mg/l | 103%     | 0,73    |
| G        | 6,67   | 0,87  | mg/l | 96%      | -1,03   |
| H        | 6,8    | 0,68  | mg/l | 97%      | -0,60   |
| I        | 6,92   | 0,41  | mg/l | 99%      | -0,20   |
| J        | 7,1    | 0,25  | mg/l | 102%     | 0,40    |
| K        | 6,88   | 1,24  | mg/l | 99%      | -0,33   |
| L        | 7,0    | 0,32  | mg/l | 100%     | 0,07    |
| M        | 7,20   |       | mg/l | 103%     | 0,73    |
| N        | 6,96   | 0,70  | mg/l | 100%     | -0,07   |
| O        | 7,05   | 1,4   | mg/l | 101%     | 0,23    |
| P        | 6,813  | 0,7   | mg/l | 98%      | -0,56   |
| Q        | 7,05   | 0,35  | mg/l | 101%     | 0,23    |
| R        |        |       | mg/l |          |         |
| S        |        |       | mg/l |          |         |
| T        | 6,88   | 1,03  | mg/l | 99%      | -0,33   |
| U        | 6,8    | 1,02  | mg/l | 97%      | -0,60   |
| V        |        |       | mg/l |          |         |
| W        | 7,07   | 0,06  | mg/l | 101%     | 0,30    |
| X        |        |       | mg/l |          |         |
| Y        |        |       | mg/l |          |         |
| Z        | 6,95   | 0,7   | mg/l | 100%     | -0,10   |
| AA       | 6,90   | 0,690 | mg/l | 99%      | -0,27   |
| AB       |        |       | mg/l |          |         |
| AC       | 6,6    |       | mg/l | 95%      | -1,27   |
| AD       |        |       | mg/l |          |         |
| AE       | 7,03   | 0,115 | mg/l | 101%     | 0,17    |
| AF       | 6,95   | 0,44  | mg/l | 100%     | -0,10   |
| AG       | 7,0    | 0,3   | mg/l | 100%     | 0,07    |
| AH       | 6,94   | 0,56  | mg/l | 99%      | -0,13   |
| AI       | 6,7    | 0,7   | mg/l | 96%      | -0,93   |
| AJ       | 6,0 *  | 0,3   | mg/l | 86%      | -3,27   |
| AK       | 6,9    | 0,21  | mg/l | 99%      | -0,27   |
| AL       | 6,75   | 0,6   | mg/l | 97%      | -0,77   |
| AM       | 7,20   |       | mg/l | 103%     | 0,73    |
| AN       | 6,67   | 0,22  | mg/l | 96%      | -1,03   |
| AO       | 6,94   | 1,0   | mg/l | 99%      | -0,13   |
| AP       | 7,1    | 0,7   | mg/l | 102%     | 0,40    |
| AQ       | 7,06   | 1,4   | mg/l | 101%     | 0,27    |
| AR       | 7,01   |       | mg/l | 100%     | 0,10    |
| AS       | 7,11   |       | mg/l | 102%     | 0,43    |
| AT       | 7,01   | 0,708 | mg/l | 100%     | 0,10    |
| AU       | 7,2    | 0,8   | mg/l | 103%     | 0,73    |
| AV       | 7,84 * | 0,714 | mg/l | 112%     | 2,87    |

|                      | All results     | Outliers excl.  | Unit |
|----------------------|-----------------|-----------------|------|
| Mean $\pm$ Cl(99%)   | 6,94 $\pm$ 0,12 | 6,96 $\pm$ 0,07 | mg/l |
| Recov. $\pm$ Cl(99%) | 99,4 $\pm$ 1,7  | 99,7 $\pm$ 1,0  | %    |
| SD between labs      | 0,28            | 0,16            | mg/l |
| RSD between labs     | 4,1             | 2,3             | %    |
| n for calculation    | 40              | 37              |      |



# Sample N167A

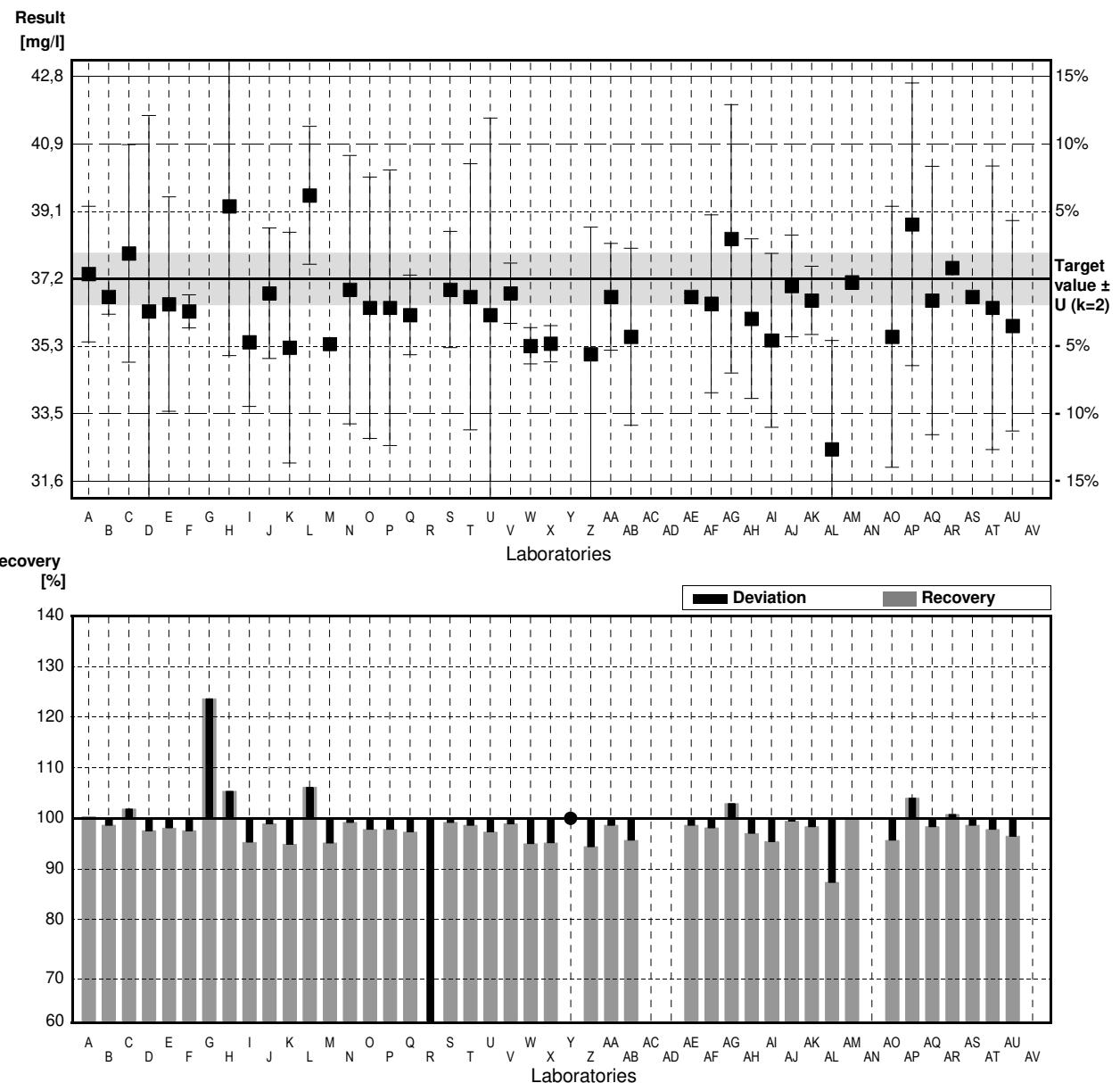
## Parameter Nitrate

Target value  $\pm U$  ( $k=2$ ) 37,2 mg/l  $\pm$  0,7 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 36,4 mg/l  $\pm$  2,0 mg/l

Stability test mg/l

| Lab Code | Result  | $\pm$ | Unit | Recovery | z-Score |
|----------|---------|-------|------|----------|---------|
| A        | 37,33   | 1,87  | mg/l | 100%     | 0,11    |
| B        | 36,7    | 0,482 | mg/l | 99%      | -0,43   |
| C        | 37,9    | 3     | mg/l | 102%     | 0,61    |
| D        | 36,3    | 5,4   | mg/l | 98%      | -0,78   |
| E        | 36,5    | 2,96  | mg/l | 98%      | -0,61   |
| F        | 36,3    | 0,455 | mg/l | 98%      | -0,78   |
| G        | 46,0 *  | 1,7   | mg/l | 124%     | 7,63    |
| H        | 39,2 *  | 4,12  | mg/l | 105%     | 1,73    |
| I        | 35,45   | 1,77  | mg/l | 95%      | -1,52   |
| J        | 36,8    | 1,8   | mg/l | 99%      | -0,35   |
| K        | 35,3    | 3,18  | mg/l | 95%      | -1,65   |
| L        | 39,5 *  | 1,9   | mg/l | 106%     | 1,99    |
| M        | 35,4    |       | mg/l | 95%      | -1,56   |
| N        | 36,9    | 3,7   | mg/l | 99%      | -0,26   |
| O        | 36,4    | 3,6   | mg/l | 98%      | -0,69   |
| P        | 36,4    | 3,8   | mg/l | 98%      | -0,69   |
| Q        | 36,2    | 1,1   | mg/l | 97%      | -0,87   |
| R        | 21,36 * | 0,17  | mg/l | 57%      | -13,74  |
| S        | 36,9    | 1,6   | mg/l | 99%      | -0,26   |
| T        | 36,7    | 3,67  | mg/l | 99%      | -0,43   |
| U        | 36,2    | 5,43  | mg/l | 97%      | -0,87   |
| V        | 36,8    | 0,828 | mg/l | 99%      | -0,35   |
| W        | 35,35   | 0,5   | mg/l | 95%      | -1,60   |
| X        | 35,41   | 0,5   | mg/l | 95%      | -1,55   |
| Y        | >30     |       | mg/l | *        |         |
| Z        | 35,12   | 3,5   | mg/l | 94%      | -1,80   |
| AA       | 36,7    | 1,47  | mg/l | 99%      | -0,43   |
| AB       | 35,6    | 2,44  | mg/l | 96%      | -1,39   |
| AC       |         |       | mg/l |          |         |
| AD       |         |       | mg/l |          |         |
| AE       | 36,703  | 0,1   | mg/l | 99%      | -0,43   |
| AF       | 36,51   | 2,45  | mg/l | 98%      | -0,60   |
| AG       | 38,3    | 3,7   | mg/l | 103%     | 0,95    |
| AH       | 36,1    | 2,2   | mg/l | 97%      | -0,95   |
| AI       | 35,5    | 2,4   | mg/l | 95%      | -1,47   |
| AJ       | 37,0    | 1,4   | mg/l | 99%      | -0,17   |
| AK       | 36,6    | 0,94  | mg/l | 98%      | -0,52   |
| AL       | 32,5 *  | 3     | mg/l | 87%      | -4,08   |
| AM       | 37,1    |       | mg/l | 100%     | -0,09   |
| AN       |         |       | mg/l |          |         |
| AO       | 35,6    | 3,6   | mg/l | 96%      | -1,39   |
| AP       | 38,7    | 3,9   | mg/l | 104%     | 1,30    |
| AQ       | 36,6    | 3,7   | mg/l | 98%      | -0,52   |
| AR       | 37,50   |       | mg/l | 101%     | 0,26    |
| AS       | 36,7    |       | mg/l | 99%      | -0,43   |
| AT       | 36,4    | 3,91  | mg/l | 98%      | -0,69   |
| AU       | 35,9    | 2,9   | mg/l | 97%      | -1,13   |
| AV       |         |       | mg/l |          |         |

|                      | All results    | Outliers excl. | Unit |
|----------------------|----------------|----------------|------|
| Mean $\pm$ Cl(99%)   | 36,4 $\pm$ 1,2 | 36,5 $\pm$ 0,4 | mg/l |
| Recov. $\pm$ Cl(99%) | 97,8 $\pm$ 3,3 | 98,0 $\pm$ 1,0 | %    |
| SD between labs      | 3,0            | 0,8            | mg/l |
| RSD between labs     | 8,2            | 2,2            | %    |
| n for calculation    | 43             | 38             |      |



# Sample N167B

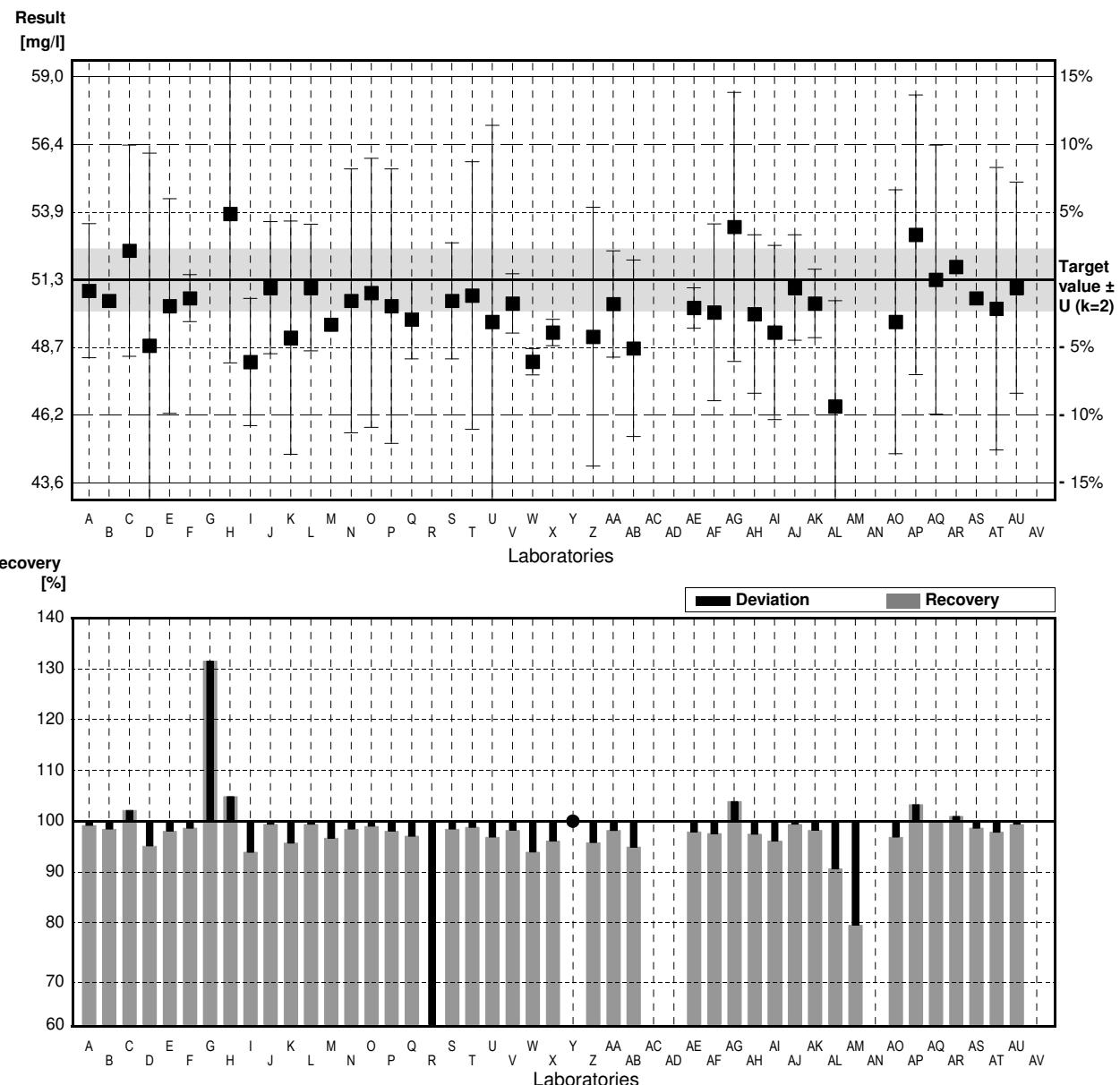
## Parameter Nitrate

Target value  $\pm U$  ( $k=2$ ) 51,3 mg/l  $\pm$  1,2 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 50 mg/l  $\pm$  3 mg/l

Stability test mg/l

| Lab Code | Result  | $\pm$  | Unit | Recovery | z-Score |
|----------|---------|--------|------|----------|---------|
| A        | 50,88   | 2,54   | mg/l | 99%      | -0,26   |
| B        | 50,5    | 0,06   | mg/l | 98%      | -0,50   |
| C        | 52,4    | 4      | mg/l | 102%     | 0,69    |
| D        | 48,8    | 7,3    | mg/l | 95%      | -1,57   |
| E        | 50,3    | 4,07   | mg/l | 98%      | -0,63   |
| F        | 50,6    | 0,894  | mg/l | 99%      | -0,44   |
| G        | 67,5 *  | 2,5    | mg/l | 132%     | 10,19   |
| H        | 53,8 *  | 5,65   | mg/l | 105%     | 1,57    |
| I        | 48,18   | 2,41   | mg/l | 94%      | -1,96   |
| J        | 51      | 2,5    | mg/l | 99%      | -0,19   |
| K        | 49,1    | 4,42   | mg/l | 96%      | -1,38   |
| L        | 51      | 2,4    | mg/l | 99%      | -0,19   |
| M        | 49,6    |        | mg/l | 97%      | -1,07   |
| N        | 50,5    | 5,0    | mg/l | 98%      | -0,50   |
| O        | 50,8    | 5,1    | mg/l | 99%      | -0,31   |
| P        | 50,3    | 5,2    | mg/l | 98%      | -0,63   |
| Q        | 49,8    | 1,5    | mg/l | 97%      | -0,94   |
| R        | 19,31 * | 0,20   | mg/l | 38%      | -20,12  |
| S        | 50,5    | 2,2    | mg/l | 98%      | -0,50   |
| T        | 50,7    | 5,07   | mg/l | 99%      | -0,38   |
| U        | 49,7    | 7,455  | mg/l | 97%      | -1,01   |
| V        | 50,4    | 1,13   | mg/l | 98%      | -0,57   |
| W        | 48,19   | 0,5    | mg/l | 94%      | -1,96   |
| X        | 49,3    | 0,5    | mg/l | 96%      | -1,26   |
| Y        | >30     |        | mg/l | *        |         |
| Z        | 49,14   | 4,9    | mg/l | 96%      | -1,36   |
| AA       | 50,381  | 2,0153 | mg/l | 98%      | -0,58   |
| AB       | 48,7    | 3,34   | mg/l | 95%      | -1,63   |
| AC       |         |        | mg/l |          |         |
| AD       |         |        | mg/l |          |         |
| AE       | 50,230  | 0,766  | mg/l | 98%      | -0,67   |
| AF       | 50,06   | 3,35   | mg/l | 98%      | -0,78   |
| AG       | 53,3 *  | 5,1    | mg/l | 104%     | 1,26    |
| AH       | 50,0    | 3,0    | mg/l | 97%      | -0,82   |
| AI       | 49,3    | 3,3    | mg/l | 96%      | -1,26   |
| AJ       | 51      | 2      | mg/l | 99%      | -0,19   |
| AK       | 50,4    | 1,30   | mg/l | 98%      | -0,57   |
| AL       | 46,5 *  | 4      | mg/l | 91%      | -3,02   |
| AM       | 40,8 *  |        | mg/l | 80%      | -6,60   |
| AN       |         |        | mg/l |          |         |
| AO       | 49,7    | 5,0    | mg/l | 97%      | -1,01   |
| AP       | 53      | 5,3    | mg/l | 103%     | 1,07    |
| AQ       | 51,3    | 5,1    | mg/l | 100%     | 0,00    |
| AR       | 51,79   |        | mg/l | 101%     | 0,31    |
| AS       | 50,6    |        | mg/l | 99%      | -0,44   |
| AT       | 50,2    | 5,35   | mg/l | 98%      | -0,69   |
| AU       | 51      | 4      | mg/l | 99%      | -0,19   |
| AV       |         |        | mg/l |          |         |

|                      | All results    | Outliers excl. | Unit |
|----------------------|----------------|----------------|------|
| Mean $\pm$ CI(99%)   | 49,8 $\pm$ 2,4 | 50,3 $\pm$ 0,5 | mg/l |
| Recov. $\pm$ CI(99%) | 97,0 $\pm$ 4,6 | 98,0 $\pm$ 0,9 | %    |
| SD between labs      | 5,8            | 1,0            | mg/l |
| RSD between labs     | 11,6           | 2,0            | %    |
| n for calculation    | 43             | 37             |      |



# Sample N167A

## Parameter Nitrite

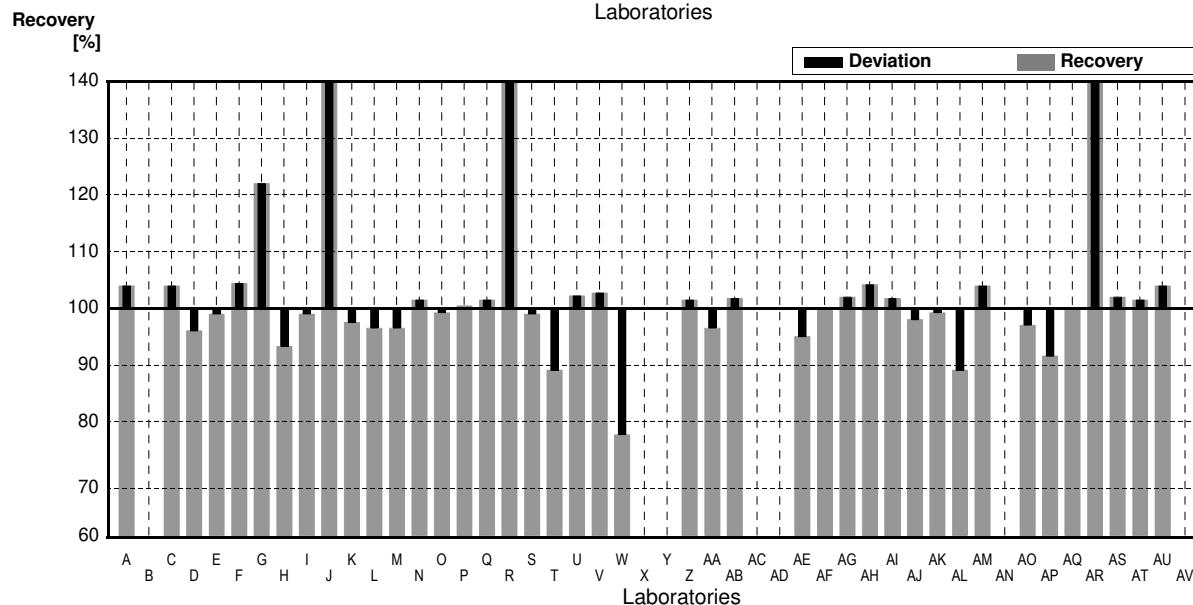
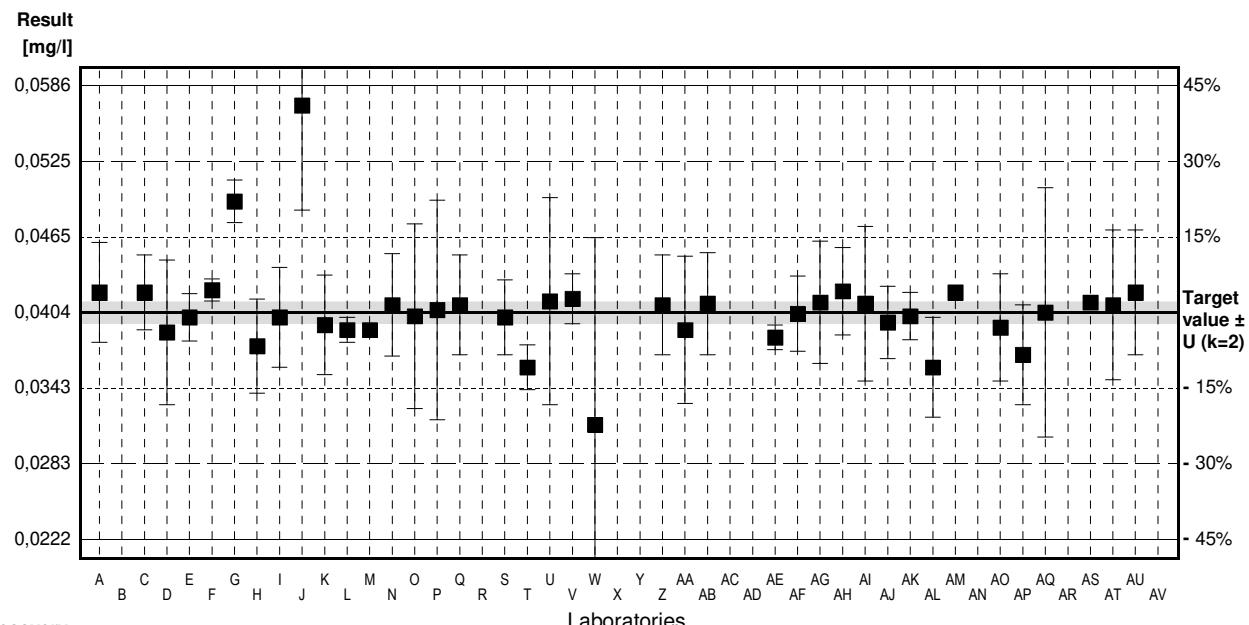
Target value  $\pm U$  ( $k=2$ ) 0,0404 mg/l  $\pm$  0,0009 mg/l

IFA result  $\pm U$  ( $k=2$ ) 0,0396 mg/l  $\pm$  0,0020 mg/l

Stability test  $\pm U$  ( $k=2$ ) 0,0401 mg/l  $\pm$  0,0020 mg/l

| Lab Code | Result   | $\pm$   | Unit | Recovery | z-Score |
|----------|----------|---------|------|----------|---------|
| A        | 0,0420   | 0,004   | mg/l | 104%     | 0,73    |
| B        |          |         | mg/l |          |         |
| C        | 0,0420   | 0,003   | mg/l | 104%     | 0,73    |
| D        | 0,0388   | 0,0058  | mg/l | 96%      | -0,73   |
| E        | 0,0400   | 0,0019  | mg/l | 99%      | -0,18   |
| F        | 0,0422   | 0,00088 | mg/l | 104%     | 0,83    |
| G        | 0,0493 * | 0,0017  | mg/l | 122%     | 4,08    |
| H        | 0,0377   | 0,00377 | mg/l | 93%      | -1,24   |
| I        | 0,0400   | 0,0040  | mg/l | 99%      | -0,18   |
| J        | 0,057 *  | 0,0084  | mg/l | 141%     | 7,61    |
| K        | 0,0394   | 0,004   | mg/l | 98%      | -0,46   |
| L        | 0,0390   | 0,0010  | mg/l | 97%      | -0,64   |
| M        | 0,0390   |         | mg/l | 97%      | -0,64   |
| N        | 0,0410   | 0,0041  | mg/l | 101%     | 0,28    |
| O        | 0,0401   | 0,0074  | mg/l | 99%      | -0,14   |
| P        | 0,0406   | 0,0088  | mg/l | 100%     | 0,09    |
| Q        | 0,0410   | 0,004   | mg/l | 101%     | 0,28    |
| R        | 0,80 *   | 0,10    | mg/l | 1980%    | 348,18  |
| S        | 0,0400   | 0,003   | mg/l | 99%      | -0,18   |
| T        | 0,0360   | 0,0018  | mg/l | 89%      | -2,02   |
| U        | 0,0413   | 0,0083  | mg/l | 102%     | 0,41    |
| V        | 0,0415   | 0,002   | mg/l | 103%     | 0,50    |
| W        | 0,0314 * | 0,015   | mg/l | 78%      | -4,13   |
| X        |          |         | mg/l |          |         |
| Y        |          |         | mg/l |          |         |
| Z        | 0,0410   | 0,004   | mg/l | 101%     | 0,28    |
| AA       | 0,0390   | 0,0059  | mg/l | 97%      | -0,64   |
| AB       | 0,0411   | 0,0041  | mg/l | 102%     | 0,32    |
| AC       |          |         | mg/l |          |         |
| AD       |          |         | mg/l |          |         |
| AE       | 0,0384   | 0,001   | mg/l | 95%      | -0,92   |
| AF       | 0,0403   | 0,003   | mg/l | 100%     | -0,05   |
| AG       | 0,0412   | 0,0049  | mg/l | 102%     | 0,37    |
| AH       | 0,0421   | 0,0035  | mg/l | 104%     | 0,78    |
| AI       | 0,0411   | 0,0062  | mg/l | 102%     | 0,32    |
| AJ       | 0,0396   | 0,0029  | mg/l | 98%      | -0,37   |
| AK       | 0,0401   | 0,0019  | mg/l | 99%      | -0,14   |
| AL       | 0,036    | 0,004   | mg/l | 89%      | -2,02   |
| AM       | 0,0420   |         | mg/l | 104%     | 0,73    |
| AN       |          |         | mg/l |          |         |
| AO       | 0,0392   | 0,0043  | mg/l | 97%      | -0,55   |
| AP       | 0,0370   | 0,004   | mg/l | 92%      | -1,56   |
| AQ       | 0,0404   | 0,010   | mg/l | 100%     | 0,00    |
| AR       | 0,080 *  |         | mg/l | 198%     | 18,15   |
| AS       | 0,0412   |         | mg/l | 102%     | 0,37    |
| AT       | 0,0410   | 0,006   | mg/l | 101%     | 0,28    |
| AU       | 0,0420   | 0,005   | mg/l | 104%     | 0,73    |
| AV       |          |         | mg/l |          |         |

|                      | All results        | Outliers excl.     | Unit |
|----------------------|--------------------|--------------------|------|
| Mean $\pm$ CI(99%)   | 0,0600 $\pm$ 0,050 | 0,0401 $\pm$ 0,000 | mg/l |
| Recov. $\pm$ CI(99%) | 148,6 $\pm$ 123,9  | 99,3 $\pm$ 1,8     | %    |
| SD between labs      | 0,1187             | 0,0016             | mg/l |
| RSD between labs     | 197,6              | 4,1                | %    |
| n for calculation    | 41                 | 36                 |      |



## Sample N167B

### Parameter Nitrite

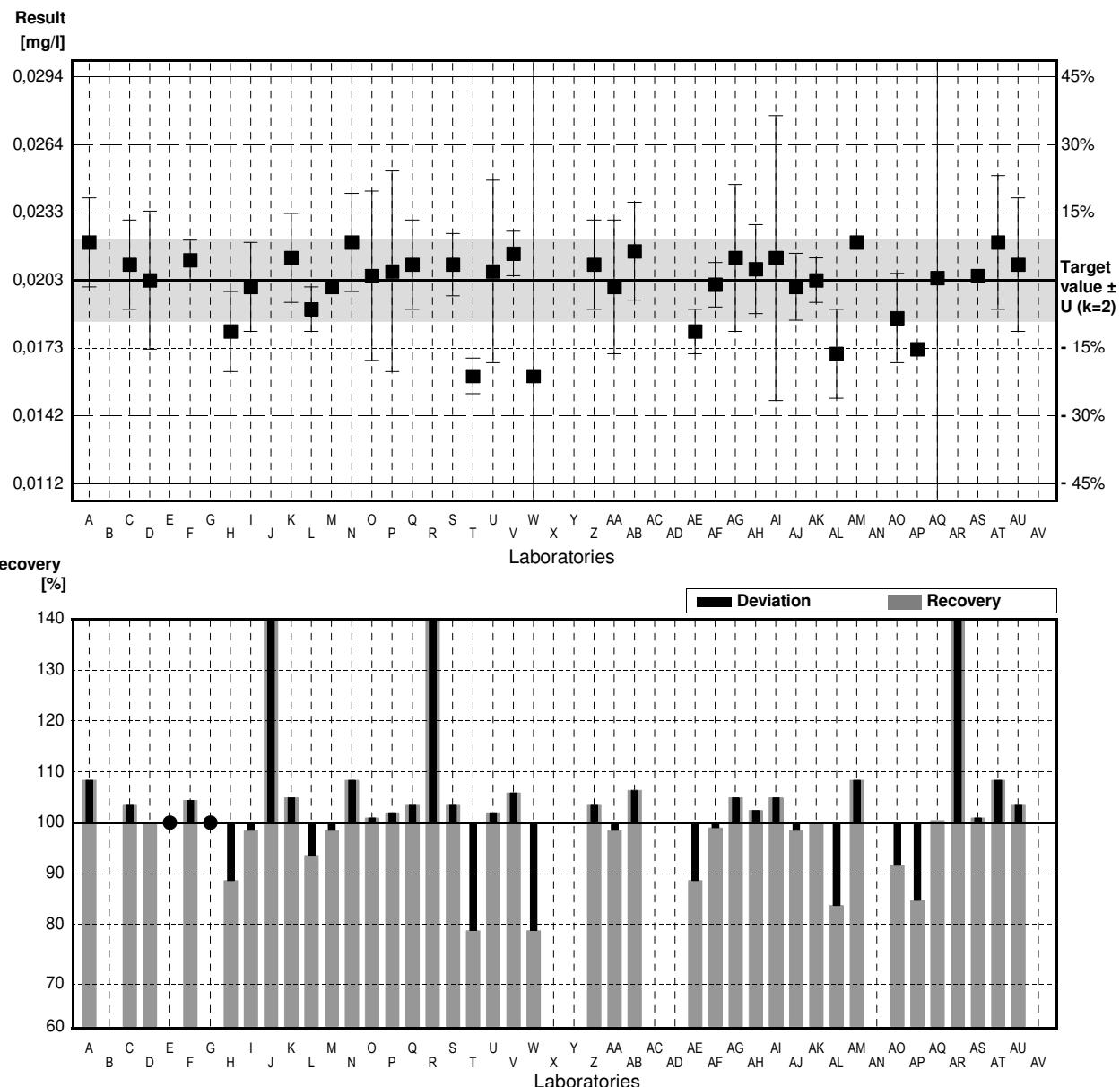
Target value  $\pm U$  ( $k=2$ ) 0,0203 mg/l  $\pm$  0,0018 mg/l

IFA result  $\pm U$  ( $k=2$ ) 0,0195 mg/l  $\pm$  0,0010 mg/l

Stability test  $\pm U$  ( $k=2$ ) 0,0203 mg/l  $\pm$  0,0010 mg/l

| Lab Code | Result   | $\pm$   | Unit | Recovery | z-Score |
|----------|----------|---------|------|----------|---------|
| A        | 0,0220   | 0,002   | mg/l | 108%     | 1,55    |
| B        |          |         | mg/l |          |         |
| C        | 0,0210   | 0,002   | mg/l | 103%     | 0,64    |
| D        | 0,0203   | 0,0031  | mg/l | 100%     | 0,00    |
| E        | <0,03    |         | mg/l | -        |         |
| F        | 0,0212   | 0,00090 | mg/l | 104%     | 0,82    |
| G        | <0,0328  | 0,0011  | mg/l | -        |         |
| H        | 0,0180   | 0,00180 | mg/l | 89%      | -2,10   |
| I        | 0,0200   | 0,0020  | mg/l | 99%      | -0,27   |
| J        | 0,0300 * | 0,0044  | mg/l | 148%     | 8,85    |
| K        | 0,0213   | 0,002   | mg/l | 105%     | 0,91    |
| L        | 0,0190   | 0,0010  | mg/l | 94%      | -1,19   |
| M        | 0,0200   |         | mg/l | 99%      | -0,27   |
| N        | 0,0220   | 0,0022  | mg/l | 108%     | 1,55    |
| O        | 0,0205   | 0,0038  | mg/l | 101%     | 0,18    |
| P        | 0,0207   | 0,0045  | mg/l | 102%     | 0,36    |
| Q        | 0,0210   | 0,002   | mg/l | 103%     | 0,64    |
| R        | 0,423 *  | 0,011   | mg/l | 2084%    | 367,36  |
| S        | 0,0210   | 0,0014  | mg/l | 103%     | 0,64    |
| T        | 0,0160 * | 0,0008  | mg/l | 79%      | -3,92   |
| U        | 0,0207   | 0,0041  | mg/l | 102%     | 0,36    |
| V        | 0,0215   | 0,001   | mg/l | 106%     | 1,09    |
| W        | 0,0160 * | 0,015   | mg/l | 79%      | -3,92   |
| X        |          |         | mg/l |          |         |
| Y        |          |         | mg/l |          |         |
| Z        | 0,0210   | 0,002   | mg/l | 103%     | 0,64    |
| AA       | 0,0200   | 0,00300 | mg/l | 99%      | -0,27   |
| AB       | 0,0216   | 0,0022  | mg/l | 106%     | 1,19    |
| AC       |          |         | mg/l |          |         |
| AD       |          |         | mg/l |          |         |
| AE       | 0,0180   | 0,001   | mg/l | 89%      | -2,10   |
| AF       | 0,0201   | 0,001   | mg/l | 99%      | -0,18   |
| AG       | 0,0213   | 0,0033  | mg/l | 105%     | 0,91    |
| AH       | 0,0208   | 0,0020  | mg/l | 102%     | 0,46    |
| AI       | 0,0213   | 0,0064  | mg/l | 105%     | 0,91    |
| AJ       | 0,0200   | 0,0015  | mg/l | 99%      | -0,27   |
| AK       | 0,0203   | 0,0010  | mg/l | 100%     | 0,00    |
| AL       | 0,017 *  | 0,002   | mg/l | 84%      | -3,01   |
| AM       | 0,0220   |         | mg/l | 108%     | 1,55    |
| AN       |          |         | mg/l |          |         |
| AO       | 0,0186   | 0,0020  | mg/l | 92%      | -1,55   |
| AP       | 0,0172 * |         | mg/l | 85%      | -2,83   |
| AQ       | 0,0204   | 0,010   | mg/l | 100%     | 0,09    |
| AR       | 0,060 *  |         | mg/l | 296%     | 36,22   |
| AS       | 0,0205   |         | mg/l | 101%     | 0,18    |
| AT       | 0,0220   | 0,003   | mg/l | 108%     | 1,55    |
| AU       | 0,0210   | 0,003   | mg/l | 103%     | 0,64    |
| AV       |          |         | mg/l |          |         |

|                      | All results        | Outliers excl.     | Unit |
|----------------------|--------------------|--------------------|------|
| Mean $\pm$ CI(99%)   | 0,0318 $\pm$ 0,028 | 0,0206 $\pm$ 0,000 | mg/l |
| Recov. $\pm$ CI(99%) | 156,4 $\pm$ 138,2  | 101,5 $\pm$ 2,5    | %    |
| SD between labs      | 0,0646             | 0,0011             | mg/l |
| RSD between labs     | 203,6              | 5,1                | %    |
| n for calculation    | 39                 | 32                 |      |



# Sample N167A

## Parameter Ammonium

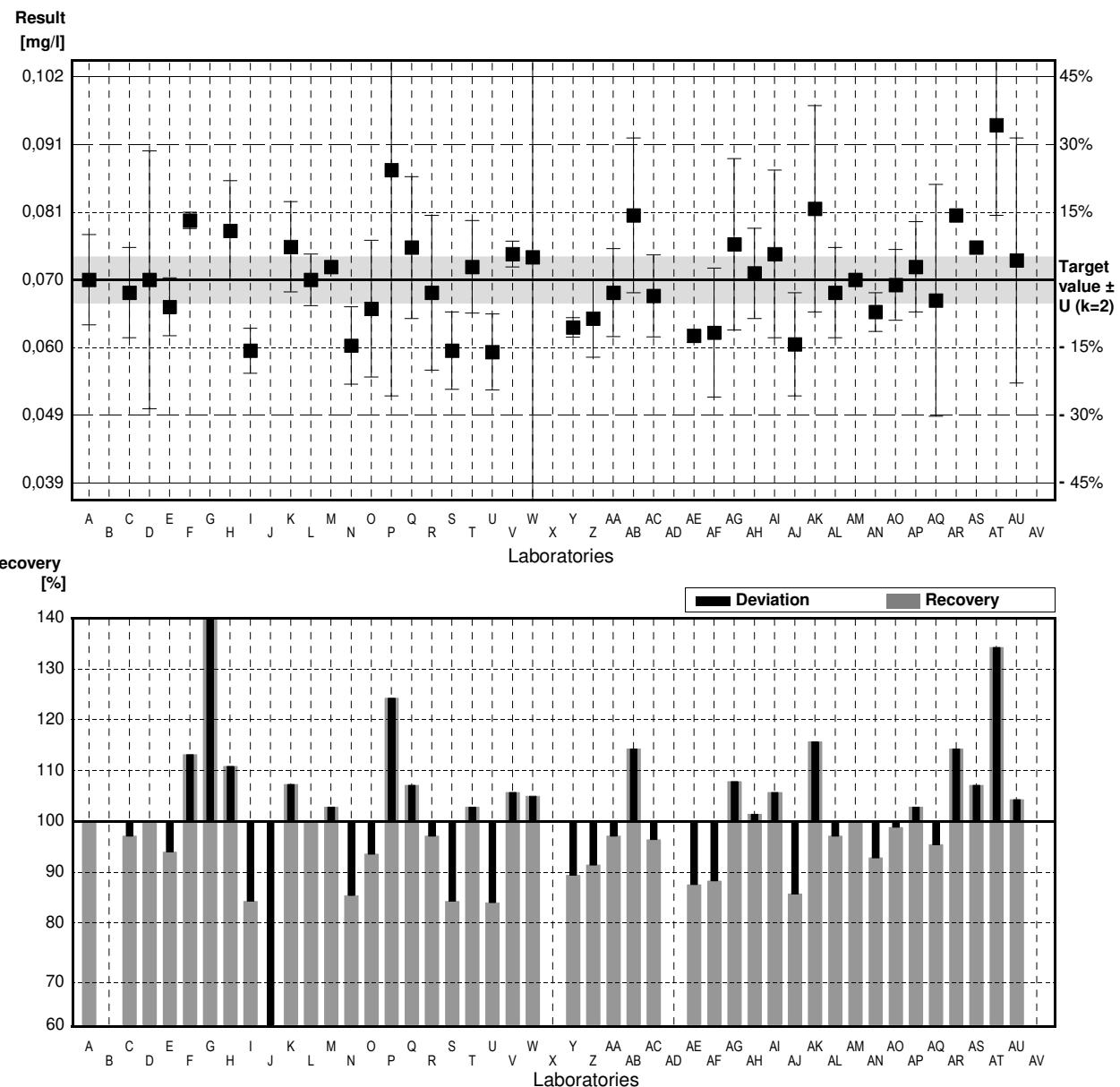
Target value  $\pm U$  ( $k=2$ ) 0,070 mg/l  $\pm$  0,004 mg/l

IFA result  $\pm U$  ( $k=2$ ) 0,070 mg/l  $\pm$  0,002 mg/l

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

| Lab Code | Result   | $\pm$   | Unit | Recovery | z-Score |
|----------|----------|---------|------|----------|---------|
| A        | 0,0700   | 0,007   | mg/l | 100%     | 0,00    |
| B        |          |         | mg/l |          |         |
| C        | 0,068    | 0,007   | mg/l | 97%      | -0,26   |
| D        | 0,070    | 0,02    | mg/l | 100%     | 0,00    |
| E        | 0,0658   | 0,0045  | mg/l | 94%      | -0,55   |
| F        | 0,0792   | 0,00125 | mg/l | 113%     | 1,19    |
| G        | 0,734 *  | 0,039   | mg/l | 1049%    | 86,23   |
| H        | 0,0776   | 0,00776 | mg/l | 111%     | 0,99    |
| I        | 0,0590   | 0,0035  | mg/l | 84%      | -1,43   |
| J        | 0,0380 * | 0,0028  | mg/l | 54%      | -4,16   |
| K        | 0,0751   | 0,007   | mg/l | 107%     | 0,66    |
| L        | 0,070    | 0,004   | mg/l | 100%     | 0,00    |
| M        | 0,0720   |         | mg/l | 103%     | 0,26    |
| N        | 0,0598   | 0,0060  | mg/l | 85%      | -1,32   |
| O        | 0,0655   | 0,0106  | mg/l | 94%      | -0,58   |
| P        | 0,087    | 0,035   | mg/l | 124%     | 2,21    |
| Q        | 0,075    | 0,011   | mg/l | 107%     | 0,65    |
| R        | 0,068    | 0,012   | mg/l | 97%      | -0,26   |
| S        | 0,059    | 0,006   | mg/l | 84%      | -1,43   |
| T        | 0,072    | 0,0072  | mg/l | 103%     | 0,26    |
| U        | 0,0588   | 0,0059  | mg/l | 84%      | -1,45   |
| V        | 0,074    | 0,002   | mg/l | 106%     | 0,52    |
| W        | 0,0735   | 0,080   | mg/l | 105%     | 0,45    |
| X        |          |         | mg/l |          |         |
| Y        | 0,0626   | 0,00150 | mg/l | 89%      | -0,96   |
| Z        | 0,064    | 0,006   | mg/l | 91%      | -0,78   |
| AA       | 0,068    | 0,0068  | mg/l | 97%      | -0,26   |
| AB       | 0,080    | 0,012   | mg/l | 114%     | 1,30    |
| AC       | 0,0675   | 0,00635 | mg/l | 96%      | -0,32   |
| AD       |          |         | mg/l |          |         |
| AE       | 0,0613   | 0,001   | mg/l | 88%      | -1,13   |
| AF       | 0,0618   | 0,010   | mg/l | 88%      | -1,06   |
| AG       | 0,0755   | 0,0133  | mg/l | 108%     | 0,71    |
| AH       | 0,071    | 0,007   | mg/l | 101%     | 0,13    |
| AI       | 0,074    | 0,013   | mg/l | 106%     | 0,52    |
| AJ       | 0,060    | 0,008   | mg/l | 86%      | -1,30   |
| AK       | 0,081    | 0,016   | mg/l | 116%     | 1,43    |
| AL       | 0,068    | 0,007   | mg/l | 97%      | -0,26   |
| AM       | 0,070    |         | mg/l | 100%     | 0,00    |
| AN       | 0,065    | 0,003   | mg/l | 93%      | -0,65   |
| AO       | 0,0692   | 0,0055  | mg/l | 99%      | -0,10   |
| AP       | 0,072    | 0,007   | mg/l | 103%     | 0,26    |
| AQ       | 0,0668   | 0,018   | mg/l | 95%      | -0,42   |
| AR       | 0,080    |         | mg/l | 114%     | 1,30    |
| AS       | 0,075    |         | mg/l | 107%     | 0,65    |
| AT       | 0,094 *  | 0,014   | mg/l | 134%     | 3,12    |
| AU       | 0,073    | 0,019   | mg/l | 104%     | 0,39    |
| AV       |          |         | mg/l |          |         |

|                      | All results       | Outliers excl.    | Unit |
|----------------------|-------------------|-------------------|------|
| Mean $\pm$ Cl(99%)   | 0,085 $\pm$ 0,041 | 0,070 $\pm$ 0,003 | mg/l |
| Recov. $\pm$ Cl(99%) | 121,1 $\pm$ 58,2  | 99,8 $\pm$ 4,1    | %    |
| SD between labs      | 0,101             | 0,007             | mg/l |
| RSD between labs     | 118,6             | 9,7               | %    |
| n for calculation    | 44                | 41                |      |



## Sample N167B

### Parameter Ammonium

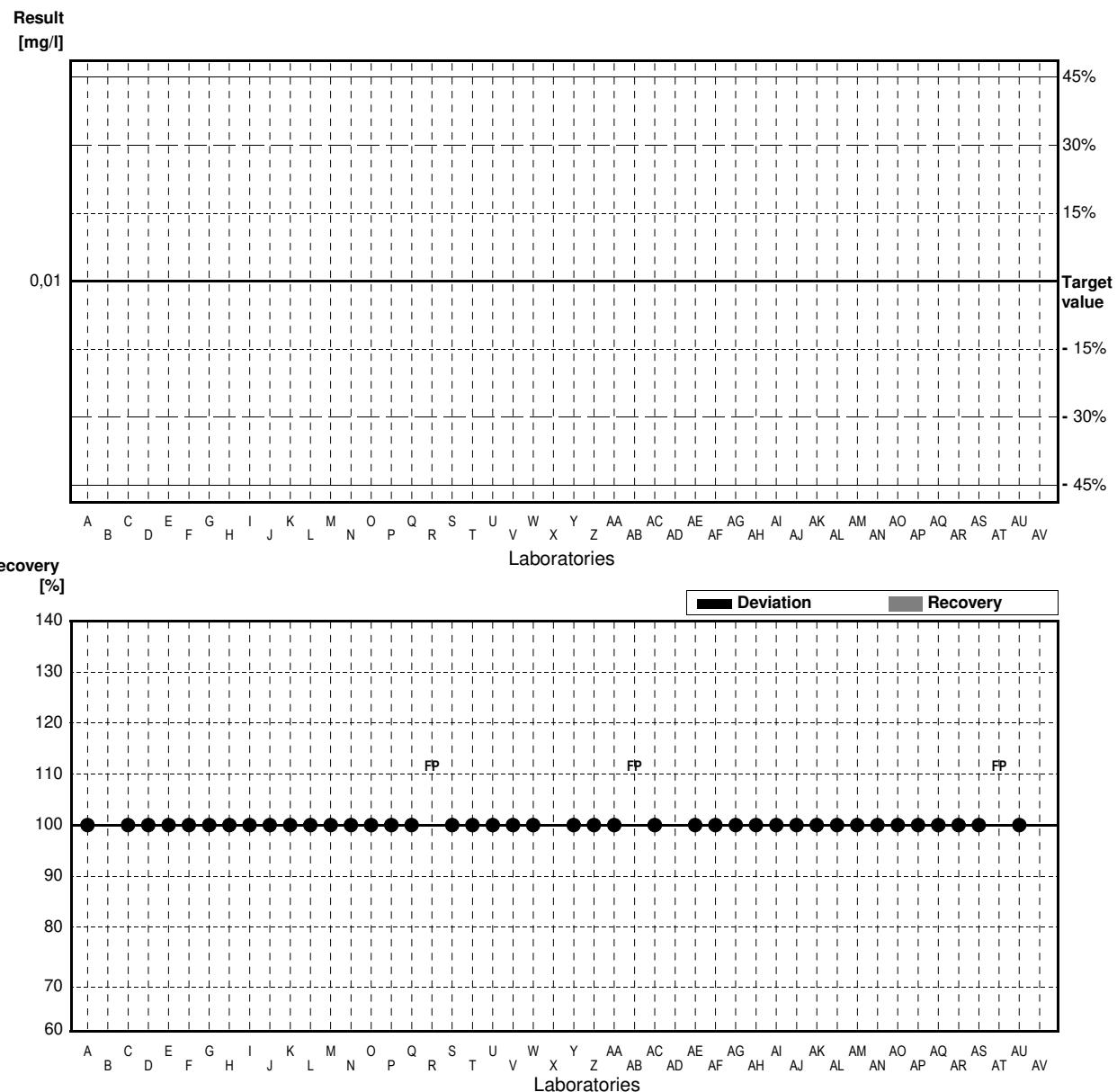
Target value <0,01 mg/l

IFA result <0,01 mg/l

Stability test <0,01 mg/l

| Lab Code | Result   | $\pm$   | Unit | Recovery | z-Score |
|----------|----------|---------|------|----------|---------|
| A        | <0,01    |         | mg/l | •        |         |
| B        |          |         | mg/l |          |         |
| C        | <0,013   |         | mg/l | •        |         |
| D        | <0,01    |         | mg/l | •        |         |
| E        | <0,04    |         | mg/l | •        |         |
| F        | [0,0015] |         | mg/l | •        |         |
| G        | <0,0515  | 0,003   | mg/l | •        |         |
| H        | <0,04    |         | mg/l | •        |         |
| I        | <0,01    |         | mg/l | •        |         |
| J        | <0,01    |         | mg/l | •        |         |
| K        | <0,01    |         | mg/l | •        |         |
| L        | <0,01    |         | mg/l | •        |         |
| M        | <0,01    |         | mg/l | •        |         |
| N        | <0,01    |         | mg/l | •        |         |
| O        | <0,0100  |         | mg/l | •        |         |
| P        | <0,05    |         | mg/l | •        |         |
| Q        | <0,040   |         | mg/l | •        |         |
| R        | 0,061    | 0,013   | mg/l | FP       |         |
| S        | <0,047   |         | mg/l | •        |         |
| T        | <0,01    |         | mg/l | •        |         |
| U        | <0,01    |         | mg/l | •        |         |
| V        | <0,01    |         | mg/l | •        |         |
| W        | <0,03    | 0,080   | mg/l | •        |         |
| X        |          |         | mg/l |          |         |
| Y        | <0,01    |         | mg/l | •        |         |
| Z        | <0,007   |         | mg/l | •        |         |
| AA       | <0,0052  |         | mg/l | •        |         |
| AB       | 0,0220   | 0,0033  | mg/l | FP       |         |
| AC       | <0,0500  | 0,00470 | mg/l | •        |         |
| AD       |          |         | mg/l |          |         |
| AE       | <0,015   |         | mg/l | •        |         |
| AF       | <0,003   | 0,000   | mg/l | •        |         |
| AG       | <0,010   |         | mg/l | •        |         |
| AH       | <0,008   |         | mg/l | •        |         |
| AI       | <0,01    |         | mg/l | •        |         |
| AJ       | <0,02    |         | mg/l | •        |         |
| AK       | <0,012   |         | mg/l | •        |         |
| AL       | <0,04    |         | mg/l | •        |         |
| AM       | <0,03    |         | mg/l | •        |         |
| AN       | <0,040   | 0,003   | mg/l | •        |         |
| AO       | <0,01    |         | mg/l | •        |         |
| AP       | <0,01    |         | mg/l | •        |         |
| AQ       | <0,010   |         | mg/l | •        |         |
| AR       | 0,0100   |         | mg/l | •        |         |
| AS       | <0,01    |         | mg/l | •        |         |
| AT       | 0,0270   | 0,004   | mg/l | FP       |         |
| AU       | <0,02    |         | mg/l | •        |         |
| AV       |          |         | mg/l |          |         |

|                      | All results | Outliers excl. | Unit |
|----------------------|-------------|----------------|------|
| Mean $\pm$ CI(99%)   |             |                | mg/l |
| Recov. $\pm$ CI(99%) |             |                | %    |
| SD between labs      |             |                | mg/l |
| RSD between labs     |             |                | %    |
| n for calculation    |             |                |      |



# Sample N167A

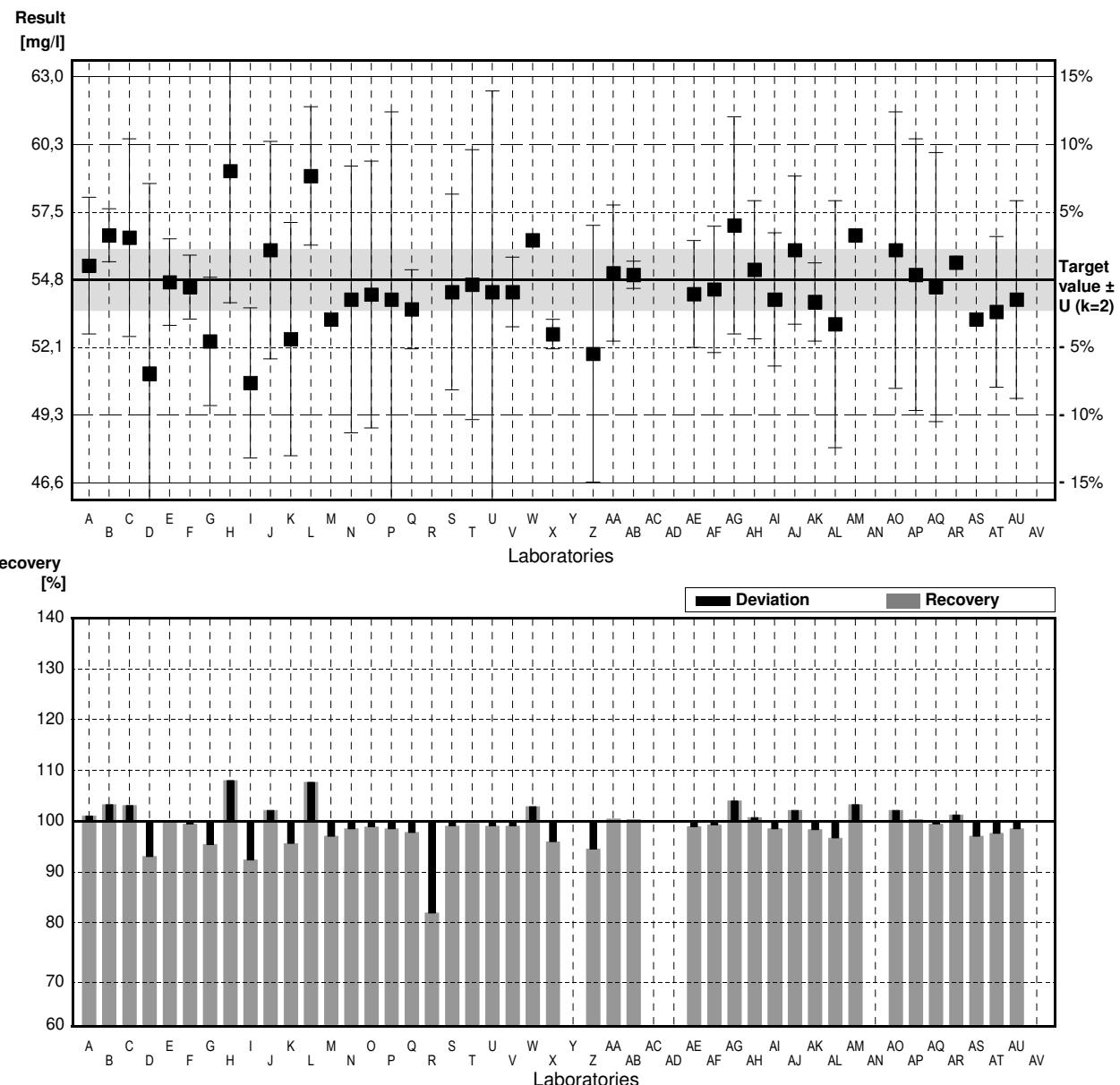
## Parameter Chloride

Target value  $\pm U$  ( $k=2$ ) 54,8 mg/l  $\pm$  1,2 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 54,1 mg/l  $\pm$  2,0 mg/l

Stability test mg/l

| Lab Code | Result  | $\pm$ | Unit | Recovery | z-Score |
|----------|---------|-------|------|----------|---------|
| A        | 55,37   | 2,77  | mg/l | 101%     | 0,36    |
| B        | 56,6    | 1,074 | mg/l | 103%     | 1,13    |
| C        | 56,5    | 4     | mg/l | 103%     | 1,07    |
| D        | 51,0    | 7,7   | mg/l | 93%      | -2,39   |
| E        | 54,7    | 1,75  | mg/l | 100%     | -0,06   |
| F        | 54,5    | 1,29  | mg/l | 99%      | -0,19   |
| G        | 52,3    | 2,6   | mg/l | 95%      | -1,57   |
| H        | 59,2 *  | 5,33  | mg/l | 108%     | 2,77    |
| I        | 50,62   | 3,04  | mg/l | 92%      | -2,63   |
| J        | 56      | 4,4   | mg/l | 102%     | 0,76    |
| K        | 52,4    | 4,72  | mg/l | 96%      | -1,51   |
| L        | 59      | 2,8   | mg/l | 108%     | 2,64    |
| M        | 53,2    |       | mg/l | 97%      | -1,01   |
| N        | 54,0    | 5,4   | mg/l | 99%      | -0,50   |
| O        | 54,2    | 5,4   | mg/l | 99%      | -0,38   |
| P        | 54,0    | 7,6   | mg/l | 99%      | -0,50   |
| Q        | 53,6    | 1,6   | mg/l | 98%      | -0,76   |
| R        | 44,90 * | 1,80  | mg/l | 82%      | -6,23   |
| S        | 54,3    | 3,96  | mg/l | 99%      | -0,31   |
| T        | 54,6    | 5,46  | mg/l | 100%     | -0,13   |
| U        | 54,3    | 8,145 | mg/l | 99%      | -0,31   |
| V        | 54,3    | 1,41  | mg/l | 99%      | -0,31   |
| W        | 56,40   | 0,25  | mg/l | 103%     | 1,01    |
| X        | 52,6    | 0,6   | mg/l | 96%      | -1,38   |
| Y        |         |       | mg/l |          |         |
| Z        | 51,80   | 5,2   | mg/l | 95%      | -1,89   |
| AA       | 55,07   | 2,754 | mg/l | 100%     | 0,17    |
| AB       | 55      | 0,55  | mg/l | 100%     | 0,13    |
| AC       |         |       | mg/l |          |         |
| AD       |         |       | mg/l |          |         |
| AE       | 54,223  | 2,165 | mg/l | 99%      | -0,36   |
| AF       | 54,41   | 2,56  | mg/l | 99%      | -0,25   |
| AG       | 57,0    | 4,4   | mg/l | 104%     | 1,38    |
| AH       | 55,2    | 2,8   | mg/l | 101%     | 0,25    |
| AI       | 54,0    | 2,7   | mg/l | 99%      | -0,50   |
| AJ       | 56      | 3     | mg/l | 102%     | 0,76    |
| AK       | 53,9    | 1,58  | mg/l | 98%      | -0,57   |
| AL       | 53,0    | 5     | mg/l | 97%      | -1,13   |
| AM       | 56,6    |       | mg/l | 103%     | 1,13    |
| AN       |         |       | mg/l |          |         |
| AO       | 56,0    | 5,6   | mg/l | 102%     | 0,76    |
| AP       | 55      | 5,5   | mg/l | 100%     | 0,13    |
| AQ       | 54,5    | 5,45  | mg/l | 99%      | -0,19   |
| AR       | 55,49   |       | mg/l | 101%     | 0,43    |
| AS       | 53,2    |       | mg/l | 97%      | -1,01   |
| AT       | 53,5    | 3,05  | mg/l | 98%      | -0,82   |
| AU       | 54      | 4     | mg/l | 99%      | -0,50   |
| AV       |         |       | mg/l |          |         |

|                      | All results    | Outliers excl. | Unit |
|----------------------|----------------|----------------|------|
| Mean $\pm$ Cl(99%)   | 54,3 $\pm$ 0,9 | 54,4 $\pm$ 0,7 | mg/l |
| Recov. $\pm$ Cl(99%) | 99,2 $\pm$ 1,7 | 99,4 $\pm$ 1,3 | %    |
| SD between labs      | 2,3            | 1,7            | mg/l |
| RSD between labs     | 4,2            | 3,0            | %    |
| n for calculation    | 43             | 41             |      |



# Sample N167B

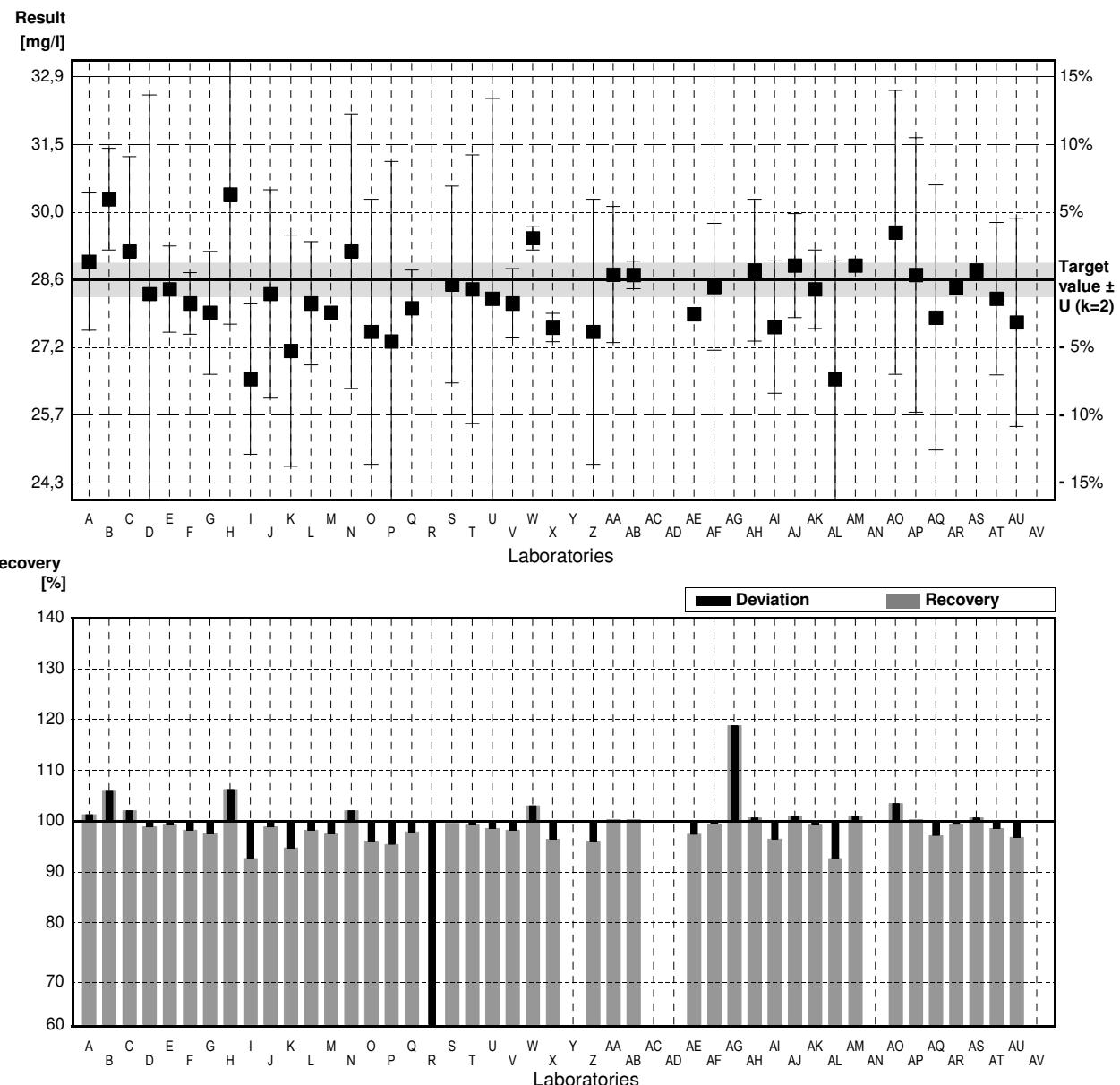
## Parameter Chloride

Target value  $\pm U$  ( $k=2$ ) 28,6 mg/l  $\pm$  0,4 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 28,1 mg/l  $\pm$  1,1 mg/l

Stability test mg/l

| Lab Code | Result  | $\pm$ | Unit | Recovery | z-Score |
|----------|---------|-------|------|----------|---------|
| A        | 28,98   | 1,45  | mg/l | 101%     | 0,46    |
| B        | 30,3    | 1,074 | mg/l | 106%     | 2,05    |
| C        | 29,2    | 2     | mg/l | 102%     | 0,72    |
| D        | 28,3    | 4,2   | mg/l | 99%      | -0,36   |
| E        | 28,4    | 0,91  | mg/l | 99%      | -0,24   |
| F        | 28,1    | 0,651 | mg/l | 98%      | -0,60   |
| G        | 27,9    | 1,3   | mg/l | 98%      | -0,84   |
| H        | 30,4    | 2,74  | mg/l | 106%     | 2,17    |
| I        | 26,50   | 1,59  | mg/l | 93%      | -2,53   |
| J        | 28,3    | 2,2   | mg/l | 99%      | -0,36   |
| K        | 27,1    | 2,44  | mg/l | 95%      | -1,81   |
| L        | 28,1    | 1,3   | mg/l | 98%      | -0,60   |
| M        | 27,9    |       | mg/l | 98%      | -0,84   |
| N        | 29,2    | 2,9   | mg/l | 102%     | 0,72    |
| O        | 27,5    | 2,8   | mg/l | 96%      | -1,33   |
| P        | 27,3    | 3,8   | mg/l | 95%      | -1,57   |
| Q        | 28,0    | 0,8   | mg/l | 98%      | -0,72   |
| R        | 16,25 * | 1,87  | mg/l | 57%      | -14,89  |
| S        | 28,5    | 2,08  | mg/l | 100%     | -0,12   |
| T        | 28,4    | 2,84  | mg/l | 99%      | -0,24   |
| U        | 28,2    | 4,23  | mg/l | 99%      | -0,48   |
| V        | 28,1    | 0,73  | mg/l | 98%      | -0,60   |
| W        | 29,48   | 0,25  | mg/l | 103%     | 1,06    |
| X        | 27,59   | 0,3   | mg/l | 96%      | -1,22   |
| Y        |         |       | mg/l |          |         |
| Z        | 27,50   | 2,8   | mg/l | 96%      | -1,33   |
| AA       | 28,71   | 1,436 | mg/l | 100%     | 0,13    |
| AB       | 28,7    | 0,29  | mg/l | 100%     | 0,12    |
| AC       |         |       | mg/l |          |         |
| AD       |         |       | mg/l |          |         |
| AE       | 27,875  | 0,128 | mg/l | 97%      | -0,87   |
| AF       | 28,45   | 1,34  | mg/l | 99%      | -0,18   |
| AG       | 34,0 *  | 2,7   | mg/l | 119%     | 6,51    |
| AH       | 28,8    | 1,5   | mg/l | 101%     | 0,24    |
| AI       | 27,6    | 1,4   | mg/l | 97%      | -1,21   |
| AJ       | 28,9    | 1,1   | mg/l | 101%     | 0,36    |
| AK       | 28,4    | 0,83  | mg/l | 99%      | -0,24   |
| AL       | 26,5    | 2,5   | mg/l | 93%      | -2,53   |
| AM       | 28,9    |       | mg/l | 101%     | 0,36    |
| AN       |         |       | mg/l |          |         |
| AO       | 29,6    | 3,0   | mg/l | 103%     | 1,21    |
| AP       | 28,7    | 2,9   | mg/l | 100%     | 0,12    |
| AQ       | 27,8    | 2,8   | mg/l | 97%      | -0,96   |
| AR       | 28,43   |       | mg/l | 99%      | -0,20   |
| AS       | 28,8    |       | mg/l | 101%     | 0,24    |
| AT       | 28,2    | 1,61  | mg/l | 99%      | -0,48   |
| AU       | 27,7    | 2,2   | mg/l | 97%      | -1,09   |
| AV       |         |       | mg/l |          |         |

|                      | All results    | Outliers excl. | Unit |
|----------------------|----------------|----------------|------|
| Mean $\pm$ Cl(99%)   | $28,2 \pm 0,9$ | $28,3 \pm 0,4$ | mg/l |
| Recov. $\pm$ Cl(99%) | $98,5 \pm 3,2$ | $99,0 \pm 1,2$ | %    |
| SD between labs      | 2,2            | 0,8            | mg/l |
| RSD between labs     | 7,8            | 2,9            | %    |
| n for calculation    | 43             | 41             |      |



# Sample N167A

## Parameter Sulphate

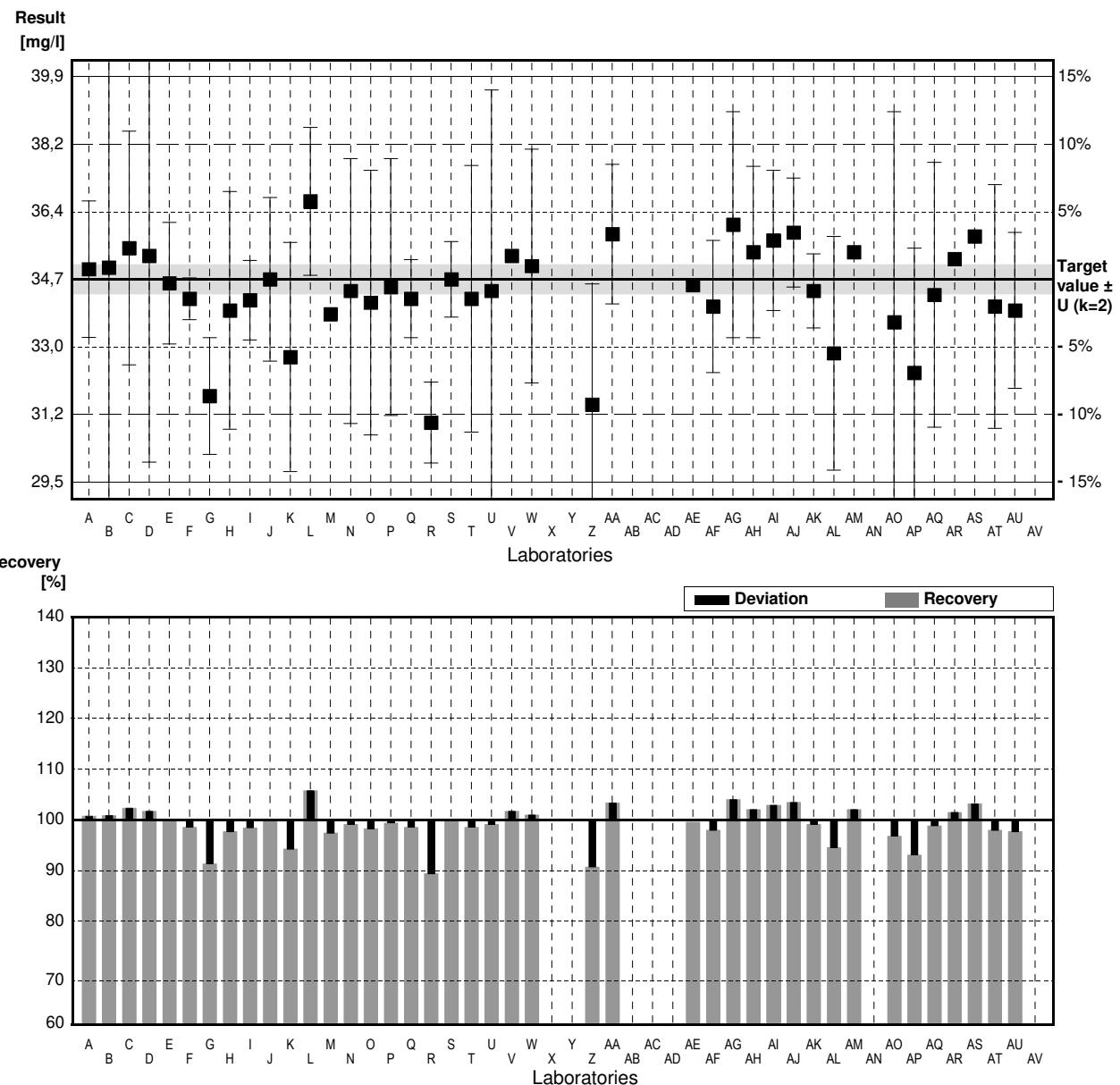
Target value  $\pm U$  ( $k=2$ ) 34,7 mg/l  $\pm$  0,4 mg/l

IFA result  $\pm U$  ( $k=2$ ) 34,8 mg/l  $\pm$  0,9 mg/l

Stability test mg/l

| Lab Code | Result  | $\pm$ | Unit | Recovery | z-Score |
|----------|---------|-------|------|----------|---------|
| A        | 34.96   | 1.75  | mg/l | 101%     | 0.24    |
| B        | 35.0    | 7.4   | mg/l | 101%     | 0.28    |
| C        | 35.5    | 3     | mg/l | 102%     | 0.74    |
| D        | 35.3    | 5.3   | mg/l | 102%     | 0.56    |
| E        | 34.6    | 1.56  | mg/l | 100%     | -0.09   |
| F        | 34.2    | 0.534 | mg/l | 99%      | -0.46   |
| G        | 31.7    | 1.5   | mg/l | 91%      | -2.79   |
| H        | 33.9    | 3.05  | mg/l | 98%      | -0.74   |
| I        | 34.16   | 1.02  | mg/l | 98%      | -0.50   |
| J        | 34.7    | 2.1   | mg/l | 100%     | 0.00    |
| K        | 32.7    | 2.94  | mg/l | 94%      | -1.86   |
| L        | 36.7    | 1.9   | mg/l | 106%     | 1.86    |
| M        | 33.8    |       | mg/l | 97%      | -0.84   |
| N        | 34.4    | 3.4   | mg/l | 99%      | -0.28   |
| O        | 34.1    | 3.4   | mg/l | 98%      | -0.56   |
| P        | 34.5    | 3.3   | mg/l | 99%      | -0.19   |
| Q        | 34.2    | 1.0   | mg/l | 99%      | -0.46   |
| R        | 31.02 * | 1.04  | mg/l | 89%      | -3.42   |
| S        | 34.7    | 0.97  | mg/l | 100%     | 0.00    |
| T        | 34.2    | 3.42  | mg/l | 99%      | -0.46   |
| U        | 34.4    | 5.16  | mg/l | 99%      | -0.28   |
| V        | 35.3    |       | mg/l | 102%     | 0.56    |
| W        | 35.04   | 3.0   | mg/l | 101%     | 0.32    |
| X        |         |       | mg/l |          |         |
| Y        |         |       | mg/l |          |         |
| Z        | 31.48 * | 3.1   | mg/l | 91%      | -2.99   |
| AA       | 35.86   | 1.79  | mg/l | 103%     | 1.08    |
| AB       |         |       | mg/l |          |         |
| AC       |         |       | mg/l |          |         |
| AD       |         |       | mg/l |          |         |
| AE       | 34.555  | 0.089 | mg/l | 100%     | -0.13   |
| AF       | 34.00   | 1.70  | mg/l | 98%      | -0.65   |
| AG       | 36.1    | 2.9   | mg/l | 104%     | 1.30    |
| AH       | 35.4    | 2.2   | mg/l | 102%     | 0.65    |
| AI       | 35.7    | 1.8   | mg/l | 103%     | 0.93    |
| AJ       | 35.9    | 1.4   | mg/l | 103%     | 1.12    |
| AK       | 34.4    | 0.95  | mg/l | 99%      | -0.28   |
| AL       | 32.8    | 3     | mg/l | 95%      | -1.77   |
| AM       | 35.4    |       | mg/l | 102%     | 0.65    |
| AN       |         |       | mg/l |          |         |
| AO       | 33.6    | 5.4   | mg/l | 97%      | -1.02   |
| AP       | 32.3    | 3.2   | mg/l | 93%      | -2.23   |
| AQ       | 34.3    | 3.4   | mg/l | 99%      | -0.37   |
| AR       | 35.22   |       | mg/l | 101%     | 0.48    |
| AS       | 35.8    |       | mg/l | 103%     | 1.02    |
| AT       | 34.0    | 3.13  | mg/l | 98%      | -0.65   |
| AU       | 33.9    | 2.0   | mg/l | 98%      | -0.74   |
| AV       |         |       | mg/l |          |         |

|                      | All results    | Outliers excl. | Unit |
|----------------------|----------------|----------------|------|
| Mean $\pm$ Cl(99%)   | 34,4 $\pm$ 0,5 | 34,5 $\pm$ 0,5 | mg/l |
| Recov. $\pm$ Cl(99%) | 99,1 $\pm$ 1,5 | 99,6 $\pm$ 1,3 | %    |
| SD between labs      | 1,2            | 1,0            | mg/l |
| RSD between labs     | 3,6            | 3,0            | %    |
| n for calculation    | 41             | 39             |      |



# Sample N167B

## Parameter Sulphate

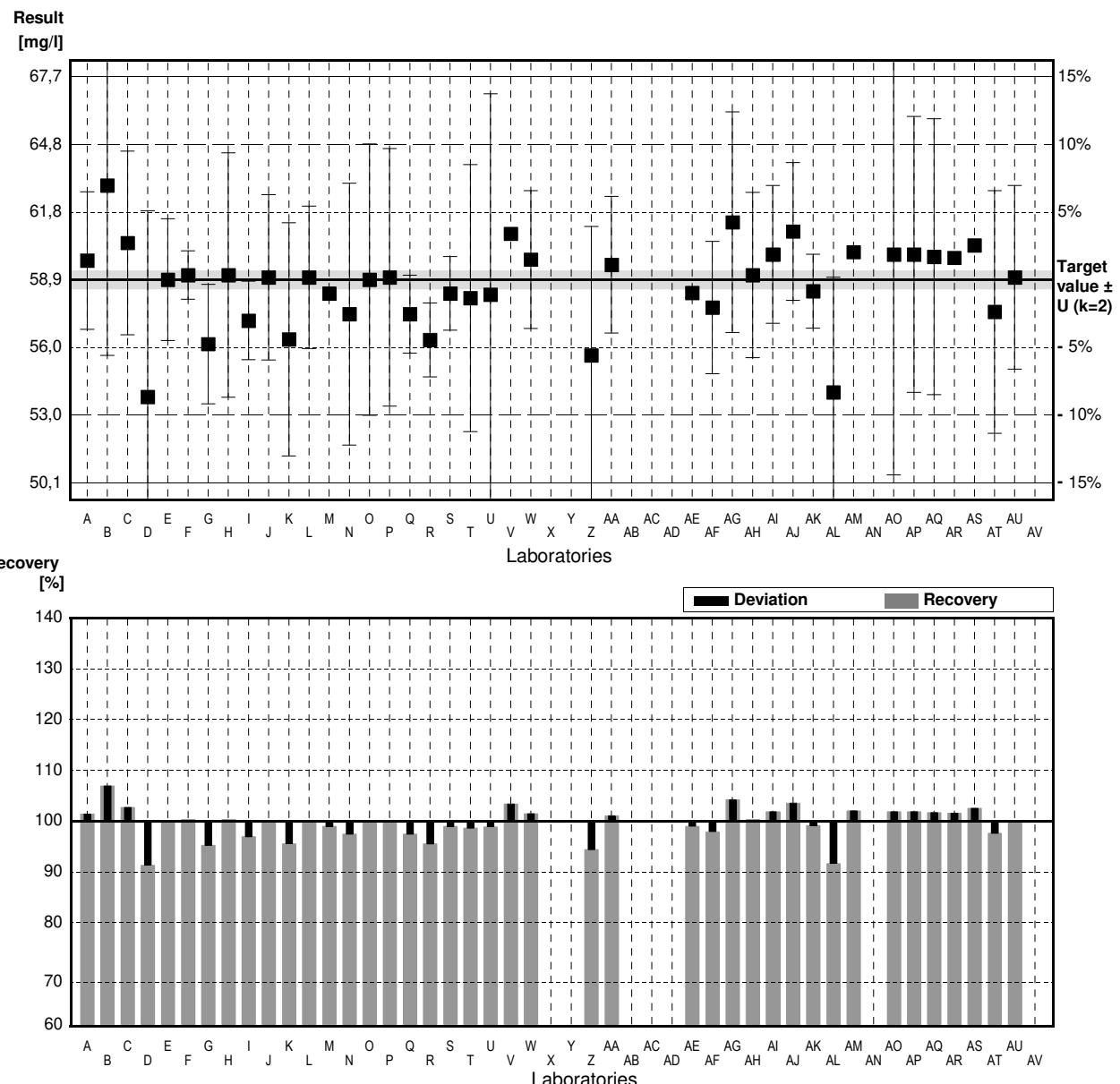
Target value  $\pm U$  ( $k=2$ ) 58,9 mg/l  $\pm$  0,4 mg/l

IFA result  $\pm U$  ( $k=2$ ) 58,8 mg/l  $\pm$  1,4 mg/l

Stability test mg/l

| Lab Code | Result | $\pm$ | Unit | Recovery | z-Score |
|----------|--------|-------|------|----------|---------|
| A        | 59,73  | 2,99  | mg/l | 101%     | 0,45    |
| B        | 63     | 7,4   | mg/l | 107%     | 2,25    |
| C        | 60,5   | 4     | mg/l | 103%     | 0,88    |
| D        | 53,8 * | 8,1   | mg/l | 91%      | -2,79   |
| E        | 58,9   | 2,65  | mg/l | 100%     | 0,00    |
| F        | 59,1   | 1,05  | mg/l | 100%     | 0,11    |
| G        | 56,1   | 2,6   | mg/l | 95%      | -1,53   |
| H        | 59,1   | 5,32  | mg/l | 100%     | 0,11    |
| I        | 57,12  | 1,71  | mg/l | 97%      | -0,97   |
| J        | 59     | 3,6   | mg/l | 100%     | 0,05    |
| K        | 56,3   | 5,07  | mg/l | 96%      | -1,42   |
| L        | 59     | 3,1   | mg/l | 100%     | 0,05    |
| M        | 58,3   |       | mg/l | 99%      | -0,33   |
| N        | 57,4   | 5,7   | mg/l | 97%      | -0,82   |
| O        | 58,9   | 5,9   | mg/l | 100%     | 0,00    |
| P        | 59,0   | 5,6   | mg/l | 100%     | 0,05    |
| Q        | 57,4   | 1,7   | mg/l | 97%      | -0,82   |
| R        | 56,28  | 1,61  | mg/l | 96%      | -1,43   |
| S        | 58,3   | 1,6   | mg/l | 99%      | -0,33   |
| T        | 58,1   | 5,81  | mg/l | 99%      | -0,44   |
| U        | 58,25  | 8,738 | mg/l | 99%      | -0,36   |
| V        | 60,9   |       | mg/l | 103%     | 1,10    |
| W        | 59,78  | 3,0   | mg/l | 101%     | 0,48    |
| X        |        |       | mg/l |          |         |
| Y        |        |       | mg/l |          |         |
| Z        | 55,61  | 5,6   | mg/l | 94%      | -1,80   |
| AA       | 59,55  | 2,978 | mg/l | 101%     | 0,36    |
| AB       |        |       | mg/l |          |         |
| AC       |        |       | mg/l |          |         |
| AD       |        |       | mg/l |          |         |
| AE       | 58,325 | 0,215 | mg/l | 99%      | -0,31   |
| AF       | 57,69  | 2,88  | mg/l | 98%      | -0,66   |
| AG       | 61,4   | 4,8   | mg/l | 104%     | 1,37    |
| AH       | 59,1   | 3,6   | mg/l | 100%     | 0,11    |
| AI       | 60,0   | 3,0   | mg/l | 102%     | 0,60    |
| AJ       | 61     | 3     | mg/l | 104%     | 1,15    |
| AK       | 58,4   | 1,61  | mg/l | 99%      | -0,27   |
| AL       | 54,0 * | 5     | mg/l | 92%      | -2,68   |
| AM       | 60,1   |       | mg/l | 102%     | 0,66    |
| AN       |        |       | mg/l |          |         |
| AO       | 60,0   | 9,6   | mg/l | 102%     | 0,60    |
| AP       | 60     | 6,0   | mg/l | 102%     | 0,60    |
| AQ       | 59,9   | 6,0   | mg/l | 102%     | 0,55    |
| AR       | 59,85  |       | mg/l | 102%     | 0,52    |
| AS       | 60,4   |       | mg/l | 103%     | 0,82    |
| AT       | 57,5   | 5,28  | mg/l | 98%      | -0,77   |
| AU       | 59     | 4     | mg/l | 100%     | 0,05    |
| AV       |        |       | mg/l |          |         |

|                      | All results    | Outliers excl.  | Unit |
|----------------------|----------------|-----------------|------|
| Mean $\pm$ CI(99%)   | 58,7 $\pm$ 0,8 | 58,9 $\pm$ 0,7  | mg/l |
| Recov. $\pm$ CI(99%) | 99,6 $\pm$ 1,3 | 100,1 $\pm$ 1,1 | %    |
| SD between labs      | 1,9            | 1,5             | mg/l |
| RSD between labs     | 3,2            | 2,6             | %    |
| n for calculation    | 41             | 39              |      |



## Sample N167A

### Parameter Orthophosphate

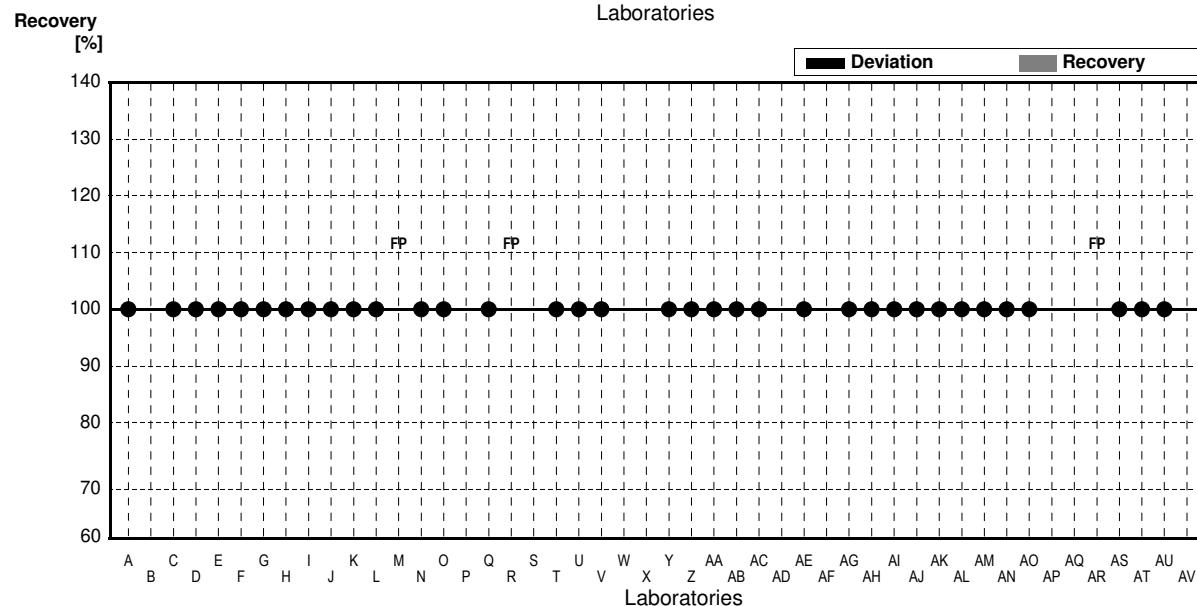
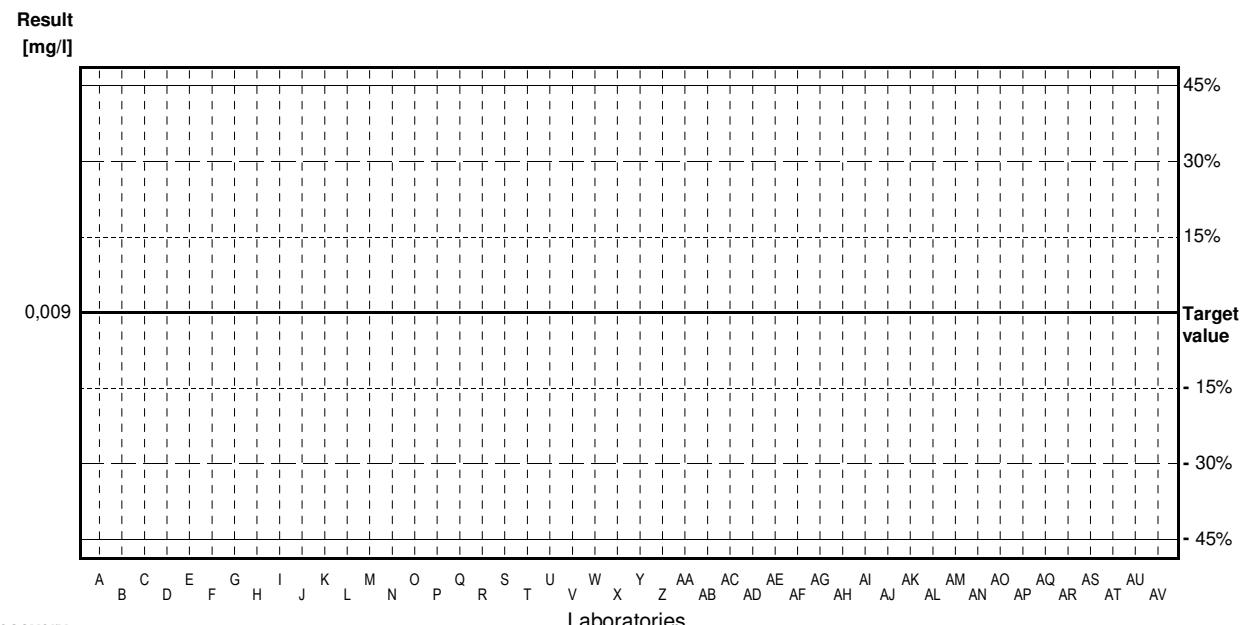
Target value <0.009 mg/l

IFA result <0.009 mg/l

Stability test <0.009 mg/l

| Lab Code | Result  | $\pm$   | Unit | Recovery | z-Score |
|----------|---------|---------|------|----------|---------|
| A        | <0.01   |         | mg/l | •        |         |
| B        |         |         | mg/l |          |         |
| C        | <0.01   |         | mg/l | •        |         |
| D        | <0.1    |         | mg/l | •        |         |
| E        | <0.02   |         | mg/l | •        |         |
| F        | <0.0150 |         | mg/l | •        |         |
| G        | <0.061  | 0.005   | mg/l | •        |         |
| H        | <0.060  |         | mg/l | •        |         |
| I        | <0.009  |         | mg/l | •        |         |
| J        | <0.01   |         | mg/l | •        |         |
| K        | <0.01   |         | mg/l | •        |         |
| L        | <0.02   |         | mg/l | •        |         |
| M        | 0.124   |         | mg/l | FP       |         |
| N        | <0.008  |         | mg/l | •        |         |
| O        | <0.015  |         | mg/l | •        |         |
| P        |         |         | mg/l |          |         |
| Q        | <0.040  |         | mg/l | •        |         |
| R        | 0.311   | 0.070   | mg/l | FP       |         |
| S        |         |         | mg/l |          |         |
| T        | <0.046  |         | mg/l | •        |         |
| U        | <0.03   |         | mg/l | •        |         |
| V        | <0.01   |         | mg/l | •        |         |
| W        |         |         | mg/l |          |         |
| X        |         |         | mg/l |          |         |
| Y        | <0.019  |         | mg/l | •        |         |
| Z        | <0.001  |         | mg/l | •        |         |
| AA       | 0.0060  | 0.00090 | mg/l | •        |         |
| AB       | <0.006  | 0       | mg/l | •        |         |
| AC       | <0.0100 | 0.00281 | mg/l | •        |         |
| AD       |         |         | mg/l |          |         |
| AE       | <0.020  |         | mg/l | •        |         |
| AF       |         |         | mg/l |          |         |
| AG       | <0.010  |         | mg/l | •        |         |
| AH       | <0.006  |         | mg/l | •        |         |
| AI       | <0.006  |         | mg/l | •        |         |
| AJ       | <0.01   |         | mg/l | •        |         |
| AK       | <0.003  |         | mg/l | •        |         |
| AL       | <0.04   |         | mg/l | •        |         |
| AM       | <0.03   |         | mg/l | •        |         |
| AN       | <0.010  | 0.0001  | mg/l | •        |         |
| AO       | <0.015  |         | mg/l | •        |         |
| AP       |         |         | mg/l |          |         |
| AQ       |         |         | mg/l |          |         |
| AR       | 0.0133  |         | mg/l | FP       |         |
| AS       | <0.01   |         | mg/l | •        |         |
| AT       | <0.02   |         | mg/l | •        |         |
| AU       | <0.009  |         | mg/l | •        |         |
| AV       |         |         | mg/l |          |         |

|                      | All results | Outliers excl. | Unit |
|----------------------|-------------|----------------|------|
| Mean $\pm$ CI(99%)   |             |                | mg/l |
| Recov. $\pm$ CI(99%) |             |                | %    |
| SD between labs      |             |                | mg/l |
| RSD between labs     |             |                | %    |
| n for calculation    |             |                |      |



# Sample N167B

## Parameter Orthophosphate

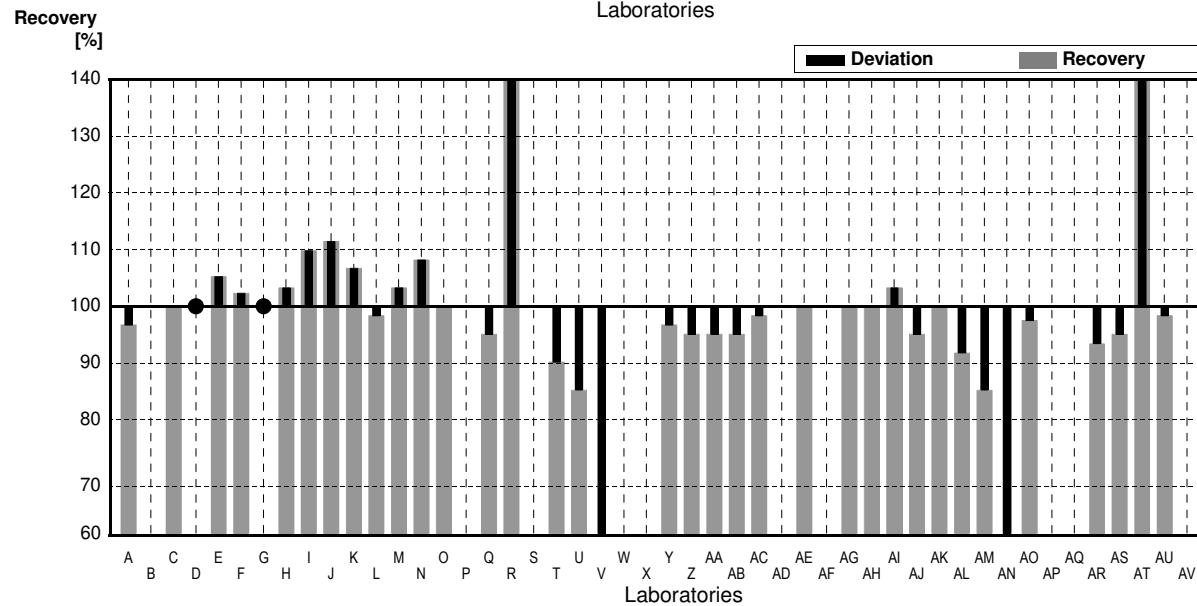
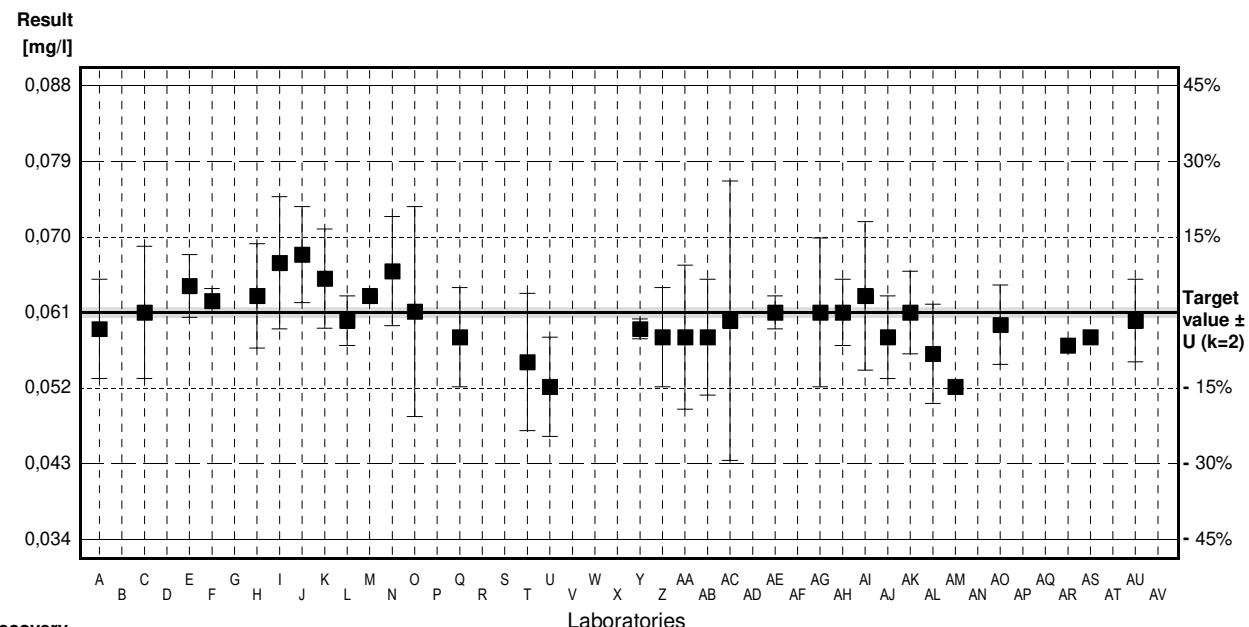
Target value  $\pm U$  ( $k=2$ ) 0,061 mg/l  $\pm$  0,001 mg/l

IFA result  $\pm U$  ( $k=2$ ) 0,062 mg/l  $\pm$  0,001 mg/l

Stability test  $\pm U$  ( $k=2$ ) 0,061 mg/l  $\pm$  0,001 mg/l

| Lab Code | Result   | $\pm$   | Unit | Recovery | z-Score |
|----------|----------|---------|------|----------|---------|
| A        | 0,0590   | 0,006   | mg/l | 97%      | -0,35   |
| B        |          |         | mg/l |          |         |
| C        | 0,061    | 0,008   | mg/l | 100%     | 0,00    |
| D        | <0,1     |         | mg/l | *        |         |
| E        | 0,0642   | 0,0038  | mg/l | 105%     | 0,55    |
| F        | 0,0624   | 0,00150 | mg/l | 102%     | 0,24    |
| G        | <0,061   | 0,005   | mg/l | *        |         |
| H        | 0,063    | 0,0063  | mg/l | 103%     | 0,35    |
| I        | 0,067    | 0,008   | mg/l | 110%     | 1,04    |
| J        | 0,068    | 0,0058  | mg/l | 111%     | 1,21    |
| K        | 0,0651   | 0,006   | mg/l | 107%     | 0,71    |
| L        | 0,060    | 0,003   | mg/l | 98%      | -0,17   |
| M        | 0,0630   |         | mg/l | 103%     | 0,35    |
| N        | 0,0660   | 0,0066  | mg/l | 108%     | 0,86    |
| O        | 0,0611   | 0,0127  | mg/l | 100%     | 0,02    |
| P        |          |         | mg/l |          |         |
| Q        | 0,058    | 0,006   | mg/l | 95%      | -0,52   |
| R        | 0,69 *   | 0,05    | mg/l | 1131%    | 108,54  |
| S        |          |         | mg/l |          |         |
| T        | 0,055    | 0,0083  | mg/l | 90%      | -1,04   |
| U        | 0,052    | 0,006   | mg/l | 85%      | -1,55   |
| V        | 0,0272 * |         | mg/l | 45%      | -5,83   |
| W        |          |         | mg/l |          |         |
| X        |          |         | mg/l |          |         |
| Y        | 0,059    | 0,00120 | mg/l | 97%      | -0,35   |
| Z        | 0,058    | 0,006   | mg/l | 95%      | -0,52   |
| AA       | 0,058    | 0,0087  | mg/l | 95%      | -0,52   |
| AB       | 0,058    | 0,007   | mg/l | 95%      | -0,52   |
| AC       | 0,0600   | 0,0169  | mg/l | 98%      | -0,17   |
| AD       |          |         | mg/l |          |         |
| AE       | 0,0610   | 0,002   | mg/l | 100%     | 0,00    |
| AF       |          |         | mg/l |          |         |
| AG       | 0,061    | 0,009   | mg/l | 100%     | 0,00    |
| AH       | 0,061    | 0,004   | mg/l | 100%     | 0,00    |
| AI       | 0,063    | 0,009   | mg/l | 103%     | 0,35    |
| AJ       | 0,058    | 0,005   | mg/l | 95%      | -0,52   |
| AK       | 0,061    | 0,005   | mg/l | 100%     | 0,00    |
| AL       | 0,056    | 0,006   | mg/l | 92%      | -0,86   |
| AM       | 0,052    |         | mg/l | 85%      | -1,55   |
| AN       | 0,0210 * | 0,0001  | mg/l | 34%      | -6,90   |
| AO       | 0,0595   | 0,0048  | mg/l | 98%      | -0,26   |
| AP       |          |         | mg/l |          |         |
| AQ       |          |         | mg/l |          |         |
| AR       | 0,057    |         | mg/l | 93%      | -0,69   |
| AS       | 0,058    |         | mg/l | 95%      | -0,52   |
| AT       | 0,128 *  | 0,026   | mg/l | 210%     | 11,56   |
| AU       | 0,060    | 0,005   | mg/l | 98%      | -0,17   |
| AV       |          |         | mg/l |          |         |

|                      | All results       | Outliers excl.    | Unit |
|----------------------|-------------------|-------------------|------|
| Mean $\pm$ Cl(99%)   | 0,078 $\pm$ 0,048 | 0,060 $\pm$ 0,002 | mg/l |
| Recov. $\pm$ Cl(99%) | 127,1 $\pm$ 79,1  | 98,6 $\pm$ 3,0    | %    |
| SD between labs      | 0,106             | 0,004             | mg/l |
| RSD between labs     | 136,7             | 6,2               | %    |
| n for calculation    | 36                | 32                |      |



# Sample N167A

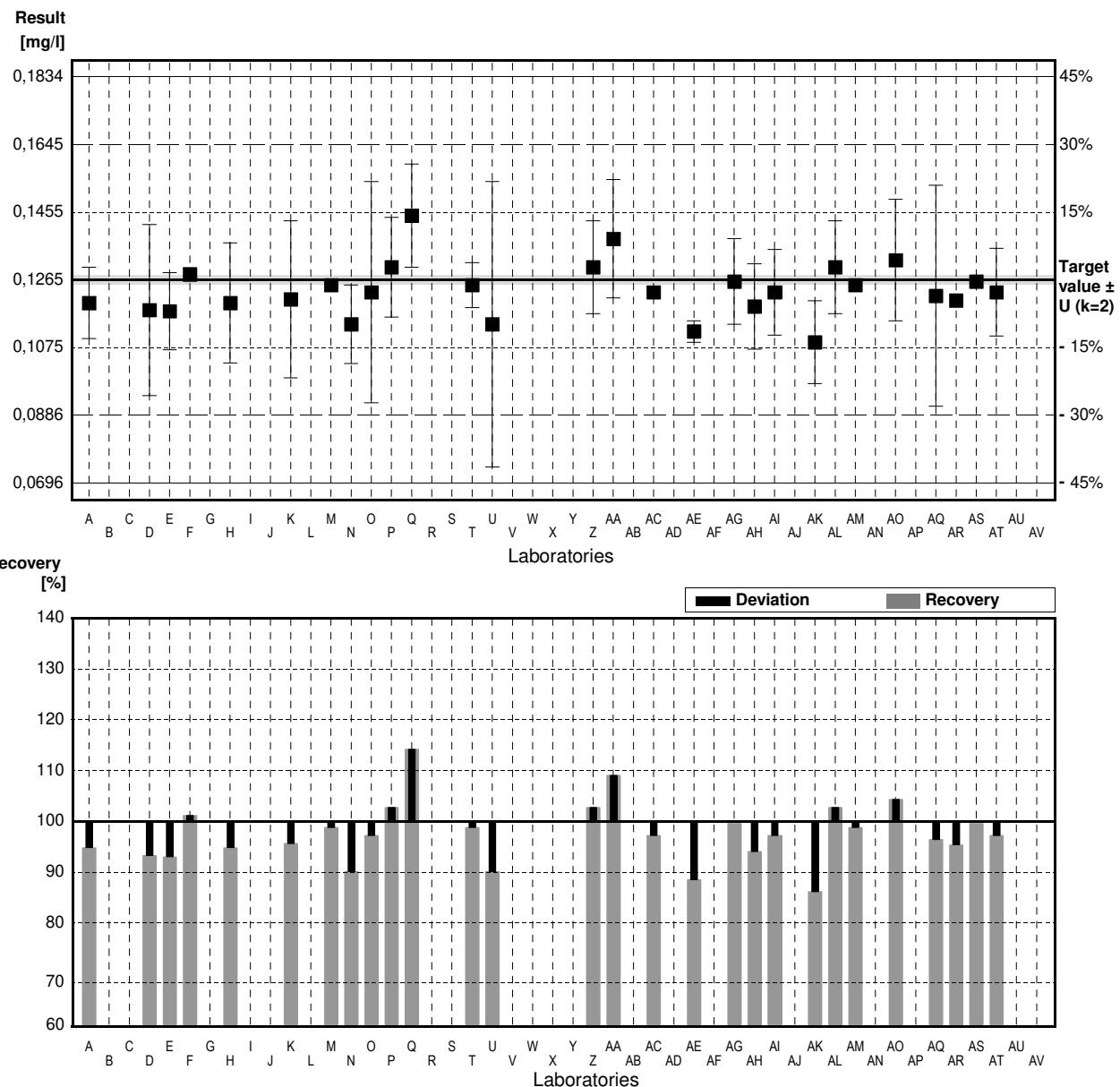
## Parameter Boron

Target value  $\pm U (k=2)$  0,1265 mg/l  $\pm$  0,0012 mg/l  
 IFA result  $\pm U (k=2)$  0,115 mg/l  $\pm$  0,009 mg/l

Stability test mg/l

| Lab Code | Result   | $\pm$   | Unit | Recovery | z-Score |
|----------|----------|---------|------|----------|---------|
| A        | 0.120    | 0.01    | mg/l | 95%      | -0.70   |
| B        |          |         | mg/l |          |         |
| C        |          |         | mg/l |          |         |
| D        | 0.118    | 0.024   | mg/l | 93%      | -0.92   |
| E        | 0.1177   | 0.0108  | mg/l | 93%      | -0.95   |
| F        | 0.128    | 0.00183 | mg/l | 101%     | 0.16    |
| G        |          |         | mg/l |          |         |
| H        | 0.120    | 0.0168  | mg/l | 95%      | -0.70   |
| I        |          |         | mg/l |          |         |
| J        |          |         | mg/l |          |         |
| K        | 0.121    | 0.022   | mg/l | 96%      | -0.60   |
| L        |          |         | mg/l |          |         |
| M        | 0.125    |         | mg/l | 99%      | -0.16   |
| N        | 0.114    | 0.011   | mg/l | 90%      | -1.35   |
| O        | 0.123    | 0.031   | mg/l | 97%      | -0.38   |
| P        | 0.130    | 0.014   | mg/l | 103%     | 0.38    |
| Q        | 0.1445 * | 0.01445 | mg/l | 114%     | 1.95    |
| R        |          |         | mg/l |          |         |
| S        |          |         | mg/l |          |         |
| T        | 0.125    | 0.0063  | mg/l | 99%      | -0.16   |
| U        | 0.114    | 0.04    | mg/l | 90%      | -1.35   |
| V        |          |         | mg/l |          |         |
| W        |          |         | mg/l |          |         |
| X        |          |         | mg/l |          |         |
| Y        |          |         | mg/l |          |         |
| Z        | 0.130    | 0.0130  | mg/l | 103%     | 0.38    |
| AA       | 0.138    | 0.0166  | mg/l | 109%     | 1.25    |
| AB       |          |         | mg/l |          |         |
| AC       | 0.123    |         | mg/l | 97%      | -0.38   |
| AD       |          |         | mg/l |          |         |
| AE       | 0.112    | 0.003   | mg/l | 89%      | -1.57   |
| AF       |          |         | mg/l |          |         |
| AG       | 0.126    | 0.012   | mg/l | 100%     | -0.05   |
| AH       | 0.119    | 0.012   | mg/l | 94%      | -0.81   |
| AI       | 0.123    | 0.012   | mg/l | 97%      | -0.38   |
| AJ       |          |         | mg/l |          |         |
| AK       | 0.109    | 0.0116  | mg/l | 86%      | -1.90   |
| AL       | 0.130    | 0.013   | mg/l | 103%     | 0.38    |
| AM       | 0.125    |         | mg/l | 99%      | -0.16   |
| AN       |          |         | mg/l |          |         |
| AO       | 0.132    | 0.017   | mg/l | 104%     | 0.60    |
| AP       |          |         | mg/l |          |         |
| AQ       | 0.122    | 0.031   | mg/l | 96%      | -0.49   |
| AR       | 0.1207   |         | mg/l | 95%      | -0.63   |
| AS       | 0.126    |         | mg/l | 100%     | -0.05   |
| AT       | 0.123    | 0.0123  | mg/l | 97%      | -0.38   |
| AU       |          |         | mg/l |          |         |
| AV       |          |         | mg/l |          |         |

|                      | All results        | Outliers excl.     | Unit |
|----------------------|--------------------|--------------------|------|
| Mean $\pm$ Cl(99%)   | 0,1235 $\pm$ 0,004 | 0,1228 $\pm$ 0,003 | mg/l |
| Recov. $\pm$ Cl(99%) | 97,7 $\pm$ 3,1     | 97,0 $\pm$ 2,7     | %    |
| SD between labs      | 0,0075             | 0,0065             | mg/l |
| RSD between labs     | 6,1                | 5,3                | %    |
| n for calculation    | 28                 | 27                 |      |



## Sample N167B

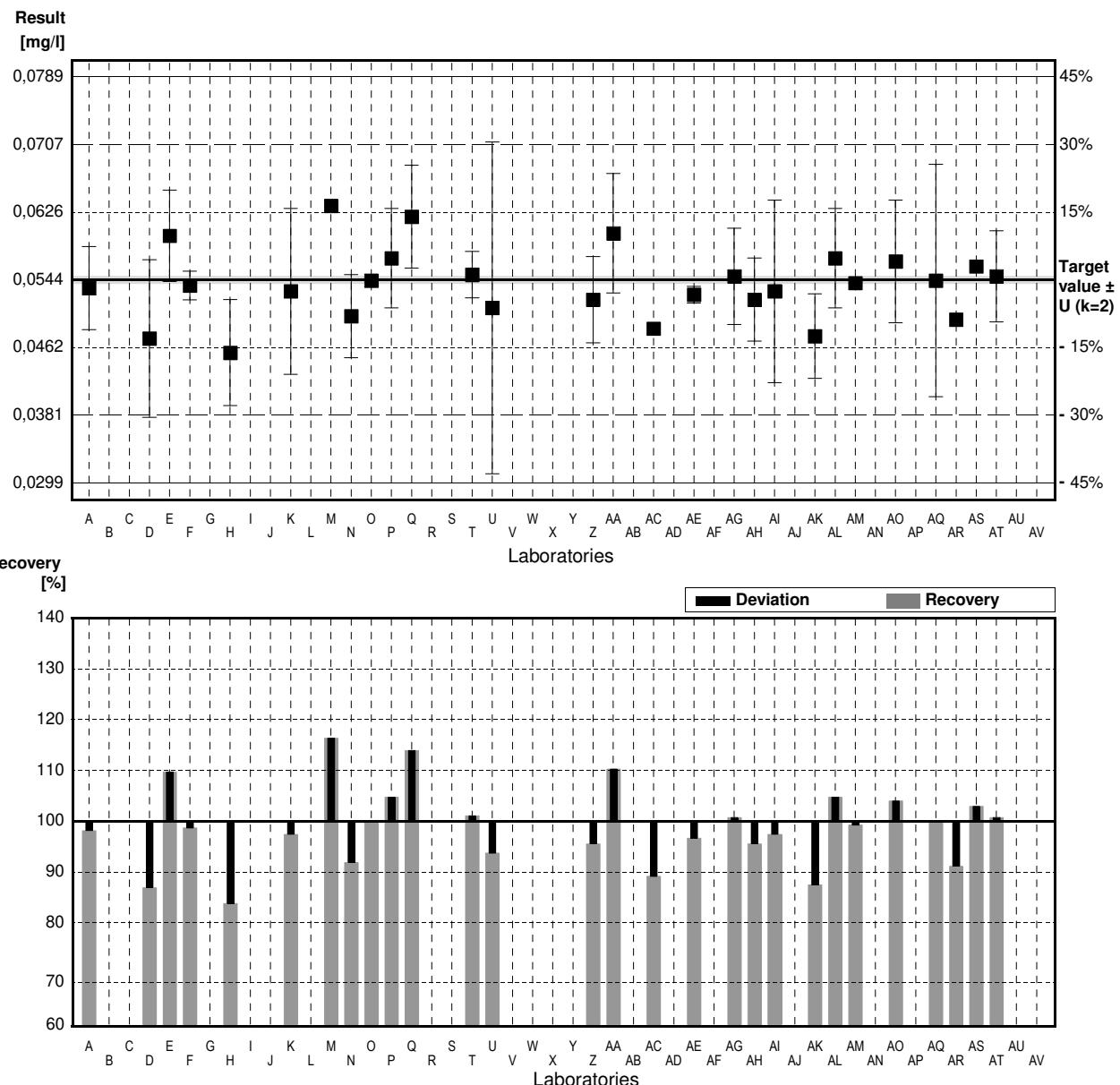
### Parameter Boron

Target value  $\pm U$  ( $k=2$ ) 0,0544 mg/l  $\pm$  0,0004 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 0,051 mg/l  $\pm$  0,004 mg/l

Stability test mg/l

| Lab Code | Result | $\pm$   | Unit | Recovery | z-Score |
|----------|--------|---------|------|----------|---------|
| A        | 0,0534 | 0,005   | mg/l | 98%      | -0,25   |
| B        |        |         | mg/l |          |         |
| C        |        |         | mg/l |          |         |
| D        | 0,0473 | 0,0095  | mg/l | 87%      | -1,79   |
| E        | 0,0597 | 0,0055  | mg/l | 110%     | 1,33    |
| F        | 0,0537 | 0,00172 | mg/l | 99%      | -0,18   |
| G        |        |         | mg/l |          |         |
| H        | 0,0456 | 0,00639 | mg/l | 84%      | -2,22   |
| I        |        |         | mg/l |          |         |
| J        |        |         | mg/l |          |         |
| K        | 0,053  | 0,010   | mg/l | 97%      | -0,35   |
| L        |        |         | mg/l |          |         |
| M        | 0,0633 |         | mg/l | 116%     | 2,24    |
| N        | 0,0500 | 0,0050  | mg/l | 92%      | -1,11   |
| O        | 0,0543 |         | mg/l | 100%     | -0,03   |
| P        | 0,057  | 0,006   | mg/l | 105%     | 0,65    |
| Q        | 0,062  | 0,0062  | mg/l | 114%     | 1,91    |
| R        |        |         | mg/l |          |         |
| S        |        |         | mg/l |          |         |
| T        | 0,055  | 0,0028  | mg/l | 101%     | 0,15    |
| U        | 0,051  | 0,02    | mg/l | 94%      | -0,86   |
| V        |        |         | mg/l |          |         |
| W        |        |         | mg/l |          |         |
| X        |        |         | mg/l |          |         |
| Y        |        |         | mg/l |          |         |
| Z        | 0,052  | 0,0052  | mg/l | 96%      | -0,60   |
| AA       | 0,060  | 0,0072  | mg/l | 110%     | 1,41    |
| AB       |        |         | mg/l |          |         |
| AC       | 0,0485 |         | mg/l | 89%      | -1,49   |
| AD       |        |         | mg/l |          |         |
| AE       | 0,0526 | 0,001   | mg/l | 97%      | -0,45   |
| AF       |        |         | mg/l |          |         |
| AG       | 0,0548 | 0,0058  | mg/l | 101%     | 0,10    |
| AH       | 0,052  | 0,005   | mg/l | 96%      | -0,60   |
| AI       | 0,053  | 0,011   | mg/l | 97%      | -0,35   |
| AJ       |        |         | mg/l |          |         |
| AK       | 0,0476 | 0,0051  | mg/l | 88%      | -1,71   |
| AL       | 0,057  | 0,006   | mg/l | 105%     | 0,65    |
| AM       | 0,054  |         | mg/l | 99%      | -0,10   |
| AN       |        |         | mg/l |          |         |
| AO       | 0,0566 | 0,0074  | mg/l | 104%     | 0,55    |
| AP       |        |         | mg/l |          |         |
| AQ       | 0,0543 | 0,014   | mg/l | 100%     | -0,03   |
| AR       | 0,0496 |         | mg/l | 91%      | -1,21   |
| AS       | 0,056  |         | mg/l | 103%     | 0,40    |
| AT       | 0,0548 | 0,00548 | mg/l | 101%     | 0,10    |
| AU       |        |         | mg/l |          |         |
| AV       |        |         | mg/l |          |         |

|                      | All results        | Outliers excl.     | Unit |
|----------------------|--------------------|--------------------|------|
| Mean $\pm$ CI(99%)   | 0,0539 $\pm$ 0,002 | 0,0539 $\pm$ 0,002 | mg/l |
| Recov. $\pm$ CI(99%) | 99,0 $\pm$ 4,1     | 99,0 $\pm$ 4,1     | %    |
| SD between labs      | 0,0043             | 0,0043             | mg/l |
| RSD between labs     | 7,9                | 7,9                | %    |
| n for calculation    | 28                 | 28                 |      |



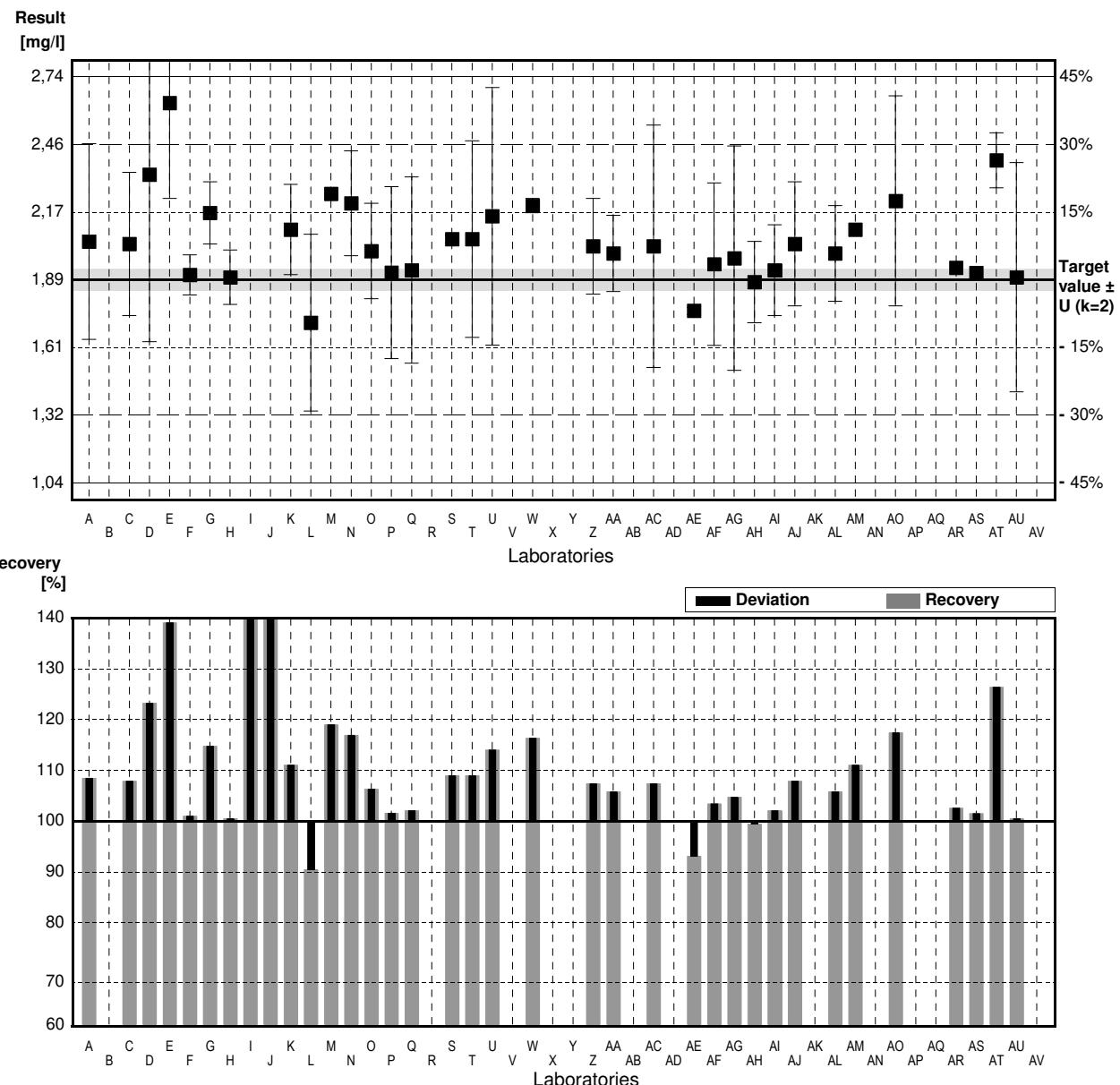
# Sample N167A

## Parameter DOC

Target value  $\pm U$  ( $k=2$ ) 1,89 mg/l  $\pm$  0,04 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 1,92 mg/l  $\pm$  0,09 mg/l  
 Stability test  $\pm U$  ( $k=2$ ) 2,04 mg/l  $\pm$  0,09 mg/l

| Lab Code | Result  | $\pm$  | Unit | Recovery | z-Score |
|----------|---------|--------|------|----------|---------|
| A        | 2,05    | 0,41   | mg/l | 108%     | 1,57    |
| B        |         |        | mg/l |          |         |
| C        | 2,04    | 0,3    | mg/l | 108%     | 1,47    |
| D        | 2,33    | 0,70   | mg/l | 123%     | 4,31    |
| E        | 2,63 *  | 0,40   | mg/l | 139%     | 7,25    |
| F        | 1,91    | 0,0836 | mg/l | 101%     | 0,20    |
| G        | 2,17    | 0,13   | mg/l | 115%     | 2,74    |
| H        | 1,90    | 0,114  | mg/l | 101%     | 0,10    |
| I        | 3,518 * | 0,528  | mg/l | 186%     | 15,95   |
| J        | 2,81 *  | 0,47   | mg/l | 149%     | 9,01    |
| K        | 2,10    | 0,189  | mg/l | 111%     | 2,06    |
| L        | 1,71    | 0,37   | mg/l | 90%      | -1,76   |
| M        | 2,25    |        | mg/l | 119%     | 3,53    |
| N        | 2,21    | 0,22   | mg/l | 117%     | 3,14    |
| O        | 2,01    | 0,20   | mg/l | 106%     | 1,18    |
| P        | 1,92    | 0,36   | mg/l | 102%     | 0,29    |
| Q        | 1,93    | 0,39   | mg/l | 102%     | 0,39    |
| R        |         |        | mg/l |          |         |
| S        | 2,06    | 0,016  | mg/l | 109%     | 1,67    |
| T        | 2,06    | 0,412  | mg/l | 109%     | 1,67    |
| U        | 2,156   | 0,5395 | mg/l | 114%     | 2,61    |
| V        |         |        | mg/l |          |         |
| W        | 2,20    | 0,03   | mg/l | 116%     | 3,04    |
| X        |         |        | mg/l |          |         |
| Y        |         |        | mg/l |          |         |
| Z        | 2,03    | 0,2    | mg/l | 107%     | 1,37    |
| AA       | 2,00    | 0,160  | mg/l | 106%     | 1,08    |
| AB       |         |        | mg/l |          |         |
| AC       | 2,03    | 0,508  | mg/l | 107%     | 1,37    |
| AD       |         |        | mg/l |          |         |
| AE       | 1,76    | 0,015  | mg/l | 93%      | -1,27   |
| AF       | 1,955   | 0,34   | mg/l | 103%     | 0,64    |
| AG       | 1,98    | 0,47   | mg/l | 105%     | 0,88    |
| AH       | 1,88    | 0,17   | mg/l | 99%      | -0,10   |
| AI       | 1,93    | 0,19   | mg/l | 102%     | 0,39    |
| AJ       | 2,04    | 0,26   | mg/l | 108%     | 1,47    |
| AK       |         |        | mg/l |          |         |
| AL       | 2,0     | 0,2    | mg/l | 106%     | 1,08    |
| AM       | 2,10    |        | mg/l | 111%     | 2,06    |
| AN       |         |        | mg/l |          |         |
| AO       | 2,22    | 0,44   | mg/l | 117%     | 3,23    |
| AP       |         |        | mg/l |          |         |
| AQ       |         |        | mg/l |          |         |
| AR       | 1,94    |        | mg/l | 103%     | 0,49    |
| AS       | 1,919   |        | mg/l | 102%     | 0,28    |
| AT       | 2,39    | 0,115  | mg/l | 126%     | 4,90    |
| AU       | 1,90    | 0,48   | mg/l | 101%     | 0,10    |
| AV       |         |        | mg/l |          |         |

|                      | All results     | Outliers excl.  | Unit |
|----------------------|-----------------|-----------------|------|
| Mean $\pm$ CI(99%)   | 2,11 $\pm$ 0,15 | 2,03 $\pm$ 0,07 | mg/l |
| Recov. $\pm$ CI(99%) | 111,8 $\pm$ 7,8 | 107,6 $\pm$ 3,8 | %    |
| SD between labs      | 0,32            | 0,15            | mg/l |
| RSD between labs     | 15,3            | 7,4             | %    |
| n for calculation    | 36              | 33              |      |



# Sample N167B

## Parameter DOC

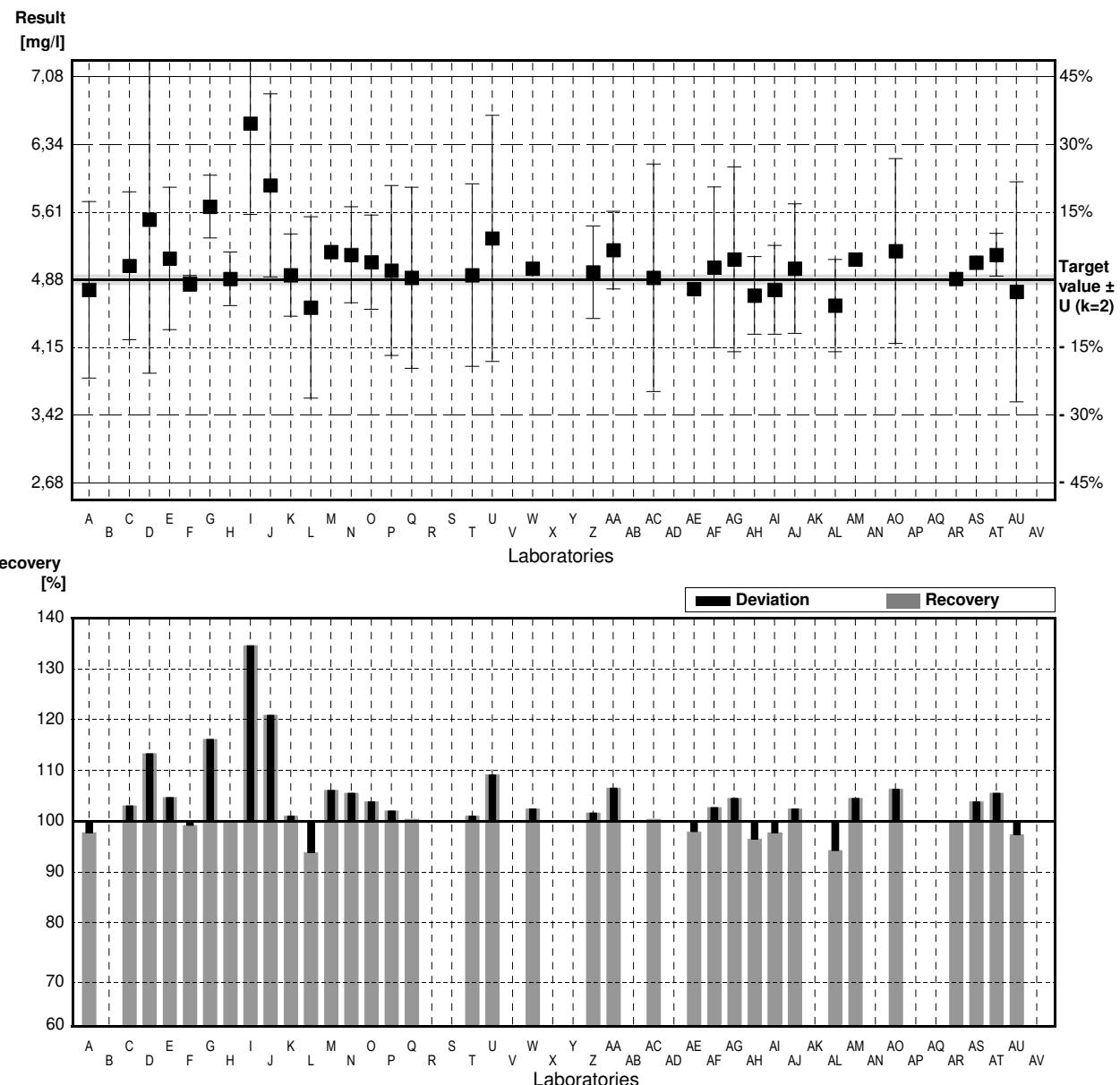
Target value  $\pm U$  ( $k=2$ ) 4,88 mg/l  $\pm$  0,05 mg/l

IFA result  $\pm U$  ( $k=2$ ) 4,73 mg/l  $\pm$  0,09 mg/l

Stability test  $\pm U$  ( $k=2$ ) 5,06 mg/l  $\pm$  0,10 mg/l

| Lab Code | Result  | $\pm$  | Unit | Recovery | z-Score |
|----------|---------|--------|------|----------|---------|
| A        | 4.77    | 0.954  | mg/l | 98%      | -0.42   |
| B        |         |        | mg/l |          |         |
| C        | 5.03    | 0.8    | mg/l | 103%     | 0.57    |
| D        | 5.53    | 1.66   | mg/l | 113%     | 2.47    |
| E        | 5.11    | 0.77   | mg/l | 105%     | 0.87    |
| F        | 4.84    | 0.0844 | mg/l | 99%      | -0.15   |
| G        | 5.67    | 0.34   | mg/l | 116%     | 3.00    |
| H        | 4.89    | 0.29   | mg/l | 100%     | 0.04    |
| I        | 6.570 * | 0.986  | mg/l | 135%     | 6.41    |
| J        | 5.9 *   | 0.99   | mg/l | 121%     | 3.87    |
| K        | 4.93    | 0.444  | mg/l | 101%     | 0.19    |
| L        | 4.58    | 0.98   | mg/l | 94%      | -1.14   |
| M        | 5.18    |        | mg/l | 106%     | 1.14    |
| N        | 5.15    | 0.52   | mg/l | 106%     | 1.02    |
| O        | 5.07    | 0.51   | mg/l | 104%     | 0.72    |
| P        | 4.98    | 0.92   | mg/l | 102%     | 0.38    |
| Q        | 4.90    | 0.98   | mg/l | 100%     | 0.08    |
| R        |         |        | mg/l |          |         |
| S        |         |        | mg/l |          |         |
| T        | 4.93    | 0.986  | mg/l | 101%     | 0.19    |
| U        | 5.327   | 1.332  | mg/l | 109%     | 1.70    |
| V        |         |        | mg/l |          |         |
| W        | 5.00    | 0.03   | mg/l | 102%     | 0.46    |
| X        |         |        | mg/l |          |         |
| Y        |         |        | mg/l |          |         |
| Z        | 4.96    | 0.5    | mg/l | 102%     | 0.30    |
| AA       | 5.20    | 0.420  | mg/l | 107%     | 1.21    |
| AB       |         |        | mg/l |          |         |
| AC       | 4.90    | 1.23   | mg/l | 100%     | 0.08    |
| AD       |         |        | mg/l |          |         |
| AE       | 4.78    | 0.053  | mg/l | 98%      | -0.38   |
| AF       | 5.014   | 0.87   | mg/l | 103%     | 0.51    |
| AG       | 5.1     | 1.0    | mg/l | 105%     | 0.83    |
| AH       | 4.71    | 0.42   | mg/l | 97%      | -0.65   |
| AI       | 4.77    | 0.48   | mg/l | 98%      | -0.42   |
| AJ       | 5.0     | 0.7    | mg/l | 102%     | 0.46    |
| AK       |         |        | mg/l |          |         |
| AL       | 4.6     | 0.5    | mg/l | 94%      | -1.06   |
| AM       | 5.1     |        | mg/l | 105%     | 0.83    |
| AN       |         |        | mg/l |          |         |
| AO       | 5.19    | 1.0    | mg/l | 106%     | 1.18    |
| AP       |         |        | mg/l |          |         |
| AQ       |         |        | mg/l |          |         |
| AR       | 4.89    |        | mg/l | 100%     | 0.04    |
| AS       | 5.067   |        | mg/l | 104%     | 0.71    |
| AT       | 5.15    | 0.231  | mg/l | 106%     | 1.02    |
| AU       | 4.75    | 1.19   | mg/l | 97%      | -0.49   |
| AV       |         |        | mg/l |          |         |

|                      | All results     | Outliers excl.  | Unit |
|----------------------|-----------------|-----------------|------|
| Mean $\pm$ CI(99%)   | $5,07 \pm 0,17$ | $5,00 \pm 0,11$ | mg/l |
| Recov. $\pm$ CI(99%) | $103,9 \pm 3,6$ | $102,5 \pm 2,3$ | %    |
| SD between labs      | 0,38            | 0,23            | mg/l |
| RSD between labs     | 7,4             | 4,7             | %    |
| n for calculation    | 35              | 33              |      |



## Sample N167A

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

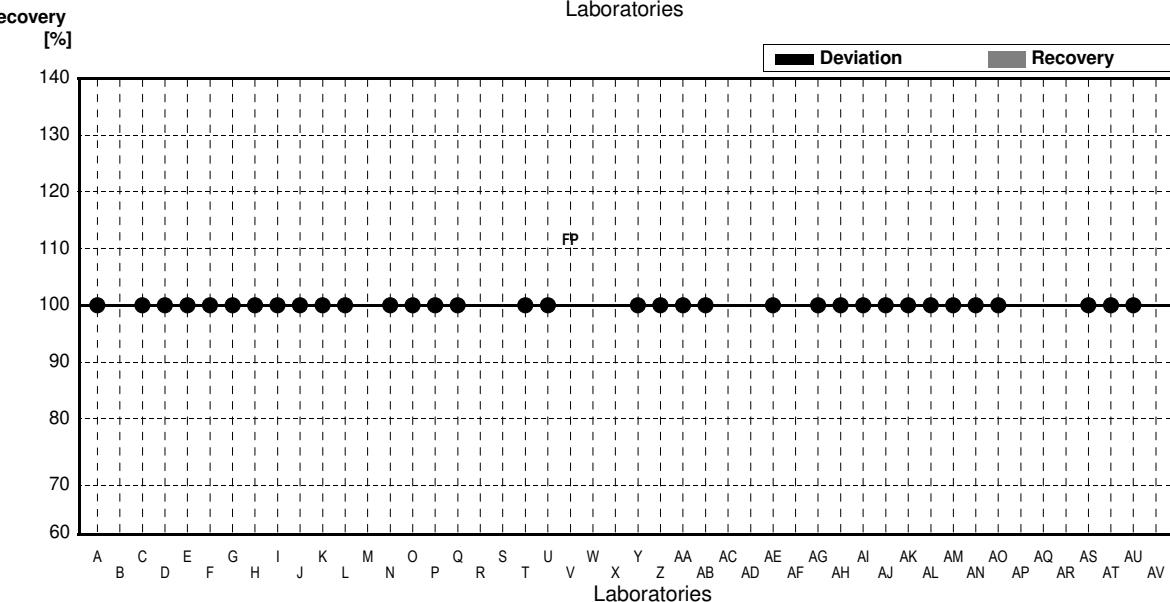
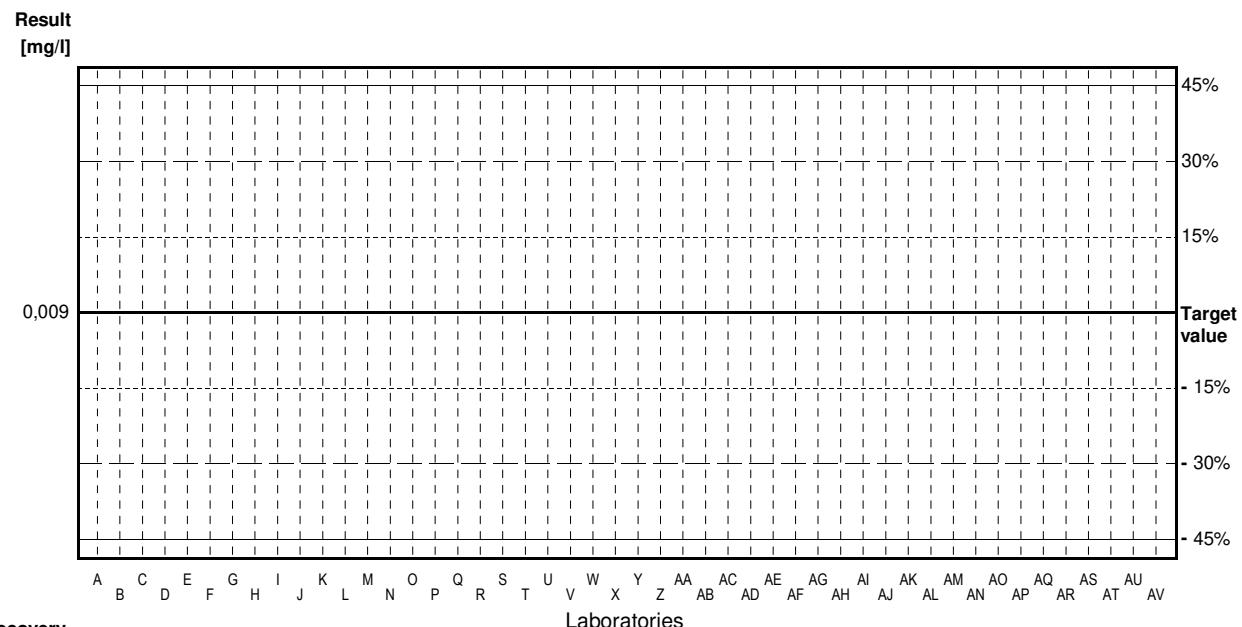
Target value <0.009 mg/l

IFA result <0.009 mg/l

Stability test mg/l

| Lab Code | Result  | ±      | Unit | Recovery | z-Score |
|----------|---------|--------|------|----------|---------|
| A        | <0.01   |        | mg/l | •        |         |
| B        |         |        | mg/l |          |         |
| C        | <0.013  |        | mg/l | •        |         |
| D        | <31     |        | mg/l | •        |         |
| E        | <0.02   |        | mg/l | •        |         |
| F        | <0.0150 |        | mg/l | •        |         |
| G        | <0.061  | 0.005  | mg/l | •        |         |
| H        | <0.060  |        | mg/l | •        |         |
| I        | <0.009  |        | mg/l | •        |         |
| J        | <0.01   |        | mg/l | •        |         |
| K        | <0.05   |        | mg/l | •        |         |
| L        | <0.15   |        | mg/l | •        |         |
| M        |         |        | mg/l |          |         |
| N        | <0.015  |        | mg/l | •        |         |
| O        | <0.015  |        | mg/l | •        |         |
| P        | <0.03   |        | mg/l | •        |         |
| Q        | <0.03   |        | mg/l | •        |         |
| R        |         |        | mg/l |          |         |
| S        |         |        | mg/l |          |         |
| T        | <0.015  |        | mg/l | •        |         |
| U        | <0.03   |        | mg/l | •        |         |
| V        | 0.0195  |        | mg/l | FP       |         |
| W        |         |        | mg/l |          |         |
| X        |         |        | mg/l |          |         |
| Y        | <0.02   |        | mg/l | •        |         |
| Z        | <0.003  |        | mg/l | •        |         |
| AA       | <0.006  |        | mg/l | •        |         |
| AB       | <0.006  | 0      | mg/l | •        |         |
| AC       |         |        | mg/l |          |         |
| AD       |         |        | mg/l |          |         |
| AE       | <0.020  |        | mg/l | •        |         |
| AF       |         |        | mg/l |          |         |
| AG       | <0.010  |        | mg/l | •        |         |
| AH       | <0.006  |        | mg/l | •        |         |
| AI       | <0.005  |        | mg/l | •        |         |
| AJ       | <0.01   |        | mg/l | •        |         |
| AK       | <0.003  |        | mg/l | •        |         |
| AL       | <0.04   |        | mg/l | •        |         |
| AM       | <0.015  |        | mg/l | •        |         |
| AN       | <0.02   | 0.0066 | mg/l | •        |         |
| AO       | <0.015  |        | mg/l | •        |         |
| AP       |         |        | mg/l |          |         |
| AQ       |         |        | mg/l |          |         |
| AR       |         |        | mg/l |          |         |
| AS       | <0.03   |        | mg/l | •        |         |
| AT       | <0.02   |        | mg/l | •        |         |
| AU       | <0.009  |        | mg/l | •        |         |
| AV       |         |        | 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 N167B

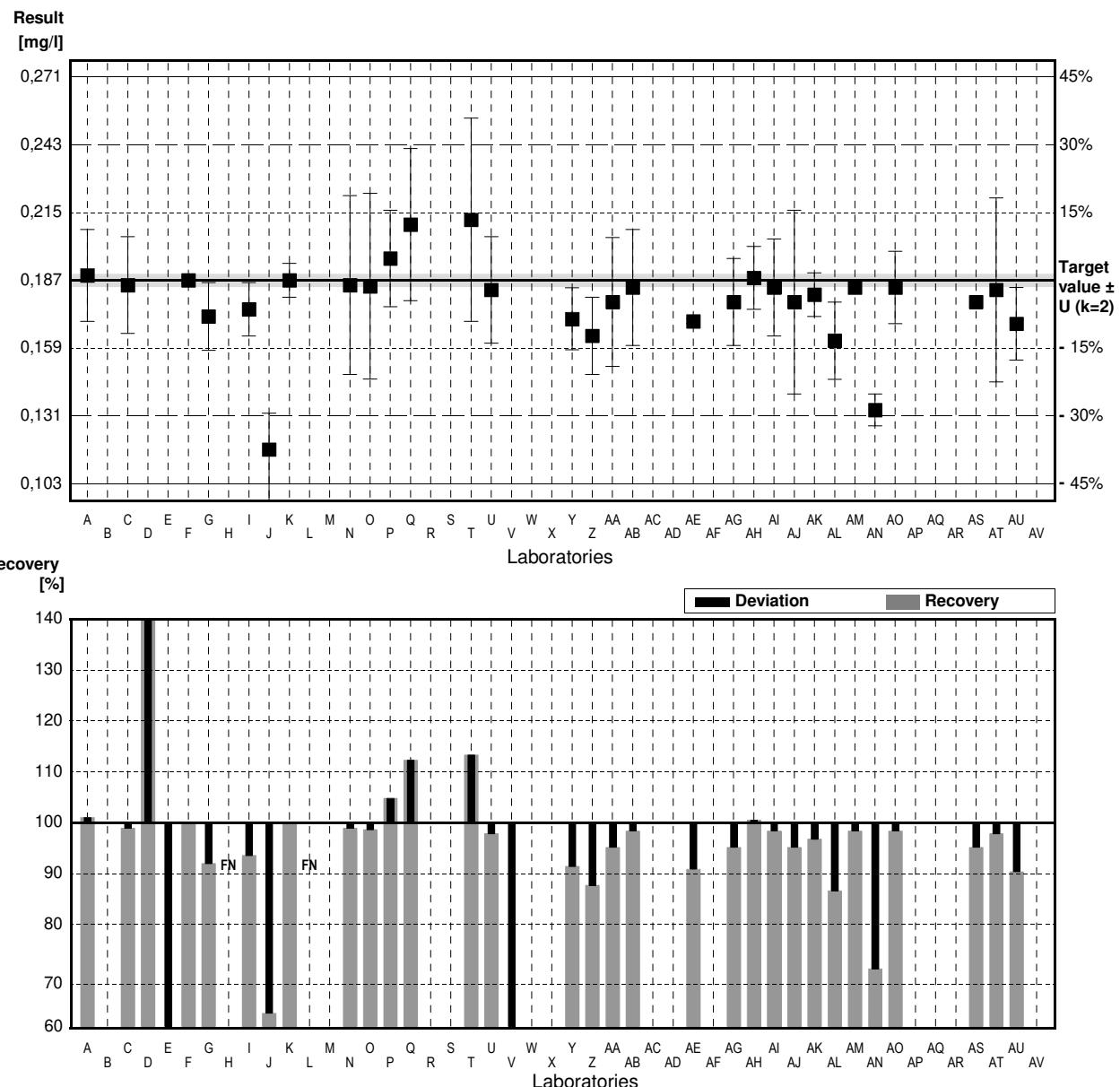
### Parameter Total P (as PO4)

Target value  $\pm U$  ( $k=2$ ) 0.187 mg/l  $\pm$  0.003 mg/l  
 IFA result  $\pm U$  ( $k=2$ ) 0.209 mg/l  $\pm$  0.024 mg/l

Stability test mg/l

| Lab Code | Result   | $\pm$   | Unit | Recovery | z-Score  |
|----------|----------|---------|------|----------|----------|
| A        | 0.189    | 0.019   | mg/l | 101%     | 0.11     |
| B        |          |         | mg/l |          |          |
| C        | 0.185    | 0.02    | mg/l | 99%      | -0.11    |
| D        | 0.179 *  | 0.036   | mg/l | 95722%   | 10172.55 |
| E        | 0.0632 * | 0.0078  | mg/l | 34%      | -7.04    |
| F        | 0.187    | 0.00140 | mg/l | 100%     | 0.00     |
| G        | 0.172    | 0.014   | mg/l | 92%      | -0.85    |
| H        | <0.060   |         | mg/l |          |          |
| I        | 0.175    | 0.011   | mg/l | 94%      | -0.68    |
| J        | 0.117 *  | 0.015   | mg/l | 63%      | -3.98    |
| K        | 0.187    | 0.007   | mg/l | 100%     | 0.00     |
| L        | <0.15    |         | mg/l |          |          |
| M        |          |         | mg/l |          |          |
| N        | 0.185    | 0.037   | mg/l | 99%      | -0.11    |
| O        | 0.1845   | 0.0384  | mg/l | 99%      | -0.14    |
| P        | 0.196    | 0.020   | mg/l | 105%     | 0.51     |
| Q        | 0.210 *  | 0.0315  | mg/l | 112%     | 1.31     |
| R        |          |         | mg/l |          |          |
| S        |          |         | mg/l |          |          |
| T        | 0.212 *  | 0.042   | mg/l | 113%     | 1.42     |
| U        | 0.183    | 0.022   | mg/l | 98%      | -0.23    |
| V        | 0.072 *  | 0.003   | mg/l | 39%      | -6.54    |
| W        |          |         | mg/l |          |          |
| X        |          |         | mg/l |          |          |
| Y        | 0.171    | 0.0128  | mg/l | 91%      | -0.91    |
| Z        | 0.164    | 0.016   | mg/l | 88%      | -1.31    |
| AA       | 0.178    | 0.0267  | mg/l | 95%      | -0.51    |
| AB       | 0.184    | 0.024   | mg/l | 98%      | -0.17    |
| AC       |          |         | mg/l |          |          |
| AD       |          |         | mg/l |          |          |
| AE       | 0.170    | 0.001   | mg/l | 91%      | -0.97    |
| AF       |          |         | mg/l |          |          |
| AG       | 0.178    | 0.018   | mg/l | 95%      | -0.51    |
| AH       | 0.188    | 0.013   | mg/l | 101%     | 0.06     |
| AI       | 0.184    | 0.020   | mg/l | 98%      | -0.17    |
| AJ       | 0.178    | 0.038   | mg/l | 95%      | -0.51    |
| AK       | 0.181    | 0.009   | mg/l | 97%      | -0.34    |
| AL       | 0.162    | 0.016   | mg/l | 87%      | -1.42    |
| AM       | 0.184    |         | mg/l | 98%      | -0.17    |
| AN       | 0.1333 * | 0.0066  | mg/l | 71%      | -3.05    |
| AO       | 0.184    | 0.015   | mg/l | 98%      | -0.17    |
| AP       |          |         | mg/l |          |          |
| AQ       |          |         | mg/l |          |          |
| AR       |          |         | mg/l |          |          |
| AS       | 0.178    |         | mg/l | 95%      | -0.51    |
| AT       | 0.183    | 0.038   | mg/l | 98%      | -0.23    |
| AU       | 0.169    | 0.015   | mg/l | 90%      | -1.02    |
| AV       |          |         | mg/l |          |          |

|                      | All results        | Outliers excl.    | Unit |
|----------------------|--------------------|-------------------|------|
| Mean $\pm$ CI(99%)   | 5,591 $\pm$ 14,84  | 0,180 $\pm$ 0,004 | mg/l |
| Recov. $\pm$ CI(99%) | 2989,6 $\pm$ 7940, | 96,2 $\pm$ 2,4    | %    |
| SD between labs      | 31,130             | 0,008             | mg/l |
| RSD between labs     | 556,8              | 4,5               | %    |
| n for calculation    | 33                 | 26                |      |



# Sample N167A

## Parameter KMnO<sub>4</sub>-Index

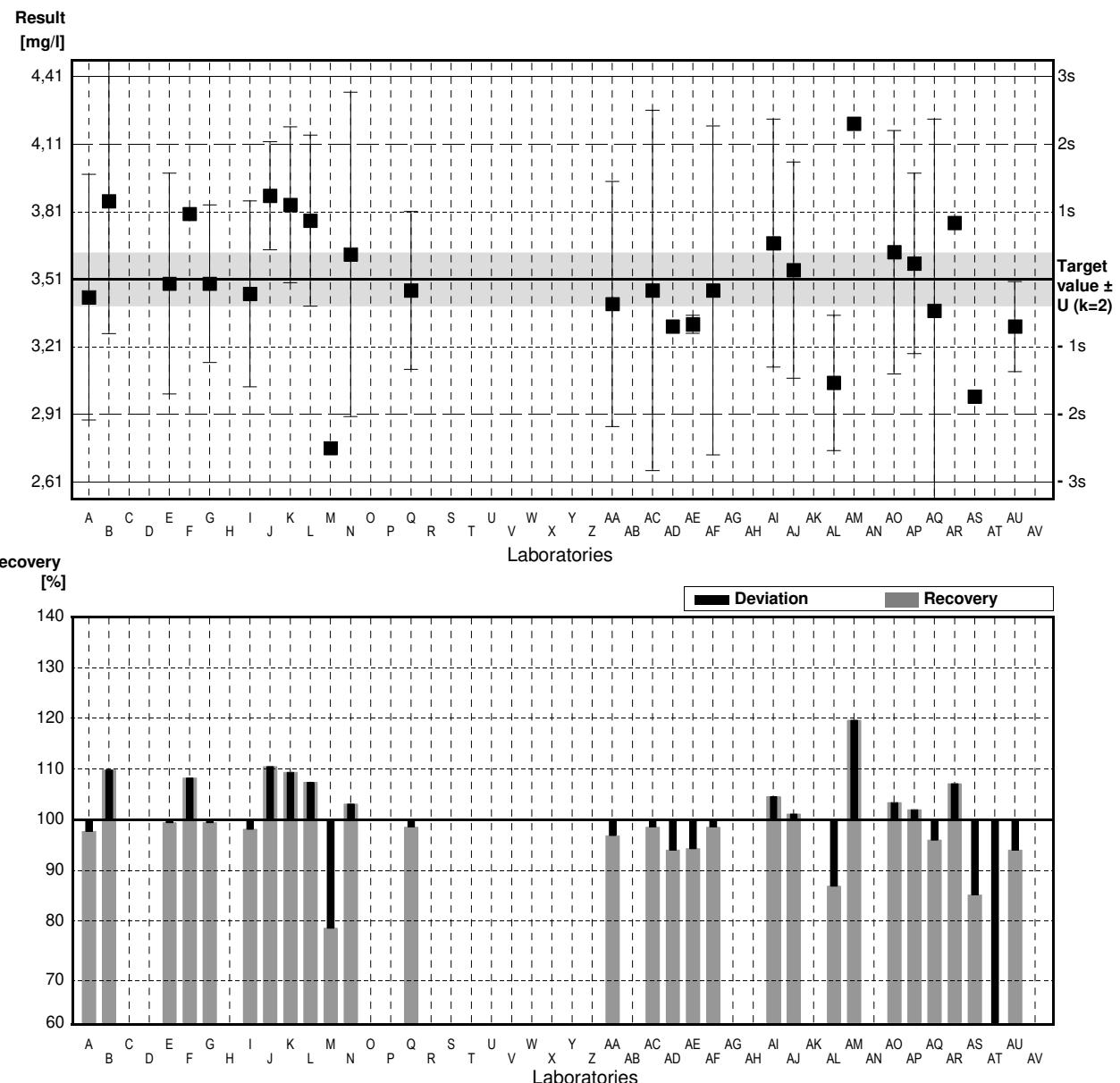
Target value  $\pm U$  ( $k=2$ ) 3,51 mg/l  $\pm$  0,12 mg/l

IFA result  $\pm U$  ( $k=2$ ) 3,66 mg/l  $\pm$  0,54 mg/l

Stability test  $\pm U$  ( $k=2$ ) 3,41 mg/l  $\pm$  0,51 mg/l

| Lab Code | Result | $\pm$ | Unit | Recovery | z-Score |
|----------|--------|-------|------|----------|---------|
| A        | 3,43   | 0,545 | mg/l | 98%      | -0,23   |
| B        | 3,856  | 0,588 | mg/l | 110%     | 0,99    |
| C        |        |       | mg/l |          |         |
| D        |        |       | mg/l |          |         |
| E        | 3,49   | 0,49  | mg/l | 99%      | -0,06   |
| F        | 3,80   |       | mg/l | 108%     | 0,83    |
| G        | 3,49   | 0,35  | mg/l | 99%      | -0,06   |
| H        |        |       | mg/l |          |         |
| I        | 3,445  | 0,413 | mg/l | 98%      | -0,19   |
| J        | 3,88   | 0,24  | mg/l | 111%     | 1,05    |
| K        | 3,84   | 0,346 | mg/l | 109%     | 0,94    |
| L        | 3,77   | 0,38  | mg/l | 107%     | 0,74    |
| M        | 2,76   |       | mg/l | 79%      | -2,14   |
| N        | 3,62   | 0,72  | mg/l | 103%     | 0,31    |
| O        |        |       | mg/l |          |         |
| P        |        |       | mg/l |          |         |
| Q        | 3,46   | 0,35  | mg/l | 99%      | -0,14   |
| R        |        |       | mg/l |          |         |
| S        |        |       | mg/l |          |         |
| T        |        |       | mg/l |          |         |
| U        |        |       | mg/l |          |         |
| V        |        |       | mg/l |          |         |
| W        |        |       | mg/l |          |         |
| X        |        |       | mg/l |          |         |
| Y        |        |       | mg/l |          |         |
| Z        |        |       | mg/l |          |         |
| AA       | 3,40   | 0,544 | mg/l | 97%      | -0,31   |
| AB       |        |       | mg/l |          |         |
| AC       | 3,46   | 0,799 | mg/l | 99%      | -0,14   |
| AD       | 3,30   |       | mg/l | 94%      | -0,60   |
| AE       | 3,31   | 0,040 | mg/l | 94%      | -0,57   |
| AF       | 3,46   | 0,73  | mg/l | 99%      | -0,14   |
| AG       |        |       | mg/l |          |         |
| AH       |        |       | mg/l |          |         |
| AI       | 3,67   | 0,55  | mg/l | 105%     | 0,46    |
| AJ       | 3,55   | 0,48  | mg/l | 101%     | 0,11    |
| AK       |        |       | mg/l |          |         |
| AL       | 3,05   | 0,3   | mg/l | 87%      | -1,31   |
| AM       | 4,20   |       | mg/l | 120%     | 1,97    |
| AN       |        |       | mg/l |          |         |
| AO       | 3,63   | 0,54  | mg/l | 103%     | 0,34    |
| AP       | 3,58   | 0,40  | mg/l | 102%     | 0,20    |
| AQ       | 3,37   | 0,85  | mg/l | 96%      | -0,40   |
| AR       | 3,76   |       | mg/l | 107%     | 0,71    |
| AS       | 2,99   |       | mg/l | 85%      | -1,48   |
| AT       | 1,70 * | 0,40  | mg/l | 48%      | -5,16   |
| AU       | 3,30   | 0,2   | mg/l | 94%      | -0,60   |
| AV       |        |       | mg/l |          |         |

|                      | All results     | Outliers excl.  | Unit |
|----------------------|-----------------|-----------------|------|
| Mean $\pm$ CI(99%)   | 3,45 $\pm$ 0,24 | 3,51 $\pm$ 0,16 | mg/l |
| Recov. $\pm$ CI(99%) | 98,3 $\pm$ 6,7  | 100,1 $\pm$ 4,6 | %    |
| SD between labs      | 0,45            | 0,30            | mg/l |
| RSD between labs     | 13,1            | 8,5             | %    |
| n for calculation    | 28              | 27              |      |



# Sample N167B

## Parameter KMnO<sub>4</sub>-Index

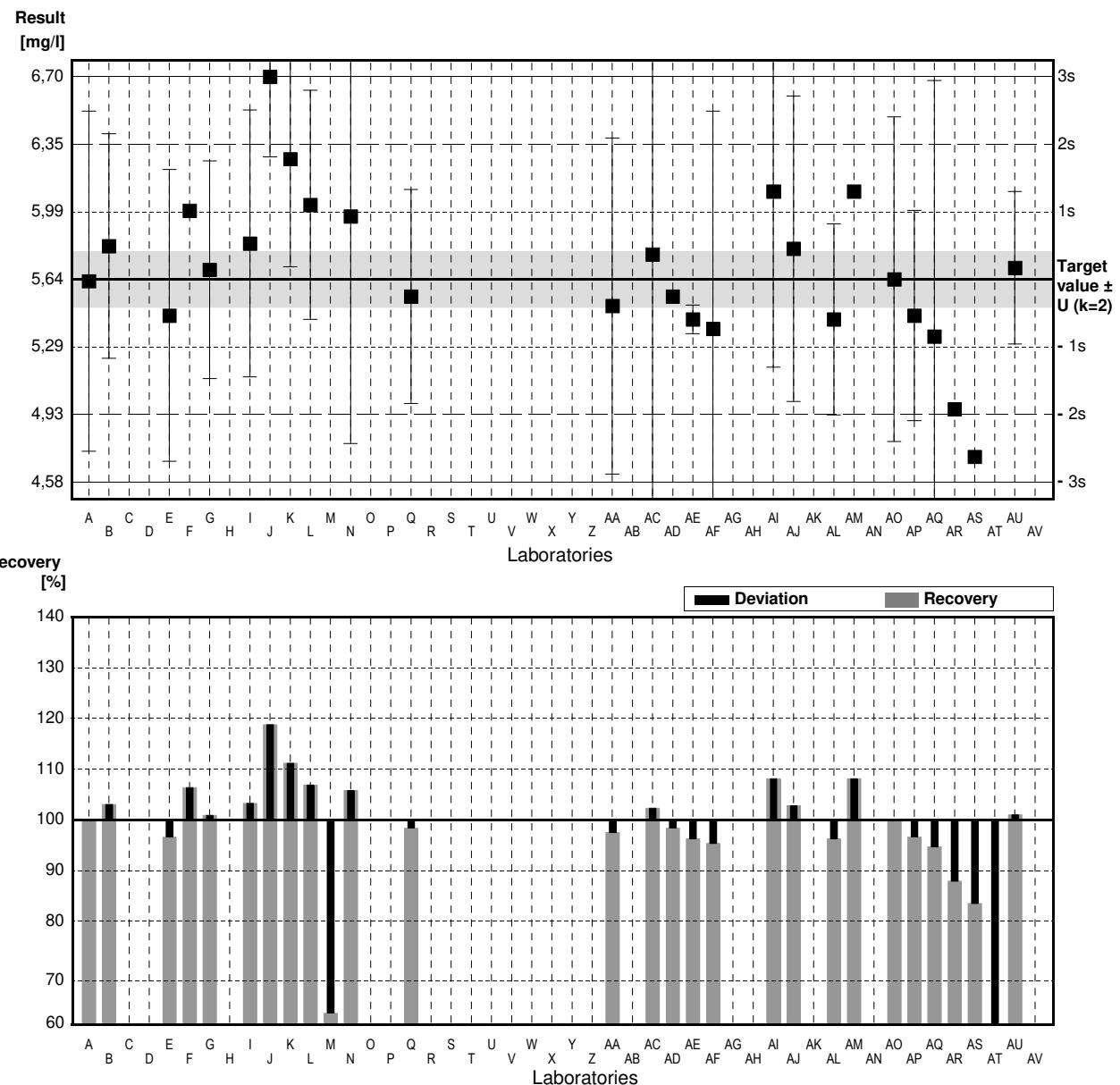
Target value  $\pm U$  ( $k=2$ ) 5,64 mg/l  $\pm$  0,15 mg/l

IFA result  $\pm U$  ( $k=2$ ) 5,73 mg/l  $\pm$  0,85 mg/l

Stability test  $\pm U$  ( $k=2$ ) 5,62 mg/l  $\pm$  0,84 mg/l

| Lab Code | Result | $\pm$ | Unit | Recovery | z-Score |
|----------|--------|-------|------|----------|---------|
| A        | 5.63   | 0.89  | mg/l | 100%     | -0.02   |
| B        | 5.814  | 0.588 | mg/l | 103%     | 0.31    |
| C        |        |       | mg/l |          |         |
| D        |        |       | mg/l |          |         |
| E        | 5.45   | 0.764 | mg/l | 97%      | -0.34   |
| F        | 6.00   | 0.564 | mg/l | 106%     | 0.64    |
| G        | 5.69   | 0.57  | mg/l | 101%     | 0.09    |
| H        |        |       | mg/l |          |         |
| I        | 5.827  | 0.699 | mg/l | 103%     | 0.33    |
| J        | 6.7    | *     | mg/l | 119%     | 1.88    |
| K        | 6.27   | 0.564 | mg/l | 111%     | 1.12    |
| L        | 6.03   | 0.60  | mg/l | 107%     | 0.69    |
| M        | 3.49   | *     | mg/l | 62%      | -3.81   |
| N        | 5.97   | 1.19  | mg/l | 106%     | 0.59    |
| O        |        |       | mg/l |          |         |
| P        |        |       | mg/l |          |         |
| Q        | 5.55   | 0.56  | mg/l | 98%      | -0.16   |
| R        |        |       | mg/l |          |         |
| S        |        |       | mg/l |          |         |
| T        |        |       | mg/l |          |         |
| U        |        |       | mg/l |          |         |
| V        |        |       | mg/l |          |         |
| W        |        |       | mg/l |          |         |
| X        |        |       | mg/l |          |         |
| Y        |        |       | mg/l |          |         |
| Z        |        |       | mg/l |          |         |
| AA       | 5.50   | 0.880 | mg/l | 98%      | -0.25   |
| AB       |        |       | mg/l |          |         |
| AC       | 5.77   | 1.33  | mg/l | 102%     | 0.23    |
| AD       | 5.55   |       | mg/l | 98%      | -0.16   |
| AE       | 5.43   | 0.075 | mg/l | 96%      | -0.37   |
| AF       | 5.38   | 1.14  | mg/l | 95%      | -0.46   |
| AG       |        |       | mg/l |          |         |
| AH       |        |       | mg/l |          |         |
| AI       | 6.1    | 0.92  | mg/l | 108%     | 0.82    |
| AJ       | 5.8    | 0.8   | mg/l | 103%     | 0.28    |
| AK       |        |       | mg/l |          |         |
| AL       | 5.43   | 0.5   | mg/l | 96%      | -0.37   |
| AM       | 6.10   |       | mg/l | 108%     | 0.82    |
| AN       |        |       | mg/l |          |         |
| AO       | 5.64   | 0.85  | mg/l | 100%     | 0.00    |
| AP       | 5.45   | 0.55  | mg/l | 97%      | -0.34   |
| AQ       | 5.34   | 1.34  | mg/l | 95%      | -0.53   |
| AR       | 4.96   |       | mg/l | 88%      | -1.21   |
| AS       | 4.71   |       | mg/l | 84%      | -1.65   |
| AT       | 2.23   | *     | mg/l | 40%      | -6.05   |
| AU       | 5.7    | 0.4   | mg/l | 101%     | 0.11    |
| AV       |        |       | mg/l |          |         |

|                      | All results     | Outliers excl.  | Unit |
|----------------------|-----------------|-----------------|------|
| Mean $\pm$ Cl(99%)   | 5,48 $\pm$ 0,45 | 5,64 $\pm$ 0,20 | mg/l |
| Recov. $\pm$ Cl(99%) | 97,2 $\pm$ 7,9  | 100,1 $\pm$ 3,5 | %    |
| SD between labs      | 0,85            | 0,35            | mg/l |
| RSD between labs     | 15,6            | 6,3             | %    |
| n for calculation    | 28              | 25              |      |





# **Illustration of Results Laboratory Oriented Part**

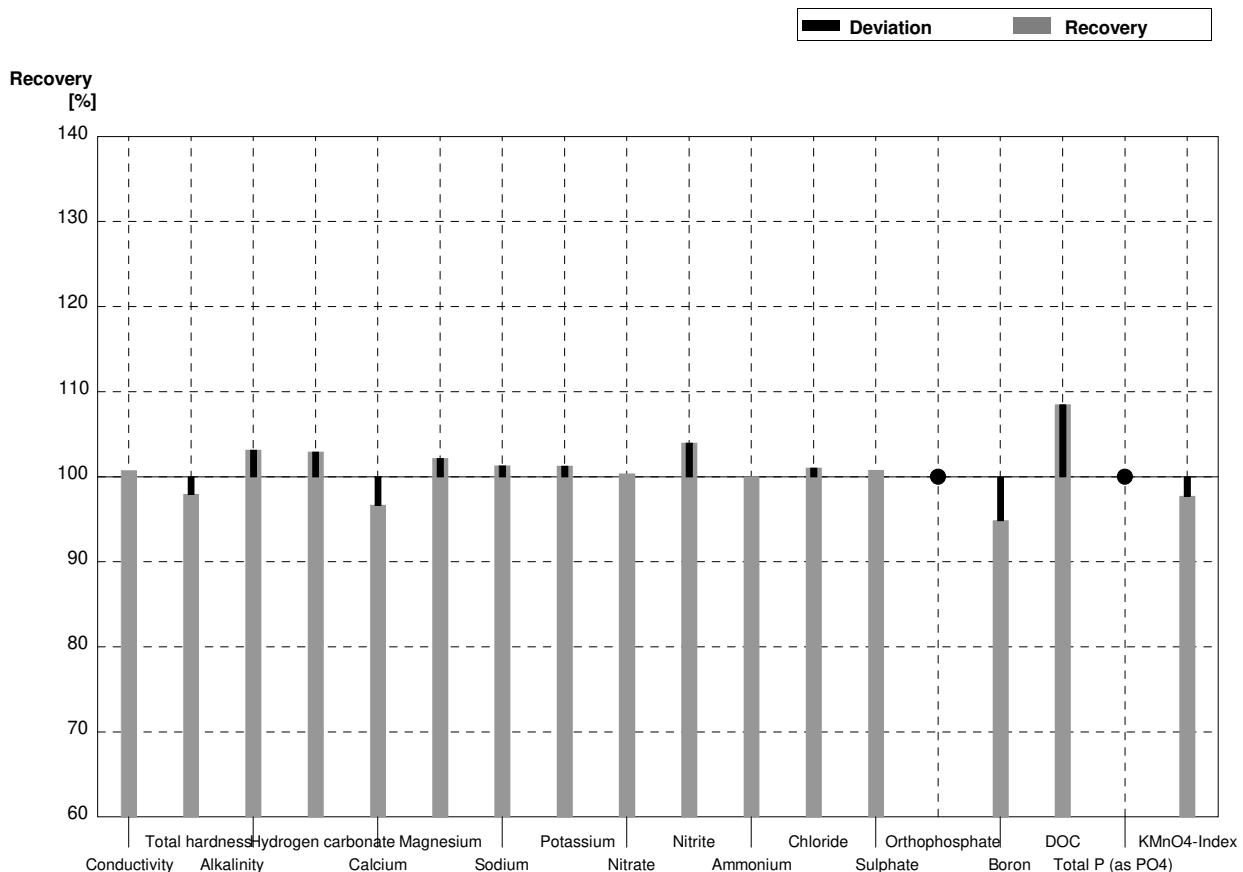
**Round N167  
Major Ions**

**Sample Dispatch: 22 May 2023**

Sample N167A

Laboratory A

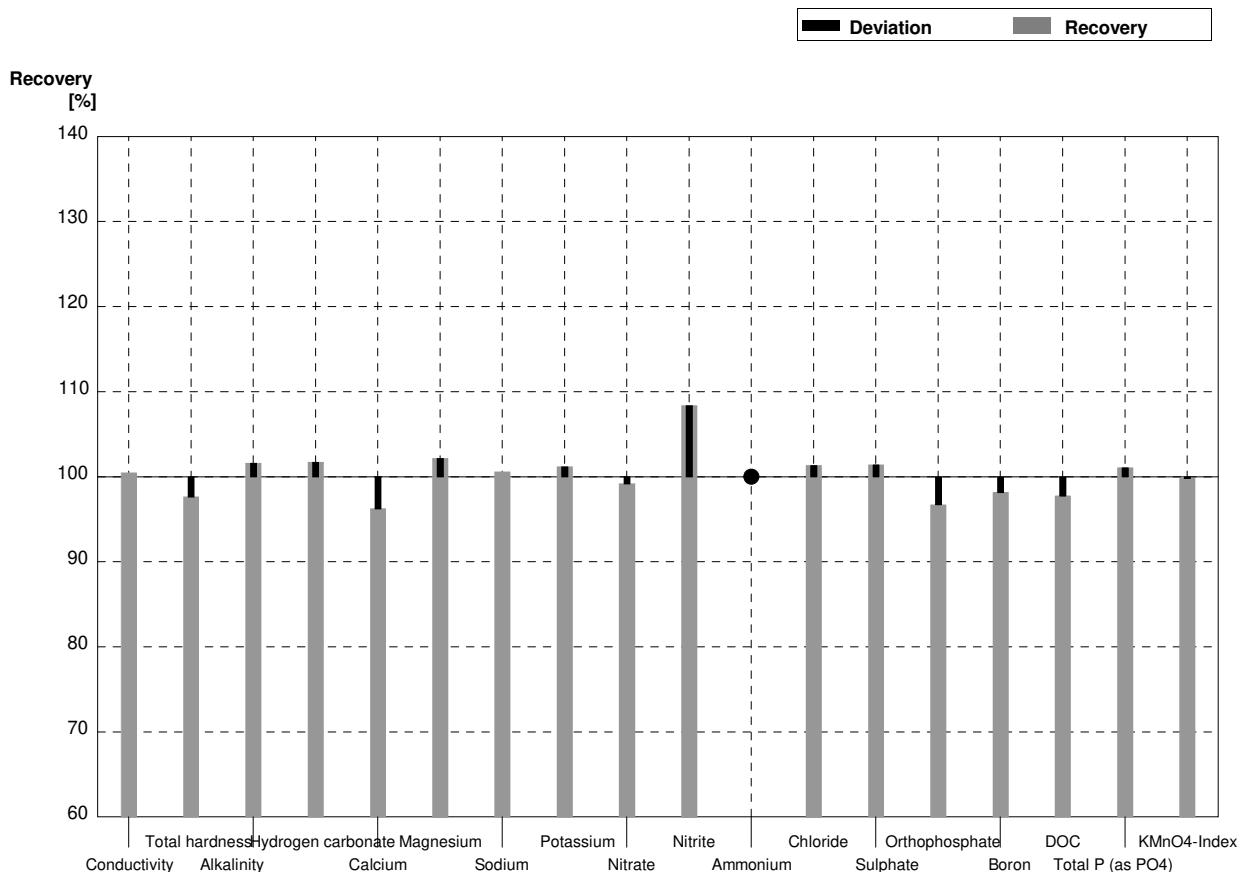
| Parameter          | Target value | $\pm$ U (k=2) | Result | $\pm$ | Unit                    | Recovery |
|--------------------|--------------|---------------|--------|-------|-------------------------|----------|
| Conductivity       | 544          | 2             | 548    | 30,5  | $\mu\text{S}/\text{cm}$ | 101%     |
| Total hardness     | 1,94         | 0,02          | 1,90   | 0,19  | $\text{mmol/l}$         | 98%      |
| Alkalinity         | 2,36         | 0,03          | 2,434  | 0,14  | $\text{mmol/l}$         | 103%     |
| Hydrogen carbonate | 140,9        | 1,7           | 145    | 11,6  | $\text{mg/l}$           | 103%     |
| Calcium            | 60,1         | 0,9           | 58,098 | 5,80  | $\text{mg/l}$           | 97%      |
| Magnesium          | 10,79        | 0,14          | 11,025 | 1,10  | $\text{mg/l}$           | 102%     |
| Sodium             | 24,9         | 0,3           | 25,223 | 2,52  | $\text{mg/l}$           | 101%     |
| Potassium          | 8,81         | 0,06          | 8,922  | 0,89  | $\text{mg/l}$           | 101%     |
| Nitrate            | 37,2         | 0,7           | 37,33  | 1,87  | $\text{mg/l}$           | 100%     |
| Nitrite            | 0,0404       | 0,0009        | 0,0420 | 0,004 | $\text{mg/l}$           | 104%     |
| Ammonium           | 0,070        | 0,004         | 0,0700 | 0,007 | $\text{mg/l}$           | 100%     |
| Chloride           | 54,8         | 1,2           | 55,37  | 2,77  | $\text{mg/l}$           | 101%     |
| Sulphate           | 34,7         | 0,4           | 34,96  | 1,75  | $\text{mg/l}$           | 101%     |
| Orthophosphate     | <0,009       |               | <0,01  |       | $\text{mg/l}$           | •        |
| Boron              | 0,1265       | 0,0012        | 0,120  | 0,01  | $\text{mg/l}$           | 95%      |
| DOC                | 1,89         | 0,04          | 2,05   | 0,41  | $\text{mg/l}$           | 108%     |
| Total P (as PO4)   | <0,009       |               | <0,01  |       | $\text{mg/l}$           | •        |
| KMnO4-Index        | 3,51         | 0,12          | 3,43   | 0,545 | $\text{mg/l}$           | 98%      |



Sample N167B

Laboratory A

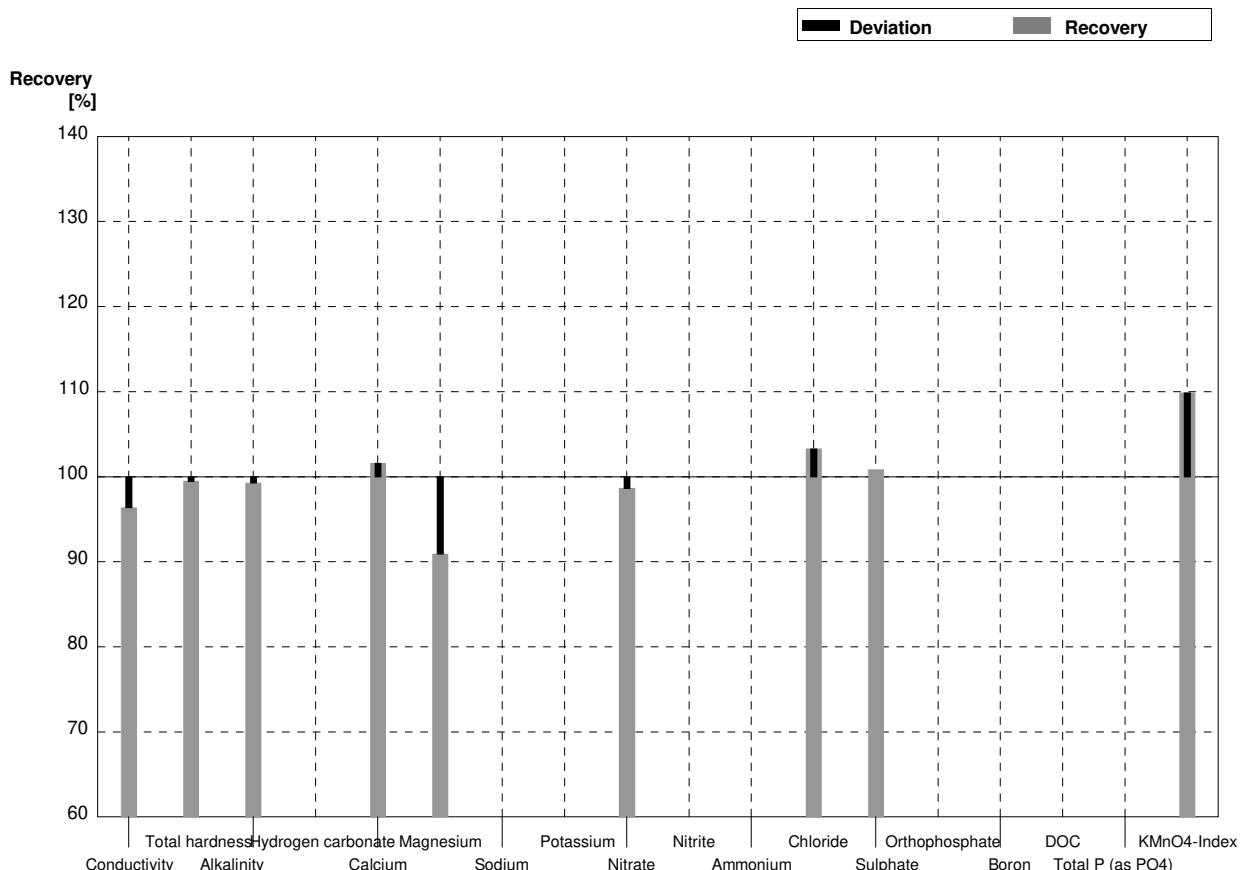
| Parameter          | Target value | $\pm$ U (k=2) | Result | $\pm$ | Unit                    | Recovery |
|--------------------|--------------|---------------|--------|-------|-------------------------|----------|
| Conductivity       | 444          | 1             | 446    | 24.8  | $\mu\text{S}/\text{cm}$ | 100%     |
| Total hardness     | 1,321        | 0,015         | 1,29   | 0,13  | $\text{mmol/l}$         | 98%      |
| Alkalinity         | 1,294        | 0,018         | 1,315  | 0,076 | $\text{mmol/l}$         | 102%     |
| Hydrogen carbonate | 75,9         | 1,1           | 77,2   | 6,18  | $\text{mg/l}$           | 102%     |
| Calcium            | 39,6         | 0,6           | 38,120 | 3,81  | $\text{mg/l}$           | 96%      |
| Magnesium          | 8,07         | 0,10          | 8,243  | 0,82  | $\text{mg/l}$           | 102%     |
| Sodium             | 30,8         | 0,2           | 30,982 | 3,1   | $\text{mg/l}$           | 101%     |
| Potassium          | 6,98         | 0,04          | 7,062  | 0,71  | $\text{mg/l}$           | 101%     |
| Nitrate            | 51,3         | 1,2           | 50,88  | 2,54  | $\text{mg/l}$           | 99%      |
| Nitrite            | 0,0203       | 0,0018        | 0,0220 | 0,002 | $\text{mg/l}$           | 108%     |
| Ammonium           | <0,01        |               | <0,01  |       | $\text{mg/l}$           | •        |
| Chloride           | 28,6         | 0,4           | 28,98  | 1,45  | $\text{mg/l}$           | 101%     |
| Sulphate           | 58,9         | 0,4           | 59,73  | 2,99  | $\text{mg/l}$           | 101%     |
| Orthophosphate     | 0,061        | 0,001         | 0,0590 | 0,006 | $\text{mg/l}$           | 97%      |
| Boron              | 0,0544       | 0,0004        | 0,0534 | 0,005 | $\text{mg/l}$           | 98%      |
| DOC                | 4,88         | 0,05          | 4,77   | 0,954 | $\text{mg/l}$           | 98%      |
| Total P (as PO4)   | 0,187        | 0,003         | 0,189  | 0,019 | $\text{mg/l}$           | 101%     |
| KMnO4-Index        | 5,64         | 0,15          | 5,63   | 0,89  | $\text{mg/l}$           | 100%     |



Sample N167A

Laboratory B

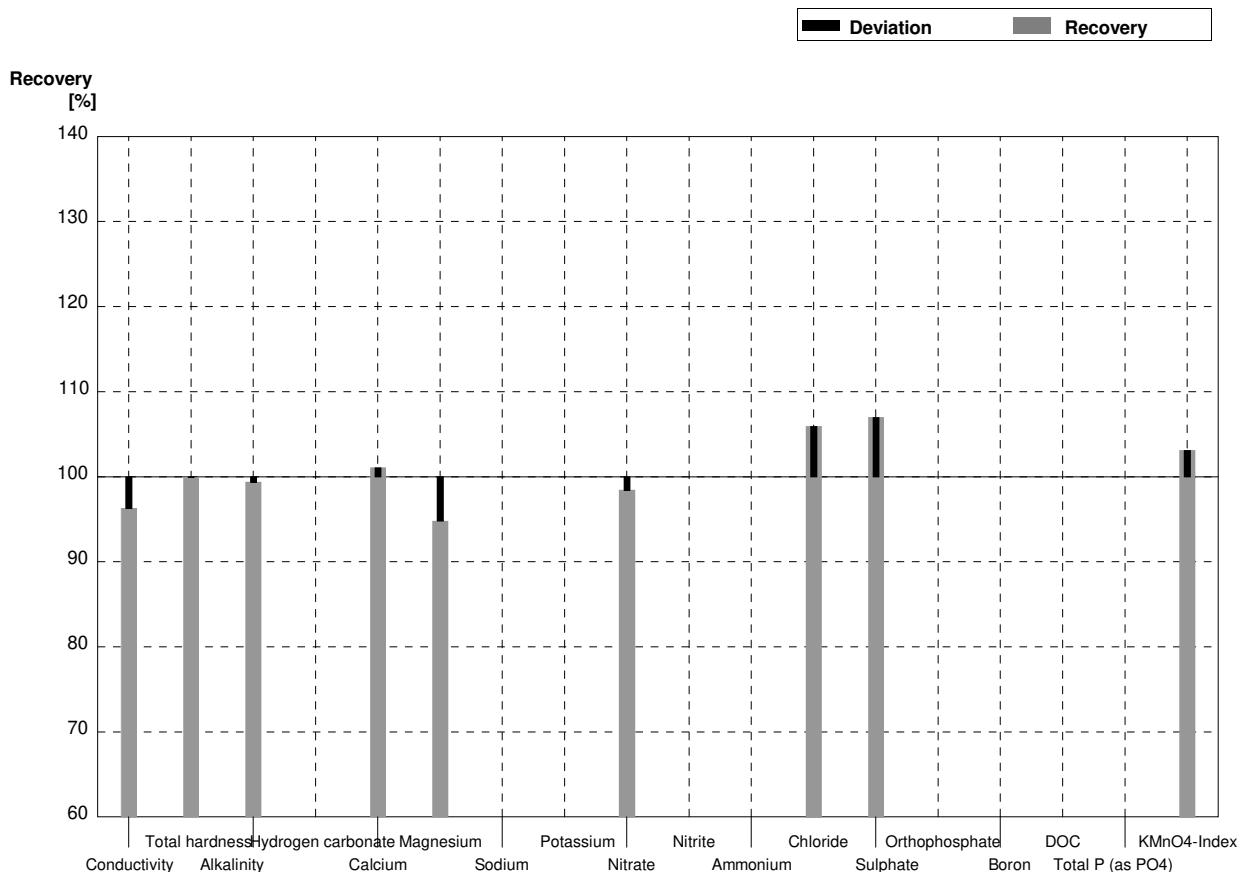
| Parameter          | Target value | $\pm$ U (k=2) | Result | $\pm$ | Unit                    | Recovery |
|--------------------|--------------|---------------|--------|-------|-------------------------|----------|
| Conductivity       | 544          | 2             | 524,3  | 0,275 | $\mu\text{S}/\text{cm}$ | 96%      |
| Total hardness     | 1,94         | 0,02          | 1,93   | 0,06  | $\text{mmol/l}$         | 99%      |
| Alkalinity         | 2,36         | 0,03          | 2,343  | 0,06  | $\text{mmol/l}$         | 99%      |
| Hydrogen carbonate | 140,9        | 1,7           |        |       | $\text{mg/l}$           |          |
| Calcium            | 60,1         | 0,9           | 61,06  | 0,82  | $\text{mg/l}$           | 102%     |
| Magnesium          | 10,79        | 0,14          | 9,81   | 1,53  | $\text{mg/l}$           | 91%      |
| Sodium             | 24,9         | 0,3           |        |       | $\text{mg/l}$           |          |
| Potassium          | 8,81         | 0,06          |        |       | $\text{mg/l}$           |          |
| Nitrate            | 37,2         | 0,7           | 36,7   | 0,482 | $\text{mg/l}$           | 99%      |
| Nitrite            | 0,0404       | 0,0009        |        |       | $\text{mg/l}$           |          |
| Ammonium           | 0,070        | 0,004         |        |       | $\text{mg/l}$           |          |
| Chloride           | 54,8         | 1,2           | 56,6   | 1,074 | $\text{mg/l}$           | 103%     |
| Sulphate           | 34,7         | 0,4           | 35,0   | 7,4   | $\text{mg/l}$           | 101%     |
| Orthophosphate     | <0,009       |               |        |       | $\text{mg/l}$           |          |
| Boron              | 0,1265       | 0,0012        |        |       | $\text{mg/l}$           |          |
| DOC                | 1,89         | 0,04          |        |       | $\text{mg/l}$           |          |
| Total P (as PO4)   | <0,009       |               |        |       | $\text{mg/l}$           |          |
| KMnO4-Index        | 3,51         | 0,12          | 3,856  | 0,588 | $\text{mg/l}$           | 110%     |



Sample N167B

Laboratory B

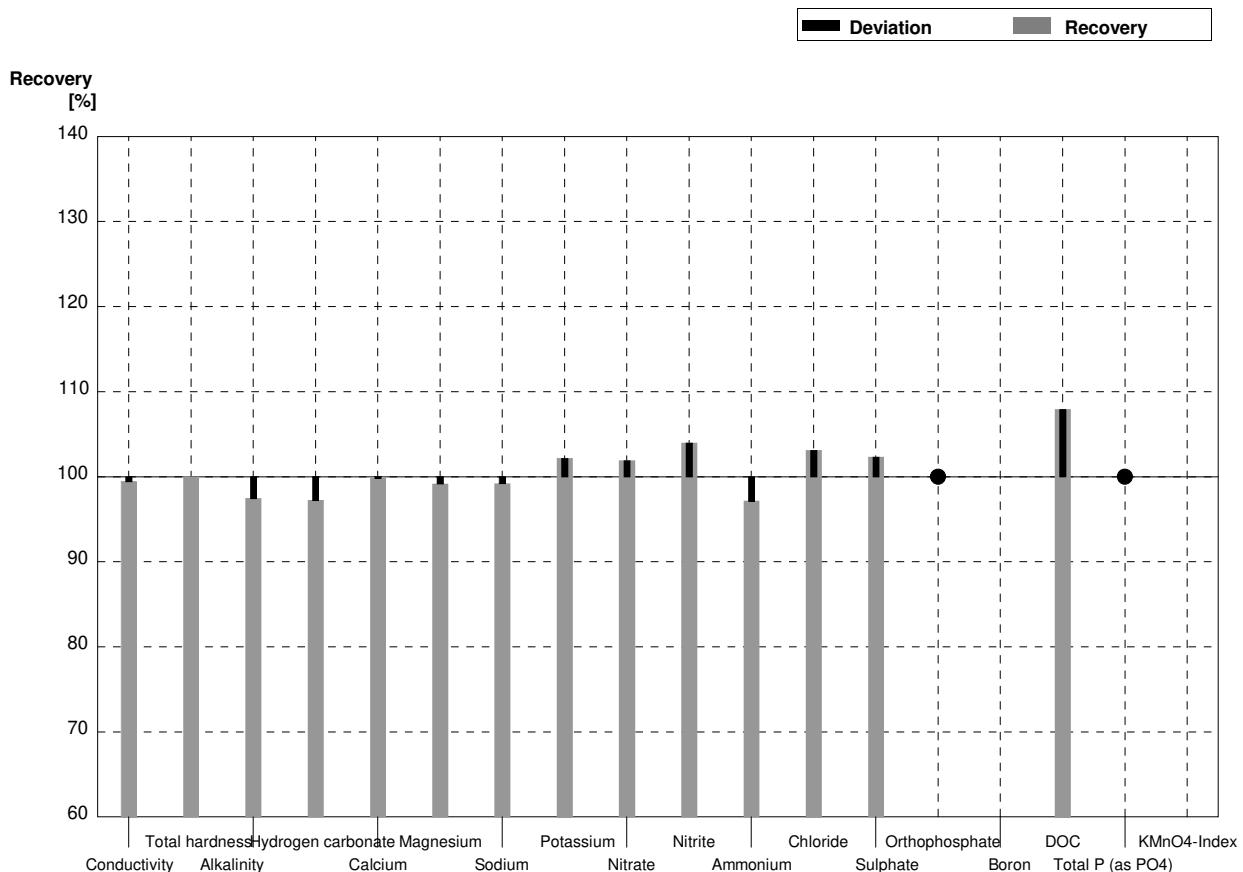
| Parameter          | Target value | ± U (k=2) | Result | ±     | Unit   | Recovery |
|--------------------|--------------|-----------|--------|-------|--------|----------|
| Conductivity       | 444          | 1         | 427,6  | 0,275 | µS/cm  | 96%      |
| Total hardness     | 1,321        | 0,015     | 1,32   | 0,06  | mmol/l | 100%     |
| Alkalinity         | 1,294        | 0,018     | 1,286  | 0,06  | mmol/l | 99%      |
| Hydrogen carbonate | 75,9         | 1,1       |        |       | mg/l   |          |
| Calcium            | 39,6         | 0,6       | 40,03  | 0,06  | mg/l   | 101%     |
| Magnesium          | 8,07         | 0,10      | 7,65   | 0,06  | mg/l   | 95%      |
| Sodium             | 30,8         | 0,2       |        |       | mg/l   |          |
| Potassium          | 6,98         | 0,04      |        |       | mg/l   |          |
| Nitrate            | 51,3         | 1,2       | 50,5   | 0,06  | mg/l   | 98%      |
| Nitrite            | 0,0203       | 0,0018    |        |       | mg/l   |          |
| Ammonium           | <0,01        |           |        |       | mg/l   |          |
| Chloride           | 28,6         | 0,4       | 30,3   | 1,074 | mg/l   | 106%     |
| Sulphate           | 58,9         | 0,4       | 63     | 7,4   | mg/l   | 107%     |
| Orthophosphate     | 0,061        | 0,001     |        |       | mg/l   |          |
| Boron              | 0,0544       | 0,0004    |        |       | mg/l   |          |
| DOC                | 4,88         | 0,05      |        |       | mg/l   |          |
| Total P (as PO4)   | 0,187        | 0,003     |        |       | mg/l   |          |
| KMnO4-Index        | 5,64         | 0,15      | 5,814  | 0,588 | mg/l   | 103%     |



**Sample N167A**

**Laboratory C**

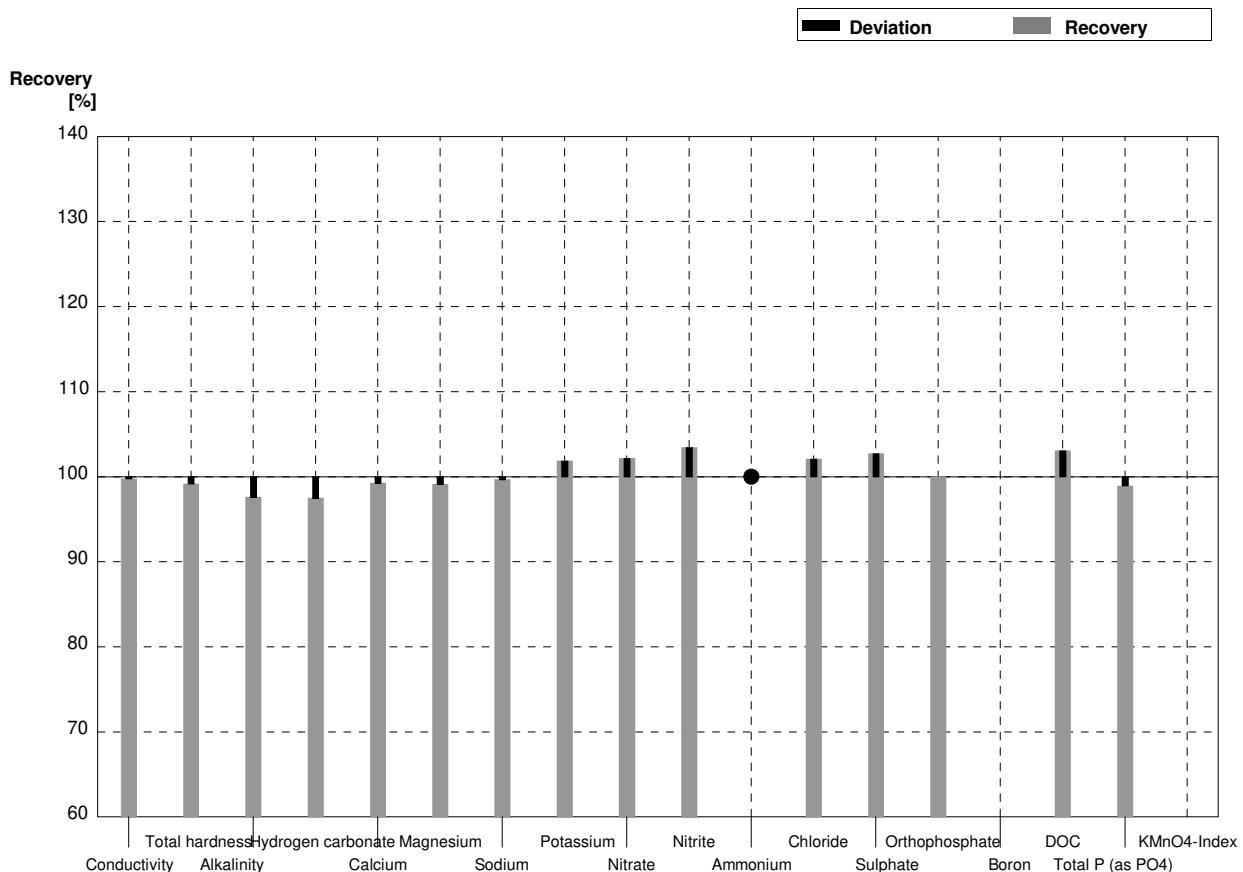
| Parameter                     | Target value | $\pm U$ (k=2) | Result | $\pm$ | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|-------|-------------------------|----------|
| Conductivity                  | 544          | 2             | 541    | 22    | $\mu\text{S}/\text{cm}$ | 99%      |
| Total hardness                | 1,94         | 0,02          | 1,94   | 0,1   | $\text{mmol/l}$         | 100%     |
| Alkalinity                    | 2,36         | 0,03          | 2,30   | 0,1   | $\text{mmol/l}$         | 97%      |
| Hydrogen carbonate            | 140,9        | 1,7           | 137    | 6     | $\text{mg/l}$           | 97%      |
| Calcium                       | 60,1         | 0,9           | 60,0   | 5     | $\text{mg/l}$           | 100%     |
| Magnesium                     | 10,79        | 0,14          | 10,7   | 1,3   | $\text{mg/l}$           | 99%      |
| Sodium                        | 24,9         | 0,3           | 24,7   | 4     | $\text{mg/l}$           | 99%      |
| Potassium                     | 8,81         | 0,06          | 9,00   | 1,2   | $\text{mg/l}$           | 102%     |
| Nitrate                       | 37,2         | 0,7           | 37,9   | 3     | $\text{mg/l}$           | 102%     |
| Nitrite                       | 0,0404       | 0,0009        | 0,0420 | 0,003 | $\text{mg/l}$           | 104%     |
| Ammonium                      | 0,070        | 0,004         | 0,068  | 0,007 | $\text{mg/l}$           | 97%      |
| Chloride                      | 54,8         | 1,2           | 56,5   | 4     | $\text{mg/l}$           | 103%     |
| Sulphate                      | 34,7         | 0,4           | 35,5   | 3     | $\text{mg/l}$           | 102%     |
| Orthophosphate                | <0,009       |               | <0,01  |       | $\text{mg/l}$           | •        |
| Boron                         | 0,1265       | 0,0012        |        |       | $\text{mg/l}$           |          |
| DOC                           | 1,89         | 0,04          | 2,04   | 0,3   | $\text{mg/l}$           | 108%     |
| Total P (as PO <sub>4</sub> ) | <0,009       |               | <0,013 |       | $\text{mg/l}$           | •        |
| KMnO <sub>4</sub> -Index      | 3,51         | 0,12          |        |       | $\text{mg/l}$           |          |



Sample N167B

Laboratory C

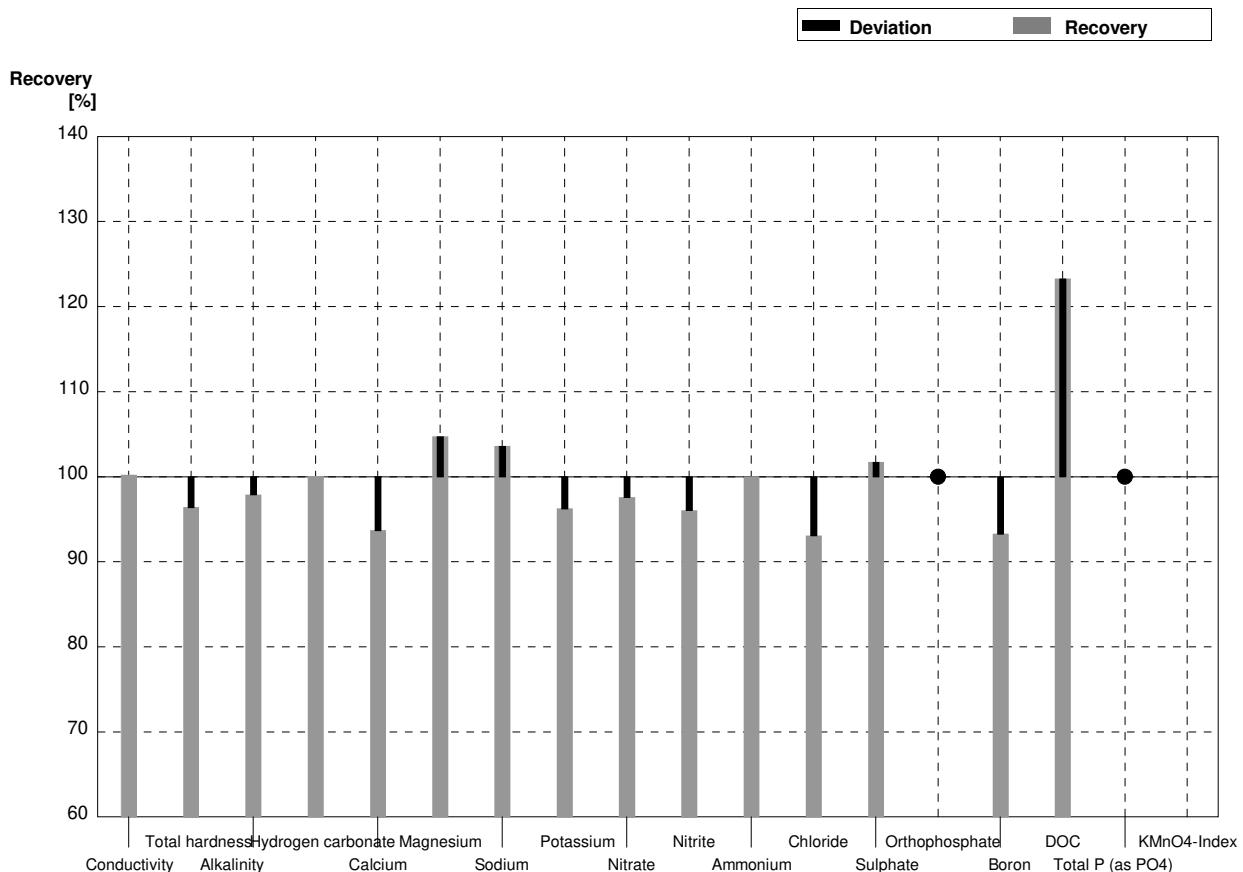
| Parameter          | Target value | ± U (k=2) | Result | ±     | Unit   | Recovery |
|--------------------|--------------|-----------|--------|-------|--------|----------|
| Conductivity       | 444          | 1         | 443    | 18    | µS/cm  | 100%     |
| Total hardness     | 1,321        | 0,015     | 1,31   | 0,1   | mmol/l | 99%      |
| Alkalinity         | 1,294        | 0,018     | 1,263  | 0,1   | mmol/l | 98%      |
| Hydrogen carbonate | 75,9         | 1,1       | 74,0   | 3     | mg/l   | 97%      |
| Calcium            | 39,6         | 0,6       | 39,3   | 4     | mg/l   | 99%      |
| Magnesium          | 8,07         | 0,10      | 8,0    | 1     | mg/l   | 99%      |
| Sodium             | 30,8         | 0,2       | 30,7   | 5     | mg/l   | 100%     |
| Potassium          | 6,98         | 0,04      | 7,11   | 1     | mg/l   | 102%     |
| Nitrate            | 51,3         | 1,2       | 52,4   | 4     | mg/l   | 102%     |
| Nitrite            | 0,0203       | 0,0018    | 0,0210 | 0,002 | mg/l   | 103%     |
| Ammonium           | <0,01        |           | <0,013 |       | mg/l   | •        |
| Chloride           | 28,6         | 0,4       | 29,2   | 2     | mg/l   | 102%     |
| Sulphate           | 58,9         | 0,4       | 60,5   | 4     | mg/l   | 103%     |
| Orthophosphate     | 0,061        | 0,001     | 0,061  | 0,008 | mg/l   | 100%     |
| Boron              | 0,0544       | 0,0004    |        |       | mg/l   |          |
| DOC                | 4,88         | 0,05      | 5,03   | 0,8   | mg/l   | 103%     |
| Total P (as PO4)   | 0,187        | 0,003     | 0,185  | 0,02  | mg/l   | 99%      |
| KMnO4-Index        | 5,64         | 0,15      |        |       | mg/l   |          |



Sample N167A

Laboratory D

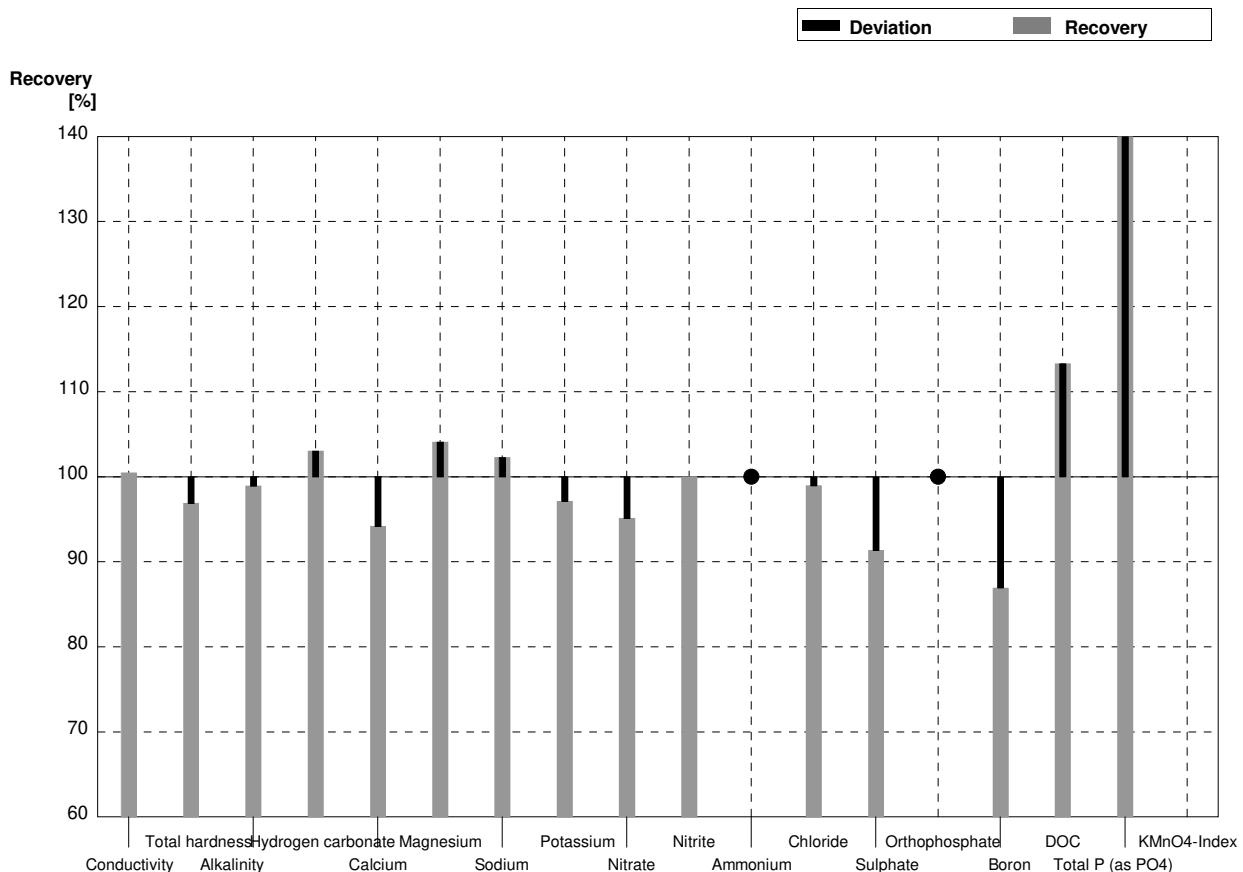
| Parameter                     | Target value | $\pm$ U (k=2) | Result | $\pm$  | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|--------|-------------------------|----------|
| Conductivity                  | 544          | 2             | 545    | 55     | $\mu\text{S}/\text{cm}$ | 100%     |
| Total hardness                | 1,94         | 0,02          | 1,87   | 0,37   | $\text{mmol/l}$         | 96%      |
| Alkalinity                    | 2,36         | 0,03          | 2,31   | 0,23   | $\text{mmol/l}$         | 98%      |
| Hydrogen carbonate            | 140,9        | 1,7           | 141    | 14     | $\text{mg/l}$           | 100%     |
| Calcium                       | 60,1         | 0,9           | 56,3   | 11     | $\text{mg/l}$           | 94%      |
| Magnesium                     | 10,79        | 0,14          | 11,3   | 2,25   | $\text{mg/l}$           | 105%     |
| Sodium                        | 24,9         | 0,3           | 25,8   | 5,2    | $\text{mg/l}$           | 104%     |
| Potassium                     | 8,81         | 0,06          | 8,48   | 1,7    | $\text{mg/l}$           | 96%      |
| Nitrate                       | 37,2         | 0,7           | 36,3   | 5,4    | $\text{mg/l}$           | 98%      |
| Nitrite                       | 0,0404       | 0,0009        | 0,0388 | 0,0058 | $\text{mg/l}$           | 96%      |
| Ammonium                      | 0,070        | 0,004         | 0,070  | 0,02   | $\text{mg/l}$           | 100%     |
| Chloride                      | 54,8         | 1,2           | 51,0   | 7,7    | $\text{mg/l}$           | 93%      |
| Sulphate                      | 34,7         | 0,4           | 35,3   | 5,3    | $\text{mg/l}$           | 102%     |
| Orthophosphate                | <0,009       |               | <0,1   |        | $\text{mg/l}$           | •        |
| Boron                         | 0,1265       | 0,0012        | 0,118  | 0,024  | $\text{mg/l}$           | 93%      |
| DOC                           | 1,89         | 0,04          | 2,33   | 0,70   | $\text{mg/l}$           | 123%     |
| Total P (as PO <sub>4</sub> ) | <0,009       |               | <31    |        | $\text{mg/l}$           | •        |
| KMnO <sub>4</sub> -Index      | 3,51         | 0,12          |        |        | $\text{mg/l}$           |          |



Sample N167B

Laboratory D

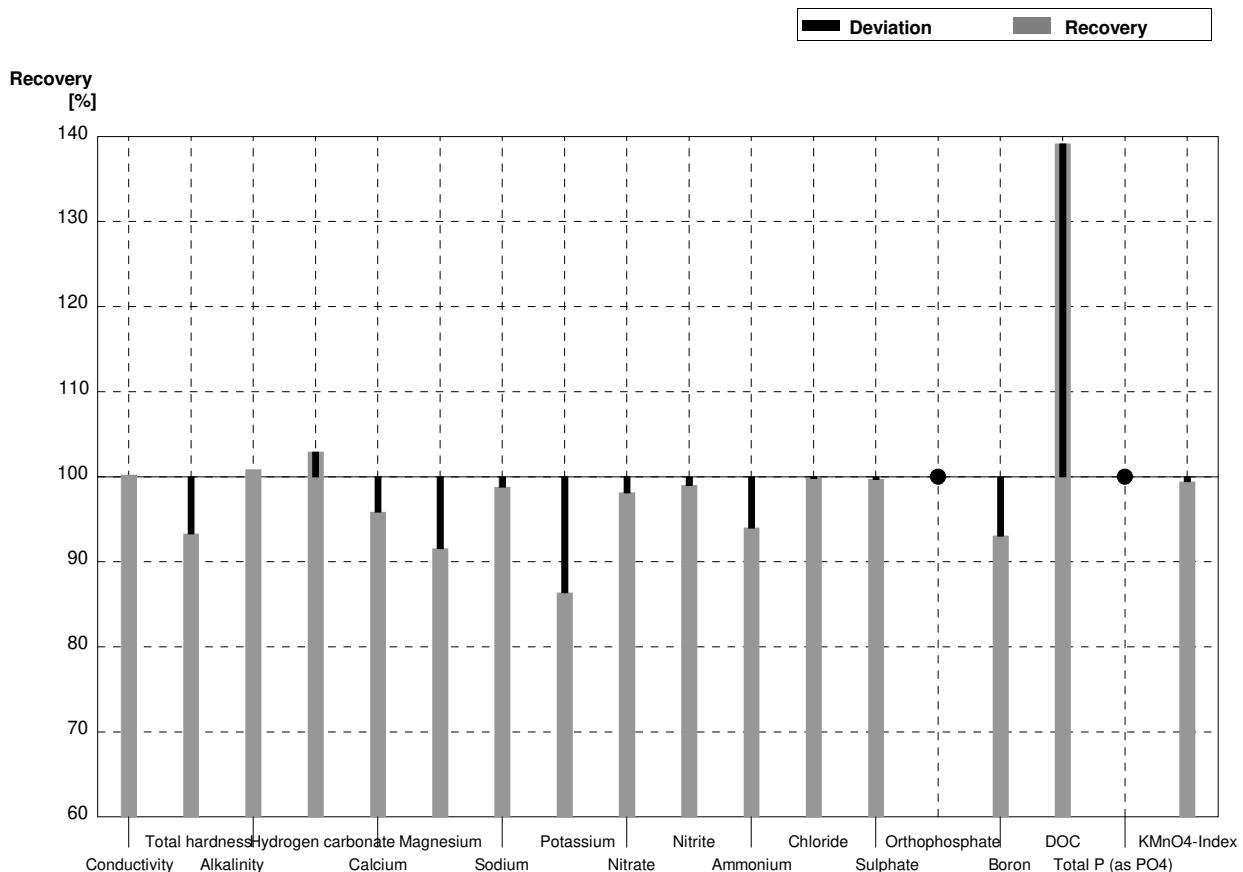
| Parameter                     | Target value | $\pm$ U (k=2) | Result | $\pm$  | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|--------|-------------------------|----------|
| Conductivity                  | 444          | 1             | 446    | 45     | $\mu\text{S}/\text{cm}$ | 100%     |
| Total hardness                | 1,321        | 0,015         | 1,28   | 0,26   | $\text{mmol/l}$         | 97%      |
| Alkalinity                    | 1,294        | 0,018         | 1,28   | 0,13   | $\text{mmol/l}$         | 99%      |
| Hydrogen carbonate            | 75,9         | 1,1           | 78,2   | 7,8    | $\text{mg/l}$           | 103%     |
| Calcium                       | 39,6         | 0,6           | 37,3   | 7,5    | $\text{mg/l}$           | 94%      |
| Magnesium                     | 8,07         | 0,10          | 8,40   | 1,7    | $\text{mg/l}$           | 104%     |
| Sodium                        | 30,8         | 0,2           | 31,5   | 6,3    | $\text{mg/l}$           | 102%     |
| Potassium                     | 6,98         | 0,04          | 6,78   | 1,4    | $\text{mg/l}$           | 97%      |
| Nitrate                       | 51,3         | 1,2           | 48,8   | 7,3    | $\text{mg/l}$           | 95%      |
| Nitrite                       | 0,0203       | 0,0018        | 0,0203 | 0,0031 | $\text{mg/l}$           | 100%     |
| Ammonium                      | <0,01        |               | <0,01  |        | $\text{mg/l}$           | •        |
| Chloride                      | 28,6         | 0,4           | 28,3   | 4,2    | $\text{mg/l}$           | 99%      |
| Sulphate                      | 58,9         | 0,4           | 53,8   | 8,1    | $\text{mg/l}$           | 91%      |
| Orthophosphate                | 0,061        | 0,001         | <0,1   |        | $\text{mg/l}$           | •        |
| Boron                         | 0,0544       | 0,0004        | 0,0473 | 0,0095 | $\text{mg/l}$           | 87%      |
| DOC                           | 4,88         | 0,05          | 5,53   | 1,66   | $\text{mg/l}$           | 113%     |
| Total P (as PO <sub>4</sub> ) | 0,187        | 0,003         | 179    | 36     | $\text{mg/l}$           | 95722%   |
| KMnO <sub>4</sub> -Index      | 5,64         | 0,15          |        |        | $\text{mg/l}$           |          |



Sample N167A

Laboratory E

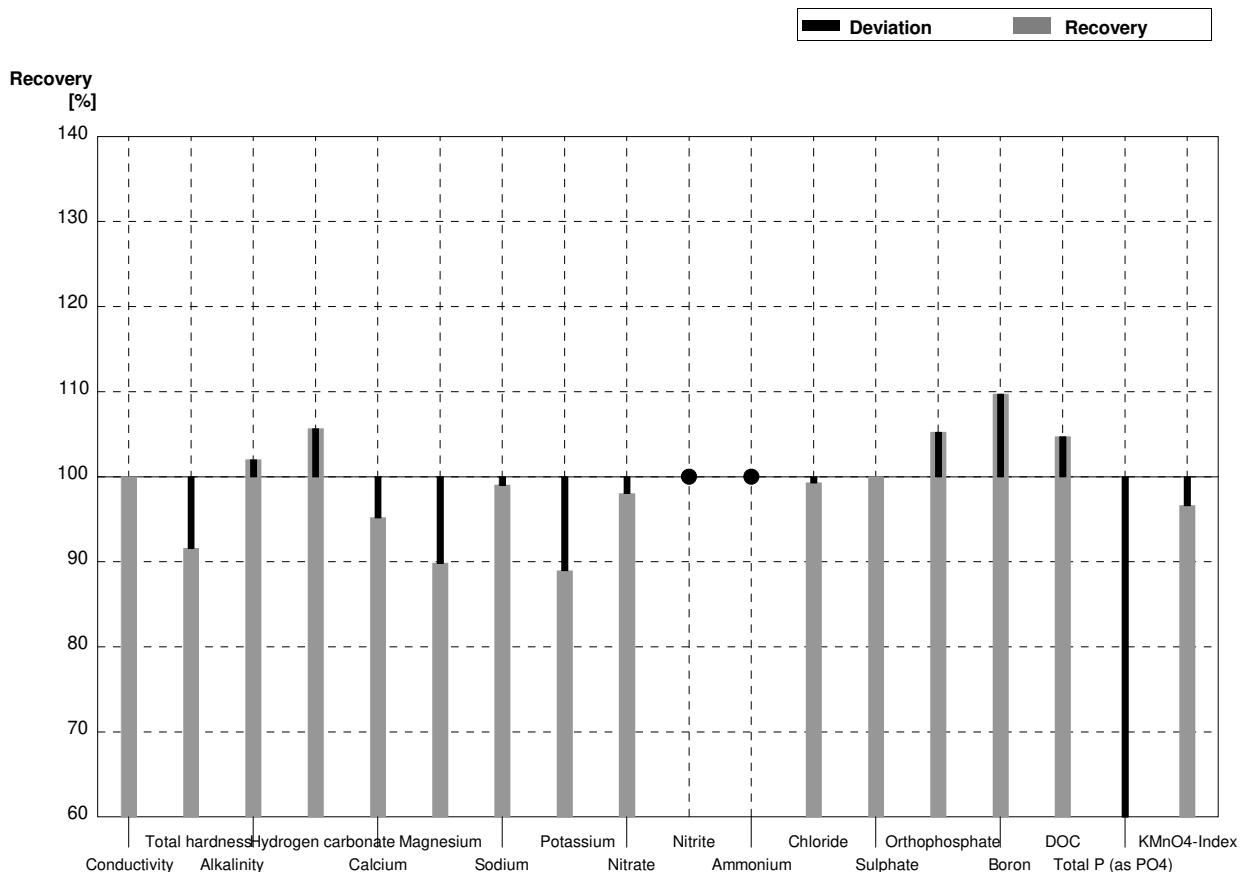
| Parameter                     | Target value | $\pm$ U (k=2) | Result | $\pm$  | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|--------|-------------------------|----------|
| Conductivity                  | 544          | 2             | 545    | 18,5   | $\mu\text{S}/\text{cm}$ | 100%     |
| Total hardness                | 1,94         | 0,02          | 1,81   | 0,14   | $\text{mmol/l}$         | 93%      |
| Alkalinity                    | 2,36         | 0,03          | 2,38   | 0,10   | $\text{mmol/l}$         | 101%     |
| Hydrogen carbonate            | 140,9        | 1,7           | 145    | 8,57   | $\text{mg/l}$           | 103%     |
| Calcium                       | 60,1         | 0,9           | 57,6   | 4,38   | $\text{mg/l}$           | 96%      |
| Magnesium                     | 10,79        | 0,14          | 9,88   | 0,67   | $\text{mg/l}$           | 92%      |
| Sodium                        | 24,9         | 0,3           | 24,6   | 2,21   | $\text{mg/l}$           | 99%      |
| Potassium                     | 8,81         | 0,06          | 7,61   | 0,56   | $\text{mg/l}$           | 86%      |
| Nitrate                       | 37,2         | 0,7           | 36,5   | 2,96   | $\text{mg/l}$           | 98%      |
| Nitrite                       | 0,0404       | 0,0009        | 0,0400 | 0,0019 | $\text{mg/l}$           | 99%      |
| Ammonium                      | 0,070        | 0,004         | 0,0658 | 0,0045 | $\text{mg/l}$           | 94%      |
| Chloride                      | 54,8         | 1,2           | 54,7   | 1,75   | $\text{mg/l}$           | 100%     |
| Sulphate                      | 34,7         | 0,4           | 34,6   | 1,56   | $\text{mg/l}$           | 100%     |
| Orthophosphate                | <0,009       |               | <0,02  |        | $\text{mg/l}$           | •        |
| Boron                         | 0,1265       | 0,0012        | 0,1177 | 0,0108 | $\text{mg/l}$           | 93%      |
| DOC                           | 1,89         | 0,04          | 2,63   | 0,40   | $\text{mg/l}$           | 139%     |
| Total P (as PO <sub>4</sub> ) | <0,009       |               | <0,02  |        | $\text{mg/l}$           | •        |
| KMnO <sub>4</sub> -Index      | 3,51         | 0,12          | 3,49   | 0,49   | $\text{mg/l}$           | 99%      |



Sample N167B

Laboratory E

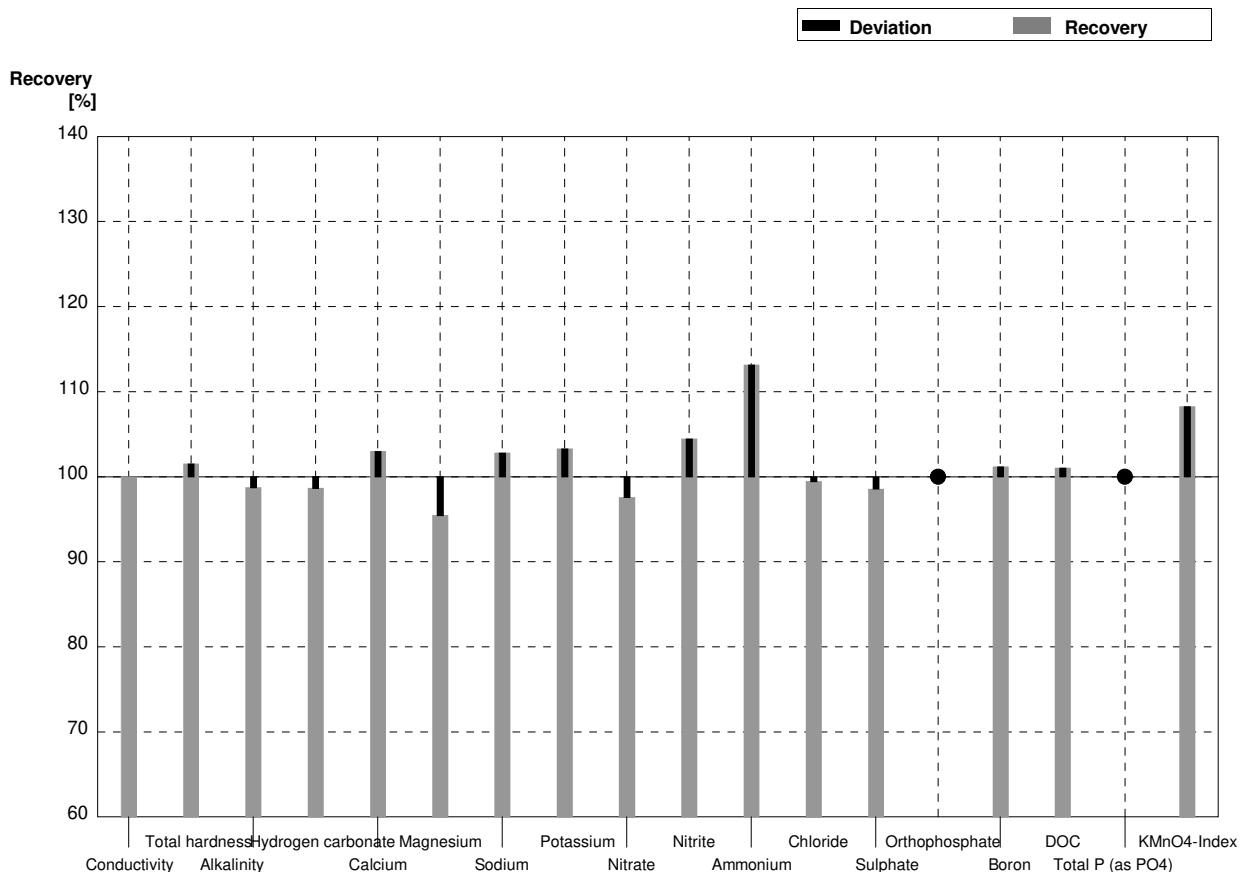
| Parameter          | Target value | ± U (k=2) | Result | ±      | Unit   | Recovery |
|--------------------|--------------|-----------|--------|--------|--------|----------|
| Conductivity       | 444          | 1         | 444    | 15,1   | µS/cm  | 100%     |
| Total hardness     | 1,321        | 0,015     | 1,21   | 0,096  | mmol/l | 92%      |
| Alkalinity         | 1,294        | 0,018     | 1,32   | 0,10   | mmol/l | 102%     |
| Hydrogen carbonate | 75,9         | 1,1       | 80,2   | 4,73   | mg/l   | 106%     |
| Calcium            | 39,6         | 0,6       | 37,7   | 2,86   | mg/l   | 95%      |
| Magnesium          | 8,07         | 0,10      | 7,25   | 0,49   | mg/l   | 90%      |
| Sodium             | 30,8         | 0,2       | 30,5   | 2,74   | mg/l   | 99%      |
| Potassium          | 6,98         | 0,04      | 6,21   | 0,46   | mg/l   | 89%      |
| Nitrate            | 51,3         | 1,2       | 50,3   | 4,07   | mg/l   | 98%      |
| Nitrite            | 0,0203       | 0,0018    | <0,03  |        | mg/l   | •        |
| Ammonium           | <0,01        |           | <0,04  |        | mg/l   | •        |
| Chloride           | 28,6         | 0,4       | 28,4   | 0,91   | mg/l   | 99%      |
| Sulphate           | 58,9         | 0,4       | 58,9   | 2,65   | mg/l   | 100%     |
| Orthophosphate     | 0,061        | 0,001     | 0,0642 | 0,0038 | mg/l   | 105%     |
| Boron              | 0,0544       | 0,0004    | 0,0597 | 0,0055 | mg/l   | 110%     |
| DOC                | 4,88         | 0,05      | 5,11   | 0,77   | mg/l   | 105%     |
| Total P (as PO4)   | 0,187        | 0,003     | 0,0632 | 0,0078 | mg/l   | 34%      |
| KMnO4-Index        | 5,64         | 0,15      | 5,45   | 0,764  | mg/l   | 97%      |



**Sample N167A**

**Laboratory F**

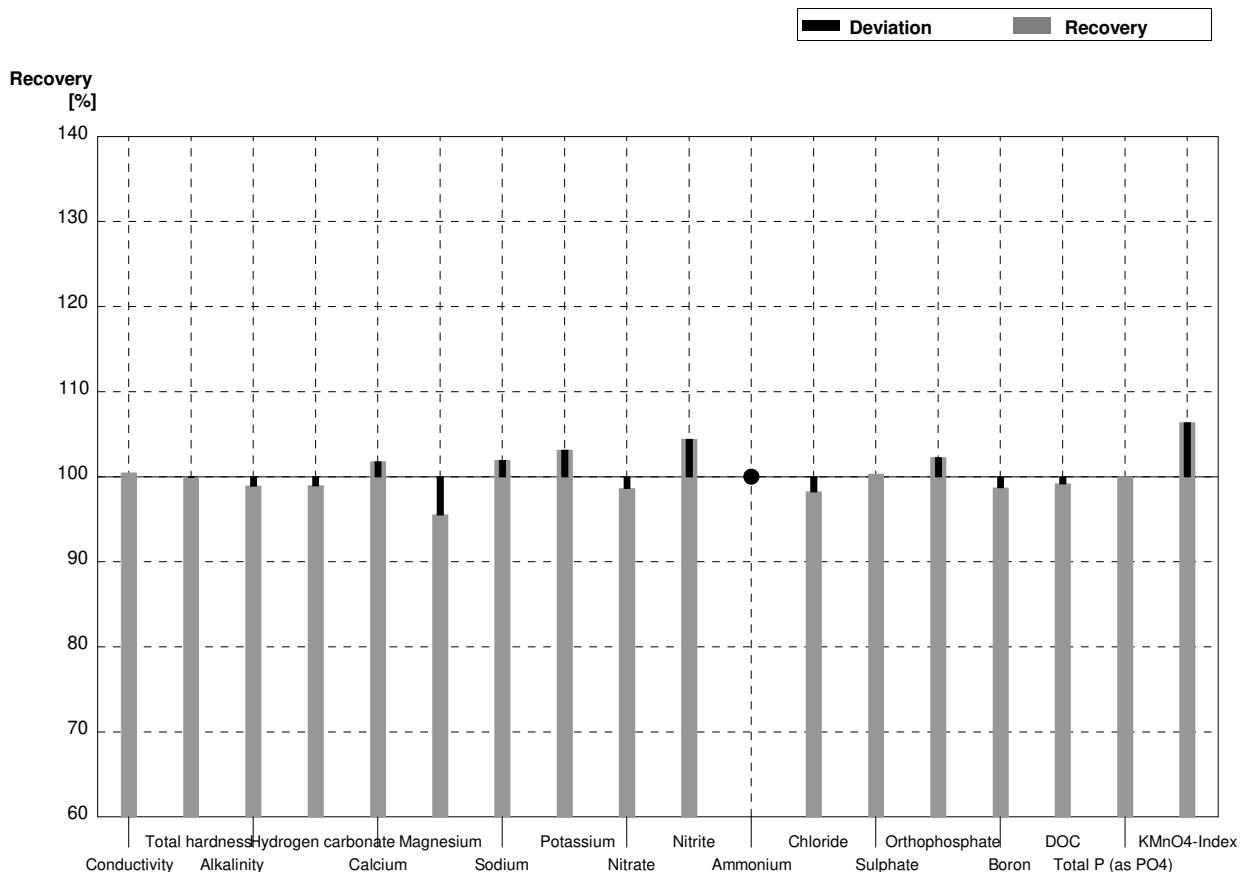
| Parameter          | Target value | $\pm U$ (k=2) | Result  | $\pm$   | Unit                    | Recovery |
|--------------------|--------------|---------------|---------|---------|-------------------------|----------|
| Conductivity       | 544          | 2             | 544     | 0,427   | $\mu\text{S}/\text{cm}$ | 100%     |
| Total hardness     | 1,94         | 0,02          | 1,97    | 0,0412  | $\text{mmol/l}$         | 102%     |
| Alkalinity         | 2,36         | 0,03          | 2,33    | 0,0957  | $\text{mmol/l}$         | 99%      |
| Hydrogen carbonate | 140,9        | 1,7           | 139     | 2,79    | $\text{mg/l}$           | 99%      |
| Calcium            | 60,1         | 0,9           | 61,9    | 0,745   | $\text{mg/l}$           | 103%     |
| Magnesium          | 10,79        | 0,14          | 10,3    | 0,896   | $\text{mg/l}$           | 95%      |
| Sodium             | 24,9         | 0,3           | 25,6    | 0,235   | $\text{mg/l}$           | 103%     |
| Potassium          | 8,81         | 0,06          | 9,10    | 0,346   | $\text{mg/l}$           | 103%     |
| Nitrate            | 37,2         | 0,7           | 36,3    | 0,455   | $\text{mg/l}$           | 98%      |
| Nitrite            | 0,0404       | 0,0009        | 0,0422  | 0,00088 | $\text{mg/l}$           | 104%     |
| Ammonium           | 0,070        | 0,004         | 0,0792  | 0,00125 | $\text{mg/l}$           | 113%     |
| Chloride           | 54,8         | 1,2           | 54,5    | 1,29    | $\text{mg/l}$           | 99%      |
| Sulphate           | 34,7         | 0,4           | 34,2    | 0,534   | $\text{mg/l}$           | 99%      |
| Orthophosphate     | <0,009       |               | <0,0150 |         | $\text{mg/l}$           | •        |
| Boron              | 0,1265       | 0,0012        | 0,128   | 0,00183 | $\text{mg/l}$           | 101%     |
| DOC                | 1,89         | 0,04          | 1,91    | 0,0836  | $\text{mg/l}$           | 101%     |
| Total P (as PO4)   | <0,009       |               | <0,0150 |         | $\text{mg/l}$           | •        |
| KMnO4-Index        | 3,51         | 0,12          | 3,80    |         | $\text{mg/l}$           | 108%     |



**Sample N167B**

**Laboratory F**

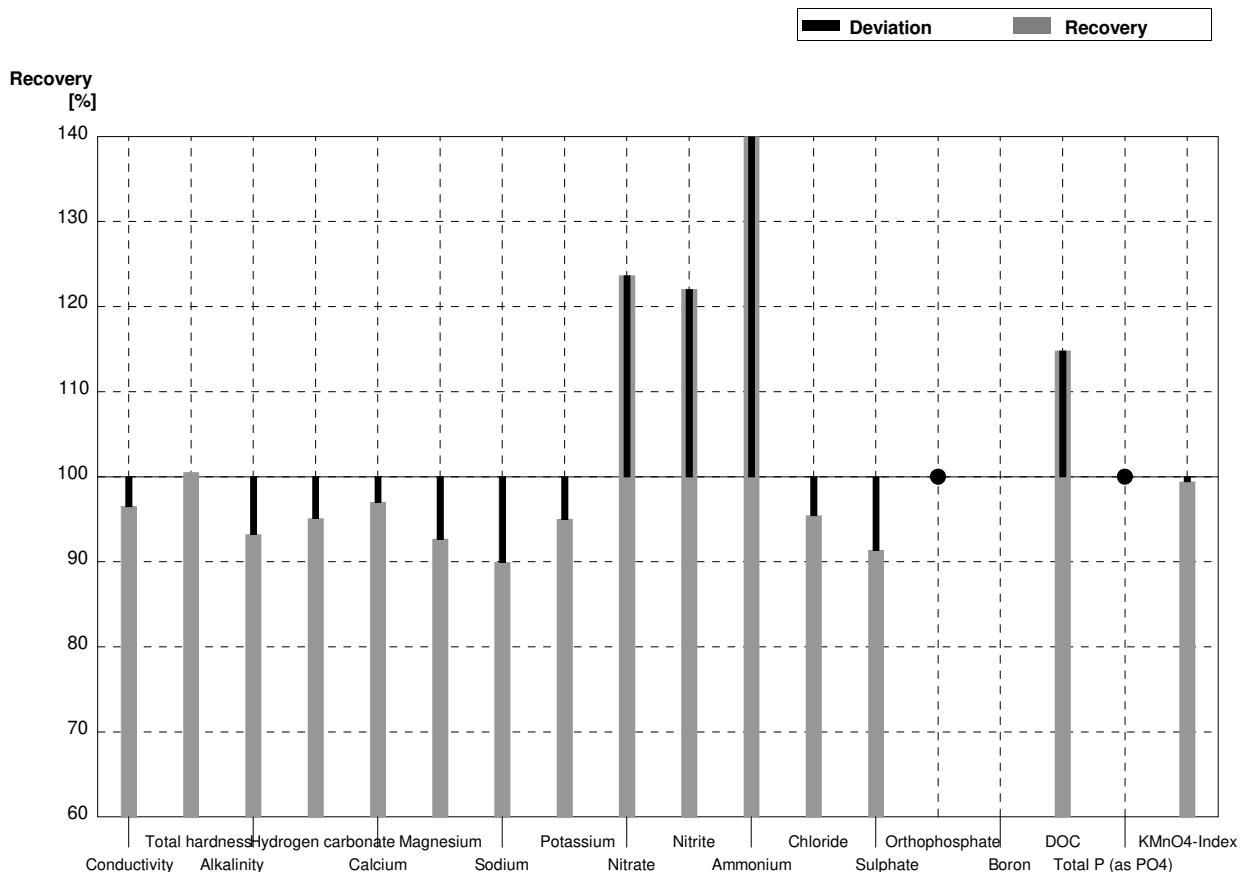
| Parameter          | Target value | $\pm U$ (k=2) | Result   | $\pm$   | Unit                    | Recovery |
|--------------------|--------------|---------------|----------|---------|-------------------------|----------|
| Conductivity       | 444          | 1             | 446      | 0,197   | $\mu\text{S}/\text{cm}$ | 100%     |
| Total hardness     | 1,321        | 0,015         | 1,32     | 0,0178  | $\text{mmol/l}$         | 100%     |
| Alkalinity         | 1,294        | 0,018         | 1,28     | 0,0746  | $\text{mmol/l}$         | 99%      |
| Hydrogen carbonate | 75,9         | 1,1           | 75,1     | 1,50    | $\text{mg/l}$           | 99%      |
| Calcium            | 39,6         | 0,6           | 40,3     | 0,704   | $\text{mg/l}$           | 102%     |
| Magnesium          | 8,07         | 0,10          | 7,71     | 0,0672  | $\text{mg/l}$           | 96%      |
| Sodium             | 30,8         | 0,2           | 31,4     | 0,237   | $\text{mg/l}$           | 102%     |
| Potassium          | 6,98         | 0,04          | 7,20     | 0,351   | $\text{mg/l}$           | 103%     |
| Nitrate            | 51,3         | 1,2           | 50,6     | 0,894   | $\text{mg/l}$           | 99%      |
| Nitrite            | 0,0203       | 0,0018        | 0,0212   | 0,00090 | $\text{mg/l}$           | 104%     |
| Ammonium           | <0,01        |               | [0,0015] |         | $\text{mg/l}$           | •        |
| Chloride           | 28,6         | 0,4           | 28,1     | 0,651   | $\text{mg/l}$           | 98%      |
| Sulphate           | 58,9         | 0,4           | 59,1     | 1,05    | $\text{mg/l}$           | 100%     |
| Orthophosphate     | 0,061        | 0,001         | 0,0624   | 0,00150 | $\text{mg/l}$           | 102%     |
| Boron              | 0,0544       | 0,0004        | 0,0537   | 0,00172 | $\text{mg/l}$           | 99%      |
| DOC                | 4,88         | 0,05          | 4,84     | 0,0844  | $\text{mg/l}$           | 99%      |
| Total P (as PO4)   | 0,187        | 0,003         | 0,187    | 0,00140 | $\text{mg/l}$           | 100%     |
| KMnO4-Index        | 5,64         | 0,15          | 6,00     |         | $\text{mg/l}$           | 106%     |



**Sample N167A**

**Laboratory G**

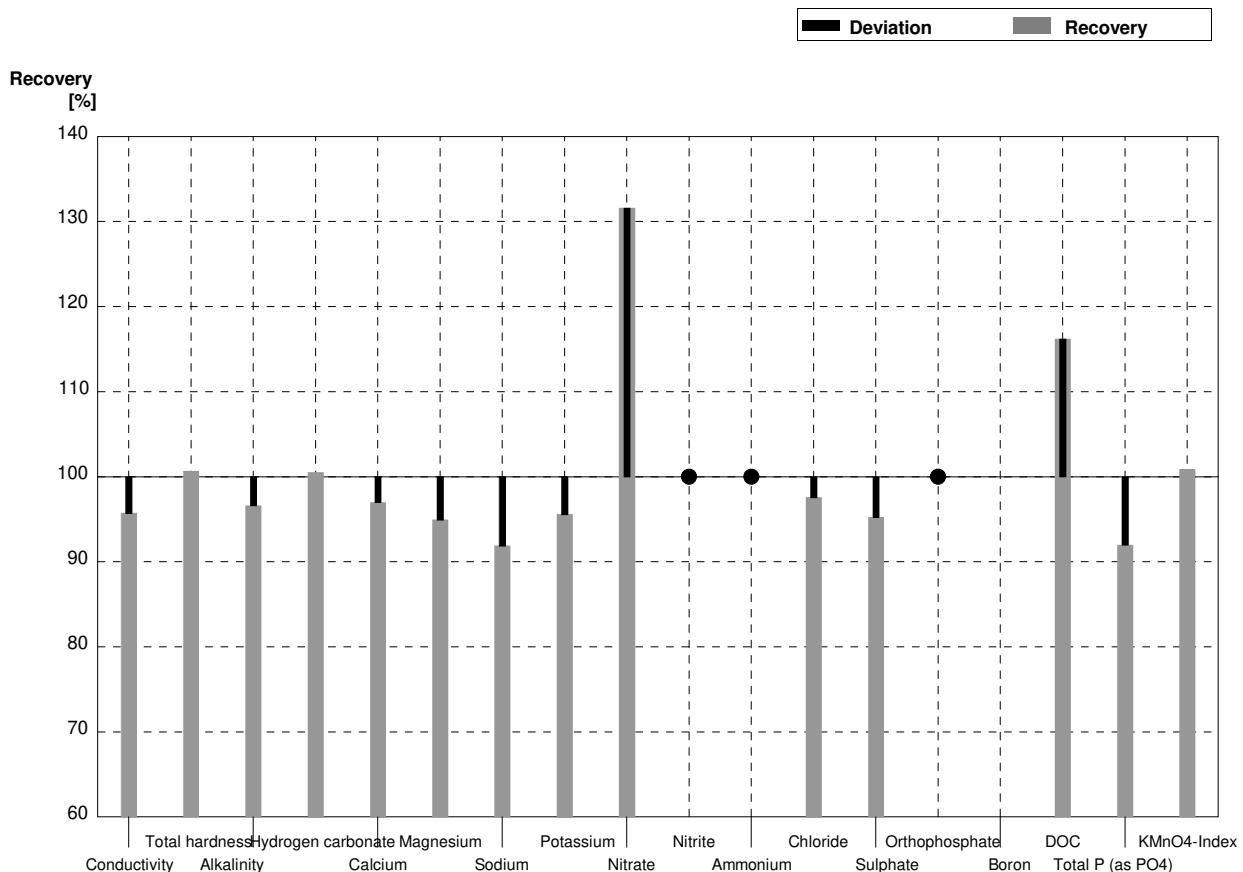
| Parameter                     | Target value | $\pm U$ (k=2) | Result | $\pm$  | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|--------|-------------------------|----------|
| Conductivity                  | 544          | 2             | 525    | 13     | $\mu\text{S}/\text{cm}$ | 97%      |
| Total hardness                | 1,94         | 0,02          | 1,95   | 0,25   | $\text{mmol/l}$         | 101%     |
| Alkalinity                    | 2,36         | 0,03          | 2,20   | 0,05   | $\text{mmol/l}$         | 93%      |
| Hydrogen carbonate            | 140,9        | 1,7           | 134    | 3      | $\text{mg/l}$           | 95%      |
| Calcium                       | 60,1         | 0,9           | 58,3   | 7,6    | $\text{mg/l}$           | 97%      |
| Magnesium                     | 10,79        | 0,14          | 10,0   | 1,2    | $\text{mg/l}$           | 93%      |
| Sodium                        | 24,9         | 0,3           | 22,4   | 2,7    | $\text{mg/l}$           | 90%      |
| Potassium                     | 8,81         | 0,06          | 8,37   | 1,1    | $\text{mg/l}$           | 95%      |
| Nitrate                       | 37,2         | 0,7           | 46,0   | 1,7    | $\text{mg/l}$           | 124%     |
| Nitrite                       | 0,0404       | 0,0009        | 0,0493 | 0,0017 | $\text{mg/l}$           | 122%     |
| Ammonium                      | 0,070        | 0,004         | 0,734  | 0,039  | $\text{mg/l}$           | 1049%    |
| Chloride                      | 54,8         | 1,2           | 52,3   | 2,6    | $\text{mg/l}$           | 95%      |
| Sulphate                      | 34,7         | 0,4           | 31,7   | 1,5    | $\text{mg/l}$           | 91%      |
| Orthophosphate                | <0,009       |               | <0,061 | 0,005  | $\text{mg/l}$           | •        |
| Boron                         | 0,1265       | 0,0012        |        |        | $\text{mg/l}$           |          |
| DOC                           | 1,89         | 0,04          | 2,17   | 0,13   | $\text{mg/l}$           | 115%     |
| Total P (as PO <sub>4</sub> ) | <0,009       |               | <0,061 | 0,005  | $\text{mg/l}$           | •        |
| KMnO <sub>4</sub> -Index      | 3,51         | 0,12          | 3,49   | 0,35   | $\text{mg/l}$           | 99%      |



Sample N167B

Laboratory G

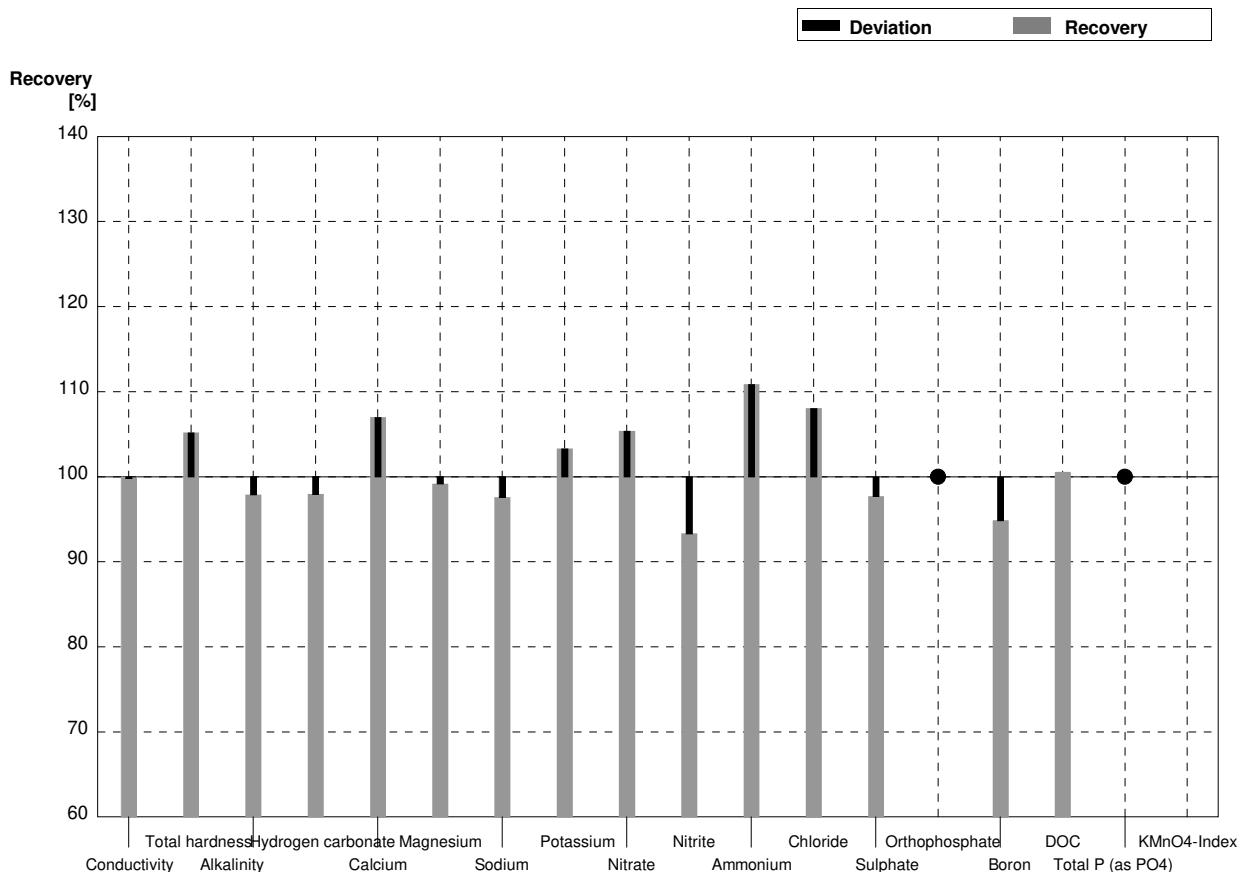
| Parameter                     | Target value | $\pm$ U (k=2) | Result  | $\pm$  | Unit                    | Recovery |
|-------------------------------|--------------|---------------|---------|--------|-------------------------|----------|
| Conductivity                  | 444          | 1             | 425     | 11     | $\mu\text{S}/\text{cm}$ | 96%      |
| Total hardness                | 1,321        | 0,015         | 1,33    | 0,17   | $\text{mmol/l}$         | 101%     |
| Alkalinity                    | 1,294        | 0,018         | 1,25    | 0,05   | $\text{mmol/l}$         | 97%      |
| Hydrogen carbonate            | 75,9         | 1,1           | 76,3    | 3      | $\text{mg/l}$           | 101%     |
| Calcium                       | 39,6         | 0,6           | 38,4    | 5,0    | $\text{mg/l}$           | 97%      |
| Magnesium                     | 8,07         | 0,10          | 7,66    | 0,92   | $\text{mg/l}$           | 95%      |
| Sodium                        | 30,8         | 0,2           | 28,3    | 3,4    | $\text{mg/l}$           | 92%      |
| Potassium                     | 6,98         | 0,04          | 6,67    | 0,87   | $\text{mg/l}$           | 96%      |
| Nitrate                       | 51,3         | 1,2           | 67,5    | 2,5    | $\text{mg/l}$           | 132%     |
| Nitrite                       | 0,0203       | 0,0018        | <0,0328 | 0,0011 | $\text{mg/l}$           | •        |
| Ammonium                      | <0,01        |               | <0,0515 | 0,003  | $\text{mg/l}$           | •        |
| Chloride                      | 28,6         | 0,4           | 27,9    | 1,3    | $\text{mg/l}$           | 98%      |
| Sulphate                      | 58,9         | 0,4           | 56,1    | 2,6    | $\text{mg/l}$           | 95%      |
| Orthophosphate                | 0,061        | 0,001         | <0,061  | 0,005  | $\text{mg/l}$           | •        |
| Boron                         | 0,0544       | 0,0004        |         |        | $\text{mg/l}$           |          |
| DOC                           | 4,88         | 0,05          | 5,67    | 0,34   | $\text{mg/l}$           | 116%     |
| Total P (as PO <sub>4</sub> ) | 0,187        | 0,003         | 0,172   | 0,014  | $\text{mg/l}$           | 92%      |
| KMnO <sub>4</sub> -Index      | 5,64         | 0,15          | 5,69    | 0,57   | $\text{mg/l}$           | 101%     |



Sample N167A

Laboratory H

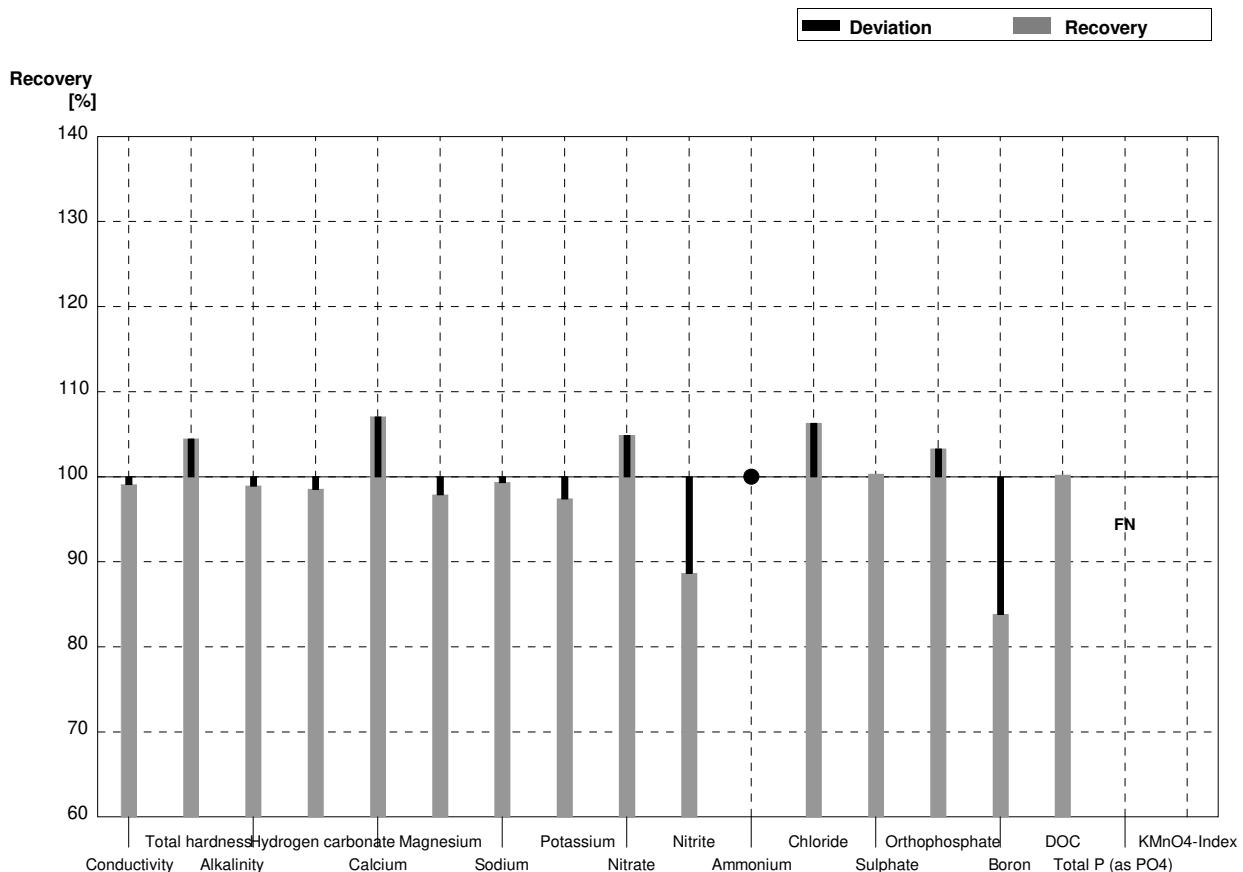
| Parameter          | Target value | $\pm$ U (k=2) | Result | $\pm$   | Unit                    | Recovery |
|--------------------|--------------|---------------|--------|---------|-------------------------|----------|
| Conductivity       | 544          | 2             | 543    | 32,58   | $\mu\text{S}/\text{cm}$ | 100%     |
| Total hardness     | 1,94         | 0,02          | 2,04   | 0,153   | $\text{mmol/l}$         | 105%     |
| Alkalinity         | 2,36         | 0,03          | 2,31   | 0,22    | $\text{mmol/l}$         | 98%      |
| Hydrogen carbonate | 140,9        | 1,7           | 138    | 13,1    | $\text{mg/l}$           | 98%      |
| Calcium            | 60,1         | 0,9           | 64,3   | 3,86    | $\text{mg/l}$           | 107%     |
| Magnesium          | 10,79        | 0,14          | 10,7   | 1,28    | $\text{mg/l}$           | 99%      |
| Sodium             | 24,9         | 0,3           | 24,3   | 1,58    | $\text{mg/l}$           | 98%      |
| Potassium          | 8,81         | 0,06          | 9,1    | 0,91    | $\text{mg/l}$           | 103%     |
| Nitrate            | 37,2         | 0,7           | 39,2   | 4,12    | $\text{mg/l}$           | 105%     |
| Nitrite            | 0,0404       | 0,0009        | 0,0377 | 0,00377 | $\text{mg/l}$           | 93%      |
| Ammonium           | 0,070        | 0,004         | 0,0776 | 0,00776 | $\text{mg/l}$           | 111%     |
| Chloride           | 54,8         | 1,2           | 59,2   | 5,33    | $\text{mg/l}$           | 108%     |
| Sulphate           | 34,7         | 0,4           | 33,9   | 3,05    | $\text{mg/l}$           | 98%      |
| Orthophosphate     | <0,009       |               | <0,060 |         | $\text{mg/l}$           | •        |
| Boron              | 0,1265       | 0,0012        | 0,120  | 0,0168  | $\text{mg/l}$           | 95%      |
| DOC                | 1,89         | 0,04          | 1,90   | 0,114   | $\text{mg/l}$           | 101%     |
| Total P (as PO4)   | <0,009       |               | <0,060 |         | $\text{mg/l}$           | •        |
| KMnO4-Index        | 3,51         | 0,12          |        |         | $\text{mg/l}$           |          |



Sample N167B

Laboratory H

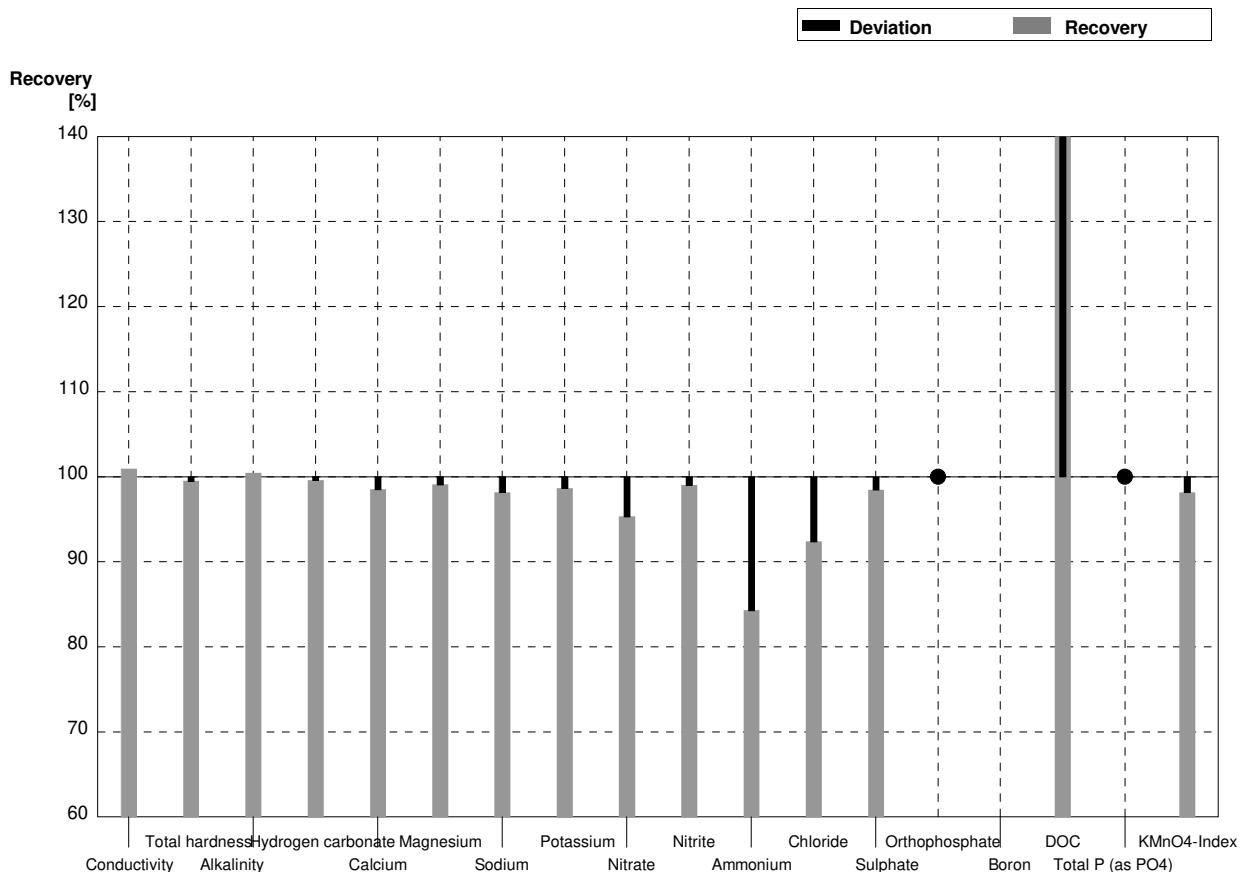
| Parameter          | Target value | ± U (k=2) | Result | ±       | Unit   | Recovery |
|--------------------|--------------|-----------|--------|---------|--------|----------|
| Conductivity       | 444          | 1         | 440    | 26,40   | µS/cm  | 99%      |
| Total hardness     | 1,321        | 0,015     | 1,38   | 0,104   | mmol/l | 104%     |
| Alkalinity         | 1,294        | 0,018     | 1,28   | 0,12    | mmol/l | 99%      |
| Hydrogen carbonate | 75,9         | 1,1       | 74,8   | 7,102   | mg/l   | 99%      |
| Calcium            | 39,6         | 0,6       | 42,4   | 2,54    | mg/l   | 107%     |
| Magnesium          | 8,07         | 0,10      | 7,9    | 0,95    | mg/l   | 98%      |
| Sodium             | 30,8         | 0,2       | 30,6   | 1,99    | mg/l   | 99%      |
| Potassium          | 6,98         | 0,04      | 6,8    | 0,68    | mg/l   | 97%      |
| Nitrate            | 51,3         | 1,2       | 53,8   | 5,65    | mg/l   | 105%     |
| Nitrite            | 0,0203       | 0,0018    | 0,0180 | 0,00180 | mg/l   | 89%      |
| Ammonium           | <0,01        |           | <0,04  |         | mg/l   | •        |
| Chloride           | 28,6         | 0,4       | 30,4   | 2,74    | mg/l   | 106%     |
| Sulphate           | 58,9         | 0,4       | 59,1   | 5,32    | mg/l   | 100%     |
| Orthophosphate     | 0,061        | 0,001     | 0,063  | 0,0063  | mg/l   | 103%     |
| Boron              | 0,0544       | 0,0004    | 0,0456 | 0,00639 | mg/l   | 84%      |
| DOC                | 4,88         | 0,05      | 4,89   | 0,29    | mg/l   | 100%     |
| Total P (as PO4)   | 0,187        | 0,003     | <0,060 |         | mg/l   | FN       |
| KMnO4-Index        | 5,64         | 0,15      |        |         | mg/l   |          |



**Sample N167A**

**Laboratory I**

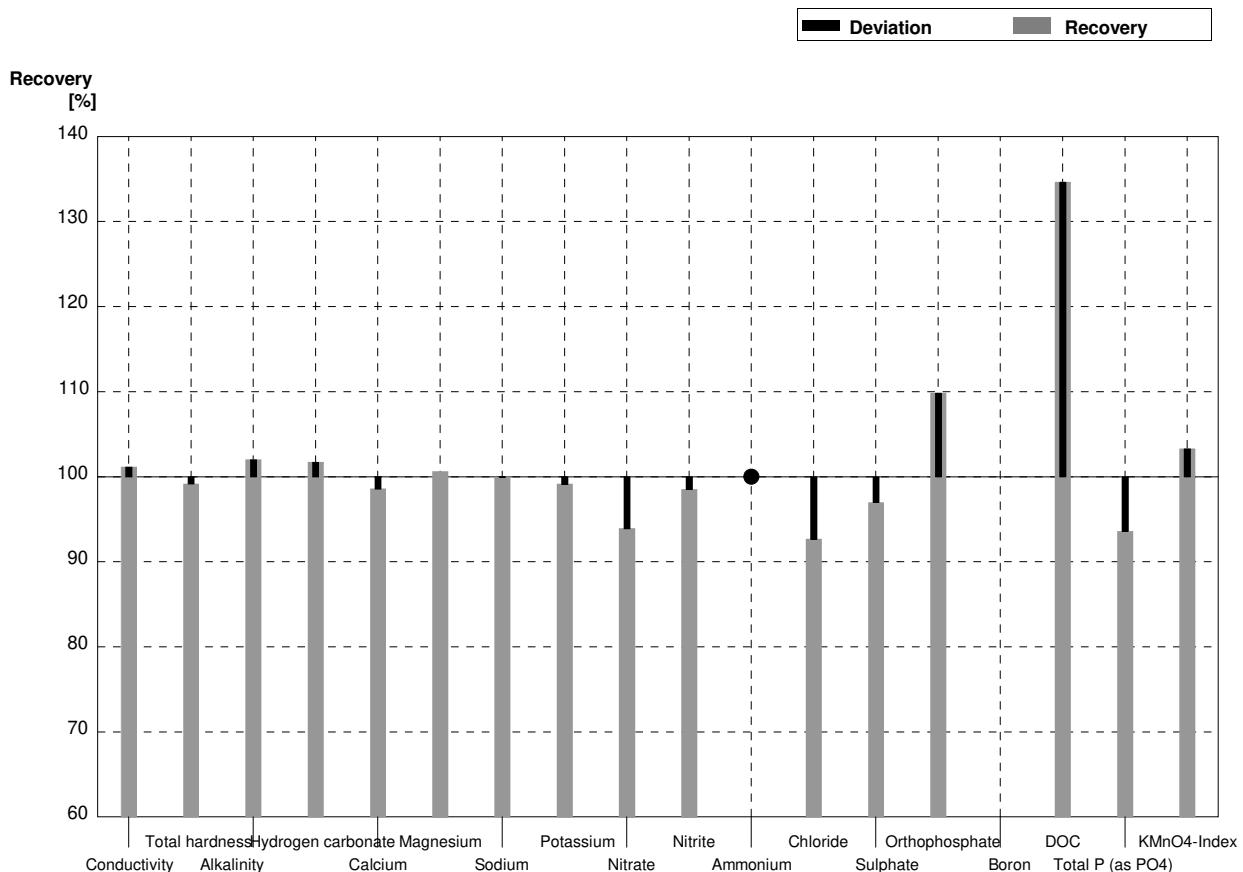
| Parameter                     | Target value | $\pm$ U (k=2) | Result | $\pm$  | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|--------|-------------------------|----------|
| Conductivity                  | 544          | 2             | 549    | 14     | $\mu\text{S}/\text{cm}$ | 101%     |
| Total hardness                | 1,94         | 0,02          | 1,93   | 0,02   | $\text{mmol/l}$         | 99%      |
| Alkalinity                    | 2,36         | 0,03          | 2,37   | 0,01   | $\text{mmol/l}$         | 100%     |
| Hydrogen carbonate            | 140,9        | 1,7           | 140,3  | 2,8    | $\text{mg/l}$           | 100%     |
| Calcium                       | 60,1         | 0,9           | 59,21  | 0,59   | $\text{mg/l}$           | 99%      |
| Magnesium                     | 10,79        | 0,14          | 10,69  | 0,11   | $\text{mg/l}$           | 99%      |
| Sodium                        | 24,9         | 0,3           | 24,44  | 0,49   | $\text{mg/l}$           | 98%      |
| Potassium                     | 8,81         | 0,06          | 8,69   | 0,51   | $\text{mg/l}$           | 99%      |
| Nitrate                       | 37,2         | 0,7           | 35,45  | 1,77   | $\text{mg/l}$           | 95%      |
| Nitrite                       | 0,0404       | 0,0009        | 0,0400 | 0,0040 | $\text{mg/l}$           | 99%      |
| Ammonium                      | 0,070        | 0,004         | 0,0590 | 0,0035 | $\text{mg/l}$           | 84%      |
| Chloride                      | 54,8         | 1,2           | 50,62  | 3,04   | $\text{mg/l}$           | 92%      |
| Sulphate                      | 34,7         | 0,4           | 34,16  | 1,02   | $\text{mg/l}$           | 98%      |
| Orthophosphate                | <0,009       |               | <0,009 |        | $\text{mg/l}$           | •        |
| Boron                         | 0,1265       | 0,0012        |        |        | $\text{mg/l}$           |          |
| DOC                           | 1,89         | 0,04          | 3,518  | 0,528  | $\text{mg/l}$           | 186%     |
| Total P (as PO <sub>4</sub> ) | <0,009       |               | <0,009 |        | $\text{mg/l}$           | •        |
| KMnO <sub>4</sub> -Index      | 3,51         | 0,12          | 3,445  | 0,413  | $\text{mg/l}$           | 98%      |



**Sample N167B**

**Laboratory I**

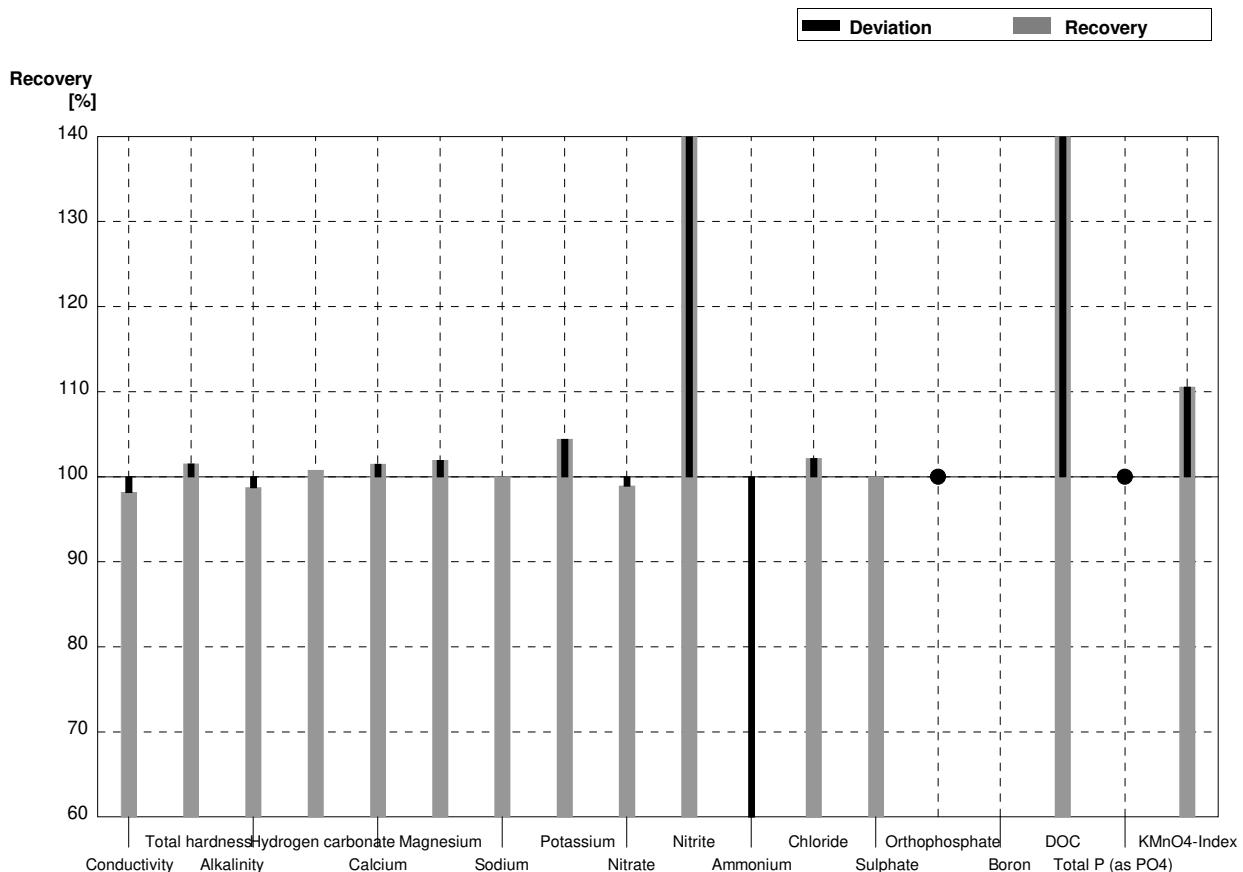
| Parameter                     | Target value | $\pm$ U (k=2) | Result | $\pm$  | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|--------|-------------------------|----------|
| Conductivity                  | 444          | 1             | 449    | 11     | $\mu\text{S}/\text{cm}$ | 101%     |
| Total hardness                | 1,321        | 0,015         | 1,31   | 0,01   | $\text{mmol/l}$         | 99%      |
| Alkalinity                    | 1,294        | 0,018         | 1,32   | 0,01   | $\text{mmol/l}$         | 102%     |
| Hydrogen carbonate            | 75,9         | 1,1           | 77,2   | 1,5    | $\text{mg/l}$           | 102%     |
| Calcium                       | 39,6         | 0,6           | 39,04  | 0,39   | $\text{mg/l}$           | 99%      |
| Magnesium                     | 8,07         | 0,10          | 8,12   | 0,08   | $\text{mg/l}$           | 101%     |
| Sodium                        | 30,8         | 0,2           | 30,79  | 0,62   | $\text{mg/l}$           | 100%     |
| Potassium                     | 6,98         | 0,04          | 6,92   | 0,41   | $\text{mg/l}$           | 99%      |
| Nitrate                       | 51,3         | 1,2           | 48,18  | 2,41   | $\text{mg/l}$           | 94%      |
| Nitrite                       | 0,0203       | 0,0018        | 0,0200 | 0,0020 | $\text{mg/l}$           | 99%      |
| Ammonium                      | <0,01        |               | <0,01  |        | $\text{mg/l}$           | •        |
| Chloride                      | 28,6         | 0,4           | 26,50  | 1,59   | $\text{mg/l}$           | 93%      |
| Sulphate                      | 58,9         | 0,4           | 57,12  | 1,71   | $\text{mg/l}$           | 97%      |
| Orthophosphate                | 0,061        | 0,001         | 0,067  | 0,008  | $\text{mg/l}$           | 110%     |
| Boron                         | 0,0544       | 0,0004        |        |        | $\text{mg/l}$           |          |
| DOC                           | 4,88         | 0,05          | 6,570  | 0,986  | $\text{mg/l}$           | 135%     |
| Total P (as PO <sub>4</sub> ) | 0,187        | 0,003         | 0,175  | 0,011  | $\text{mg/l}$           | 94%      |
| KMnO <sub>4</sub> -Index      | 5,64         | 0,15          | 5,827  | 0,699  | $\text{mg/l}$           | 103%     |



Sample N167A

Laboratory J

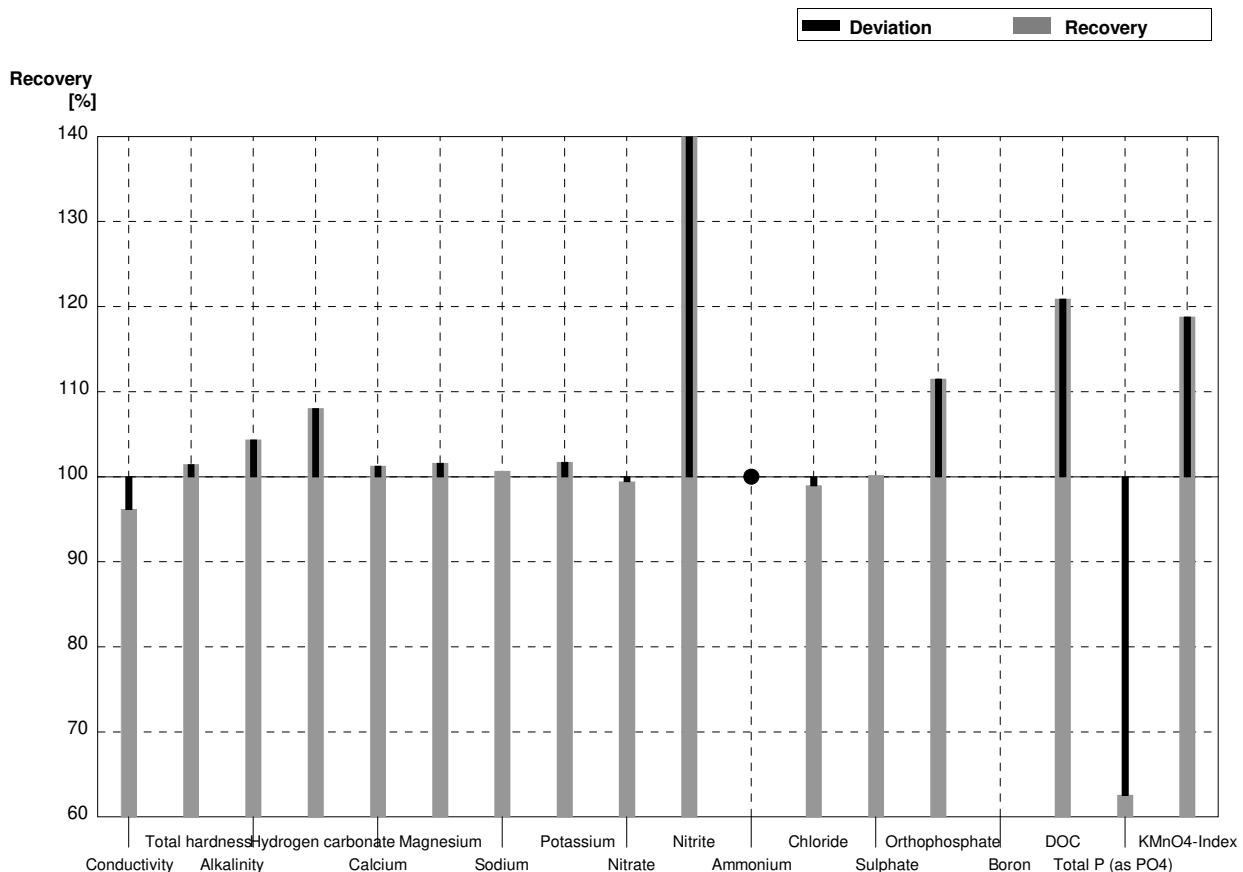
| Parameter          | Target value | $\pm$ U (k=2) | Result | $\pm$  | Unit                    | Recovery |
|--------------------|--------------|---------------|--------|--------|-------------------------|----------|
| Conductivity       | 544          | 2             | 534    | 12     | $\mu\text{S}/\text{cm}$ | 98%      |
| Total hardness     | 1,94         | 0,02          | 1,97   | 0,16   | $\text{mmol/l}$         | 102%     |
| Alkalinity         | 2,36         | 0,03          | 2,33   | 0,10   | $\text{mmol/l}$         | 99%      |
| Hydrogen carbonate | 140,9        | 1,7           | 142    | 6,4    | $\text{mg/l}$           | 101%     |
| Calcium            | 60,1         | 0,9           | 61     | 3,1    | $\text{mg/l}$           | 101%     |
| Magnesium          | 10,79        | 0,14          | 11,0   | 0,69   | $\text{mg/l}$           | 102%     |
| Sodium             | 24,9         | 0,3           | 24,9   | 1,9    | $\text{mg/l}$           | 100%     |
| Potassium          | 8,81         | 0,06          | 9,2    | 0,32   | $\text{mg/l}$           | 104%     |
| Nitrate            | 37,2         | 0,7           | 36,8   | 1,8    | $\text{mg/l}$           | 99%      |
| Nitrite            | 0,0404       | 0,0009        | 0,057  | 0,0084 | $\text{mg/l}$           | 141%     |
| Ammonium           | 0,070        | 0,004         | 0,0380 | 0,0028 | $\text{mg/l}$           | 54%      |
| Chloride           | 54,8         | 1,2           | 56     | 4,4    | $\text{mg/l}$           | 102%     |
| Sulphate           | 34,7         | 0,4           | 34,7   | 2,1    | $\text{mg/l}$           | 100%     |
| Orthophosphate     | <0,009       |               | <0,01  |        | $\text{mg/l}$           | •        |
| Boron              | 0,1265       | 0,0012        |        |        | $\text{mg/l}$           |          |
| DOC                | 1,89         | 0,04          | 2,81   | 0,47   | $\text{mg/l}$           | 149%     |
| Total P (as PO4)   | <0,009       |               | <0,01  |        | $\text{mg/l}$           | •        |
| KMnO4-Index        | 3,51         | 0,12          | 3,88   | 0,24   | $\text{mg/l}$           | 111%     |



Sample N167B

Laboratory J

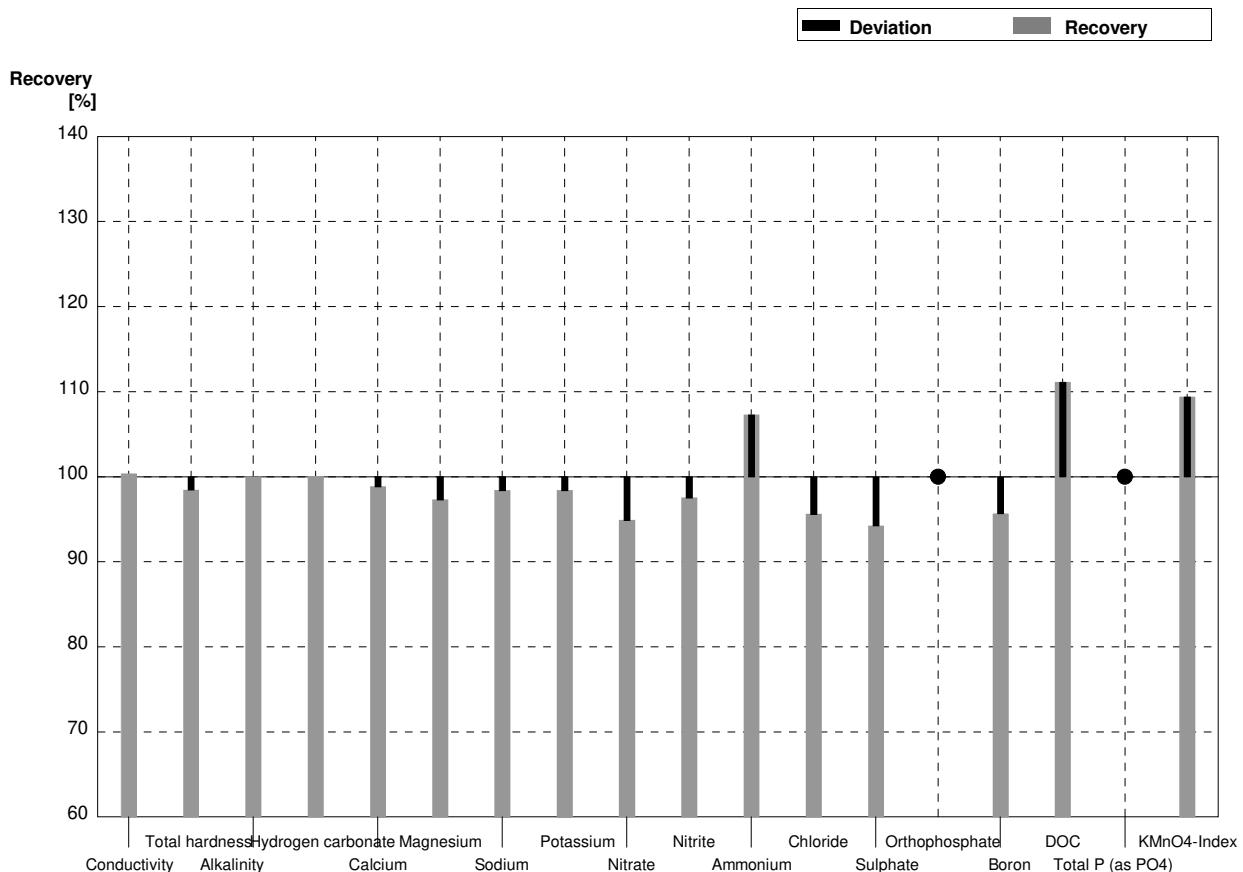
| Parameter                     | Target value | $\pm$ U (k=2) | Result | $\pm$  | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|--------|-------------------------|----------|
| Conductivity                  | 444          | 1             | 427    | 9,2    | $\mu\text{S}/\text{cm}$ | 96%      |
| Total hardness                | 1,321        | 0,015         | 1,34   | 0,11   | $\text{mmol/l}$         | 101%     |
| Alkalinity                    | 1,294        | 0,018         | 1,35   | 0,06   | $\text{mmol/l}$         | 104%     |
| Hydrogen carbonate            | 75,9         | 1,1           | 82     | 3,7    | $\text{mg/l}$           | 108%     |
| Calcium                       | 39,6         | 0,6           | 40,1   | 2,1    | $\text{mg/l}$           | 101%     |
| Magnesium                     | 8,07         | 0,10          | 8,2    | 0,52   | $\text{mg/l}$           | 102%     |
| Sodium                        | 30,8         | 0,2           | 31,0   | 2,4    | $\text{mg/l}$           | 101%     |
| Potassium                     | 6,98         | 0,04          | 7,1    | 0,25   | $\text{mg/l}$           | 102%     |
| Nitrate                       | 51,3         | 1,2           | 51     | 2,5    | $\text{mg/l}$           | 99%      |
| Nitrite                       | 0,0203       | 0,0018        | 0,0300 | 0,0044 | $\text{mg/l}$           | 148%     |
| Ammonium                      | <0,01        |               | <0,01  |        | $\text{mg/l}$           | •        |
| Chloride                      | 28,6         | 0,4           | 28,3   | 2,2    | $\text{mg/l}$           | 99%      |
| Sulphate                      | 58,9         | 0,4           | 59     | 3,6    | $\text{mg/l}$           | 100%     |
| Orthophosphate                | 0,061        | 0,001         | 0,068  | 0,0058 | $\text{mg/l}$           | 111%     |
| Boron                         | 0,0544       | 0,0004        |        |        | $\text{mg/l}$           |          |
| DOC                           | 4,88         | 0,05          | 5,9    | 0,99   | $\text{mg/l}$           | 121%     |
| Total P (as PO <sub>4</sub> ) | 0,187        | 0,003         | 0,117  | 0,015  | $\text{mg/l}$           | 63%      |
| KMnO <sub>4</sub> -Index      | 5,64         | 0,15          | 6,7    | 0,42   | $\text{mg/l}$           | 119%     |



Sample N167A

Laboratory K

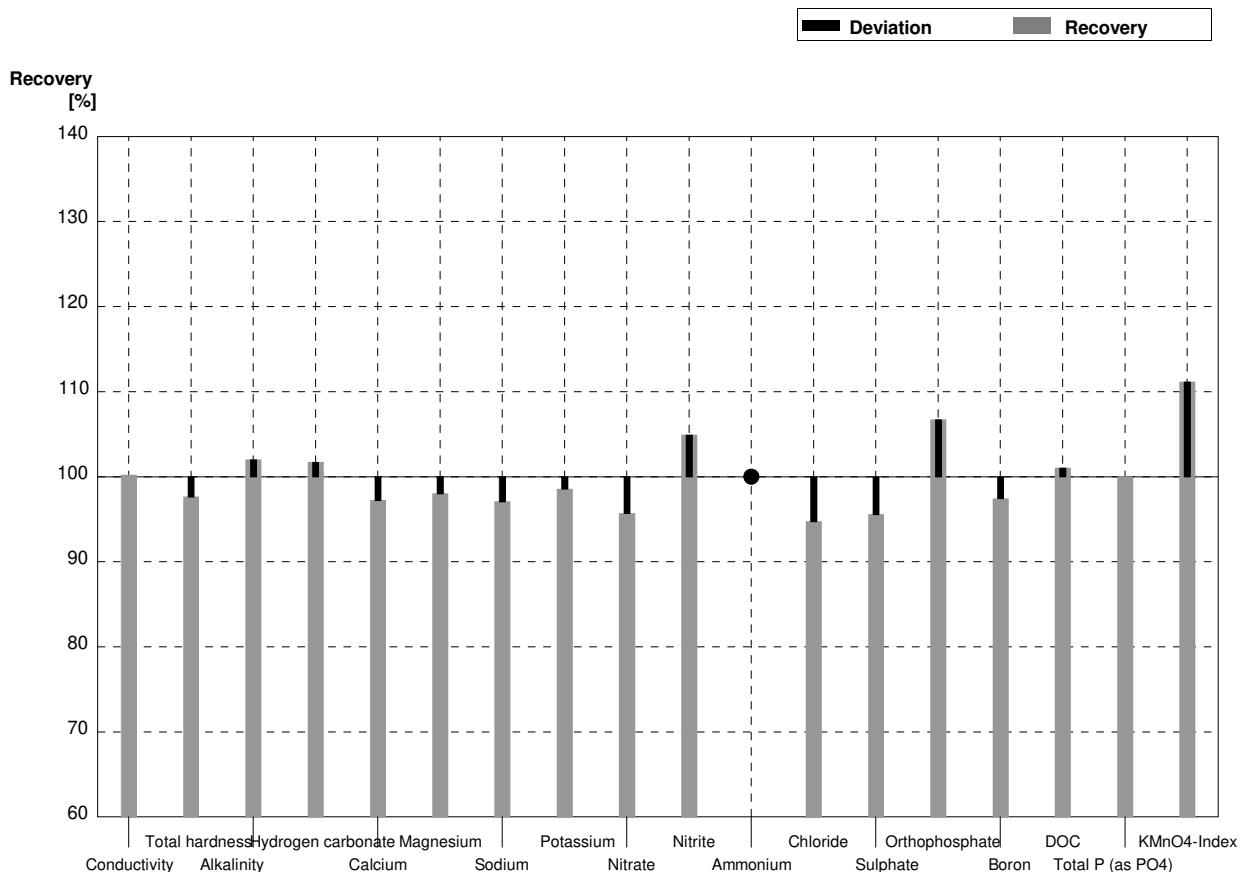
| Parameter                     | Target value | $\pm$ U (k=2) | Result | $\pm$ | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|-------|-------------------------|----------|
| Conductivity                  | 544          | 2             | 546    | 21,8  | $\mu\text{S}/\text{cm}$ | 100%     |
| Total hardness                | 1,94         | 0,02          | 1,91   | 0,344 | $\text{mmol/l}$         | 98%      |
| Alkalinity                    | 2,36         | 0,03          | 2,36   | 0,094 | $\text{mmol/l}$         | 100%     |
| Hydrogen carbonate            | 140,9        | 1,7           | 141    | 5,64  | $\text{mg/l}$           | 100%     |
| Calcium                       | 60,1         | 0,9           | 59,4   | 10,7  | $\text{mg/l}$           | 99%      |
| Magnesium                     | 10,79        | 0,14          | 10,5   | 1,89  | $\text{mg/l}$           | 97%      |
| Sodium                        | 24,9         | 0,3           | 24,5   | 4,41  | $\text{mg/l}$           | 98%      |
| Potassium                     | 8,81         | 0,06          | 8,67   | 1,56  | $\text{mg/l}$           | 98%      |
| Nitrate                       | 37,2         | 0,7           | 35,3   | 3,18  | $\text{mg/l}$           | 95%      |
| Nitrite                       | 0,0404       | 0,0009        | 0,0394 | 0,004 | $\text{mg/l}$           | 98%      |
| Ammonium                      | 0,070        | 0,004         | 0,0751 | 0,007 | $\text{mg/l}$           | 107%     |
| Chloride                      | 54,8         | 1,2           | 52,4   | 4,72  | $\text{mg/l}$           | 96%      |
| Sulphate                      | 34,7         | 0,4           | 32,7   | 2,94  | $\text{mg/l}$           | 94%      |
| Orthophosphate                | <0,009       |               | <0,01  |       | $\text{mg/l}$           | •        |
| Boron                         | 0,1265       | 0,0012        | 0,121  | 0,022 | $\text{mg/l}$           | 96%      |
| DOC                           | 1,89         | 0,04          | 2,10   | 0,189 | $\text{mg/l}$           | 111%     |
| Total P (as PO <sub>4</sub> ) | <0,009       |               | <0,05  |       | $\text{mg/l}$           | •        |
| KMnO <sub>4</sub> -Index      | 3,51         | 0,12          | 3,84   | 0,346 | $\text{mg/l}$           | 109%     |



Sample N167B

Laboratory K

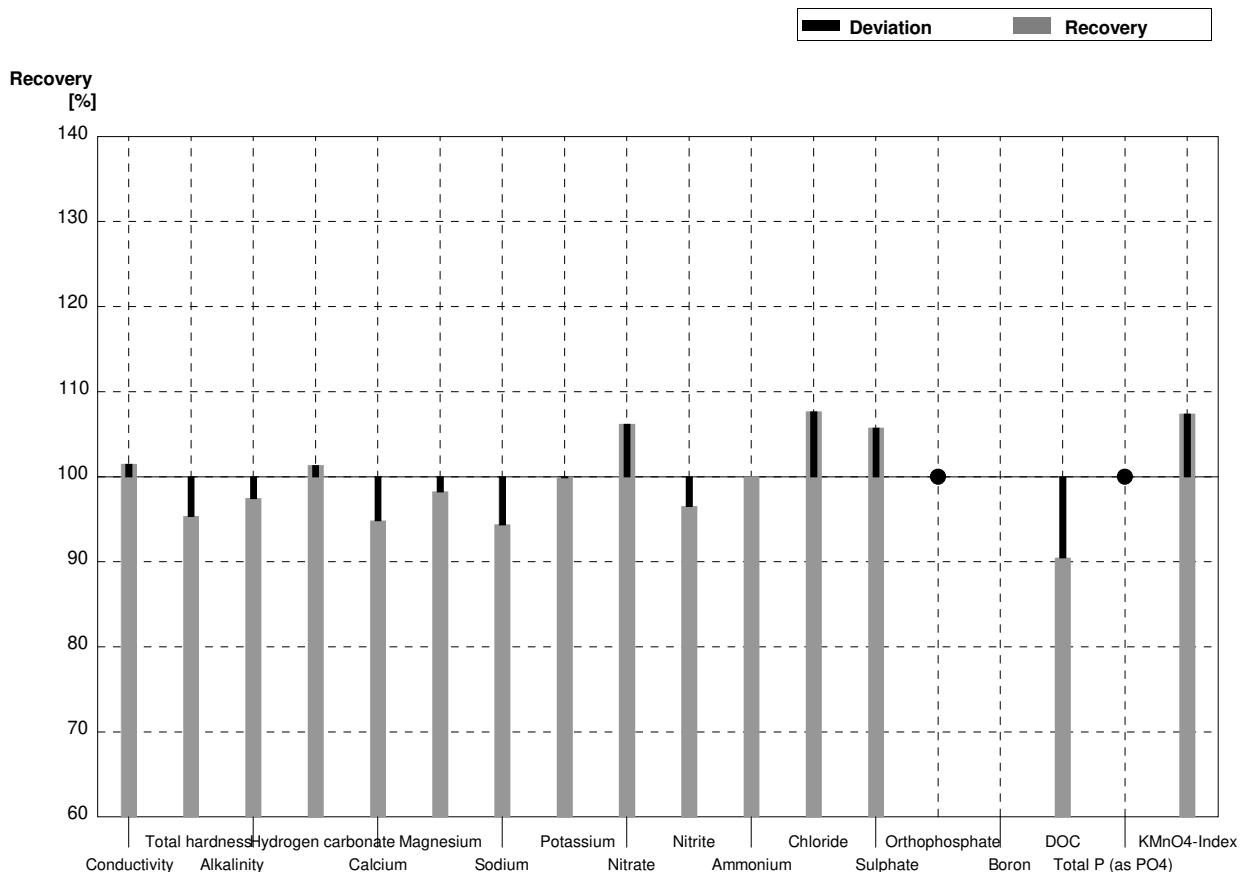
| Parameter                     | Target value | $\pm$ U (k=2) | Result | $\pm$ | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|-------|-------------------------|----------|
| Conductivity                  | 444          | 1             | 445    | 17,8  | $\mu\text{S}/\text{cm}$ | 100%     |
| Total hardness                | 1,321        | 0,015         | 1,29   | 0,232 | $\text{mmol/l}$         | 98%      |
| Alkalinity                    | 1,294        | 0,018         | 1,32   | 0,053 | $\text{mmol/l}$         | 102%     |
| Hydrogen carbonate            | 75,9         | 1,1           | 77,2   | 3,09  | $\text{mg/l}$           | 102%     |
| Calcium                       | 39,6         | 0,6           | 38,5   | 6,93  | $\text{mg/l}$           | 97%      |
| Magnesium                     | 8,07         | 0,10          | 7,91   | 1,42  | $\text{mg/l}$           | 98%      |
| Sodium                        | 30,8         | 0,2           | 29,9   | 5,38  | $\text{mg/l}$           | 97%      |
| Potassium                     | 6,98         | 0,04          | 6,88   | 1,24  | $\text{mg/l}$           | 99%      |
| Nitrate                       | 51,3         | 1,2           | 49,1   | 4,42  | $\text{mg/l}$           | 96%      |
| Nitrite                       | 0,0203       | 0,0018        | 0,0213 | 0,002 | $\text{mg/l}$           | 105%     |
| Ammonium                      | <0,01        |               | <0,01  |       | $\text{mg/l}$           | •        |
| Chloride                      | 28,6         | 0,4           | 27,1   | 2,44  | $\text{mg/l}$           | 95%      |
| Sulphate                      | 58,9         | 0,4           | 56,3   | 5,07  | $\text{mg/l}$           | 96%      |
| Orthophosphate                | 0,061        | 0,001         | 0,0651 | 0,006 | $\text{mg/l}$           | 107%     |
| Boron                         | 0,0544       | 0,0004        | 0,053  | 0,010 | $\text{mg/l}$           | 97%      |
| DOC                           | 4,88         | 0,05          | 4,93   | 0,444 | $\text{mg/l}$           | 101%     |
| Total P (as PO <sub>4</sub> ) | 0,187        | 0,003         | 0,187  | 0,007 | $\text{mg/l}$           | 100%     |
| KMnO <sub>4</sub> -Index      | 5,64         | 0,15          | 6,27   | 0,564 | $\text{mg/l}$           | 111%     |



Sample N167A

Laboratory L

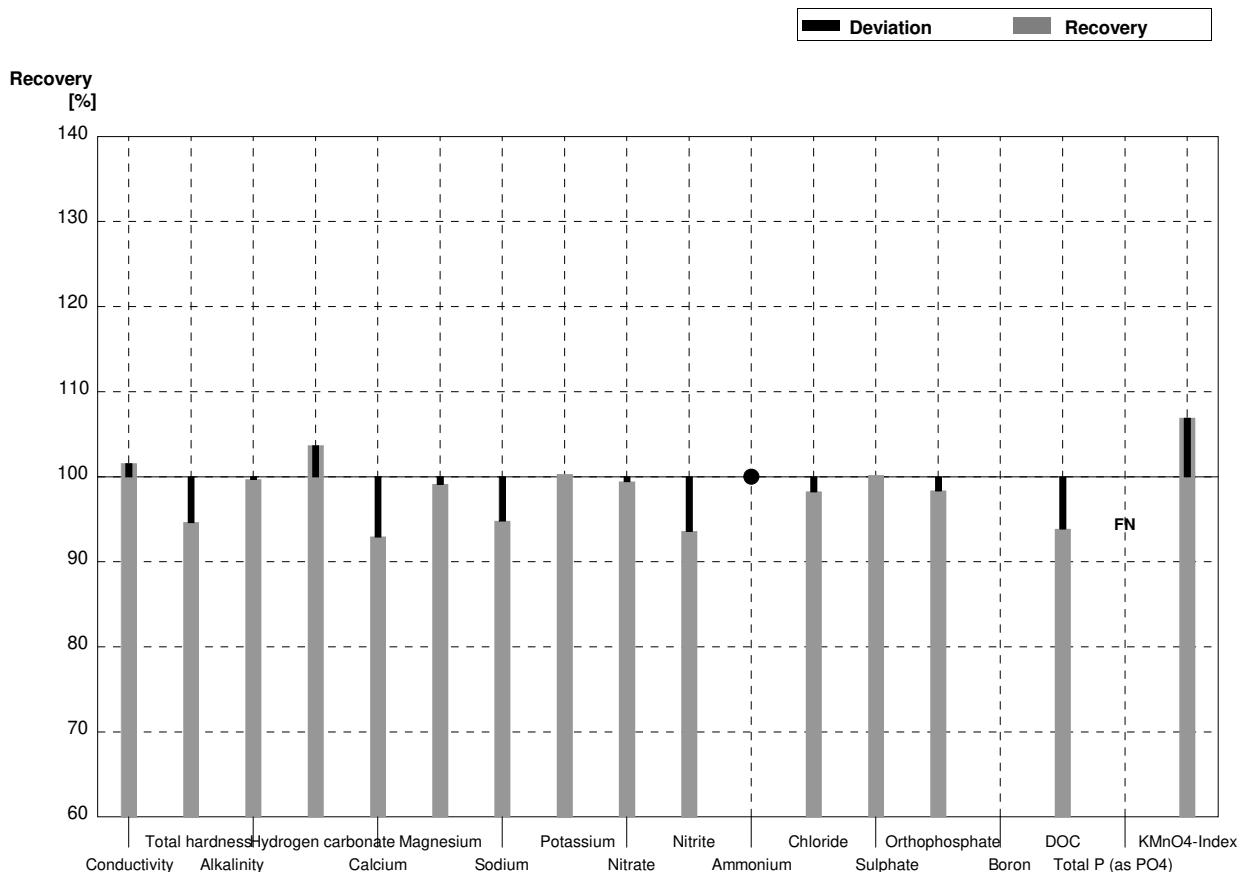
| Parameter                     | Target value | $\pm$ U (k=2) | Result | $\pm$  | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|--------|-------------------------|----------|
| Conductivity                  | 544          | 2             | 552    | 18     | $\mu\text{S}/\text{cm}$ | 101%     |
| Total hardness                | 1,94         | 0,02          | 1,85   | 0,15   | $\text{mmol/l}$         | 95%      |
| Alkalinity                    | 2,36         | 0,03          | 2,30   | 0,069  | $\text{mmol/l}$         | 97%      |
| Hydrogen carbonate            | 140,9        | 1,7           | 142,8  | 4,3    | $\text{mg/l}$           | 101%     |
| Calcium                       | 60,1         | 0,9           | 57     | 4,7    | $\text{mg/l}$           | 95%      |
| Magnesium                     | 10,79        | 0,14          | 10,6   | 0,75   | $\text{mg/l}$           | 98%      |
| Sodium                        | 24,9         | 0,3           | 23,5   | 1,7    | $\text{mg/l}$           | 94%      |
| Potassium                     | 8,81         | 0,06          | 8,8    | 0,41   | $\text{mg/l}$           | 100%     |
| Nitrate                       | 37,2         | 0,7           | 39,5   | 1,9    | $\text{mg/l}$           | 106%     |
| Nitrite                       | 0,0404       | 0,0009        | 0,0390 | 0,0010 | $\text{mg/l}$           | 97%      |
| Ammonium                      | 0,070        | 0,004         | 0,070  | 0,004  | $\text{mg/l}$           | 100%     |
| Chloride                      | 54,8         | 1,2           | 59     | 2,8    | $\text{mg/l}$           | 108%     |
| Sulphate                      | 34,7         | 0,4           | 36,7   | 1,9    | $\text{mg/l}$           | 106%     |
| Orthophosphate                | <0,009       |               | <0,02  |        | $\text{mg/l}$           | •        |
| Boron                         | 0,1265       | 0,0012        |        |        | $\text{mg/l}$           |          |
| DOC                           | 1,89         | 0,04          | 1,71   | 0,37   | $\text{mg/l}$           | 90%      |
| Total P (as PO <sub>4</sub> ) | <0,009       |               | <0,15  |        | $\text{mg/l}$           | •        |
| KMnO <sub>4</sub> -Index      | 3,51         | 0,12          | 3,77   | 0,38   | $\text{mg/l}$           | 107%     |



Sample N167B

Laboratory L

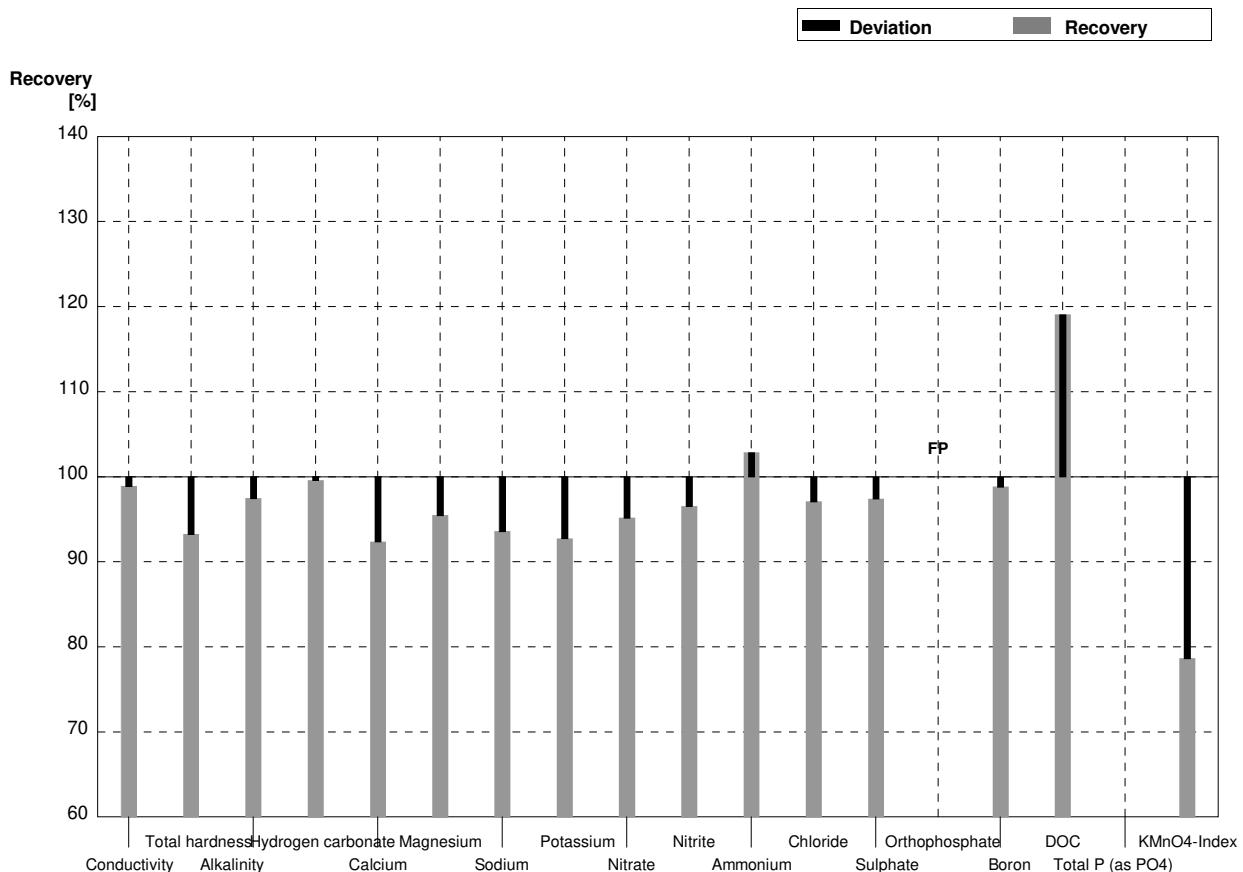
| Parameter          | Target value | ± U (k=2) | Result | ±      | Unit   | Recovery |
|--------------------|--------------|-----------|--------|--------|--------|----------|
| Conductivity       | 444          | 1         | 451    | 14     | µS/cm  | 102%     |
| Total hardness     | 1,321        | 0,015     | 1,25   | 0,10   | mmol/l | 95%      |
| Alkalinity         | 1,294        | 0,018     | 1,29   | 0,039  | mmol/l | 100%     |
| Hydrogen carbonate | 75,9         | 1,1       | 78,7   | 2,4    | mg/l   | 104%     |
| Calcium            | 39,6         | 0,6       | 36,8   | 3,0    | mg/l   | 93%      |
| Magnesium          | 8,07         | 0,10      | 8,0    | 0,56   | mg/l   | 99%      |
| Sodium             | 30,8         | 0,2       | 29,2   | 2,1    | mg/l   | 95%      |
| Potassium          | 6,98         | 0,04      | 7,0    | 0,32   | mg/l   | 100%     |
| Nitrate            | 51,3         | 1,2       | 51     | 2,4    | mg/l   | 99%      |
| Nitrite            | 0,0203       | 0,0018    | 0,0190 | 0,0010 | mg/l   | 94%      |
| Ammonium           | <0,01        |           | <0,01  |        | mg/l   | •        |
| Chloride           | 28,6         | 0,4       | 28,1   | 1,3    | mg/l   | 98%      |
| Sulphate           | 58,9         | 0,4       | 59     | 3,1    | mg/l   | 100%     |
| Orthophosphate     | 0,061        | 0,001     | 0,060  | 0,003  | mg/l   | 98%      |
| Boron              | 0,0544       | 0,0004    |        |        | mg/l   |          |
| DOC                | 4,88         | 0,05      | 4,58   | 0,98   | mg/l   | 94%      |
| Total P (as PO4)   | 0,187        | 0,003     | <0,15  |        | mg/l   | FN       |
| KMnO4-Index        | 5,64         | 0,15      | 6,03   | 0,60   | mg/l   | 107%     |



Sample N167A

Laboratory M

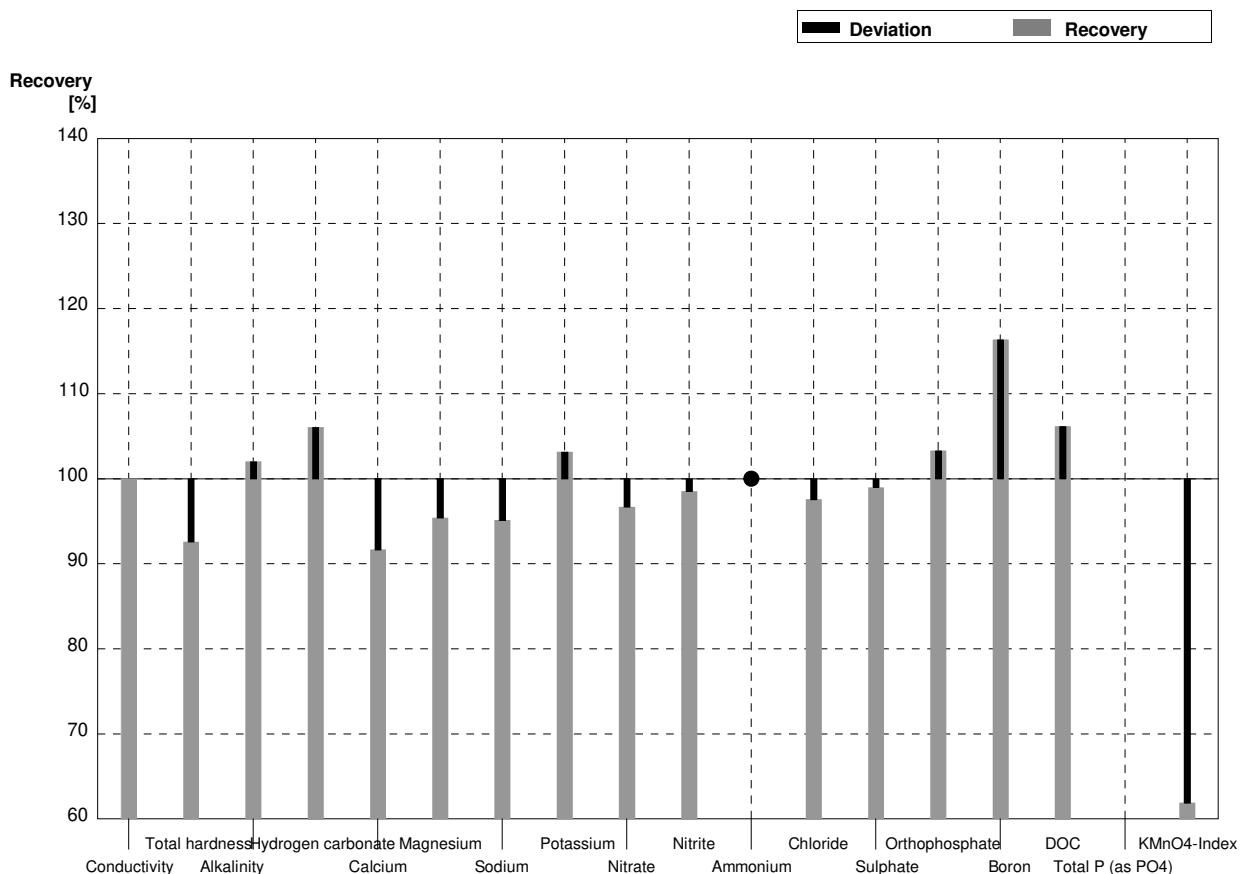
| Parameter          | Target value | ± U (k=2) | Result | ± | Unit   | Recovery |
|--------------------|--------------|-----------|--------|---|--------|----------|
| Conductivity       | 544          | 2         | 538    |   | µS/cm  | 99%      |
| Total hardness     | 1,94         | 0,02      | 1,809  |   | mmol/l | 93%      |
| Alkalinity         | 2,36         | 0,03      | 2,30   |   | mmol/l | 97%      |
| Hydrogen carbonate | 140,9        | 1,7       | 140,3  |   | mg/l   | 100%     |
| Calcium            | 60,1         | 0,9       | 55,5   |   | mg/l   | 92%      |
| Magnesium          | 10,79        | 0,14      | 10,3   |   | mg/l   | 95%      |
| Sodium             | 24,9         | 0,3       | 23,3   |   | mg/l   | 94%      |
| Potassium          | 8,81         | 0,06      | 8,17   |   | mg/l   | 93%      |
| Nitrate            | 37,2         | 0,7       | 35,4   |   | mg/l   | 95%      |
| Nitrite            | 0,0404       | 0,0009    | 0,0390 |   | mg/l   | 97%      |
| Ammonium           | 0,070        | 0,004     | 0,0720 |   | mg/l   | 103%     |
| Chloride           | 54,8         | 1,2       | 53,2   |   | mg/l   | 97%      |
| Sulphate           | 34,7         | 0,4       | 33,8   |   | mg/l   | 97%      |
| Orthophosphate     | <0,009       |           | 0,124  |   | mg/l   | FP       |
| Boron              | 0,1265       | 0,0012    | 0,125  |   | mg/l   | 99%      |
| DOC                | 1,89         | 0,04      | 2,25   |   | mg/l   | 119%     |
| Total P (as PO4)   | <0,009       |           |        |   | mg/l   |          |
| KMnO4-Index        | 3,51         | 0,12      | 2,76   |   | mg/l   | 79%      |



Sample N167B

Laboratory M

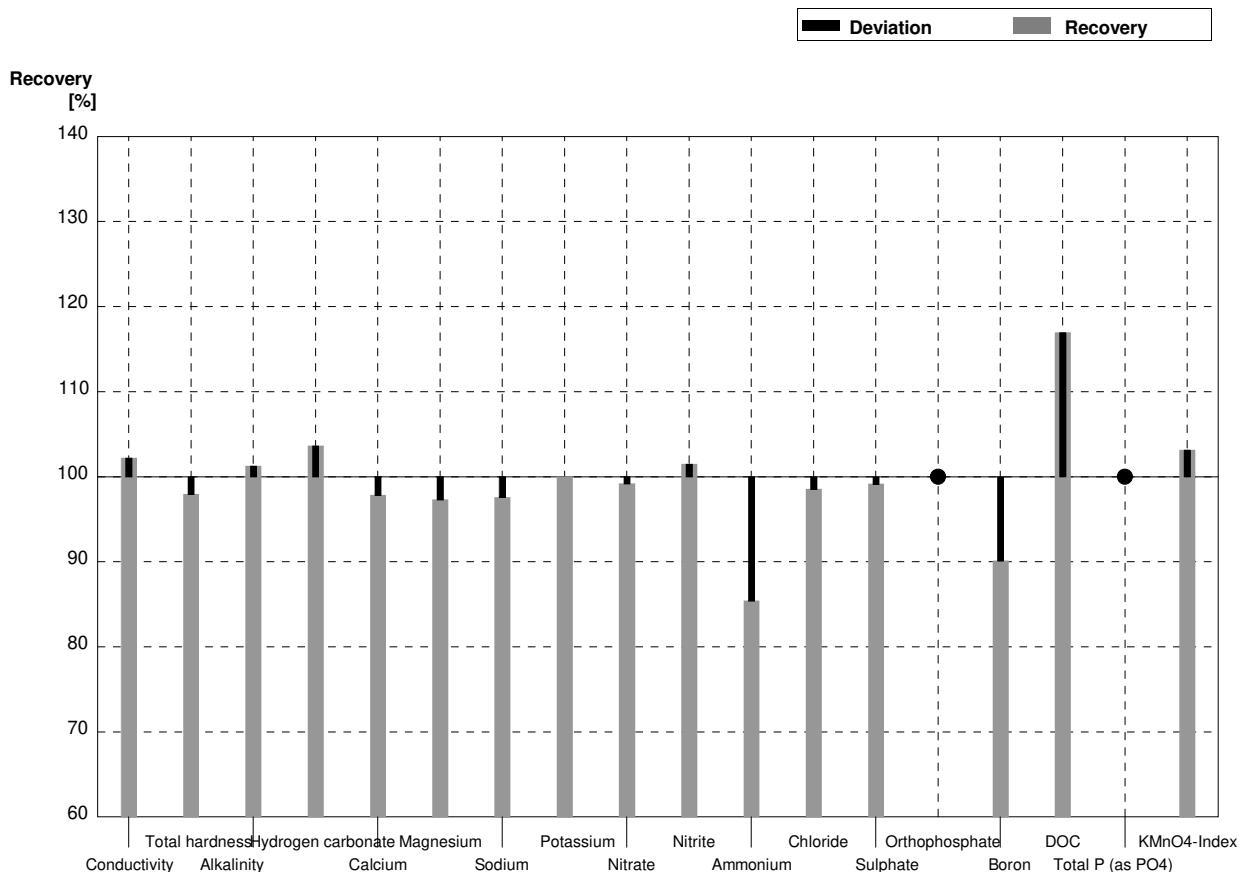
| Parameter          | Target value | ± U (k=2) | Result | ± | Unit   | Recovery |
|--------------------|--------------|-----------|--------|---|--------|----------|
| Conductivity       | 444          | 1         | 444    |   | µS/cm  | 100%     |
| Total hardness     | 1,321        | 0,015     | 1,223  |   | mmol/l | 93%      |
| Alkalinity         | 1,294        | 0,018     | 1,32   |   | mmol/l | 102%     |
| Hydrogen carbonate | 75,9         | 1,1       | 80,5   |   | mg/l   | 106%     |
| Calcium            | 39,6         | 0,6       | 36,3   |   | mg/l   | 92%      |
| Magnesium          | 8,07         | 0,10      | 7,70   |   | mg/l   | 95%      |
| Sodium             | 30,8         | 0,2       | 29,3   |   | mg/l   | 95%      |
| Potassium          | 6,98         | 0,04      | 7,20   |   | mg/l   | 103%     |
| Nitrate            | 51,3         | 1,2       | 49,6   |   | mg/l   | 97%      |
| Nitrite            | 0,0203       | 0,0018    | 0,0200 |   | mg/l   | 99%      |
| Ammonium           | <0,01        |           | <0,01  |   | mg/l   | •        |
| Chloride           | 28,6         | 0,4       | 27,9   |   | mg/l   | 98%      |
| Sulphate           | 58,9         | 0,4       | 58,3   |   | mg/l   | 99%      |
| Orthophosphate     | 0,061        | 0,001     | 0,0630 |   | mg/l   | 103%     |
| Boron              | 0,0544       | 0,0004    | 0,0633 |   | mg/l   | 116%     |
| DOC                | 4,88         | 0,05      | 5,18   |   | mg/l   | 106%     |
| Total P (as PO4)   | 0,187        | 0,003     |        |   | mg/l   |          |
| KMnO4-Index        | 5,64         | 0,15      | 3,49   |   | mg/l   | 62%      |



Sample N167A

Laboratory N

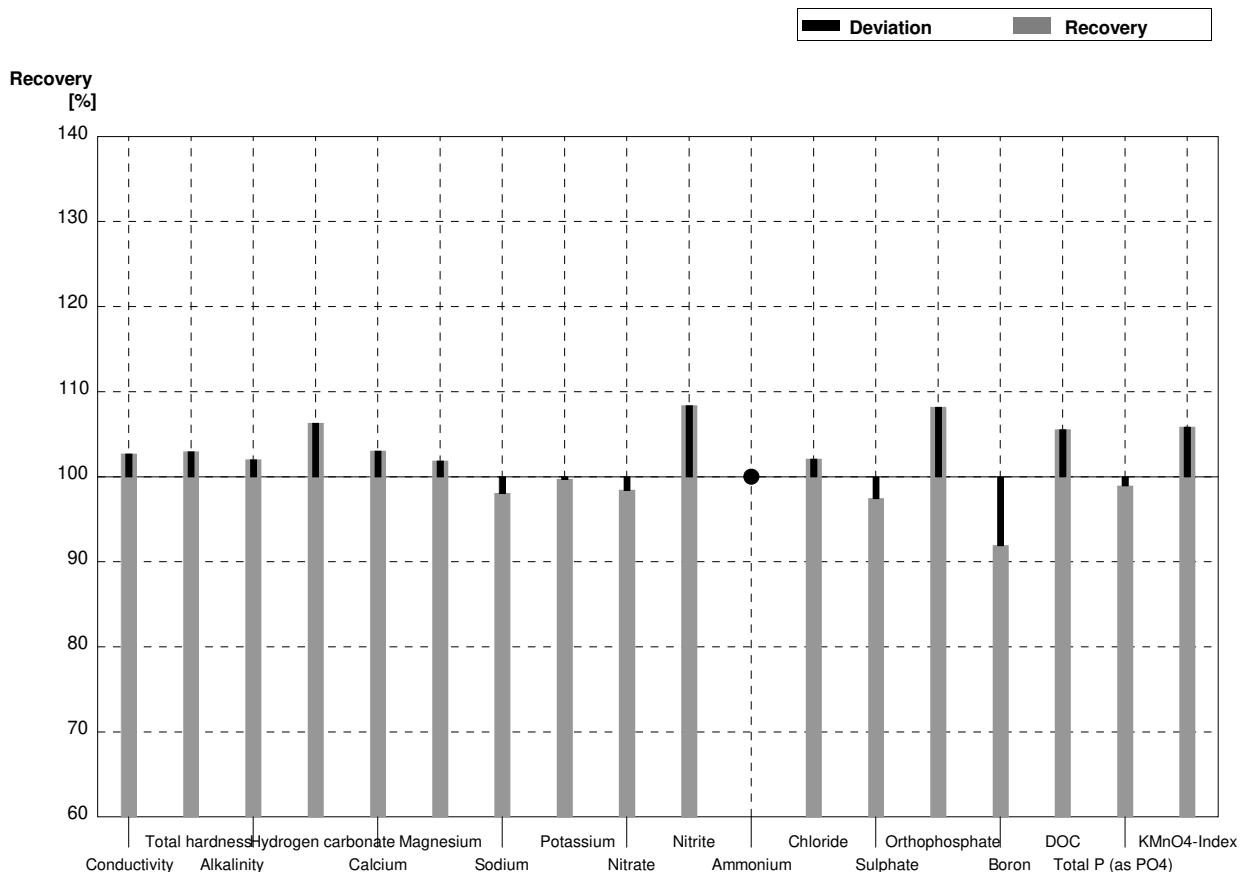
| Parameter          | Target value | $\pm U$ (k=2) | Result | $\pm$  | Unit                    | Recovery |
|--------------------|--------------|---------------|--------|--------|-------------------------|----------|
| Conductivity       | 544          | 2             | 556    | 56     | $\mu\text{S}/\text{cm}$ | 102%     |
| Total hardness     | 1,94         | 0,02          | 1,90   | 0,19   | $\text{mmol/l}$         | 98%      |
| Alkalinity         | 2,36         | 0,03          | 2,39   | 0,24   | $\text{mmol/l}$         | 101%     |
| Hydrogen carbonate | 140,9        | 1,7           | 146    | 15     | $\text{mg/l}$           | 104%     |
| Calcium            | 60,1         | 0,9           | 58,8   | 5,9    | $\text{mg/l}$           | 98%      |
| Magnesium          | 10,79        | 0,14          | 10,5   | 1,0    | $\text{mg/l}$           | 97%      |
| Sodium             | 24,9         | 0,3           | 24,3   | 2,4    | $\text{mg/l}$           | 98%      |
| Potassium          | 8,81         | 0,06          | 8,81   | 0,88   | $\text{mg/l}$           | 100%     |
| Nitrate            | 37,2         | 0,7           | 36,9   | 3,7    | $\text{mg/l}$           | 99%      |
| Nitrite            | 0,0404       | 0,0009        | 0,0410 | 0,0041 | $\text{mg/l}$           | 101%     |
| Ammonium           | 0,070        | 0,004         | 0,0598 | 0,0060 | $\text{mg/l}$           | 85%      |
| Chloride           | 54,8         | 1,2           | 54,0   | 5,4    | $\text{mg/l}$           | 99%      |
| Sulphate           | 34,7         | 0,4           | 34,4   | 3,4    | $\text{mg/l}$           | 99%      |
| Orthophosphate     | <0,009       |               | <0,008 |        | $\text{mg/l}$           | •        |
| Boron              | 0,1265       | 0,0012        | 0,114  | 0,011  | $\text{mg/l}$           | 90%      |
| DOC                | 1,89         | 0,04          | 2,21   | 0,22   | $\text{mg/l}$           | 117%     |
| Total P (as PO4)   | <0,009       |               | <0,015 |        | $\text{mg/l}$           | •        |
| KMnO4-Index        | 3,51         | 0,12          | 3,62   | 0,72   | $\text{mg/l}$           | 103%     |



Sample N167B

Laboratory N

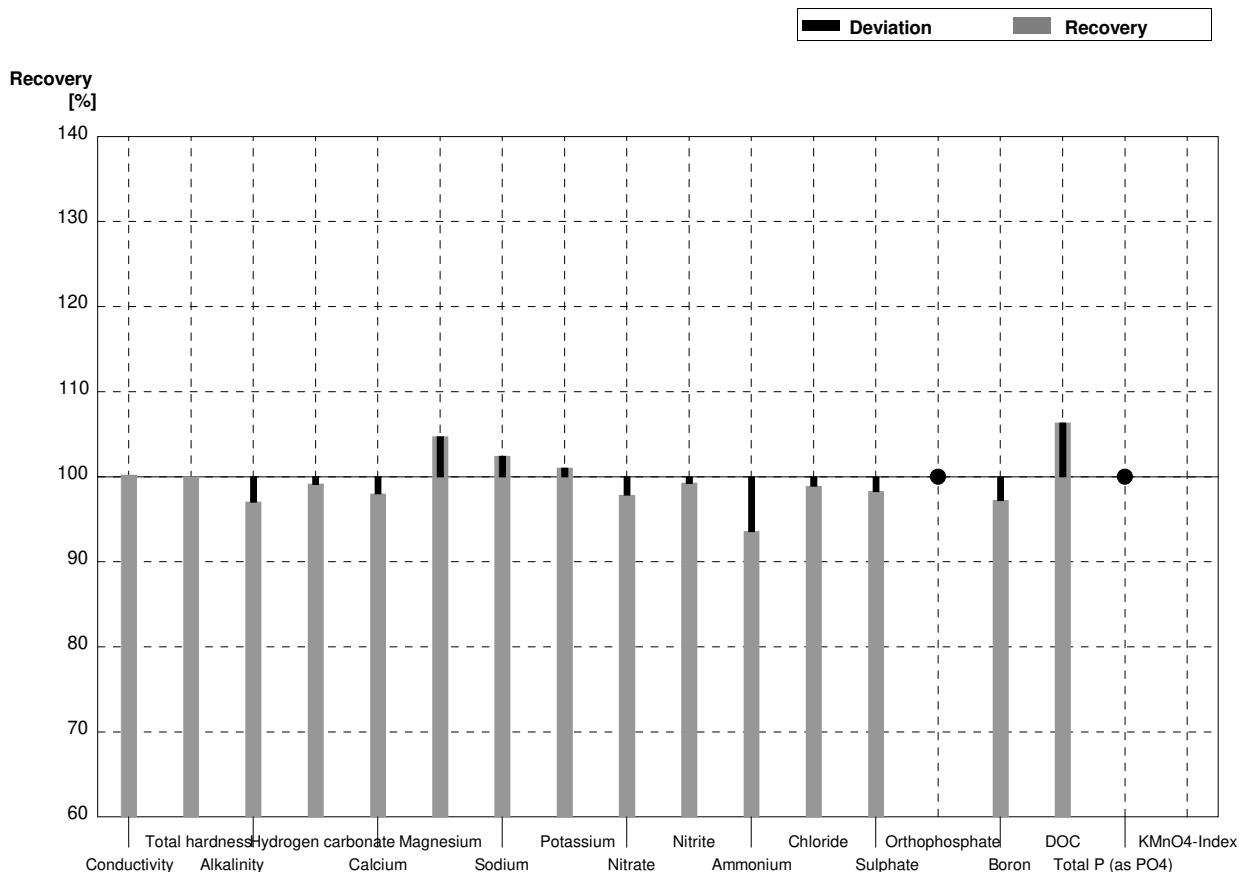
| Parameter                     | Target value | $\pm$ U (k=2) | Result | $\pm$  | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|--------|-------------------------|----------|
| Conductivity                  | 444          | 1             | 456    | 46     | $\mu\text{S}/\text{cm}$ | 103%     |
| Total hardness                | 1,321        | 0,015         | 1,36   | 0,14   | $\text{mmol/l}$         | 103%     |
| Alkalinity                    | 1,294        | 0,018         | 1,32   | 0,13   | $\text{mmol/l}$         | 102%     |
| Hydrogen carbonate            | 75,9         | 1,1           | 80,7   | 8,1    | $\text{mg/l}$           | 106%     |
| Calcium                       | 39,6         | 0,6           | 40,8   | 4,1    | $\text{mg/l}$           | 103%     |
| Magnesium                     | 8,07         | 0,10          | 8,22   | 0,82   | $\text{mg/l}$           | 102%     |
| Sodium                        | 30,8         | 0,2           | 30,2   | 3,0    | $\text{mg/l}$           | 98%      |
| Potassium                     | 6,98         | 0,04          | 6,96   | 0,70   | $\text{mg/l}$           | 100%     |
| Nitrate                       | 51,3         | 1,2           | 50,5   | 5,0    | $\text{mg/l}$           | 98%      |
| Nitrite                       | 0,0203       | 0,0018        | 0,0220 | 0,0022 | $\text{mg/l}$           | 108%     |
| Ammonium                      | <0,01        |               | <0,01  |        | $\text{mg/l}$           | •        |
| Chloride                      | 28,6         | 0,4           | 29,2   | 2,9    | $\text{mg/l}$           | 102%     |
| Sulphate                      | 58,9         | 0,4           | 57,4   | 5,7    | $\text{mg/l}$           | 97%      |
| Orthophosphate                | 0,061        | 0,001         | 0,0660 | 0,0066 | $\text{mg/l}$           | 108%     |
| Boron                         | 0,0544       | 0,0004        | 0,0500 | 0,0050 | $\text{mg/l}$           | 92%      |
| DOC                           | 4,88         | 0,05          | 5,15   | 0,52   | $\text{mg/l}$           | 106%     |
| Total P (as PO <sub>4</sub> ) | 0,187        | 0,003         | 0,185  | 0,037  | $\text{mg/l}$           | 99%      |
| KMnO <sub>4</sub> -Index      | 5,64         | 0,15          | 5,97   | 1,19   | $\text{mg/l}$           | 106%     |



Sample N167A

Laboratory O

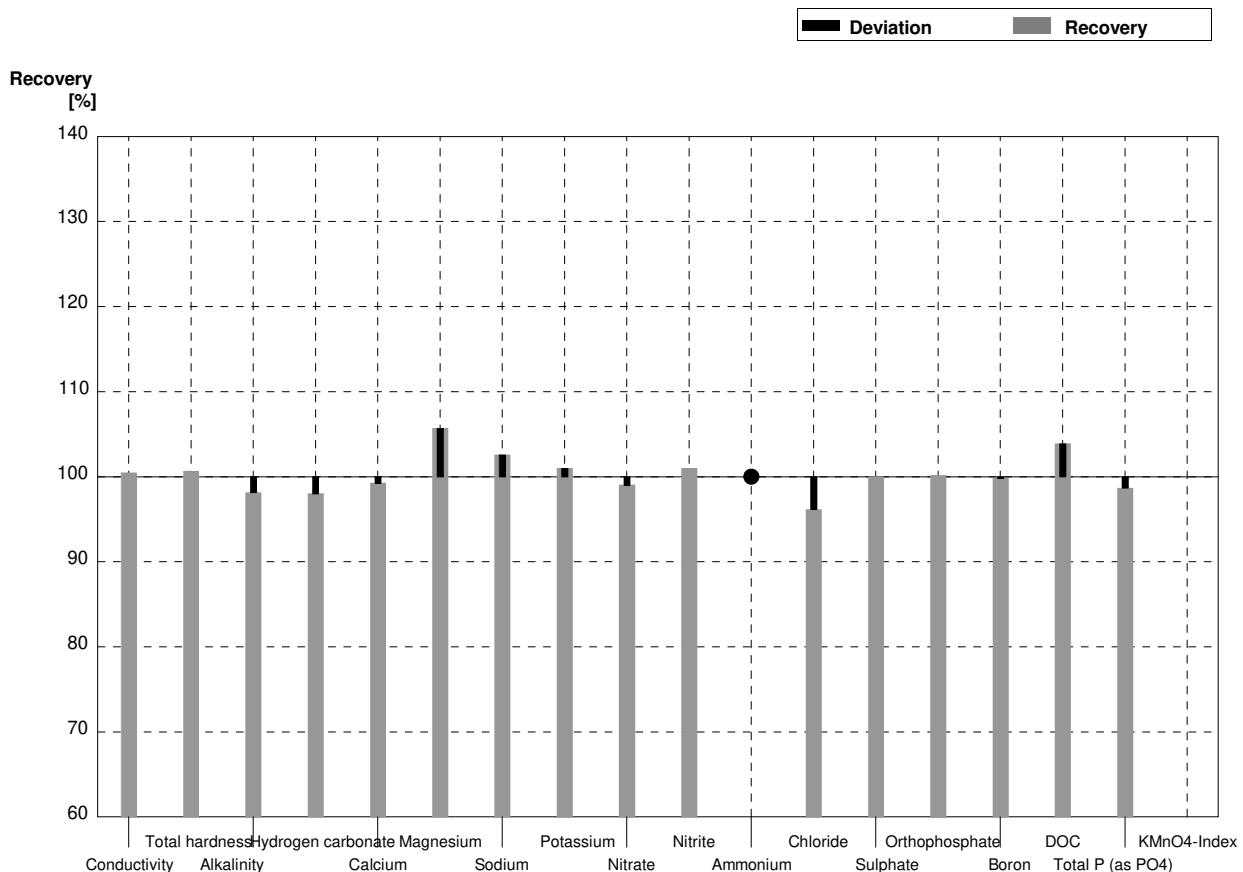
| Parameter                     | Target value | $\pm U$ (k=2) | Result | $\pm$  | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|--------|-------------------------|----------|
| Conductivity                  | 544          | 2             | 545    | 10     | $\mu\text{S}/\text{cm}$ | 100%     |
| Total hardness                | 1,94         | 0,02          | 1,94   | 0,19   | $\text{mmol/l}$         | 100%     |
| Alkalinity                    | 2,36         | 0,03          | 2,29   | 2,3    | $\text{mmol/l}$         | 97%      |
| Hydrogen carbonate            | 140,9        | 1,7           | 139,7  | 13,97  | $\text{mg/l}$           | 99%      |
| Calcium                       | 60,1         | 0,9           | 58,9   | 12     | $\text{mg/l}$           | 98%      |
| Magnesium                     | 10,79        | 0,14          | 11,3   | 2,3    | $\text{mg/l}$           | 105%     |
| Sodium                        | 24,9         | 0,3           | 25,5   | 3,8    | $\text{mg/l}$           | 102%     |
| Potassium                     | 8,81         | 0,06          | 8,90   | 1,8    | $\text{mg/l}$           | 101%     |
| Nitrate                       | 37,2         | 0,7           | 36,4   | 3,6    | $\text{mg/l}$           | 98%      |
| Nitrite                       | 0,0404       | 0,0009        | 0,0401 | 0,0074 | $\text{mg/l}$           | 99%      |
| Ammonium                      | 0,070        | 0,004         | 0,0655 | 0,0106 | $\text{mg/l}$           | 94%      |
| Chloride                      | 54,8         | 1,2           | 54,2   | 5,4    | $\text{mg/l}$           | 99%      |
| Sulphate                      | 34,7         | 0,4           | 34,1   | 3,4    | $\text{mg/l}$           | 98%      |
| Orthophosphate                | <0,009       |               | <0,015 |        | $\text{mg/l}$           | •        |
| Boron                         | 0,1265       | 0,0012        | 0,123  | 0,031  | $\text{mg/l}$           | 97%      |
| DOC                           | 1,89         | 0,04          | 2,01   | 0,20   | $\text{mg/l}$           | 106%     |
| Total P (as PO <sub>4</sub> ) | <0,009       |               | <0,015 |        | $\text{mg/l}$           | •        |
| KMnO <sub>4</sub> -Index      | 3,51         | 0,12          |        |        | $\text{mg/l}$           |          |



Sample N167B

Laboratory O

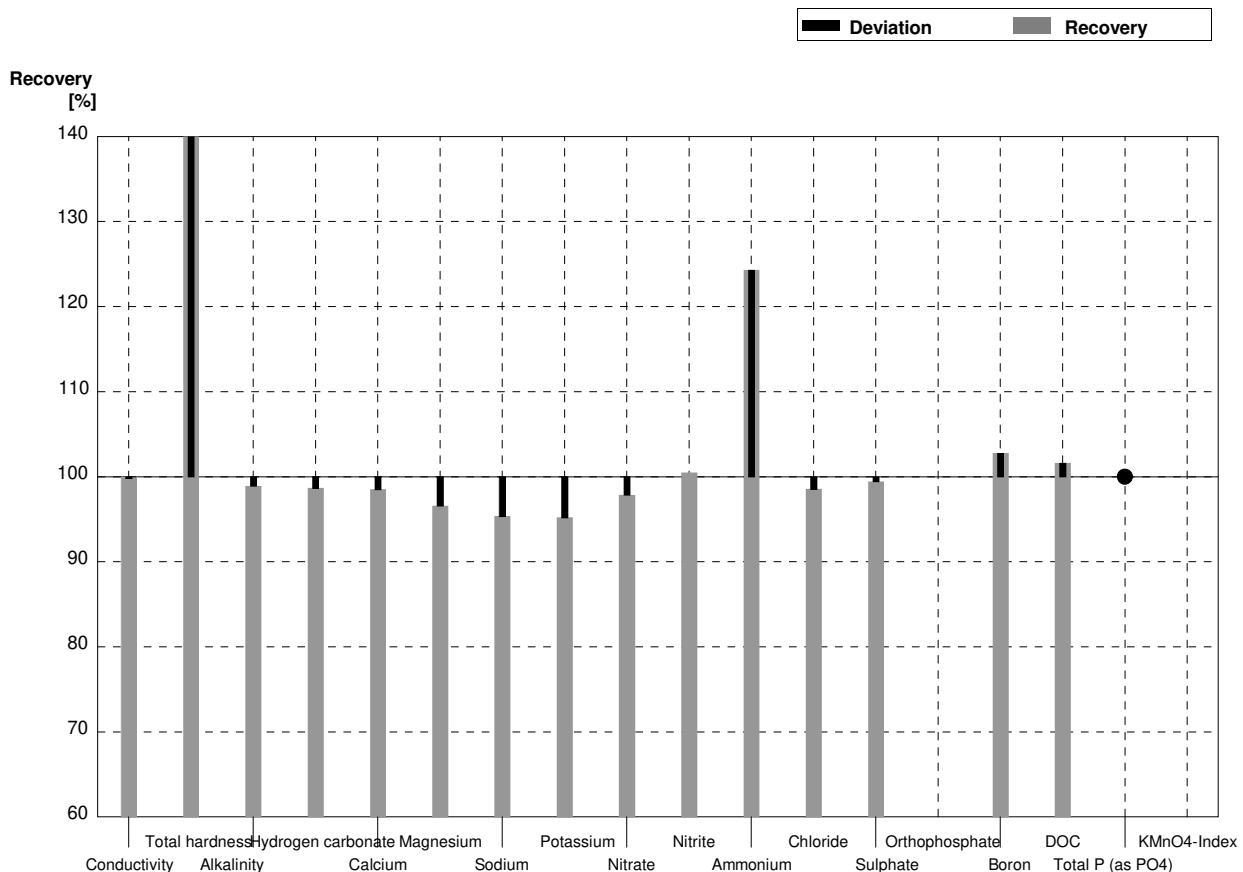
| Parameter          | Target value | ± U (k=2) | Result  | ±      | Unit   | Recovery |
|--------------------|--------------|-----------|---------|--------|--------|----------|
| Conductivity       | 444          | 1         | 446     | 10     | µS/cm  | 100%     |
| Total hardness     | 1,321        | 0,015     | 1,33    | 0,13   | mmol/l | 101%     |
| Alkalinity         | 1,294        | 0,018     | 1,27    | 0,13   | mmol/l | 98%      |
| Hydrogen carbonate | 75,9         | 1,1       | 74,4    | 7,4    | mg/l   | 98%      |
| Calcium            | 39,6         | 0,6       | 39,3    | 7,9    | mg/l   | 99%      |
| Magnesium          | 8,07         | 0,10      | 8,53    | 1,7    | mg/l   | 106%     |
| Sodium             | 30,8         | 0,2       | 31,6    | 4,8    | mg/l   | 103%     |
| Potassium          | 6,98         | 0,04      | 7,05    | 1,4    | mg/l   | 101%     |
| Nitrate            | 51,3         | 1,2       | 50,8    | 5,1    | mg/l   | 99%      |
| Nitrite            | 0,0203       | 0,0018    | 0,0205  | 0,0038 | mg/l   | 101%     |
| Ammonium           | <0,01        |           | <0,0100 |        | mg/l   | •        |
| Chloride           | 28,6         | 0,4       | 27,5    | 2,8    | mg/l   | 96%      |
| Sulphate           | 58,9         | 0,4       | 58,9    | 5,9    | mg/l   | 100%     |
| Orthophosphate     | 0,061        | 0,001     | 0,0611  | 0,0127 | mg/l   | 100%     |
| Boron              | 0,0544       | 0,0004    | 0,0543  |        | mg/l   | 100%     |
| DOC                | 4,88         | 0,05      | 5,07    | 0,51   | mg/l   | 104%     |
| Total P (as PO4)   | 0,187        | 0,003     | 0,1845  | 0,0384 | mg/l   | 99%      |
| KMnO4-Index        | 5,64         | 0,15      |         |        | mg/l   |          |



Sample N167A

Laboratory P

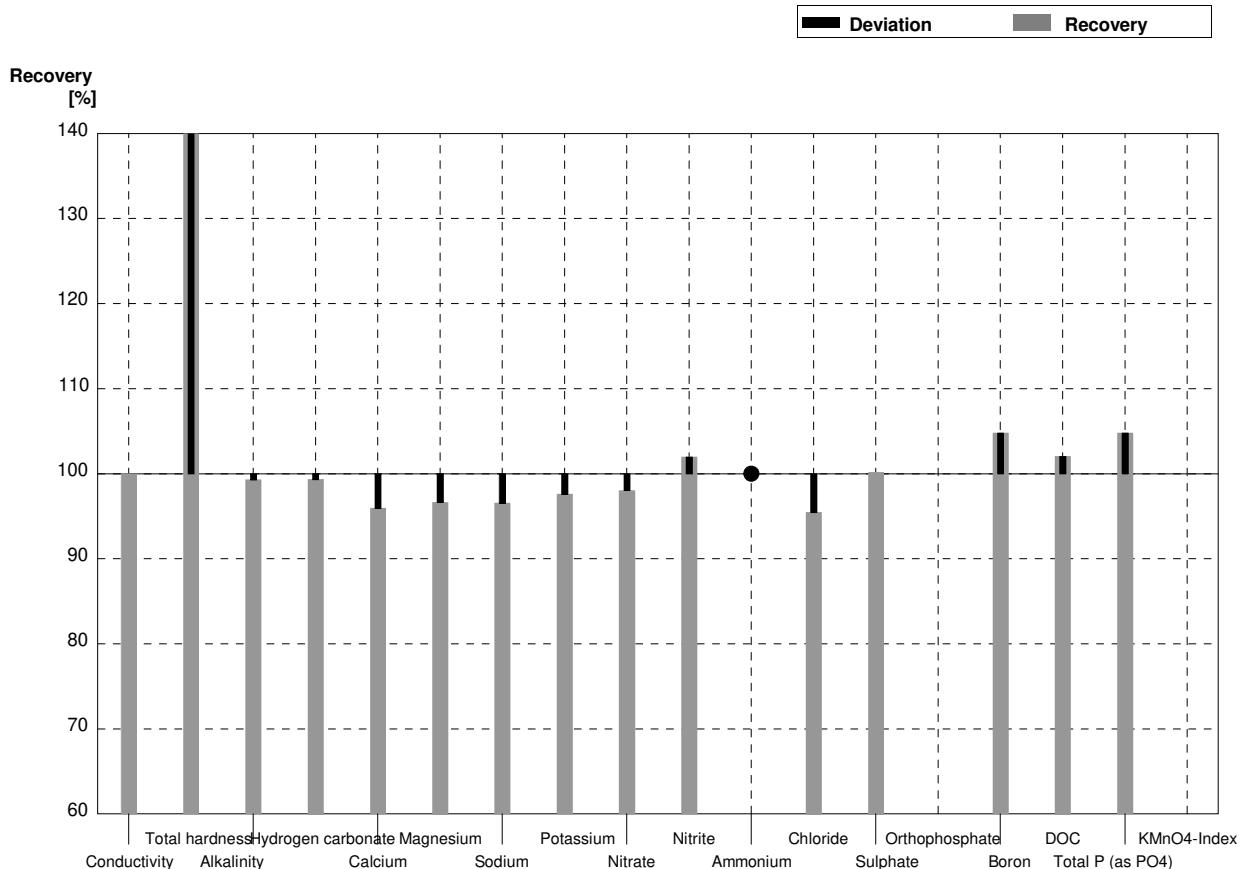
| Parameter          | Target value | ± U (k=2) | Result | ±      | Unit   | Recovery |
|--------------------|--------------|-----------|--------|--------|--------|----------|
| Conductivity       | 544          | 2         | 543    | 15     | µS/cm  | 100%     |
| Total hardness     | 1,94         | 0,02      | 10,7   |        | mmol/l | 552%     |
| Alkalinity         | 2,36         | 0,03      | 2,334  | 0,156  | mmol/l | 99%      |
| Hydrogen carbonate | 140,9        | 1,7       | 139    |        | mg/l   | 99%      |
| Calcium            | 60,1         | 0,9       | 59,2   | 4,1    | mg/l   | 99%      |
| Magnesium          | 10,79        | 0,14      | 10,42  | 0,9    | mg/l   | 97%      |
| Sodium             | 24,9         | 0,3       | 23,74  | 2,3    | mg/l   | 95%      |
| Potassium          | 8,81         | 0,06      | 8,388  | 0,8    | mg/l   | 95%      |
| Nitrate            | 37,2         | 0,7       | 36,4   | 3,8    | mg/l   | 98%      |
| Nitrite            | 0,0404       | 0,0009    | 0,0406 | 0,0088 | mg/l   | 100%     |
| Ammonium           | 0,070        | 0,004     | 0,087  | 0,035  | mg/l   | 124%     |
| Chloride           | 54,8         | 1,2       | 54,0   | 7,6    | mg/l   | 99%      |
| Sulphate           | 34,7         | 0,4       | 34,5   | 3,3    | mg/l   | 99%      |
| Orthophosphate     | <0,009       |           |        |        | mg/l   |          |
| Boron              | 0,1265       | 0,0012    | 0,130  | 0,014  | mg/l   | 103%     |
| DOC                | 1,89         | 0,04      | 1,92   | 0,36   | mg/l   | 102%     |
| Total P (as PO4)   | <0,009       |           | <0,03  |        | mg/l   | •        |
| KMnO4-Index        | 3,51         | 0,12      |        |        | mg/l   |          |



Sample N167B

Laboratory P

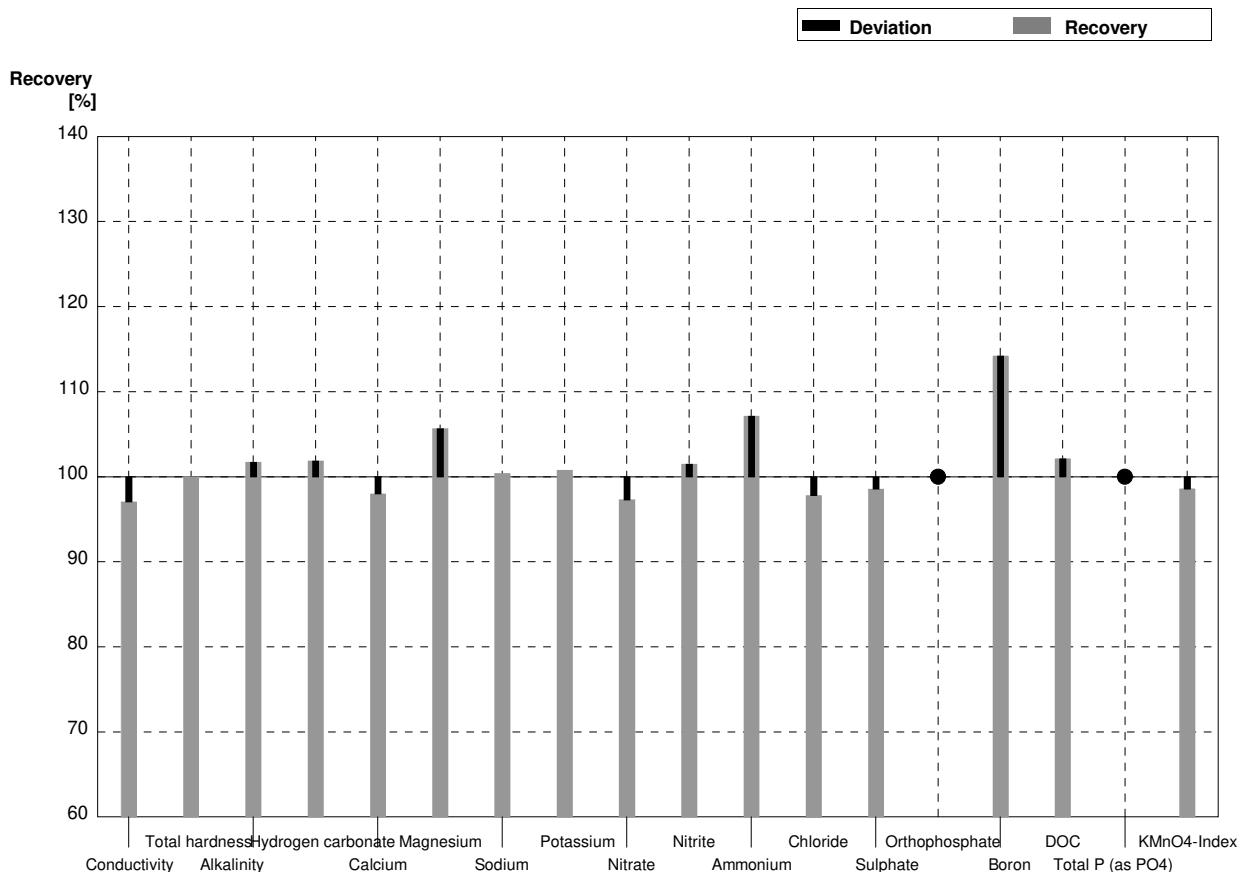
| Parameter          | Target value | ± U (k=2) | Result | ±      | Unit   | Recovery |
|--------------------|--------------|-----------|--------|--------|--------|----------|
| Conductivity       | 444          | 1         | 444    | 12     | µS/cm  | 100%     |
| Total hardness     | 1,321        | 0,015     | 7,1    |        | mmol/l | 537%     |
| Alkalinity         | 1,294        | 0,018     | 1,285  | 0,086  | mmol/l | 99%      |
| Hydrogen carbonate | 75,9         | 1,1       | 75,4   |        | mg/l   | 99%      |
| Calcium            | 39,6         | 0,6       | 38,0   | 2,6    | mg/l   | 96%      |
| Magnesium          | 8,07         | 0,10      | 7,80   | 0,7    | mg/l   | 97%      |
| Sodium             | 30,8         | 0,2       | 29,74  | 2,8    | mg/l   | 97%      |
| Potassium          | 6,98         | 0,04      | 6,813  | 0,7    | mg/l   | 98%      |
| Nitrate            | 51,3         | 1,2       | 50,3   | 5,2    | mg/l   | 98%      |
| Nitrite            | 0,0203       | 0,0018    | 0,0207 | 0,0045 | mg/l   | 102%     |
| Ammonium           | <0,01        |           | <0,05  |        | mg/l   | •        |
| Chloride           | 28,6         | 0,4       | 27,3   | 3,8    | mg/l   | 95%      |
| Sulphate           | 58,9         | 0,4       | 59,0   | 5,6    | mg/l   | 100%     |
| Orthophosphate     | 0,061        | 0,001     |        |        | mg/l   |          |
| Boron              | 0,0544       | 0,0004    | 0,057  | 0,006  | mg/l   | 105%     |
| DOC                | 4,88         | 0,05      | 4,98   | 0,92   | mg/l   | 102%     |
| Total P (as PO4)   | 0,187        | 0,003     | 0,196  | 0,020  | mg/l   | 105%     |
| KMnO4-Index        | 5,64         | 0,15      |        |        | mg/l   |          |



Sample N167A

Laboratory Q

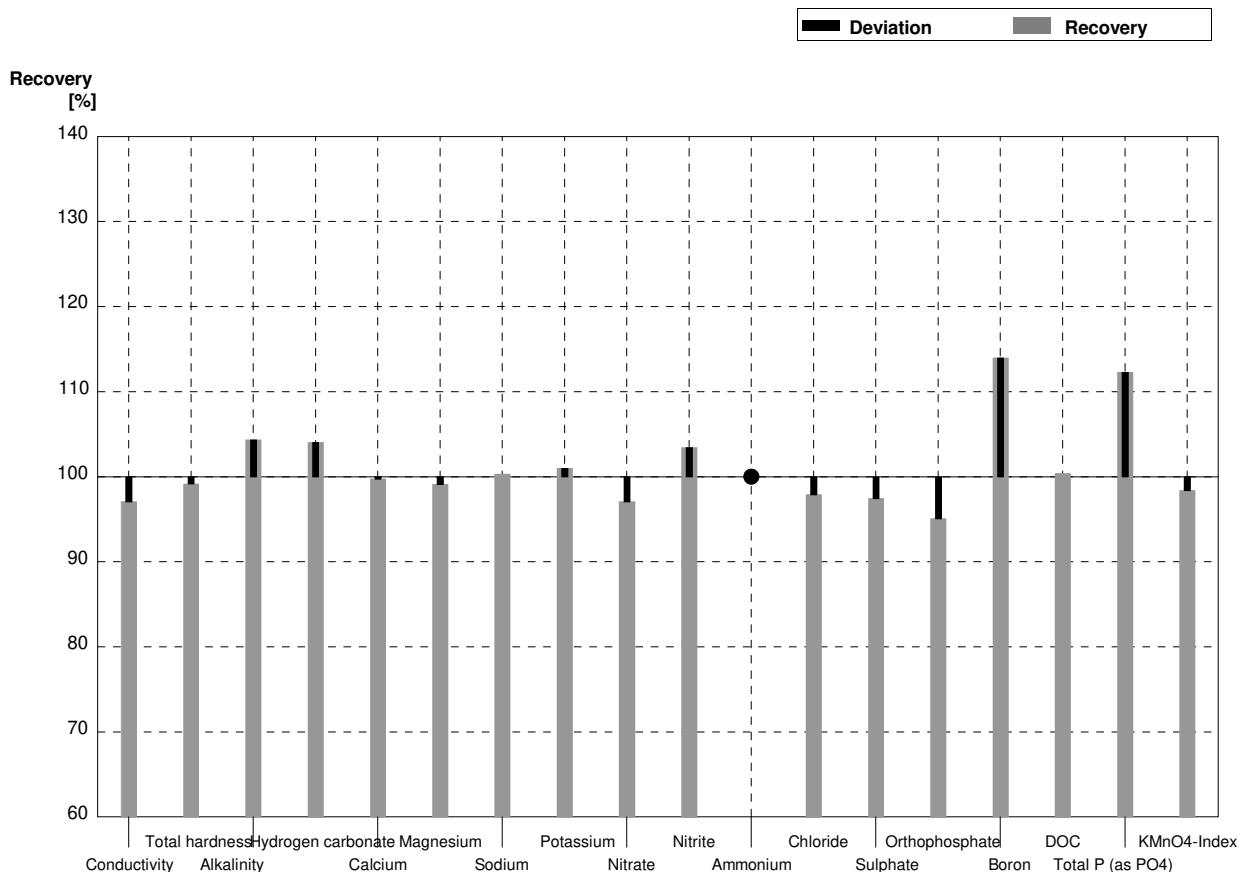
| Parameter                     | Target value | $\pm$ U (k=2) | Result | $\pm$   | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|---------|-------------------------|----------|
| Conductivity                  | 544          | 2             | 528    | 11      | $\mu\text{S}/\text{cm}$ | 97%      |
| Total hardness                | 1,94         | 0,02          | 1,94   | 0,16    | $\text{mmol/l}$         | 100%     |
| Alkalinity                    | 2,36         | 0,03          | 2,40   | 0,22    | $\text{mmol/l}$         | 102%     |
| Hydrogen carbonate            | 140,9        | 1,7           | 143,5  | 12,9    | $\text{mg/l}$           | 102%     |
| Calcium                       | 60,1         | 0,9           | 58,9   | 5,9     | $\text{mg/l}$           | 98%      |
| Magnesium                     | 10,79        | 0,14          | 11,4   | 1,5     | $\text{mg/l}$           | 106%     |
| Sodium                        | 24,9         | 0,3           | 25,0   | 1,25    | $\text{mg/l}$           | 100%     |
| Potassium                     | 8,81         | 0,06          | 8,88   | 0,44    | $\text{mg/l}$           | 101%     |
| Nitrate                       | 37,2         | 0,7           | 36,2   | 1,1     | $\text{mg/l}$           | 97%      |
| Nitrite                       | 0,0404       | 0,0009        | 0,0410 | 0,004   | $\text{mg/l}$           | 101%     |
| Ammonium                      | 0,070        | 0,004         | 0,075  | 0,011   | $\text{mg/l}$           | 107%     |
| Chloride                      | 54,8         | 1,2           | 53,6   | 1,6     | $\text{mg/l}$           | 98%      |
| Sulphate                      | 34,7         | 0,4           | 34,2   | 1,0     | $\text{mg/l}$           | 99%      |
| Orthophosphate                | <0,009       |               | <0,040 |         | $\text{mg/l}$           | •        |
| Boron                         | 0,1265       | 0,0012        | 0,1445 | 0,01445 | $\text{mg/l}$           | 114%     |
| DOC                           | 1,89         | 0,04          | 1,93   | 0,39    | $\text{mg/l}$           | 102%     |
| Total P (as PO <sub>4</sub> ) | <0,009       |               | <0,03  |         | $\text{mg/l}$           | •        |
| KMnO <sub>4</sub> -Index      | 3,51         | 0,12          | 3,46   | 0,35    | $\text{mg/l}$           | 99%      |



Sample N167B

Laboratory Q

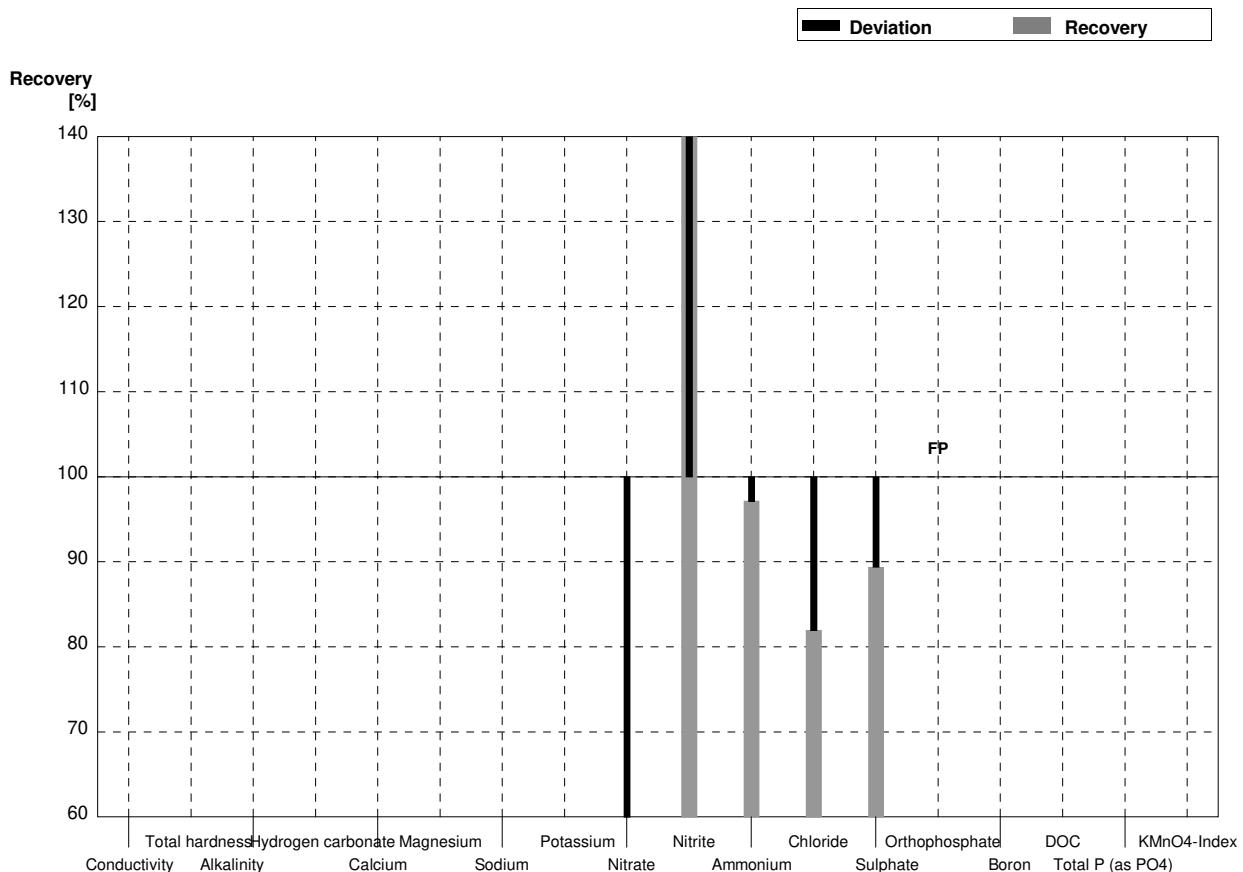
| Parameter                     | Target value | $\pm$ U (k=2) | Result | $\pm$  | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|--------|-------------------------|----------|
| Conductivity                  | 444          | 1             | 431    | 9      | $\mu\text{S}/\text{cm}$ | 97%      |
| Total hardness                | 1,321        | 0,015         | 1,31   | 0,11   | $\text{mmol/l}$         | 99%      |
| Alkalinity                    | 1,294        | 0,018         | 1,35   | 0,12   | $\text{mmol/l}$         | 104%     |
| Hydrogen carbonate            | 75,9         | 1,1           | 78,99  | 7,11   | $\text{mg/l}$           | 104%     |
| Calcium                       | 39,6         | 0,6           | 39,5   | 4,0    | $\text{mg/l}$           | 100%     |
| Magnesium                     | 8,07         | 0,10          | 8,0    | 1,0    | $\text{mg/l}$           | 99%      |
| Sodium                        | 30,8         | 0,2           | 30,9   | 1,55   | $\text{mg/l}$           | 100%     |
| Potassium                     | 6,98         | 0,04          | 7,05   | 0,35   | $\text{mg/l}$           | 101%     |
| Nitrate                       | 51,3         | 1,2           | 49,8   | 1,5    | $\text{mg/l}$           | 97%      |
| Nitrite                       | 0,0203       | 0,0018        | 0,0210 | 0,002  | $\text{mg/l}$           | 103%     |
| Ammonium                      | <0,01        |               | <0,040 |        | $\text{mg/l}$           | •        |
| Chloride                      | 28,6         | 0,4           | 28,0   | 0,8    | $\text{mg/l}$           | 98%      |
| Sulphate                      | 58,9         | 0,4           | 57,4   | 1,7    | $\text{mg/l}$           | 97%      |
| Orthophosphate                | 0,061        | 0,001         | 0,058  | 0,006  | $\text{mg/l}$           | 95%      |
| Boron                         | 0,0544       | 0,0004        | 0,062  | 0,0062 | $\text{mg/l}$           | 114%     |
| DOC                           | 4,88         | 0,05          | 4,90   | 0,98   | $\text{mg/l}$           | 100%     |
| Total P (as PO <sub>4</sub> ) | 0,187        | 0,003         | 0,210  | 0,0315 | $\text{mg/l}$           | 112%     |
| KMnO <sub>4</sub> -Index      | 5,64         | 0,15          | 5,55   | 0,56   | $\text{mg/l}$           | 98%      |



Sample N167A

Laboratory R

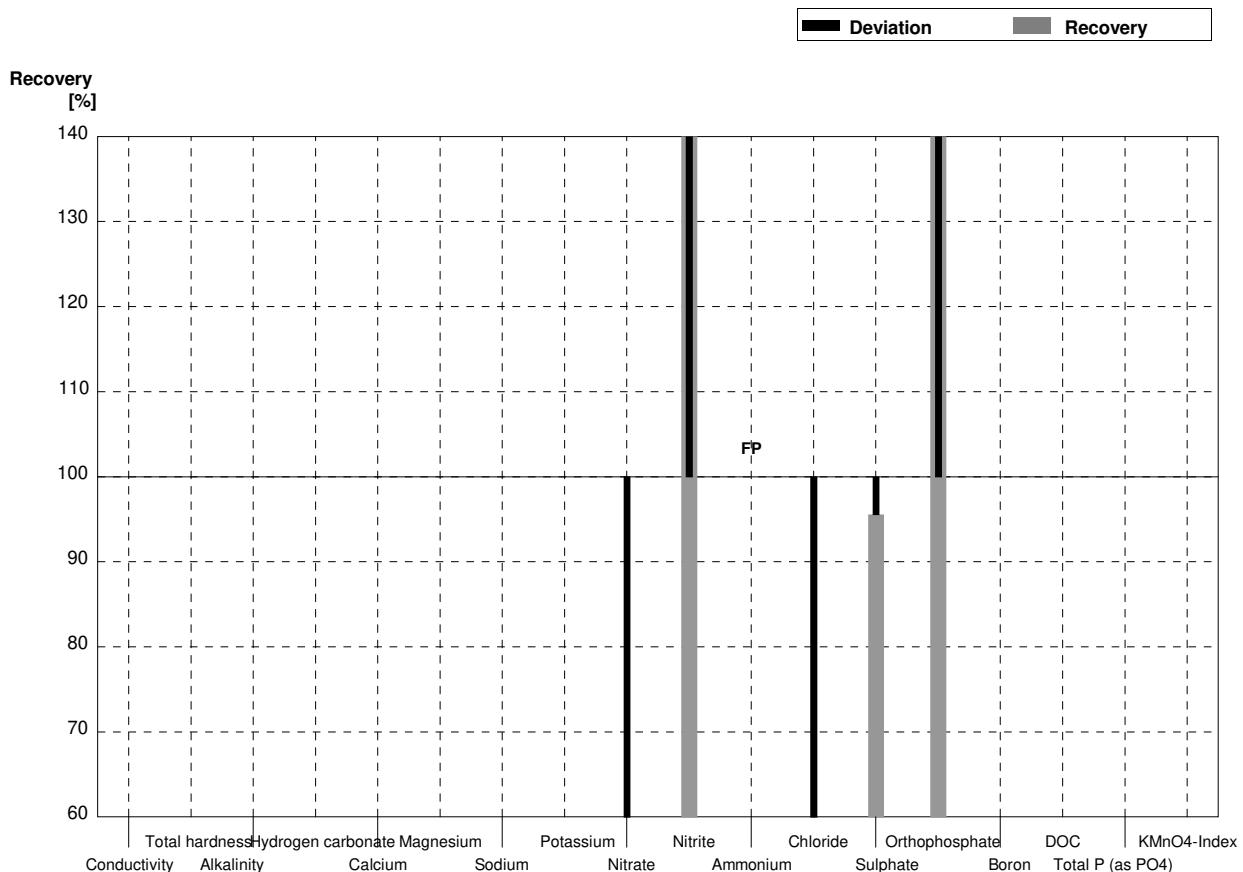
| Parameter          | Target value | ± U (k=2) | Result | ±     | Unit   | Recovery |
|--------------------|--------------|-----------|--------|-------|--------|----------|
| Conductivity       | 544          | 2         |        |       | µS/cm  |          |
| Total hardness     | 1,94         | 0,02      |        |       | mmol/l |          |
| Alkalinity         | 2,36         | 0,03      |        |       | mmol/l |          |
| Hydrogen carbonate | 140,9        | 1,7       |        |       | mg/l   |          |
| Calcium            | 60,1         | 0,9       |        |       | mg/l   |          |
| Magnesium          | 10,79        | 0,14      |        |       | mg/l   |          |
| Sodium             | 24,9         | 0,3       |        |       | mg/l   |          |
| Potassium          | 8,81         | 0,06      |        |       | mg/l   |          |
| Nitrate            | 37,2         | 0,7       | 21,36  | 0,17  | mg/l   | 57%      |
| Nitrite            | 0,0404       | 0,0009    | 0,80   | 0,10  | mg/l   | 1980%    |
| Ammonium           | 0,070        | 0,004     | 0,068  | 0,012 | mg/l   | 97%      |
| Chloride           | 54,8         | 1,2       | 44,90  | 1,80  | mg/l   | 82%      |
| Sulphate           | 34,7         | 0,4       | 31,02  | 1,04  | mg/l   | 89%      |
| Orthophosphate     | <0,009       |           | 0,311  | 0,070 | mg/l   | FP       |
| Boron              | 0,1265       | 0,0012    |        |       | mg/l   |          |
| DOC                | 1,89         | 0,04      |        |       | mg/l   |          |
| Total P (as PO4)   | <0,009       |           |        |       | mg/l   |          |
| KMnO4-Index        | 3,51         | 0,12      |        |       | mg/l   |          |



Sample N167B

Laboratory R

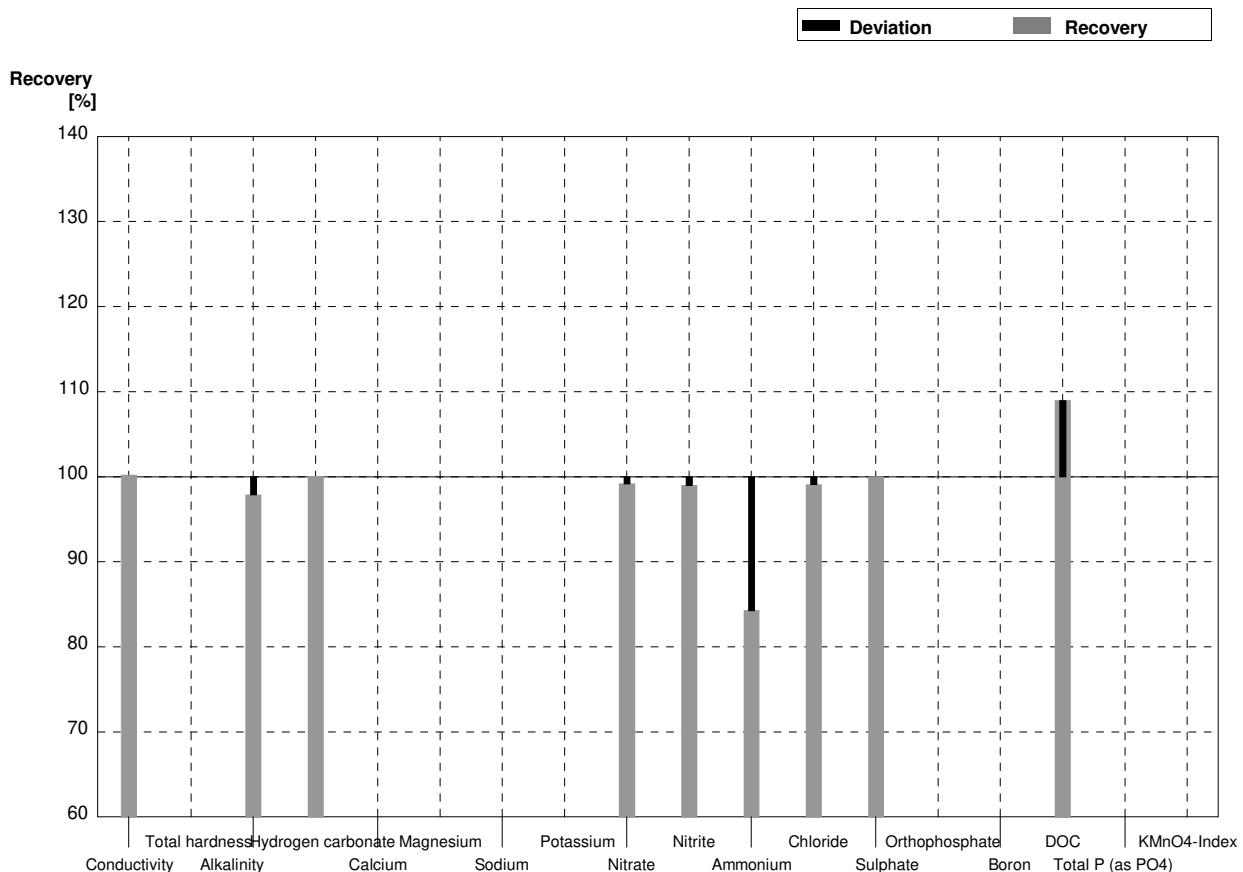
| Parameter          | Target value | ± U (k=2) | Result | ±     | Unit   | Recovery |
|--------------------|--------------|-----------|--------|-------|--------|----------|
| Conductivity       | 444          | 1         |        |       | µS/cm  |          |
| Total hardness     | 1,321        | 0,015     |        |       | mmol/l |          |
| Alkalinity         | 1,294        | 0,018     |        |       | mmol/l |          |
| Hydrogen carbonate | 75,9         | 1,1       |        |       | mg/l   |          |
| Calcium            | 39,6         | 0,6       |        |       | mg/l   |          |
| Magnesium          | 8,07         | 0,10      |        |       | mg/l   |          |
| Sodium             | 30,8         | 0,2       |        |       | mg/l   |          |
| Potassium          | 6,98         | 0,04      |        |       | mg/l   |          |
| Nitrate            | 51,3         | 1,2       | 19,31  | 0,20  | mg/l   | 38%      |
| Nitrite            | 0,0203       | 0,0018    | 0,423  | 0,011 | mg/l   | 2084%    |
| Ammonium           | <0,01        |           | 0,061  | 0,013 | mg/l   | FP       |
| Chloride           | 28,6         | 0,4       | 16,25  | 1,87  | mg/l   | 57%      |
| Sulphate           | 58,9         | 0,4       | 56,28  | 1,61  | mg/l   | 96%      |
| Orthophosphate     | 0,061        | 0,001     | 0,69   | 0,05  | mg/l   | 1131%    |
| Boron              | 0,0544       | 0,0004    |        |       | mg/l   |          |
| DOC                | 4,88         | 0,05      |        |       | mg/l   |          |
| Total P (as PO4)   | 0,187        | 0,003     |        |       | mg/l   |          |
| KMnO4-Index        | 5,64         | 0,15      |        |       | mg/l   |          |



**Sample N167A**

**Laboratory S**

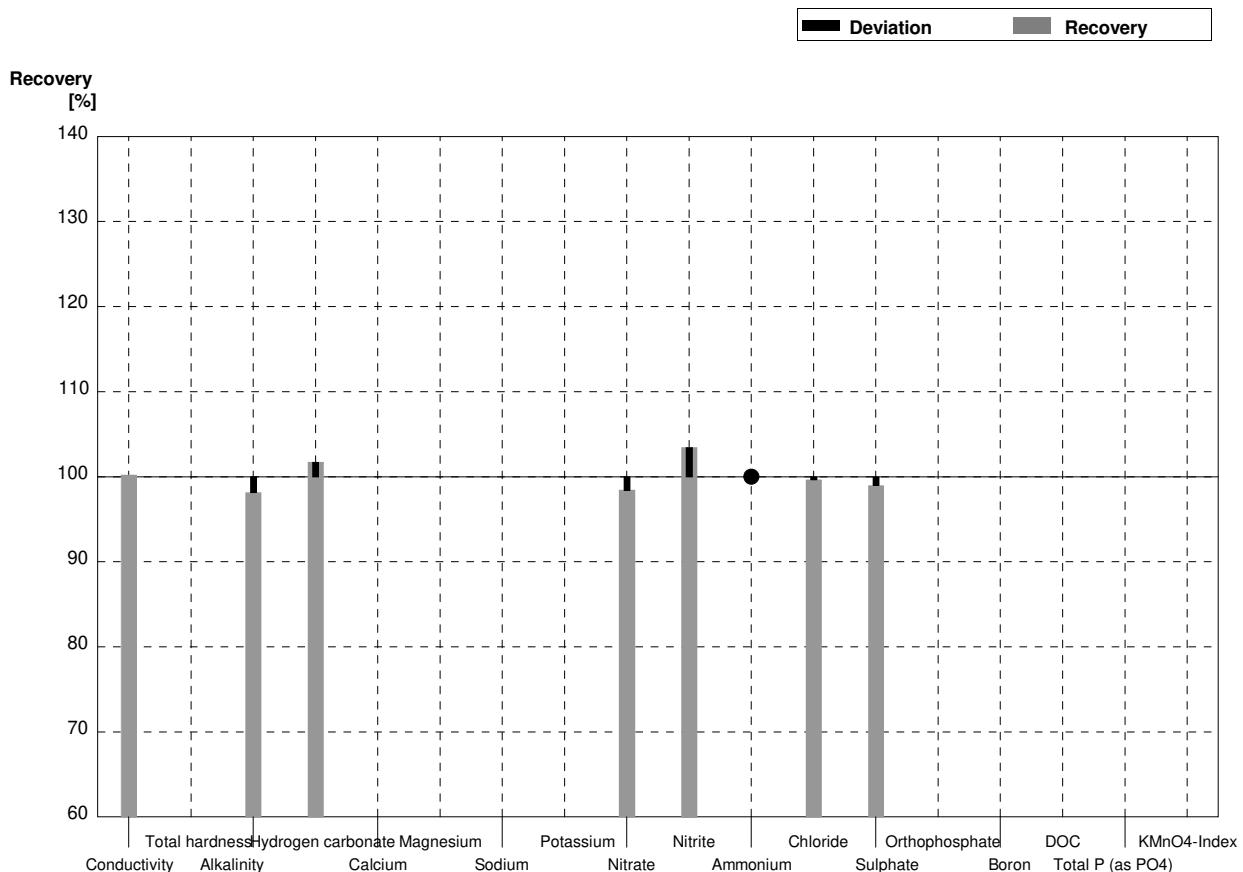
| Parameter                     | Target value | $\pm U$ (k=2) | Result | $\pm$ | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|-------|-------------------------|----------|
| Conductivity                  | 544          | 2             | 545    | 15,3  | $\mu\text{S}/\text{cm}$ | 100%     |
| Total hardness                | 1,94         | 0,02          |        |       | $\text{mmol/l}$         |          |
| Alkalinity                    | 2,36         | 0,03          | 2,31   | 0,05  | $\text{mmol/l}$         | 98%      |
| Hydrogen carbonate            | 140,9        | 1,7           | 141    | 2,96  | $\text{mg/l}$           | 100%     |
| Calcium                       | 60,1         | 0,9           |        |       | $\text{mg/l}$           |          |
| Magnesium                     | 10,79        | 0,14          |        |       | $\text{mg/l}$           |          |
| Sodium                        | 24,9         | 0,3           |        |       | $\text{mg/l}$           |          |
| Potassium                     | 8,81         | 0,06          |        |       | $\text{mg/l}$           |          |
| Nitrate                       | 37,2         | 0,7           | 36,9   | 1,6   | $\text{mg/l}$           | 99%      |
| Nitrite                       | 0,0404       | 0,0009        | 0,0400 | 0,003 | $\text{mg/l}$           | 99%      |
| Ammonium                      | 0,070        | 0,004         | 0,059  | 0,006 | $\text{mg/l}$           | 84%      |
| Chloride                      | 54,8         | 1,2           | 54,3   | 3,96  | $\text{mg/l}$           | 99%      |
| Sulphate                      | 34,7         | 0,4           | 34,7   | 0,97  | $\text{mg/l}$           | 100%     |
| Orthophosphate                | <0,009       |               |        |       | $\text{mg/l}$           |          |
| Boron                         | 0,1265       | 0,0012        |        |       | $\text{mg/l}$           |          |
| DOC                           | 1,89         | 0,04          | 2,06   | 0,016 | $\text{mg/l}$           | 109%     |
| Total P (as PO <sub>4</sub> ) | <0,009       |               |        |       | $\text{mg/l}$           |          |
| KMnO <sub>4</sub> -Index      | 3,51         | 0,12          |        |       | $\text{mg/l}$           |          |



Sample N167B

Laboratory S

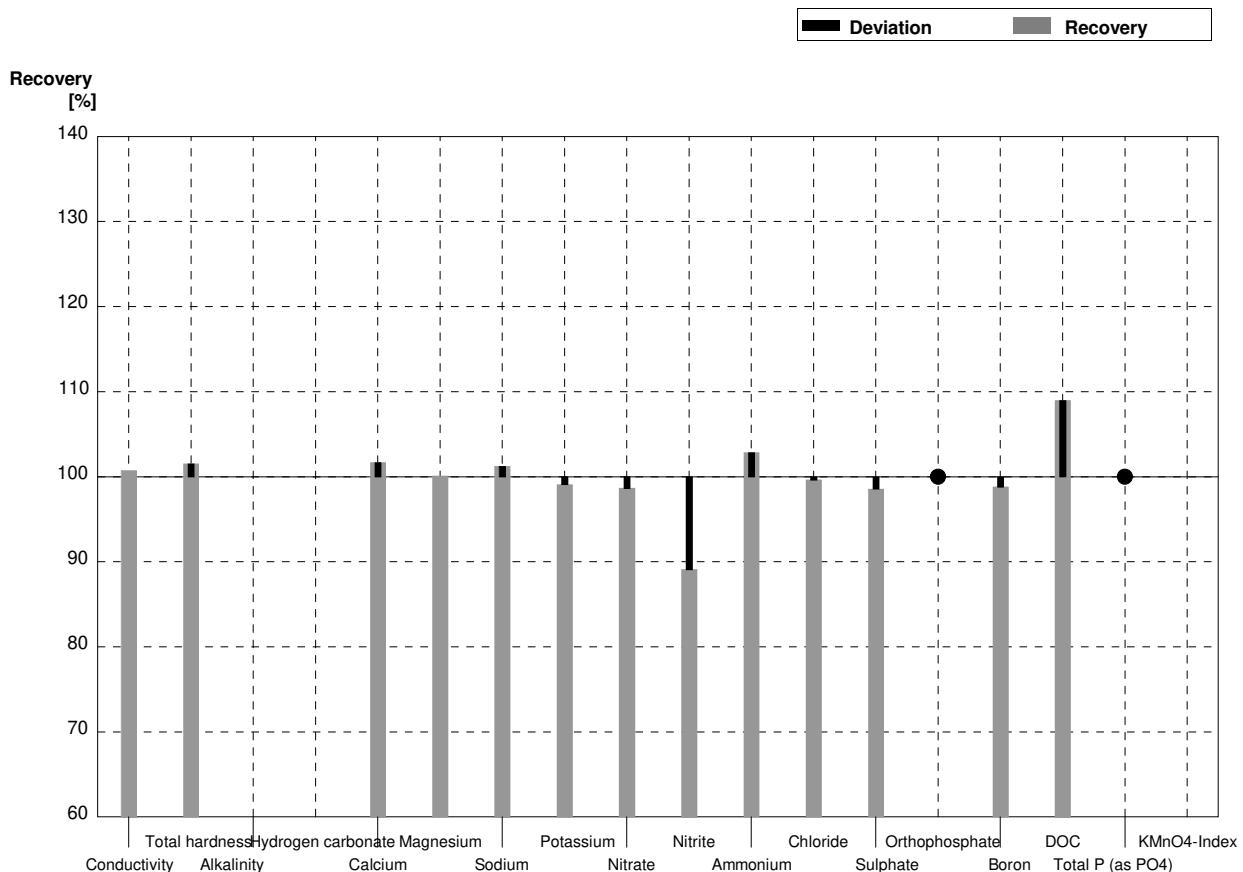
| Parameter          | Target value | ± U (k=2) | Result | ±      | Unit   | Recovery |
|--------------------|--------------|-----------|--------|--------|--------|----------|
| Conductivity       | 444          | 1         | 445    | 12,5   | µS/cm  | 100%     |
| Total hardness     | 1,321        | 0,015     |        |        | mmol/l |          |
| Alkalinity         | 1,294        | 0,018     | 1,27   | 0,03   | mmol/l | 98%      |
| Hydrogen carbonate | 75,9         | 1,1       | 77,2   | 1,6    | mg/l   | 102%     |
| Calcium            | 39,6         | 0,6       |        |        | mg/l   |          |
| Magnesium          | 8,07         | 0,10      |        |        | mg/l   |          |
| Sodium             | 30,8         | 0,2       |        |        | mg/l   |          |
| Potassium          | 6,98         | 0,04      |        |        | mg/l   |          |
| Nitrate            | 51,3         | 1,2       | 50,5   | 2,2    | mg/l   | 98%      |
| Nitrite            | 0,0203       | 0,0018    | 0,0210 | 0,0014 | mg/l   | 103%     |
| Ammonium           | <0,01        |           | <0,047 |        | mg/l   | •        |
| Chloride           | 28,6         | 0,4       | 28,5   | 2,08   | mg/l   | 100%     |
| Sulphate           | 58,9         | 0,4       | 58,3   | 1,6    | mg/l   | 99%      |
| Orthophosphate     | 0,061        | 0,001     |        |        | mg/l   |          |
| Boron              | 0,0544       | 0,0004    |        |        | mg/l   |          |
| DOC                | 4,88         | 0,05      |        |        | mg/l   |          |
| Total P (as PO4)   | 0,187        | 0,003     |        |        | mg/l   |          |
| KMnO4-Index        | 5,64         | 0,15      |        |        | mg/l   |          |



Sample N167A

Laboratory T

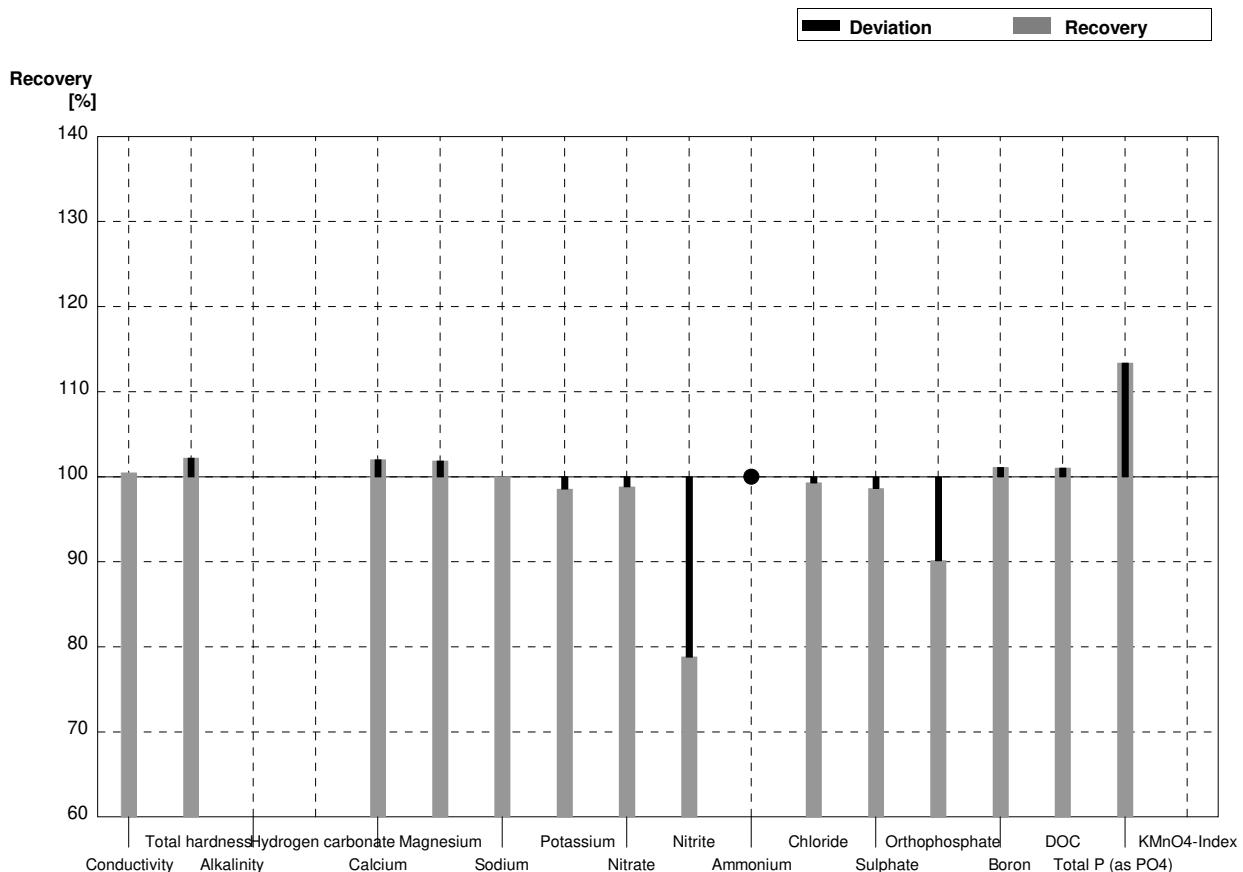
| Parameter                     | Target value | $\pm$ U (k=2) | Result | $\pm$  | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|--------|-------------------------|----------|
| Conductivity                  | 544          | 2             | 548    | 27,4   | $\mu\text{S}/\text{cm}$ | 101%     |
| Total hardness                | 1,94         | 0,02          | 1,97   | 0,300  | $\text{mmol/l}$         | 102%     |
| Alkalinity                    | 2,36         | 0,03          |        |        | $\text{mmol/l}$         |          |
| Hydrogen carbonate            | 140,9        | 1,7           |        |        | $\text{mg/l}$           |          |
| Calcium                       | 60,1         | 0,9           | 61,1   | 9,17   | $\text{mg/l}$           | 102%     |
| Magnesium                     | 10,79        | 0,14          | 10,8   | 1,08   | $\text{mg/l}$           | 100%     |
| Sodium                        | 24,9         | 0,3           | 25,2   | 3,78   | $\text{mg/l}$           | 101%     |
| Potassium                     | 8,81         | 0,06          | 8,73   | 1,31   | $\text{mg/l}$           | 99%      |
| Nitrate                       | 37,2         | 0,7           | 36,7   | 3,67   | $\text{mg/l}$           | 99%      |
| Nitrite                       | 0,0404       | 0,0009        | 0,0360 | 0,0018 | $\text{mg/l}$           | 89%      |
| Ammonium                      | 0,070        | 0,004         | 0,072  | 0,0072 | $\text{mg/l}$           | 103%     |
| Chloride                      | 54,8         | 1,2           | 54,6   | 5,46   | $\text{mg/l}$           | 100%     |
| Sulphate                      | 34,7         | 0,4           | 34,2   | 3,42   | $\text{mg/l}$           | 99%      |
| Orthophosphate                | <0,009       |               | <0,046 |        | $\text{mg/l}$           | •        |
| Boron                         | 0,1265       | 0,0012        | 0,125  | 0,0063 | $\text{mg/l}$           | 99%      |
| DOC                           | 1,89         | 0,04          | 2,06   | 0,412  | $\text{mg/l}$           | 109%     |
| Total P (as PO <sub>4</sub> ) | <0,009       |               | <0,015 |        | $\text{mg/l}$           | •        |
| KMnO <sub>4</sub> -Index      | 3,51         | 0,12          |        |        | $\text{mg/l}$           |          |



Sample N167B

Laboratory T

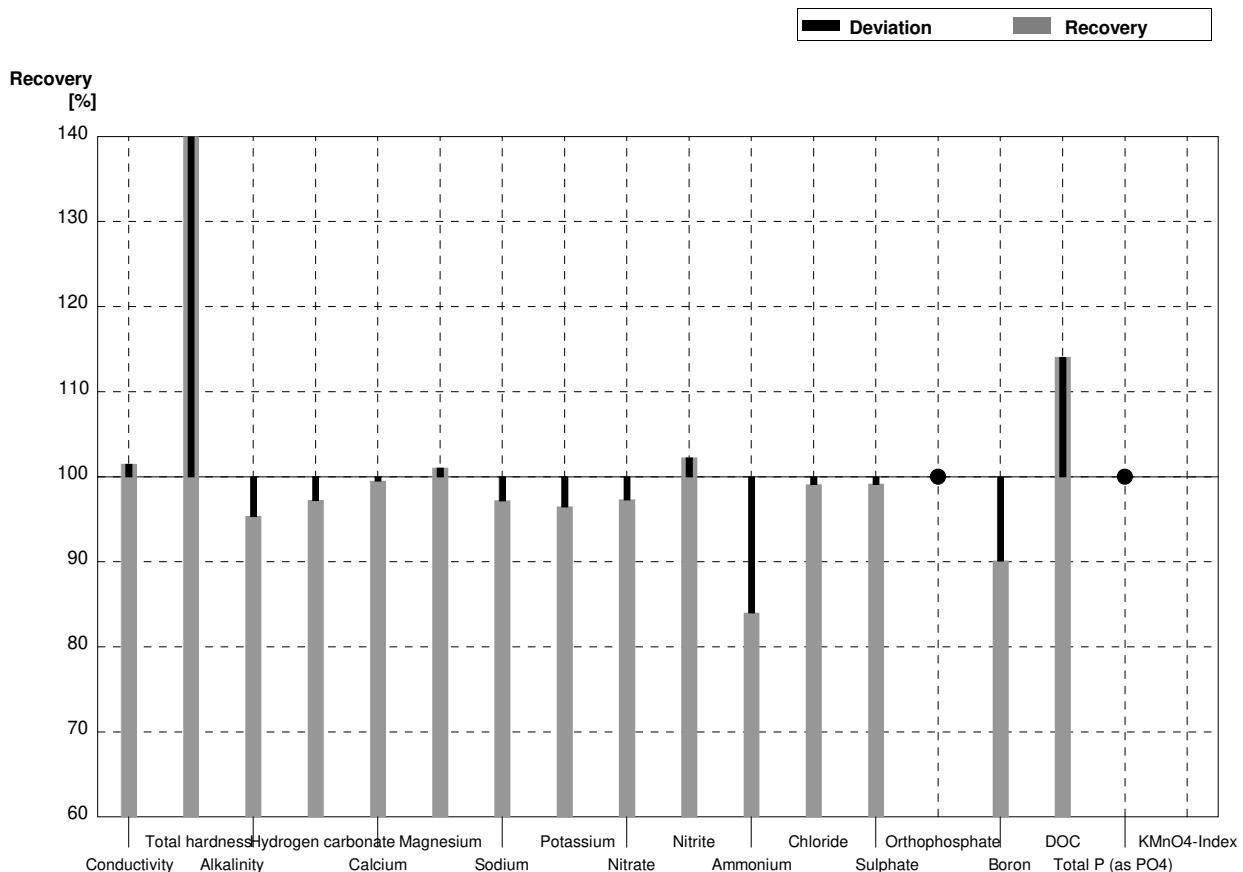
| Parameter          | Target value | ± U (k=2) | Result | ±      | Unit   | Recovery |
|--------------------|--------------|-----------|--------|--------|--------|----------|
| Conductivity       | 444          | 1         | 446    | 22,3   | µS/cm  | 100%     |
| Total hardness     | 1,321        | 0,015     | 1,35   | 0,203  | mmol/l | 102%     |
| Alkalinity         | 1,294        | 0,018     |        |        | mmol/l |          |
| Hydrogen carbonate | 75,9         | 1,1       |        |        | mg/l   |          |
| Calcium            | 39,6         | 0,6       | 40,4   | 6,06   | mg/l   | 102%     |
| Magnesium          | 8,07         | 0,10      | 8,22   | 0,822  | mg/l   | 102%     |
| Sodium             | 30,8         | 0,2       | 30,8   | 4,62   | mg/l   | 100%     |
| Potassium          | 6,98         | 0,04      | 6,88   | 1,03   | mg/l   | 99%      |
| Nitrate            | 51,3         | 1,2       | 50,7   | 5,07   | mg/l   | 99%      |
| Nitrite            | 0,0203       | 0,0018    | 0,0160 | 0,0008 | mg/l   | 79%      |
| Ammonium           | <0,01        |           | <0,01  |        | mg/l   | •        |
| Chloride           | 28,6         | 0,4       | 28,4   | 2,84   | mg/l   | 99%      |
| Sulphate           | 58,9         | 0,4       | 58,1   | 5,81   | mg/l   | 99%      |
| Orthophosphate     | 0,061        | 0,001     | 0,055  | 0,0083 | mg/l   | 90%      |
| Boron              | 0,0544       | 0,0004    | 0,055  | 0,0028 | mg/l   | 101%     |
| DOC                | 4,88         | 0,05      | 4,93   | 0,986  | mg/l   | 101%     |
| Total P (as PO4)   | 0,187        | 0,003     | 0,212  | 0,042  | mg/l   | 113%     |
| KMnO4-Index        | 5,64         | 0,15      |        |        | mg/l   |          |



Sample N167A

Laboratory U

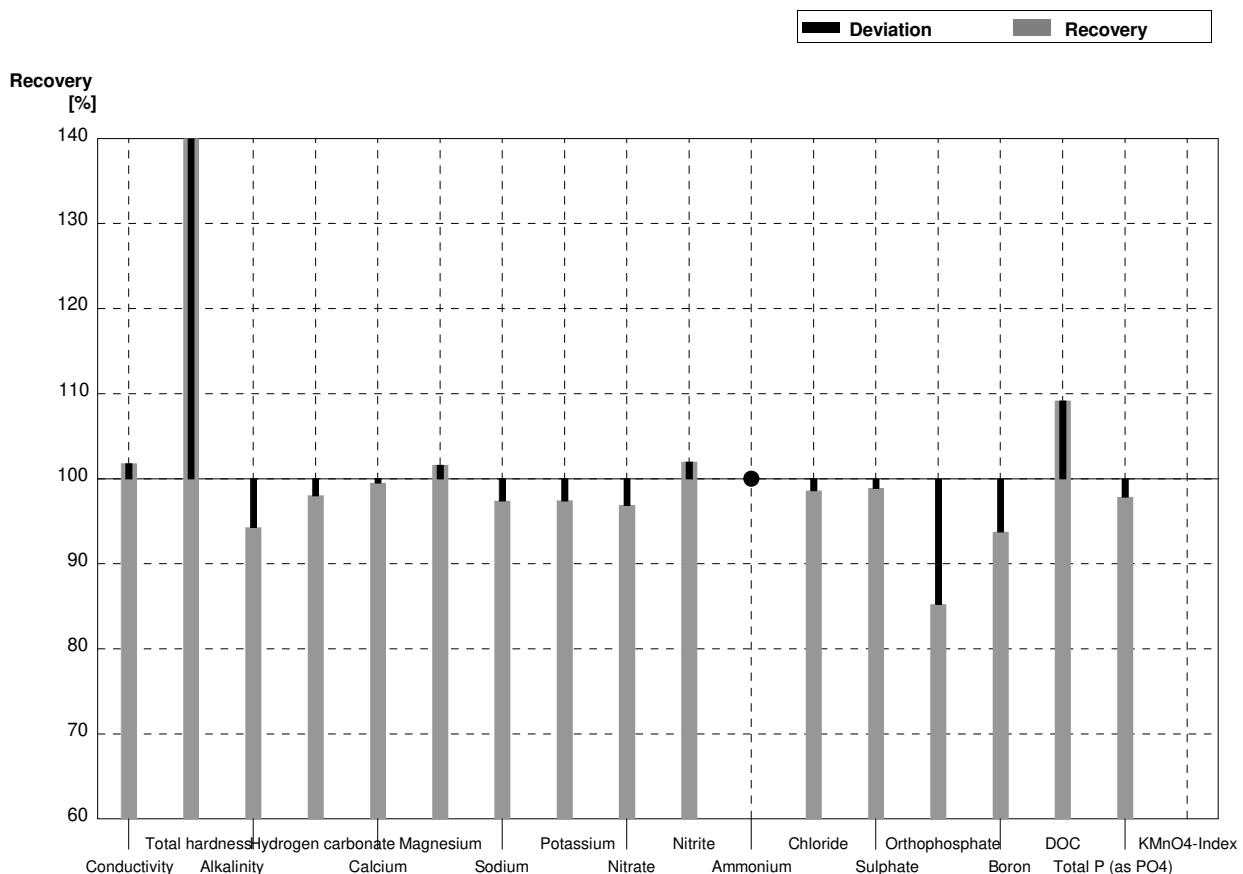
| Parameter          | Target value | ± U (k=2) | Result | ±      | Unit   | Recovery |
|--------------------|--------------|-----------|--------|--------|--------|----------|
| Conductivity       | 544          | 2         | 552    | 16,0   | µS/cm  | 101%     |
| Total hardness     | 1,94         | 0,02      | 3,88   |        | mmol/l | 200%     |
| Alkalinity         | 2,36         | 0,03      | 2,25   | 0,1125 | mmol/l | 95%      |
| Hydrogen carbonate | 140,9        | 1,7       | 137    |        | mg/l   | 97%      |
| Calcium            | 60,1         | 0,9       | 59,8   | 8,97   | mg/l   | 100%     |
| Magnesium          | 10,79        | 0,14      | 10,9   | 1,635  | mg/l   | 101%     |
| Sodium             | 24,9         | 0,3       | 24,2   | 3,63   | mg/l   | 97%      |
| Potassium          | 8,81         | 0,06      | 8,5    | 1,275  | mg/l   | 96%      |
| Nitrate            | 37,2         | 0,7       | 36,2   | 5,43   | mg/l   | 97%      |
| Nitrite            | 0,0404       | 0,0009    | 0,0413 | 0,0083 | mg/l   | 102%     |
| Ammonium           | 0,070        | 0,004     | 0,0588 | 0,0059 | mg/l   | 84%      |
| Chloride           | 54,8         | 1,2       | 54,3   | 8,145  | mg/l   | 99%      |
| Sulphate           | 34,7         | 0,4       | 34,4   | 5,16   | mg/l   | 99%      |
| Orthophosphate     | <0,009       |           | <0,03  |        | mg/l   | •        |
| Boron              | 0,1265       | 0,0012    | 0,114  | 0,04   | mg/l   | 90%      |
| DOC                | 1,89         | 0,04      | 2,156  | 0,5395 | mg/l   | 114%     |
| Total P (as PO4)   | <0,009       |           | <0,03  |        | mg/l   | •        |
| KMnO4-Index        | 3,51         | 0,12      |        |        | mg/l   |          |



Sample N167B

Laboratory U

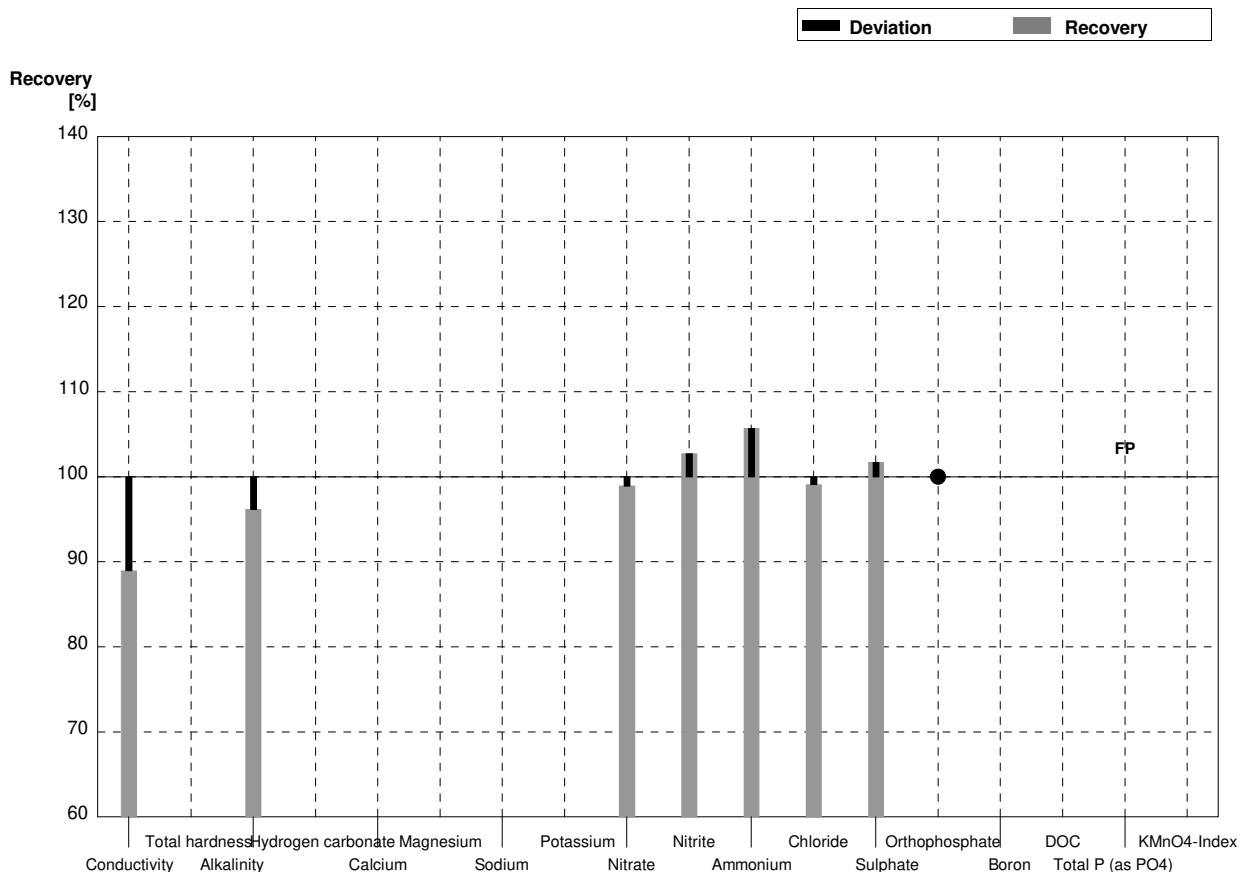
| Parameter          | Target value | ± U (k=2) | Result | ±      | Unit   | Recovery |
|--------------------|--------------|-----------|--------|--------|--------|----------|
| Conductivity       | 444          | 1         | 452    | 13,1   | µS/cm  | 102%     |
| Total hardness     | 1,321        | 0,015     | 2,64   |        | mmol/l | 200%     |
| Alkalinity         | 1,294        | 0,018     | 1,22   | 0,061  | mmol/l | 94%      |
| Hydrogen carbonate | 75,9         | 1,1       | 74,4   |        | mg/l   | 98%      |
| Calcium            | 39,6         | 0,6       | 39,4   | 5,91   | mg/l   | 99%      |
| Magnesium          | 8,07         | 0,10      | 8,2    | 1,23   | mg/l   | 102%     |
| Sodium             | 30,8         | 0,2       | 30,0   | 4,5    | mg/l   | 97%      |
| Potassium          | 6,98         | 0,04      | 6,8    | 1,02   | mg/l   | 97%      |
| Nitrate            | 51,3         | 1,2       | 49,7   | 7,455  | mg/l   | 97%      |
| Nitrite            | 0,0203       | 0,0018    | 0,0207 | 0,0041 | mg/l   | 102%     |
| Ammonium           | <0,01        |           | <0,01  |        | mg/l   | •        |
| Chloride           | 28,6         | 0,4       | 28,2   | 4,23   | mg/l   | 99%      |
| Sulphate           | 58,9         | 0,4       | 58,25  | 8,738  | mg/l   | 99%      |
| Orthophosphate     | 0,061        | 0,001     | 0,052  | 0,006  | mg/l   | 85%      |
| Boron              | 0,0544       | 0,0004    | 0,051  | 0,02   | mg/l   | 94%      |
| DOC                | 4,88         | 0,05      | 5,327  | 1,332  | mg/l   | 109%     |
| Total P (as PO4)   | 0,187        | 0,003     | 0,183  | 0,022  | mg/l   | 98%      |
| KMnO4-Index        | 5,64         | 0,15      |        |        | mg/l   |          |



Sample N167A

Laboratory V

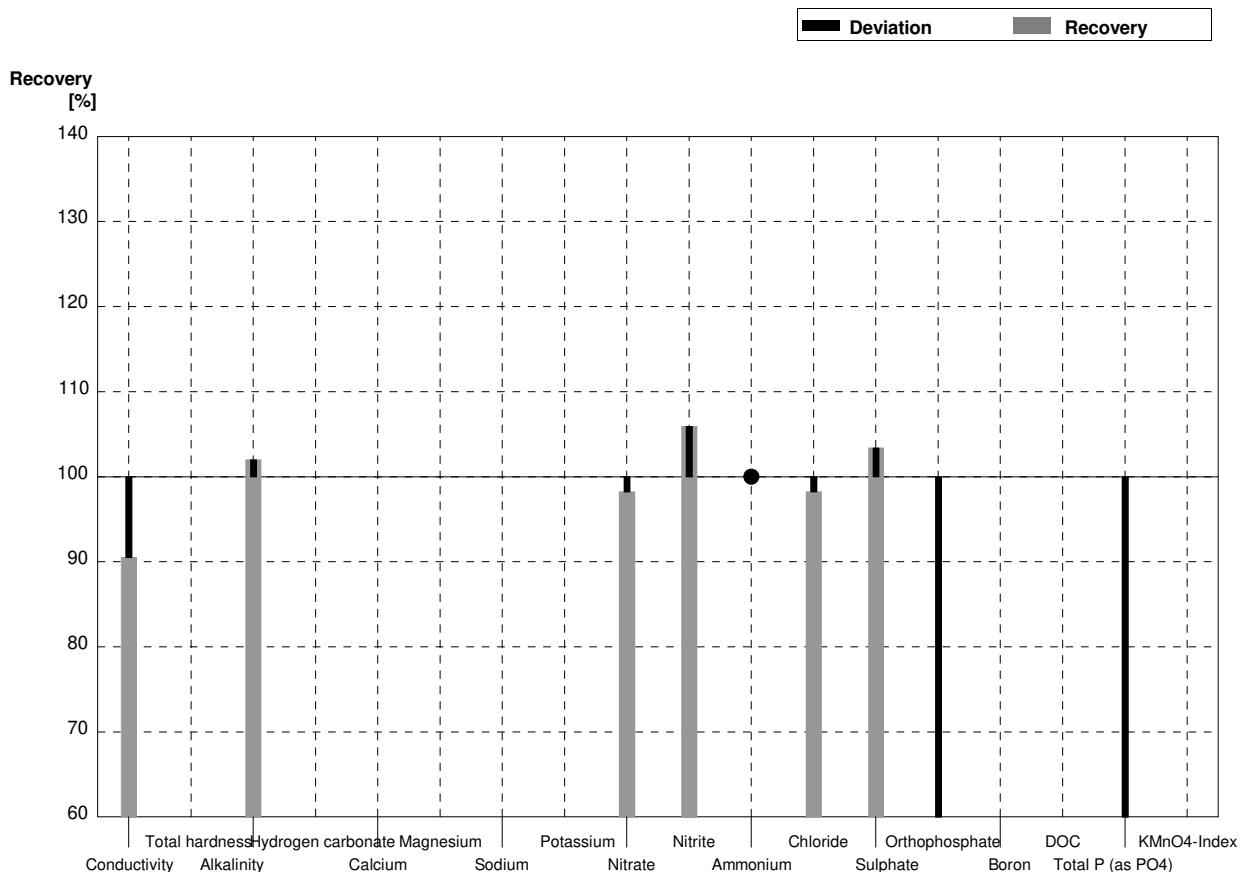
| Parameter          | Target value | ± U (k=2) | Result | ±     | Unit   | Recovery |
|--------------------|--------------|-----------|--------|-------|--------|----------|
| Conductivity       | 544          | 2         | 484    |       | µS/cm  | 89%      |
| Total hardness     | 1,94         | 0,02      |        |       | mmol/l |          |
| Alkalinity         | 2,36         | 0,03      | 2,27   |       | mmol/l | 96%      |
| Hydrogen carbonate | 140,9        | 1,7       |        |       | mg/l   |          |
| Calcium            | 60,1         | 0,9       |        |       | mg/l   |          |
| Magnesium          | 10,79        | 0,14      |        |       | mg/l   |          |
| Sodium             | 24,9         | 0,3       |        |       | mg/l   |          |
| Potassium          | 8,81         | 0,06      |        |       | mg/l   |          |
| Nitrate            | 37,2         | 0,7       | 36,8   | 0,828 | mg/l   | 99%      |
| Nitrite            | 0,0404       | 0,0009    | 0,0415 | 0,002 | mg/l   | 103%     |
| Ammonium           | 0,070        | 0,004     | 0,074  | 0,002 | mg/l   | 106%     |
| Chloride           | 54,8         | 1,2       | 54,3   | 1,41  | mg/l   | 99%      |
| Sulphate           | 34,7         | 0,4       | 35,3   |       | mg/l   | 102%     |
| Orthophosphate     | <0,009       |           | <0,01  |       | mg/l   | •        |
| Boron              | 0,1265       | 0,0012    |        |       | mg/l   |          |
| DOC                | 1,89         | 0,04      |        |       | mg/l   |          |
| Total P (as PO4)   | <0,009       |           | 0,0195 |       | mg/l   | FP       |
| KMnO4-Index        | 3,51         | 0,12      |        |       | mg/l   |          |



Sample N167B

Laboratory V

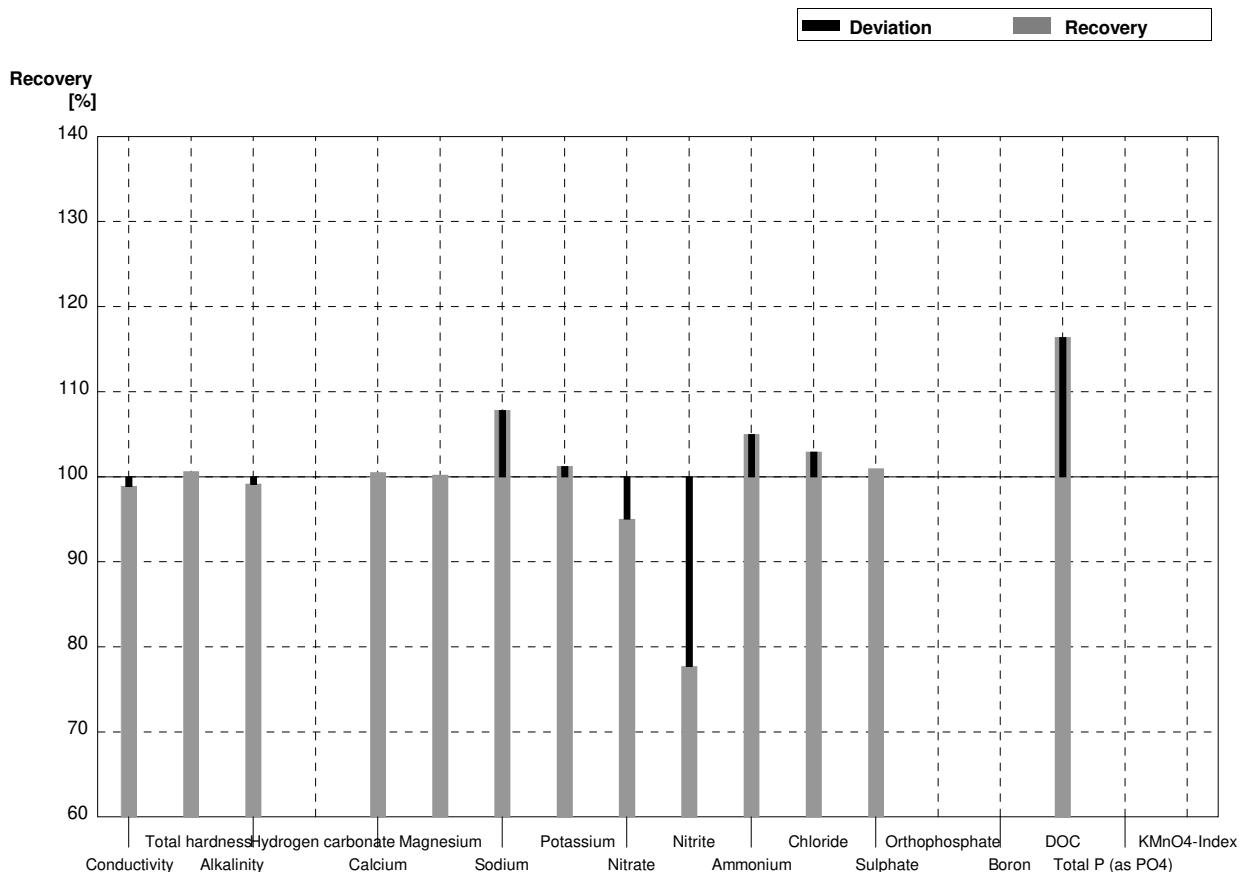
| Parameter          | Target value | ± U (k=2) | Result | ±     | Unit   | Recovery |
|--------------------|--------------|-----------|--------|-------|--------|----------|
| Conductivity       | 444          | 1         | 402    |       | µS/cm  | 91%      |
| Total hardness     | 1,321        | 0,015     |        |       | mmol/l |          |
| Alkalinity         | 1,294        | 0,018     | 1,32   |       | mmol/l | 102%     |
| Hydrogen carbonate | 75,9         | 1,1       |        |       | mg/l   |          |
| Calcium            | 39,6         | 0,6       |        |       | mg/l   |          |
| Magnesium          | 8,07         | 0,10      |        |       | mg/l   |          |
| Sodium             | 30,8         | 0,2       |        |       | mg/l   |          |
| Potassium          | 6,98         | 0,04      |        |       | mg/l   |          |
| Nitrate            | 51,3         | 1,2       | 50,4   | 1,13  | mg/l   | 98%      |
| Nitrite            | 0,0203       | 0,0018    | 0,0215 | 0,001 | mg/l   | 106%     |
| Ammonium           | <0,01        |           | <0,01  |       | mg/l   | •        |
| Chloride           | 28,6         | 0,4       | 28,1   | 0,73  | mg/l   | 98%      |
| Sulphate           | 58,9         | 0,4       | 60,9   |       | mg/l   | 103%     |
| Orthophosphate     | 0,061        | 0,001     | 0,0272 |       | mg/l   | 45%      |
| Boron              | 0,0544       | 0,0004    |        |       | mg/l   |          |
| DOC                | 4,88         | 0,05      |        |       | mg/l   |          |
| Total P (as PO4)   | 0,187        | 0,003     | 0,072  | 0,003 | mg/l   | 39%      |
| KMnO4-Index        | 5,64         | 0,15      |        |       | mg/l   |          |



Sample N167A

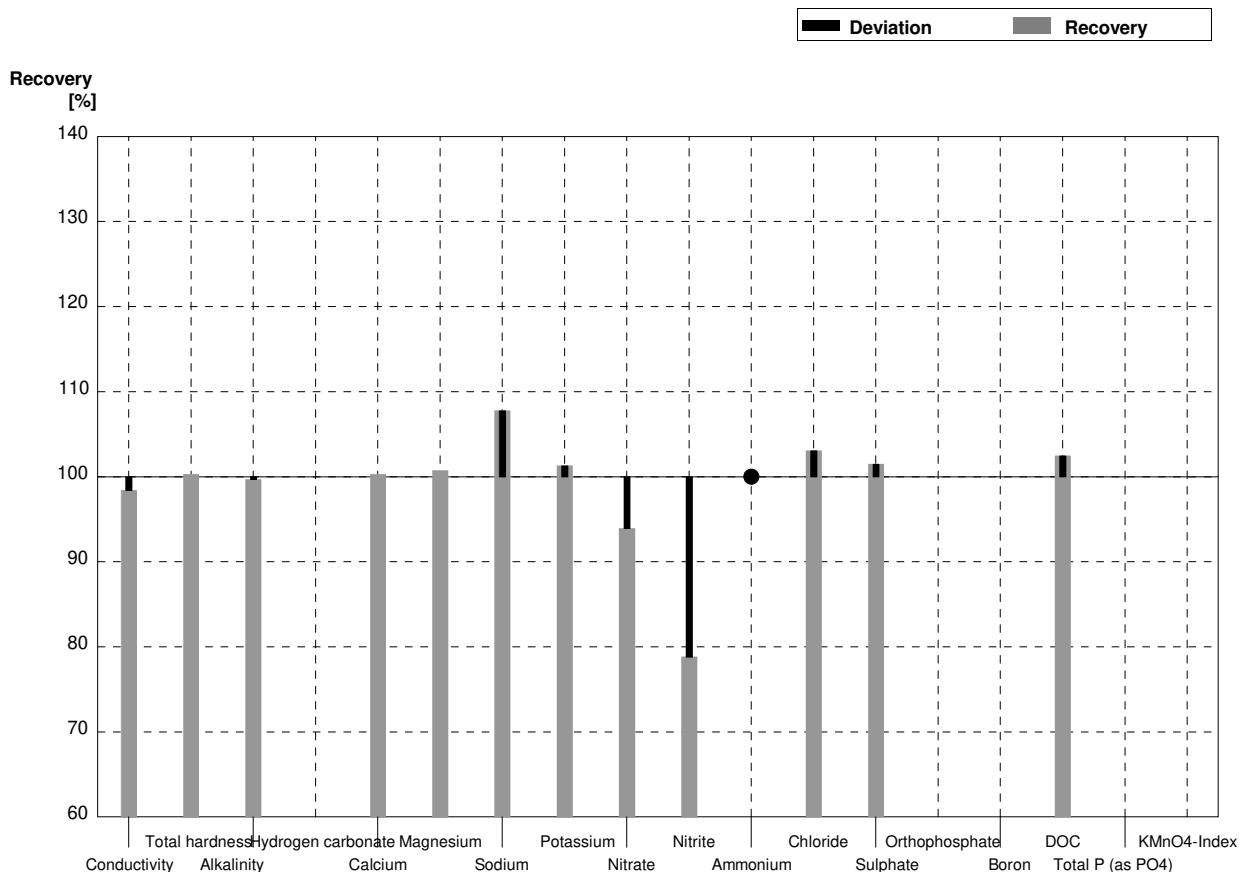
Laboratory W

| Parameter          | Target value | ± U (k=2) | Result | ±     | Unit   | Recovery |
|--------------------|--------------|-----------|--------|-------|--------|----------|
| Conductivity       | 544          | 2         | 538    | 30    | µS/cm  | 99%      |
| Total hardness     | 1,94         | 0,02      | 1,952  | 0,05  | mmol/l | 101%     |
| Alkalinity         | 2,36         | 0,03      | 2,34   | 0,02  | mmol/l | 99%      |
| Hydrogen carbonate | 140,9        | 1,7       |        |       | mg/l   |          |
| Calcium            | 60,1         | 0,9       | 60,40  | 0,6   | mg/l   | 100%     |
| Magnesium          | 10,79        | 0,14      | 10,81  | 0,6   | mg/l   | 100%     |
| Sodium             | 24,9         | 0,3       | 26,84  | 0,3   | mg/l   | 108%     |
| Potassium          | 8,81         | 0,06      | 8,92   | 0,06  | mg/l   | 101%     |
| Nitrate            | 37,2         | 0,7       | 35,35  | 0,5   | mg/l   | 95%      |
| Nitrite            | 0,0404       | 0,0009    | 0,0314 | 0,015 | mg/l   | 78%      |
| Ammonium           | 0,070        | 0,004     | 0,0735 | 0,080 | mg/l   | 105%     |
| Chloride           | 54,8         | 1,2       | 56,40  | 0,25  | mg/l   | 103%     |
| Sulphate           | 34,7         | 0,4       | 35,04  | 3,0   | mg/l   | 101%     |
| Orthophosphate     | <0,009       |           |        |       | mg/l   |          |
| Boron              | 0,1265       | 0,0012    |        |       | mg/l   |          |
| DOC                | 1,89         | 0,04      | 2,20   | 0,03  | mg/l   | 116%     |
| Total P (as PO4)   | <0,009       |           |        |       | mg/l   |          |
| KMnO4-Index        | 3,51         | 0,12      |        |       | mg/l   |          |



**Sample N167B**  
**Laboratory W**

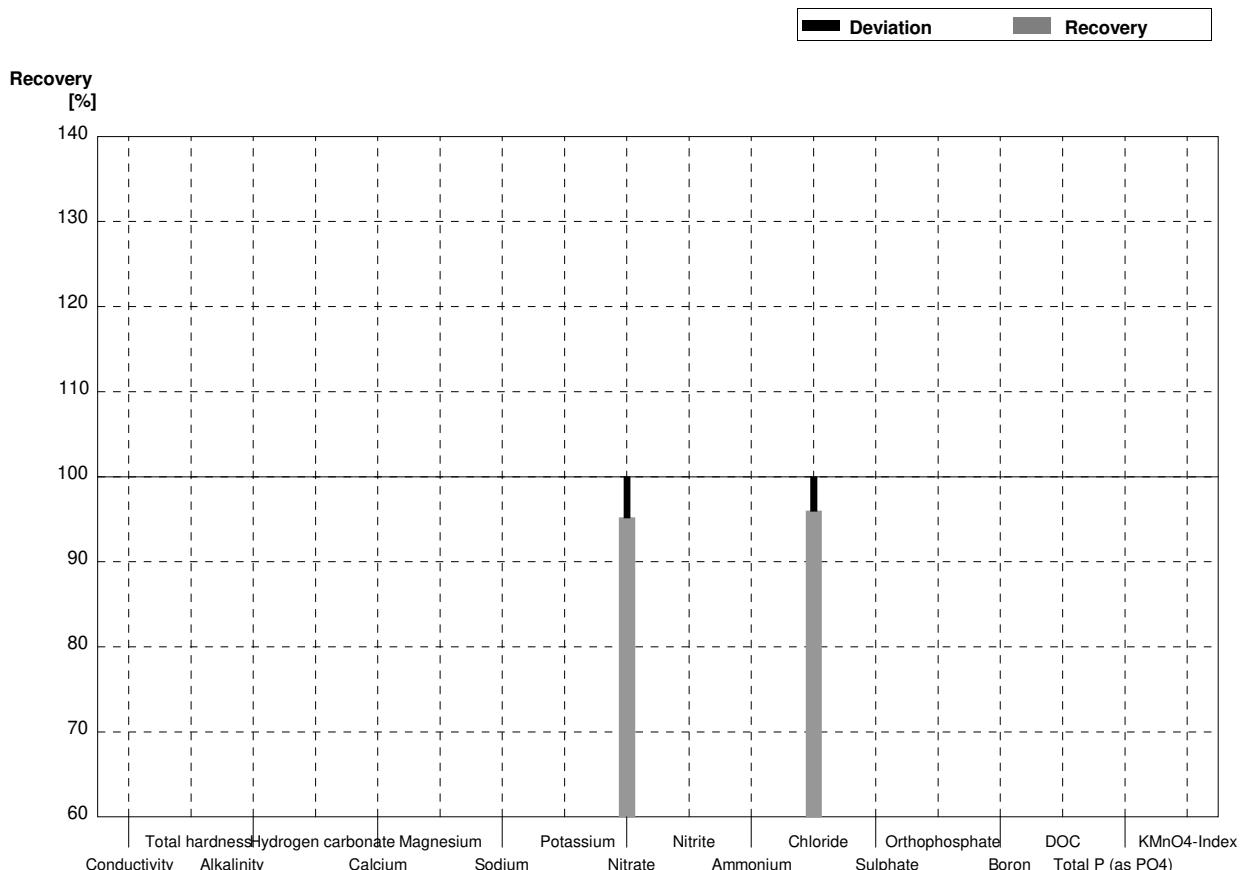
| Parameter          | Target value | $\pm$ U (k=2) | Result | $\pm$ | Unit                    | Recovery |
|--------------------|--------------|---------------|--------|-------|-------------------------|----------|
| Conductivity       | 444          | 1             | 437    | 30    | $\mu\text{S}/\text{cm}$ | 98%      |
| Total hardness     | 1,321        | 0,015         | 1,325  | 0,05  | mmol/l                  | 100%     |
| Alkalinity         | 1,294        | 0,018         | 1,29   | 0,02  | mmol/l                  | 100%     |
| Hydrogen carbonate | 75,9         | 1,1           |        |       | mg/l                    |          |
| Calcium            | 39,6         | 0,6           | 39,71  | 0,6   | mg/l                    | 100%     |
| Magnesium          | 8,07         | 0,10          | 8,13   | 0,6   | mg/l                    | 101%     |
| Sodium             | 30,8         | 0,2           | 33,19  | 0,3   | mg/l                    | 108%     |
| Potassium          | 6,98         | 0,04          | 7,07   | 0,06  | mg/l                    | 101%     |
| Nitrate            | 51,3         | 1,2           | 48,19  | 0,5   | mg/l                    | 94%      |
| Nitrite            | 0,0203       | 0,0018        | 0,0160 | 0,015 | mg/l                    | 79%      |
| Ammonium           | <0,01        |               | <0,03  | 0,080 | mg/l                    | •        |
| Chloride           | 28,6         | 0,4           | 29,48  | 0,25  | mg/l                    | 103%     |
| Sulphate           | 58,9         | 0,4           | 59,78  | 3,0   | mg/l                    | 101%     |
| Orthophosphate     | 0,061        | 0,001         |        |       | mg/l                    |          |
| Boron              | 0,0544       | 0,0004        |        |       | mg/l                    |          |
| DOC                | 4,88         | 0,05          | 5,00   | 0,03  | mg/l                    | 102%     |
| Total P (as PO4)   | 0,187        | 0,003         |        |       | mg/l                    |          |
| KMnO4-Index        | 5,64         | 0,15          |        |       | mg/l                    |          |



Sample N167A

Laboratory X

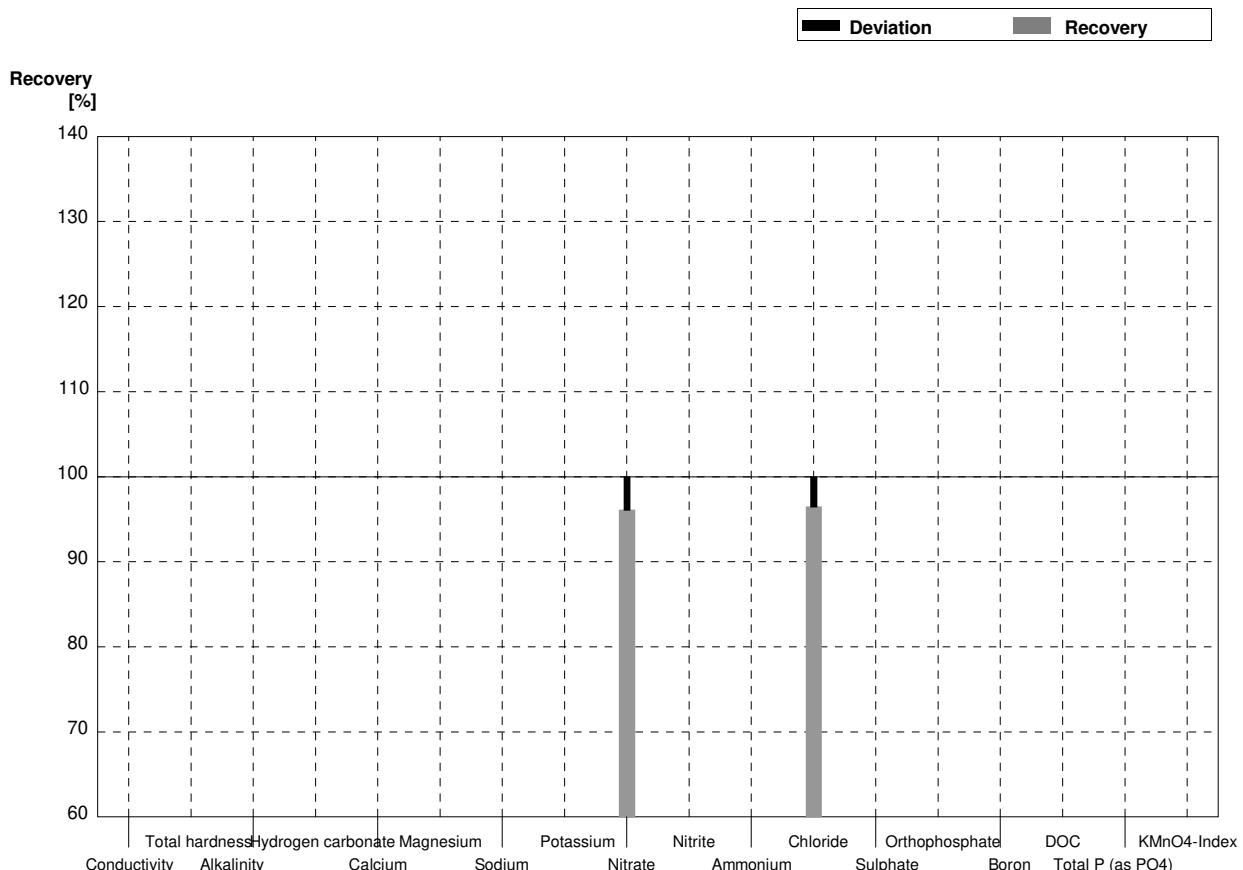
| Parameter          | Target value | ± U (k=2) | Result | ±   | Unit   | Recovery |
|--------------------|--------------|-----------|--------|-----|--------|----------|
| Conductivity       | 544          | 2         |        |     | µS/cm  |          |
| Total hardness     | 1,94         | 0,02      |        |     | mmol/l |          |
| Alkalinity         | 2,36         | 0,03      |        |     | mmol/l |          |
| Hydrogen carbonate | 140,9        | 1,7       |        |     | mg/l   |          |
| Calcium            | 60,1         | 0,9       |        |     | mg/l   |          |
| Magnesium          | 10,79        | 0,14      |        |     | mg/l   |          |
| Sodium             | 24,9         | 0,3       |        |     | mg/l   |          |
| Potassium          | 8,81         | 0,06      |        |     | mg/l   |          |
| Nitrate            | 37,2         | 0,7       | 35,41  | 0,5 | mg/l   | 95%      |
| Nitrite            | 0,0404       | 0,0009    |        |     | mg/l   |          |
| Ammonium           | 0,070        | 0,004     |        |     | mg/l   |          |
| Chloride           | 54,8         | 1,2       | 52,6   | 0,6 | mg/l   | 96%      |
| Sulphate           | 34,7         | 0,4       |        |     | mg/l   |          |
| Orthophosphate     | <0,009       |           |        |     | mg/l   |          |
| Boron              | 0,1265       | 0,0012    |        |     | mg/l   |          |
| DOC                | 1,89         | 0,04      |        |     | mg/l   |          |
| Total P (as PO4)   | <0,009       |           |        |     | mg/l   |          |
| KMnO4-Index        | 3,51         | 0,12      |        |     | mg/l   |          |



Sample N167B

Laboratory X

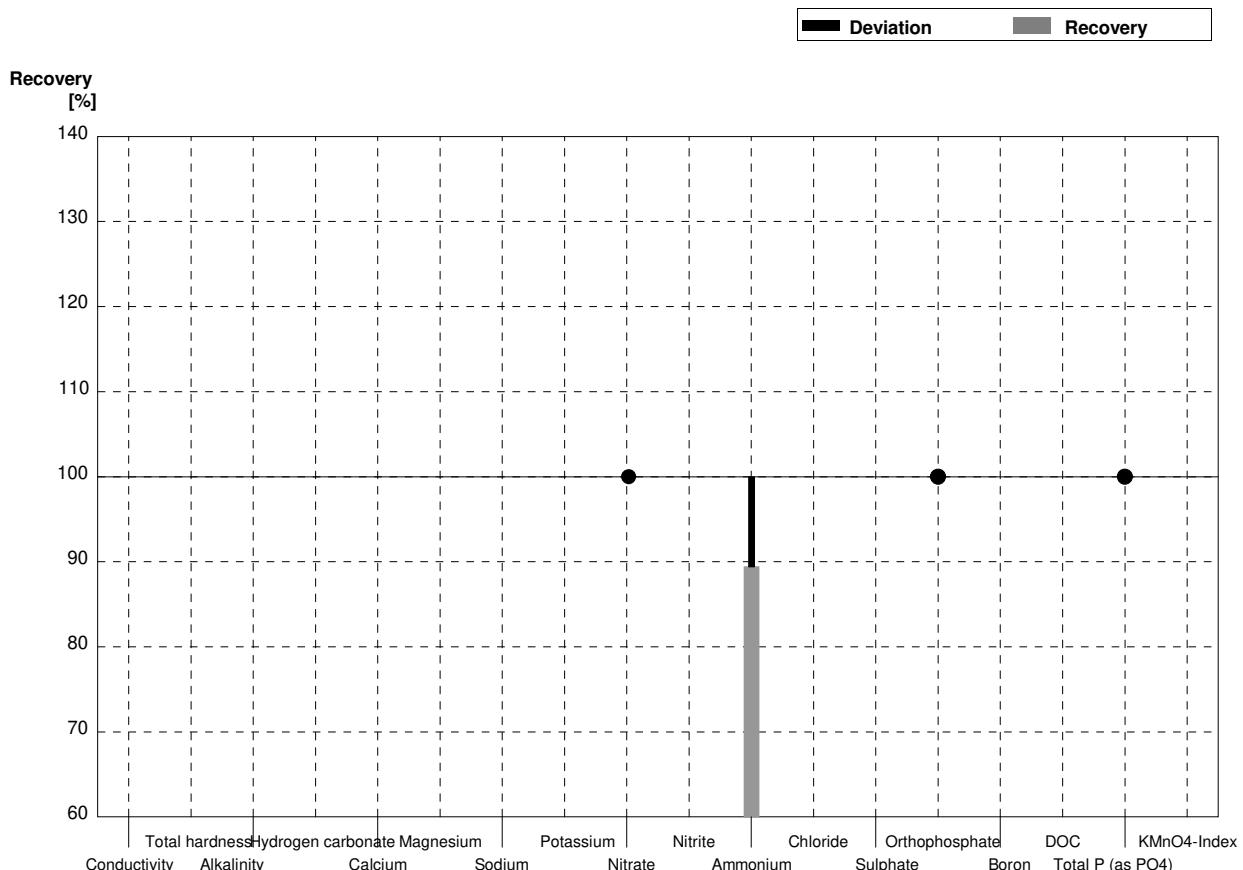
| Parameter          | Target value | ± U (k=2) | Result | ±   | Unit   | Recovery |
|--------------------|--------------|-----------|--------|-----|--------|----------|
| Conductivity       | 444          | 1         |        |     | µS/cm  |          |
| Total hardness     | 1,321        | 0,015     |        |     | mmol/l |          |
| Alkalinity         | 1,294        | 0,018     |        |     | mmol/l |          |
| Hydrogen carbonate | 75,9         | 1,1       |        |     | mg/l   |          |
| Calcium            | 39,6         | 0,6       |        |     | mg/l   |          |
| Magnesium          | 8,07         | 0,10      |        |     | mg/l   |          |
| Sodium             | 30,8         | 0,2       |        |     | mg/l   |          |
| Potassium          | 6,98         | 0,04      |        |     | mg/l   |          |
| Nitrate            | 51,3         | 1,2       | 49,3   | 0,5 | mg/l   | 96%      |
| Nitrite            | 0,0203       | 0,0018    |        |     | mg/l   |          |
| Ammonium           | <0,01        |           |        |     | mg/l   |          |
| Chloride           | 28,6         | 0,4       | 27,59  | 0,3 | mg/l   | 96%      |
| Sulphate           | 58,9         | 0,4       |        |     | mg/l   |          |
| Orthophosphate     | 0,061        | 0,001     |        |     | mg/l   |          |
| Boron              | 0,0544       | 0,0004    |        |     | mg/l   |          |
| DOC                | 4,88         | 0,05      |        |     | mg/l   |          |
| Total P (as PO4)   | 0,187        | 0,003     |        |     | mg/l   |          |
| KMnO4-Index        | 5,64         | 0,15      |        |     | mg/l   |          |



Sample N167A

Laboratory Y

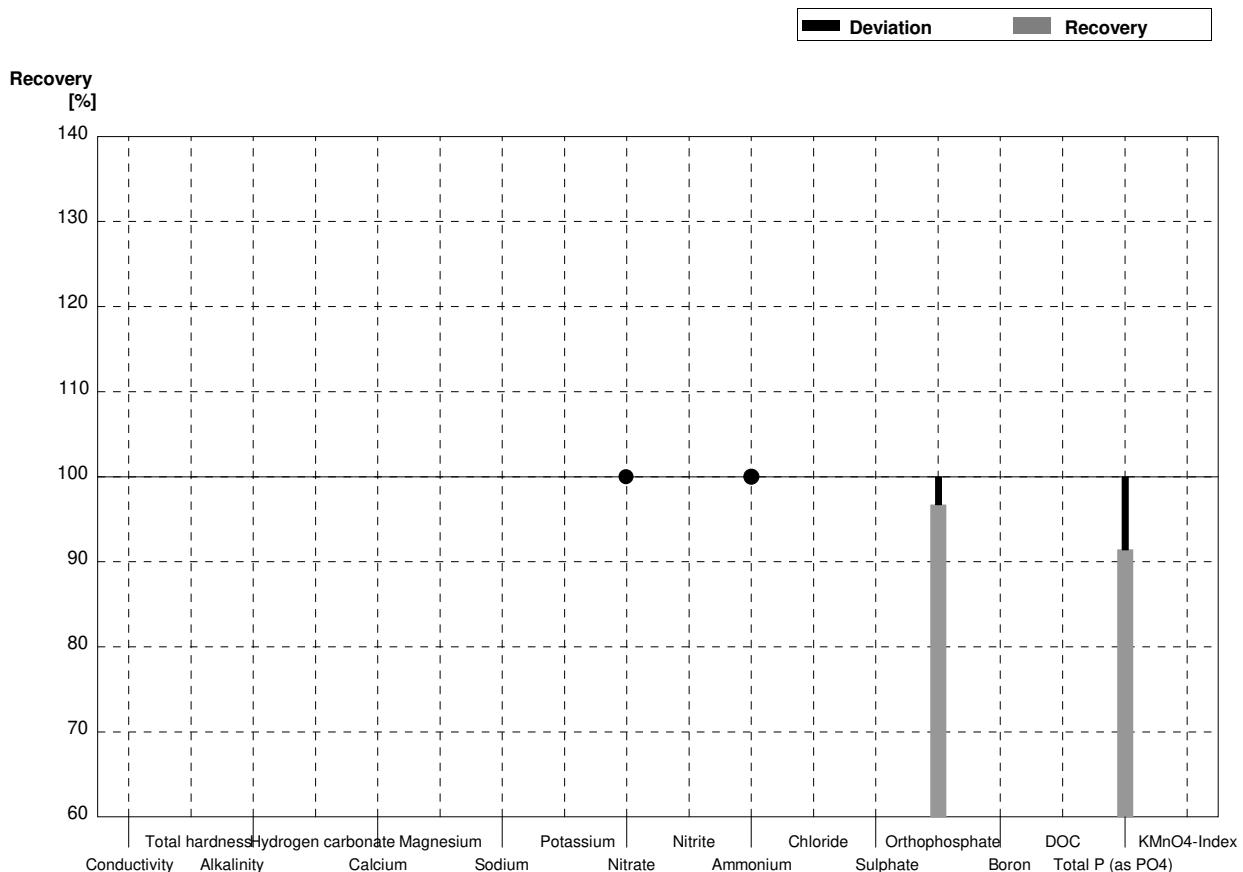
| Parameter          | Target value | ± U (k=2) | Result | ±       | Unit   | Recovery |
|--------------------|--------------|-----------|--------|---------|--------|----------|
| Conductivity       | 544          | 2         |        |         | µS/cm  |          |
| Total hardness     | 1,94         | 0,02      |        |         | mmol/l |          |
| Alkalinity         | 2,36         | 0,03      |        |         | mmol/l |          |
| Hydrogen carbonate | 140,9        | 1,7       |        |         | mg/l   |          |
| Calcium            | 60,1         | 0,9       |        |         | mg/l   |          |
| Magnesium          | 10,79        | 0,14      |        |         | mg/l   |          |
| Sodium             | 24,9         | 0,3       |        |         | mg/l   |          |
| Potassium          | 8,81         | 0,06      |        |         | mg/l   |          |
| Nitrate            | 37,2         | 0,7       | >30    |         | mg/l   | •        |
| Nitrite            | 0,0404       | 0,0009    |        |         | mg/l   |          |
| Ammonium           | 0,070        | 0,004     | 0,0626 | 0,00150 | mg/l   | 89%      |
| Chloride           | 54,8         | 1,2       |        |         | mg/l   |          |
| Sulphate           | 34,7         | 0,4       |        |         | mg/l   |          |
| Orthophosphate     | <0,009       |           | <0,019 |         | mg/l   | •        |
| Boron              | 0,1265       | 0,0012    |        |         | mg/l   |          |
| DOC                | 1,89         | 0,04      |        |         | mg/l   |          |
| Total P (as PO4)   | <0,009       |           | <0,02  |         | mg/l   | •        |
| KMnO4-Index        | 3,51         | 0,12      |        |         | mg/l   |          |



Sample N167B

Laboratory Y

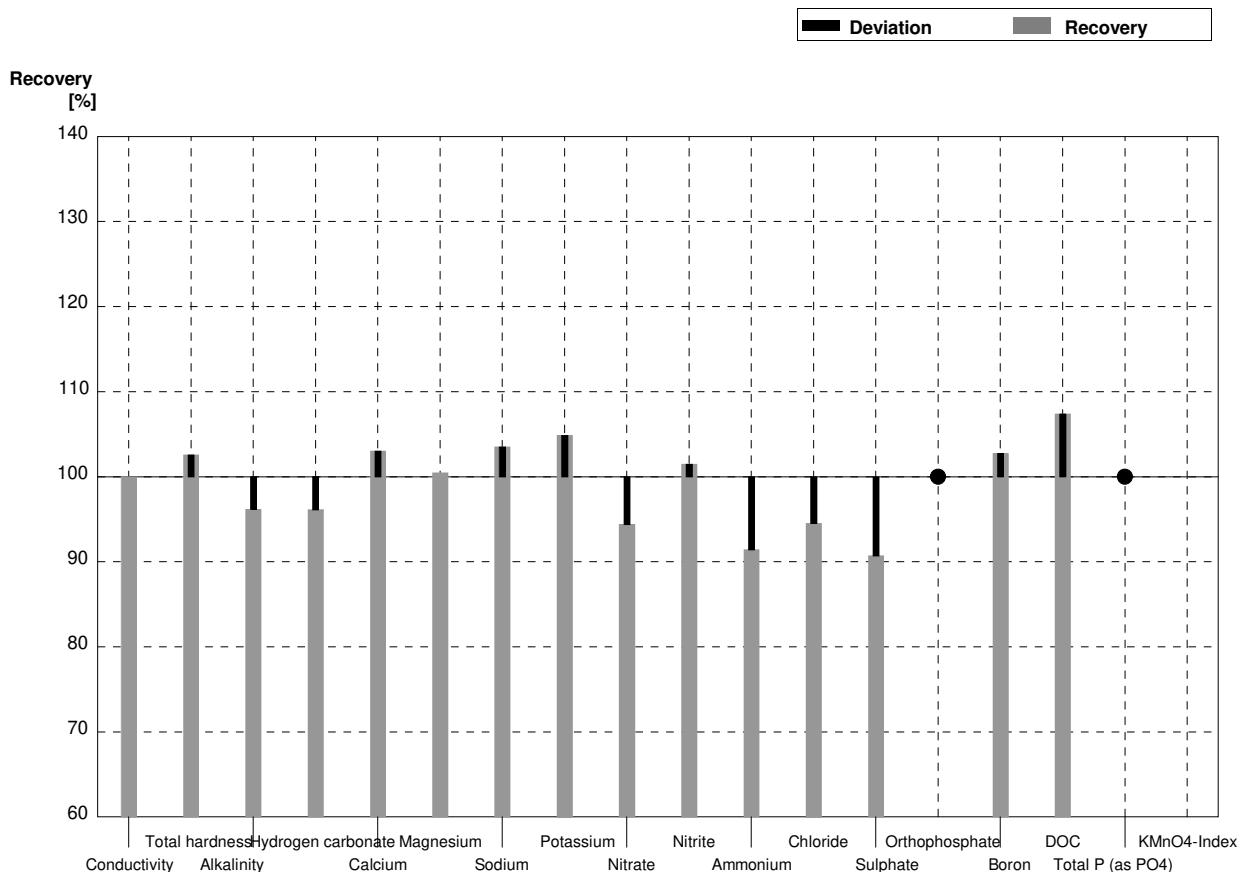
| Parameter          | Target value | ± U (k=2) | Result | ±       | Unit   | Recovery |
|--------------------|--------------|-----------|--------|---------|--------|----------|
| Conductivity       | 444          | 1         |        |         | µS/cm  |          |
| Total hardness     | 1,321        | 0,015     |        |         | mmol/l |          |
| Alkalinity         | 1,294        | 0,018     |        |         | mmol/l |          |
| Hydrogen carbonate | 75,9         | 1,1       |        |         | mg/l   |          |
| Calcium            | 39,6         | 0,6       |        |         | mg/l   |          |
| Magnesium          | 8,07         | 0,10      |        |         | mg/l   |          |
| Sodium             | 30,8         | 0,2       |        |         | mg/l   |          |
| Potassium          | 6,98         | 0,04      |        |         | mg/l   |          |
| Nitrate            | 51,3         | 1,2       | >30    |         | mg/l   | •        |
| Nitrite            | 0,0203       | 0,0018    |        |         | mg/l   |          |
| Ammonium           | <0,01        |           | <0,01  |         | mg/l   | •        |
| Chloride           | 28,6         | 0,4       |        |         | mg/l   |          |
| Sulphate           | 58,9         | 0,4       |        |         | mg/l   |          |
| Orthophosphate     | 0,061        | 0,001     | 0,059  | 0,00120 | mg/l   | 97%      |
| Boron              | 0,0544       | 0,0004    |        |         | mg/l   |          |
| DOC                | 4,88         | 0,05      |        |         | mg/l   |          |
| Total P (as PO4)   | 0,187        | 0,003     | 0,171  | 0,0128  | mg/l   | 91%      |
| KMnO4-Index        | 5,64         | 0,15      |        |         | mg/l   |          |



Sample N167A

Laboratory Z

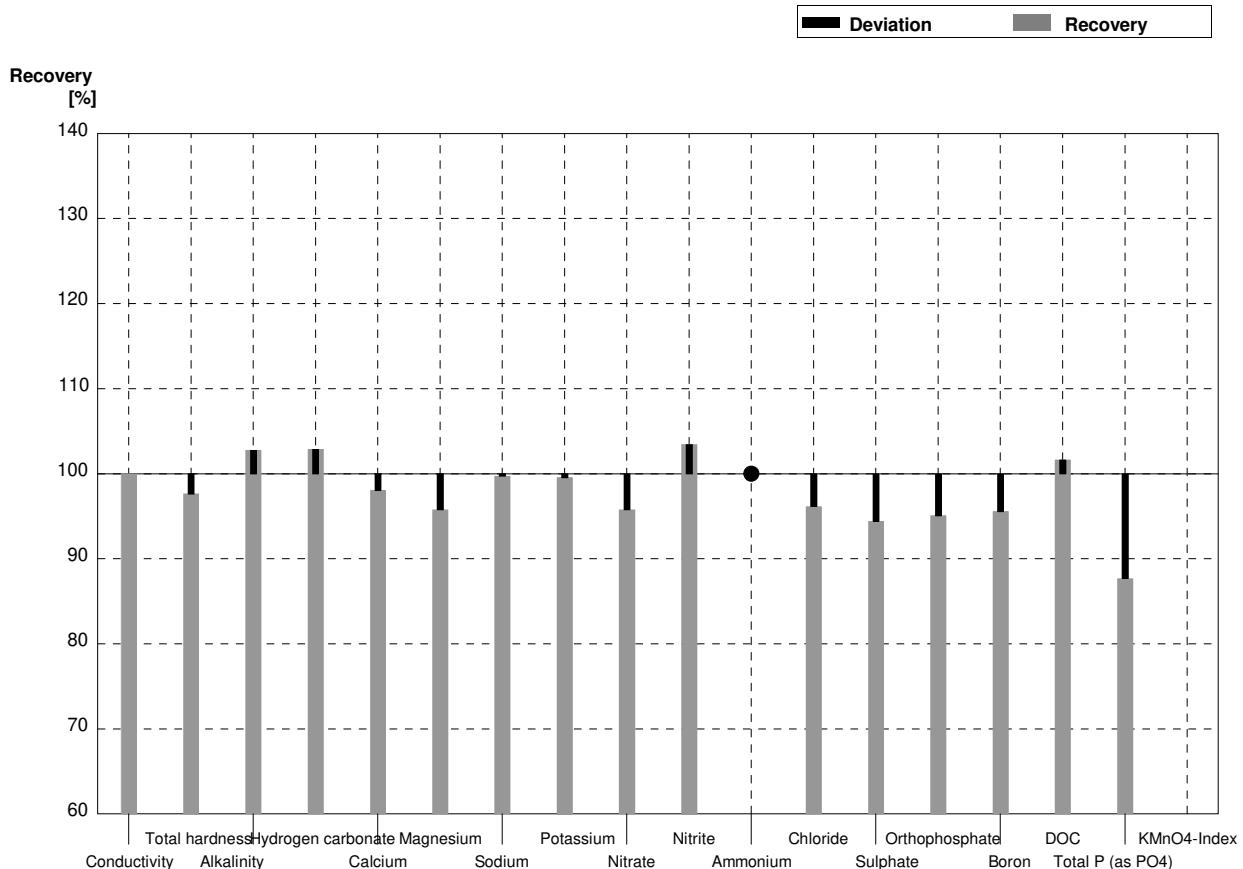
| Parameter          | Target value | ± U (k=2) | Result | ±      | Unit   | Recovery |
|--------------------|--------------|-----------|--------|--------|--------|----------|
| Conductivity       | 544          | 2         | 544    | 4,51   | µS/cm  | 100%     |
| Total hardness     | 1,94         | 0,02      | 1,99   |        | mmol/l | 103%     |
| Alkalinity         | 2,36         | 0,03      | 2,27   | 0,22   | mmol/l | 96%      |
| Hydrogen carbonate | 140,9        | 1,7       | 135,44 |        | mg/l   | 96%      |
| Calcium            | 60,1         | 0,9       | 61,93  | 6,1    | mg/l   | 103%     |
| Magnesium          | 10,79        | 0,14      | 10,84  | 1,0    | mg/l   | 100%     |
| Sodium             | 24,9         | 0,3       | 25,78  | 2,5    | mg/l   | 104%     |
| Potassium          | 8,81         | 0,06      | 9,24   | 0,9    | mg/l   | 105%     |
| Nitrate            | 37,2         | 0,7       | 35,12  | 3,5    | mg/l   | 94%      |
| Nitrite            | 0,0404       | 0,0009    | 0,0410 | 0,004  | mg/l   | 101%     |
| Ammonium           | 0,070        | 0,004     | 0,064  | 0,006  | mg/l   | 91%      |
| Chloride           | 54,8         | 1,2       | 51,80  | 5,2    | mg/l   | 95%      |
| Sulphate           | 34,7         | 0,4       | 31,48  | 3,1    | mg/l   | 91%      |
| Orthophosphate     | <0,009       |           | <0,001 |        | mg/l   | •        |
| Boron              | 0,1265       | 0,0012    | 0,130  | 0,0130 | mg/l   | 103%     |
| DOC                | 1,89         | 0,04      | 2,03   | 0,2    | mg/l   | 107%     |
| Total P (as PO4)   | <0,009       |           | <0,003 |        | mg/l   | •        |
| KMnO4-Index        | 3,51         | 0,12      |        |        | mg/l   |          |



Sample N167B

Laboratory Z

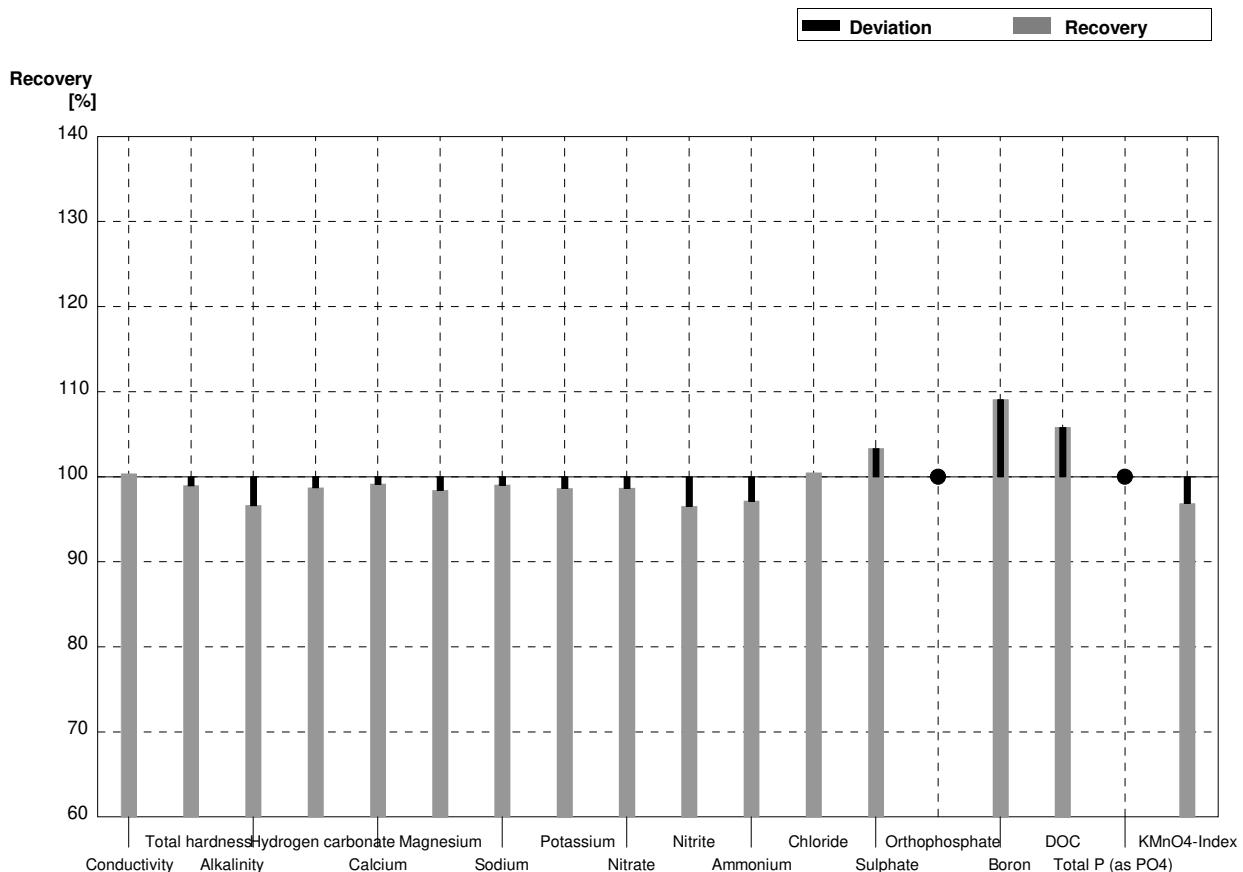
| Parameter          | Target value | ± U (k=2) | Result | ±      | Unit   | Recovery |
|--------------------|--------------|-----------|--------|--------|--------|----------|
| Conductivity       | 444          | 1         | 444    | 4,51   | µS/cm  | 100%     |
| Total hardness     | 1,321        | 0,015     | 1,29   |        | mmol/l | 98%      |
| Alkalinity         | 1,294        | 0,018     | 1,33   | 0,13   | mmol/l | 103%     |
| Hydrogen carbonate | 75,9         | 1,1       | 78,09  |        | mg/l   | 103%     |
| Calcium            | 39,6         | 0,6       | 38,84  | 3,8    | mg/l   | 98%      |
| Magnesium          | 8,07         | 0,10      | 7,73   | 0,8    | mg/l   | 96%      |
| Sodium             | 30,8         | 0,2       | 30,72  | 3,1    | mg/l   | 100%     |
| Potassium          | 6,98         | 0,04      | 6,95   | 0,7    | mg/l   | 100%     |
| Nitrate            | 51,3         | 1,2       | 49,14  | 4,9    | mg/l   | 96%      |
| Nitrite            | 0,0203       | 0,0018    | 0,0210 | 0,002  | mg/l   | 103%     |
| Ammonium           | <0,01        |           | <0,007 |        | mg/l   | •        |
| Chloride           | 28,6         | 0,4       | 27,50  | 2,8    | mg/l   | 96%      |
| Sulphate           | 58,9         | 0,4       | 55,61  | 5,6    | mg/l   | 94%      |
| Orthophosphate     | 0,061        | 0,001     | 0,058  | 0,006  | mg/l   | 95%      |
| Boron              | 0,0544       | 0,0004    | 0,052  | 0,0052 | mg/l   | 96%      |
| DOC                | 4,88         | 0,05      | 4,96   | 0,5    | mg/l   | 102%     |
| Total P (as PO4)   | 0,187        | 0,003     | 0,164  | 0,016  | mg/l   | 88%      |
| KMnO4-Index        | 5,64         | 0,15      |        |        | mg/l   |          |



**Sample** N167A

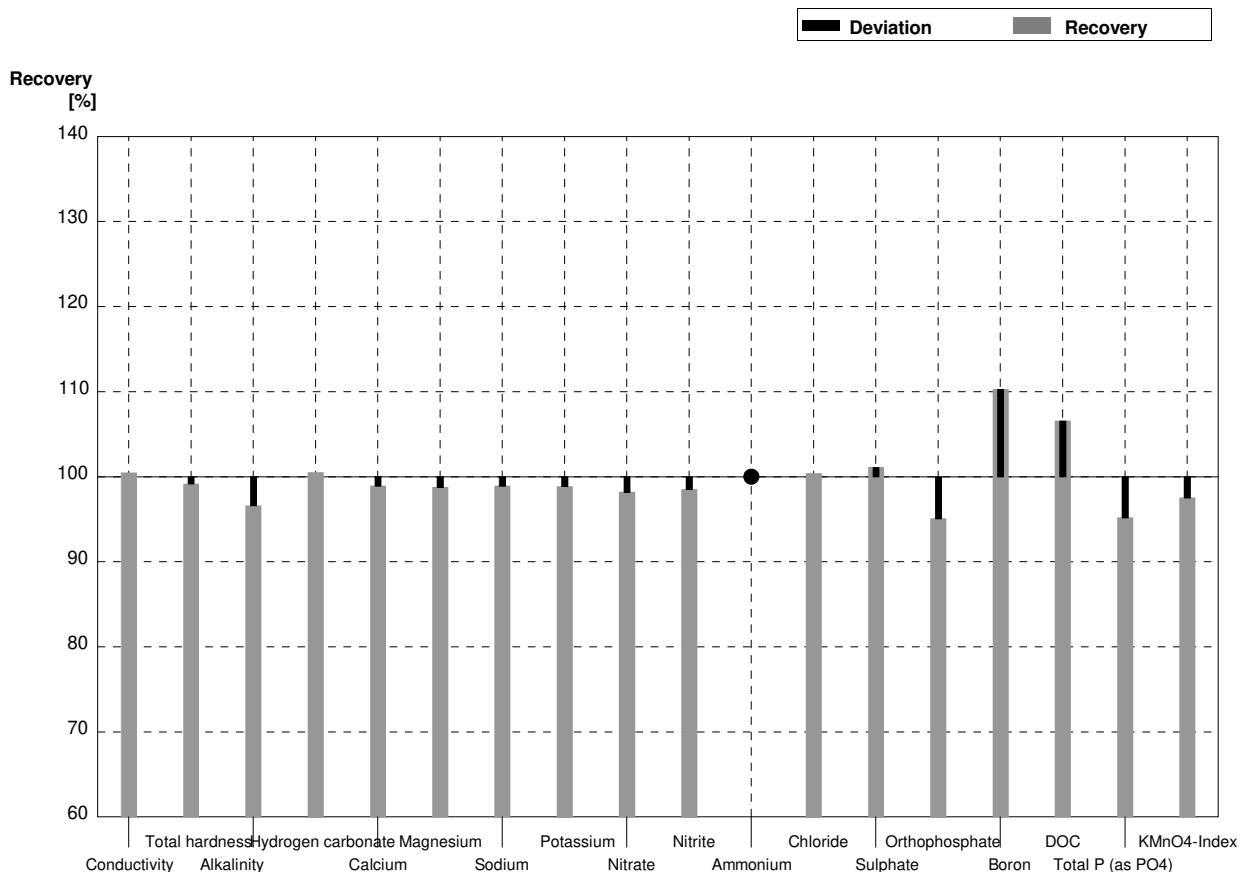
**Laboratory** AA

| Parameter                     | Target value | $\pm$ U (k=2) | Result | $\pm$   | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|---------|-------------------------|----------|
| Conductivity                  | 544          | 2             | 546    | 54.6    | $\mu\text{S}/\text{cm}$ | 100%     |
| Total hardness                | 1,94         | 0,02          | 1,92   |         | $\text{mmol/l}$         | 99%      |
| Alkalinity                    | 2,36         | 0,03          | 2,28   | 0,342   | $\text{mmol/l}$         | 97%      |
| Hydrogen carbonate            | 140,9        | 1,7           | 139,1  | 20,87   | $\text{mg/l}$           | 99%      |
| Calcium                       | 60,1         | 0,9           | 59,58  | 5,958   | $\text{mg/l}$           | 99%      |
| Magnesium                     | 10,79        | 0,14          | 10,62  | 1,062   | $\text{mg/l}$           | 98%      |
| Sodium                        | 24,9         | 0,3           | 24,66  | 2,466   | $\text{mg/l}$           | 99%      |
| Potassium                     | 8,81         | 0,06          | 8,69   | 0,869   | $\text{mg/l}$           | 99%      |
| Nitrate                       | 37,2         | 0,7           | 36,7   | 1,47    | $\text{mg/l}$           | 99%      |
| Nitrite                       | 0,0404       | 0,0009        | 0,0390 | 0,0059  | $\text{mg/l}$           | 97%      |
| Ammonium                      | 0,070        | 0,004         | 0,068  | 0,0068  | $\text{mg/l}$           | 97%      |
| Chloride                      | 54,8         | 1,2           | 55,07  | 2,754   | $\text{mg/l}$           | 100%     |
| Sulphate                      | 34,7         | 0,4           | 35,86  | 1,79    | $\text{mg/l}$           | 103%     |
| Orthophosphate                | <0,009       |               | 0,0060 | 0,00090 | $\text{mg/l}$           | •        |
| Boron                         | 0,1265       | 0,0012        | 0,138  | 0,0166  | $\text{mg/l}$           | 109%     |
| DOC                           | 1,89         | 0,04          | 2,00   | 0,160   | $\text{mg/l}$           | 106%     |
| Total P (as PO <sub>4</sub> ) | <0,009       |               | <0,006 |         | $\text{mg/l}$           | •        |
| KMnO <sub>4</sub> -Index      | 3,51         | 0,12          | 3,40   | 0,544   | $\text{mg/l}$           | 97%      |



**Sample N167B**  
**Laboratory AA**

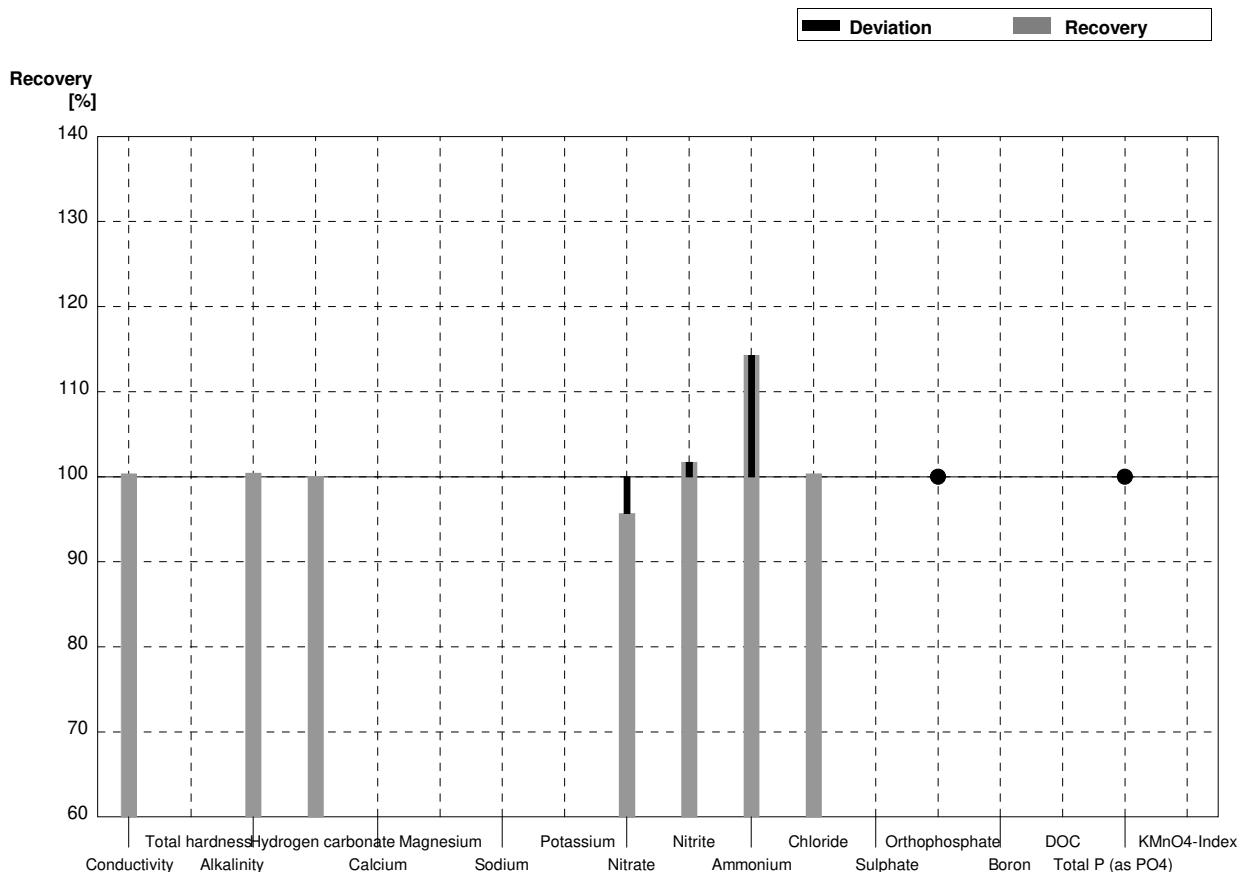
| Parameter                     | Target value | $\pm$ U (k=2) | Result  | $\pm$   | Unit                    | Recovery |
|-------------------------------|--------------|---------------|---------|---------|-------------------------|----------|
| Conductivity                  | 444          | 1             | 446     | 44,6    | $\mu\text{S}/\text{cm}$ | 100%     |
| Total hardness                | 1,321        | 0,015         | 1,31    |         | $\text{mmol/l}$         | 99%      |
| Alkalinity                    | 1,294        | 0,018         | 1,25    | 0,188   | $\text{mmol/l}$         | 97%      |
| Hydrogen carbonate            | 75,9         | 1,1           | 76,3    | 11,4    | $\text{mg/l}$           | 101%     |
| Calcium                       | 39,6         | 0,6           | 39,17   | 3,917   | $\text{mg/l}$           | 99%      |
| Magnesium                     | 8,07         | 0,10          | 7,97    | 0,797   | $\text{mg/l}$           | 99%      |
| Sodium                        | 30,8         | 0,2           | 30,47   | 3,047   | $\text{mg/l}$           | 99%      |
| Potassium                     | 6,98         | 0,04          | 6,90    | 0,690   | $\text{mg/l}$           | 99%      |
| Nitrate                       | 51,3         | 1,2           | 50,381  | 2,0153  | $\text{mg/l}$           | 98%      |
| Nitrite                       | 0,0203       | 0,0018        | 0,0200  | 0,00300 | $\text{mg/l}$           | 99%      |
| Ammonium                      | <0,01        |               | <0,0052 |         | $\text{mg/l}$           | •        |
| Chloride                      | 28,6         | 0,4           | 28,71   | 1,436   | $\text{mg/l}$           | 100%     |
| Sulphate                      | 58,9         | 0,4           | 59,55   | 2,978   | $\text{mg/l}$           | 101%     |
| Orthophosphate                | 0,061        | 0,001         | 0,058   | 0,0087  | $\text{mg/l}$           | 95%      |
| Boron                         | 0,0544       | 0,0004        | 0,060   | 0,0072  | $\text{mg/l}$           | 110%     |
| DOC                           | 4,88         | 0,05          | 5,20    | 0,420   | $\text{mg/l}$           | 107%     |
| Total P (as PO <sub>4</sub> ) | 0,187        | 0,003         | 0,178   | 0,0267  | $\text{mg/l}$           | 95%      |
| KMnO <sub>4</sub> -Index      | 5,64         | 0,15          | 5,50    | 0,880   | $\text{mg/l}$           | 98%      |



**Sample N167A**

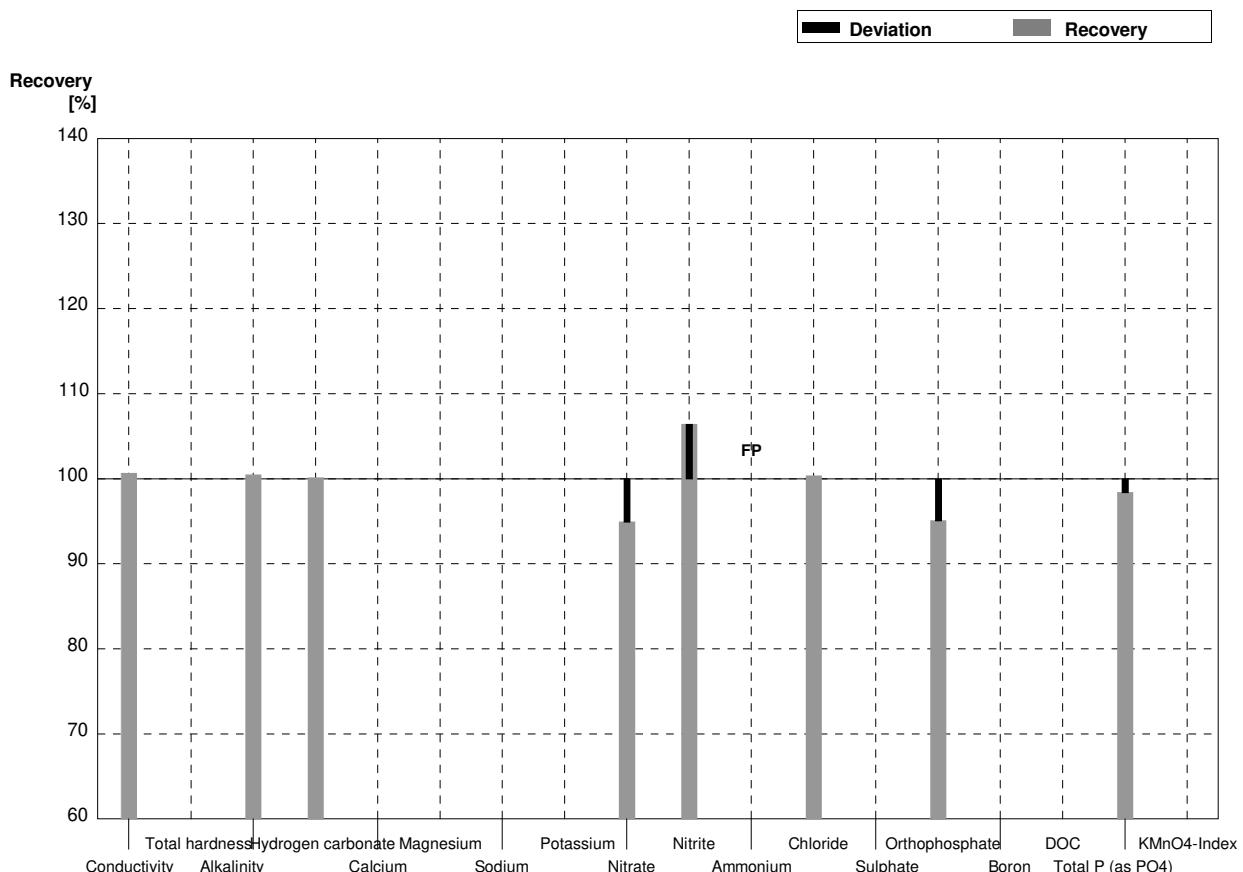
**Laboratory AB**

| Parameter          | Target value | ± U (k=2) | Result | ±      | Unit   | Recovery |
|--------------------|--------------|-----------|--------|--------|--------|----------|
| Conductivity       | 544          | 2         | 546    | 3,87   | µS/cm  | 100%     |
| Total hardness     | 1,94         | 0,02      |        |        | mmol/l |          |
| Alkalinity         | 2,36         | 0,03      | 2,37   | 0,067  | mmol/l | 100%     |
| Hydrogen carbonate | 140,9        | 1,7       | 141    | 2,04   | mg/l   | 100%     |
| Calcium            | 60,1         | 0,9       |        |        | mg/l   |          |
| Magnesium          | 10,79        | 0,14      |        |        | mg/l   |          |
| Sodium             | 24,9         | 0,3       |        |        | mg/l   |          |
| Potassium          | 8,81         | 0,06      |        |        | mg/l   |          |
| Nitrate            | 37,2         | 0,7       | 35,6   | 2,44   | mg/l   | 96%      |
| Nitrite            | 0,0404       | 0,0009    | 0,0411 | 0,0041 | mg/l   | 102%     |
| Ammonium           | 0,070        | 0,004     | 0,080  | 0,012  | mg/l   | 114%     |
| Chloride           | 54,8         | 1,2       | 55     | 0,55   | mg/l   | 100%     |
| Sulphate           | 34,7         | 0,4       |        |        | mg/l   |          |
| Orthophosphate     | <0,009       |           | <0,006 | 0      | mg/l   | •        |
| Boron              | 0,1265       | 0,0012    |        |        | mg/l   |          |
| DOC                | 1,89         | 0,04      |        |        | mg/l   |          |
| Total P (as PO4)   | <0,009       |           | <0,006 | 0      | mg/l   | •        |
| KMnO4-Index        | 3,51         | 0,12      |        |        | mg/l   |          |



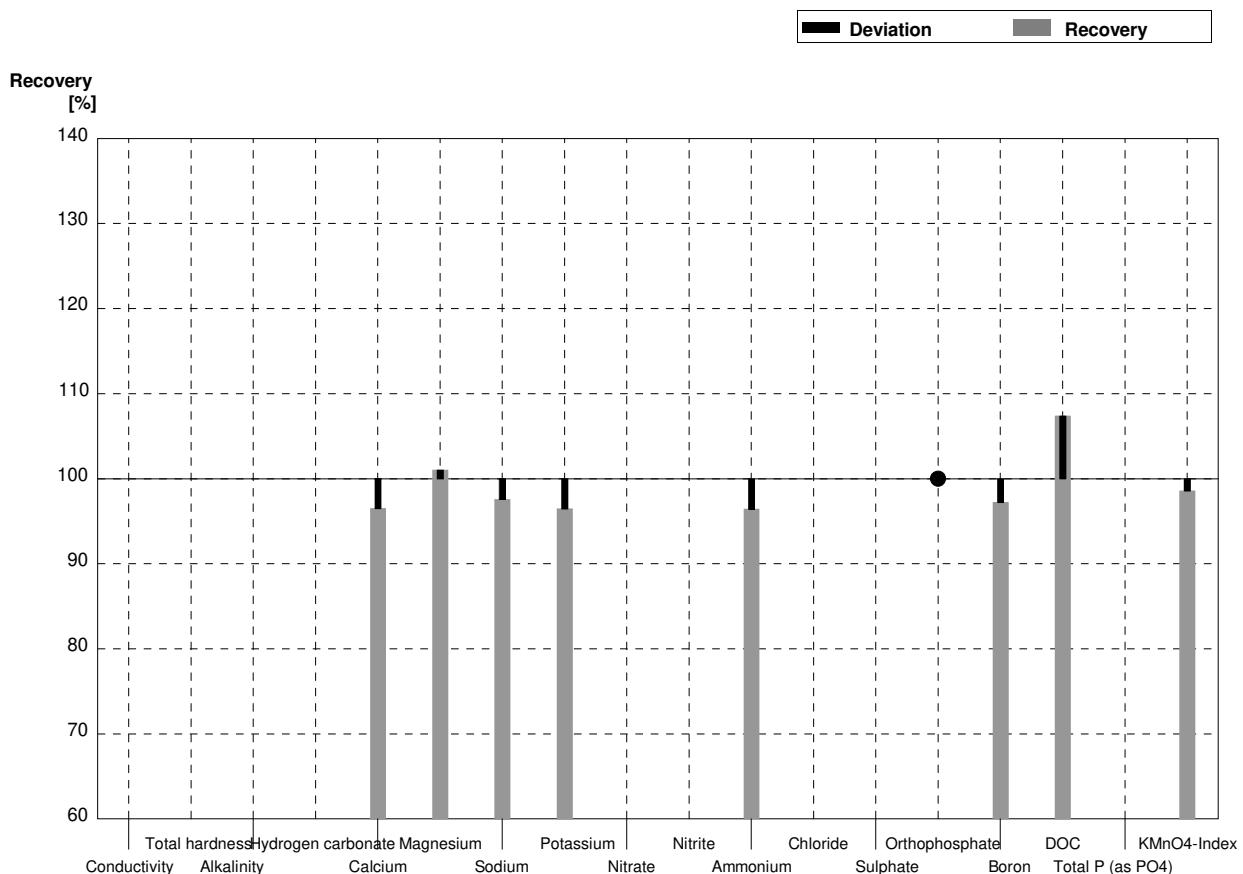
**Sample N167B**  
**Laboratory AB**

| Parameter                     | Target value | $\pm$ U (k=2) | Result | $\pm$  | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|--------|-------------------------|----------|
| Conductivity                  | 444          | 1             | 447    | 3,17   | $\mu\text{S}/\text{cm}$ | 101%     |
| Total hardness                | 1,321        | 0,015         |        |        | $\text{mmol/l}$         |          |
| Alkalinity                    | 1,294        | 0,018         | 1,30   | 0,037  | $\text{mmol/l}$         | 100%     |
| Hydrogen carbonate            | 75,9         | 1,1           | 76     | 1,10   | $\text{mg/l}$           | 100%     |
| Calcium                       | 39,6         | 0,6           |        |        | $\text{mg/l}$           |          |
| Magnesium                     | 8,07         | 0,10          |        |        | $\text{mg/l}$           |          |
| Sodium                        | 30,8         | 0,2           |        |        | $\text{mg/l}$           |          |
| Potassium                     | 6,98         | 0,04          |        |        | $\text{mg/l}$           |          |
| Nitrate                       | 51,3         | 1,2           | 48,7   | 3,34   | $\text{mg/l}$           | 95%      |
| Nitrite                       | 0,0203       | 0,0018        | 0,0216 | 0,0022 | $\text{mg/l}$           | 106%     |
| Ammonium                      | <0,01        |               | 0,0220 | 0,0033 | $\text{mg/l}$           | FP       |
| Chloride                      | 28,6         | 0,4           | 28,7   | 0,29   | $\text{mg/l}$           | 100%     |
| Sulphate                      | 58,9         | 0,4           |        |        | $\text{mg/l}$           |          |
| Orthophosphate                | 0,061        | 0,001         | 0,058  | 0,007  | $\text{mg/l}$           | 95%      |
| Boron                         | 0,0544       | 0,0004        |        |        | $\text{mg/l}$           |          |
| DOC                           | 4,88         | 0,05          |        |        | $\text{mg/l}$           |          |
| Total P (as PO <sub>4</sub> ) | 0,187        | 0,003         | 0,184  | 0,024  | $\text{mg/l}$           | 98%      |
| KMnO <sub>4</sub> -Index      | 5,64         | 0,15          |        |        | $\text{mg/l}$           |          |



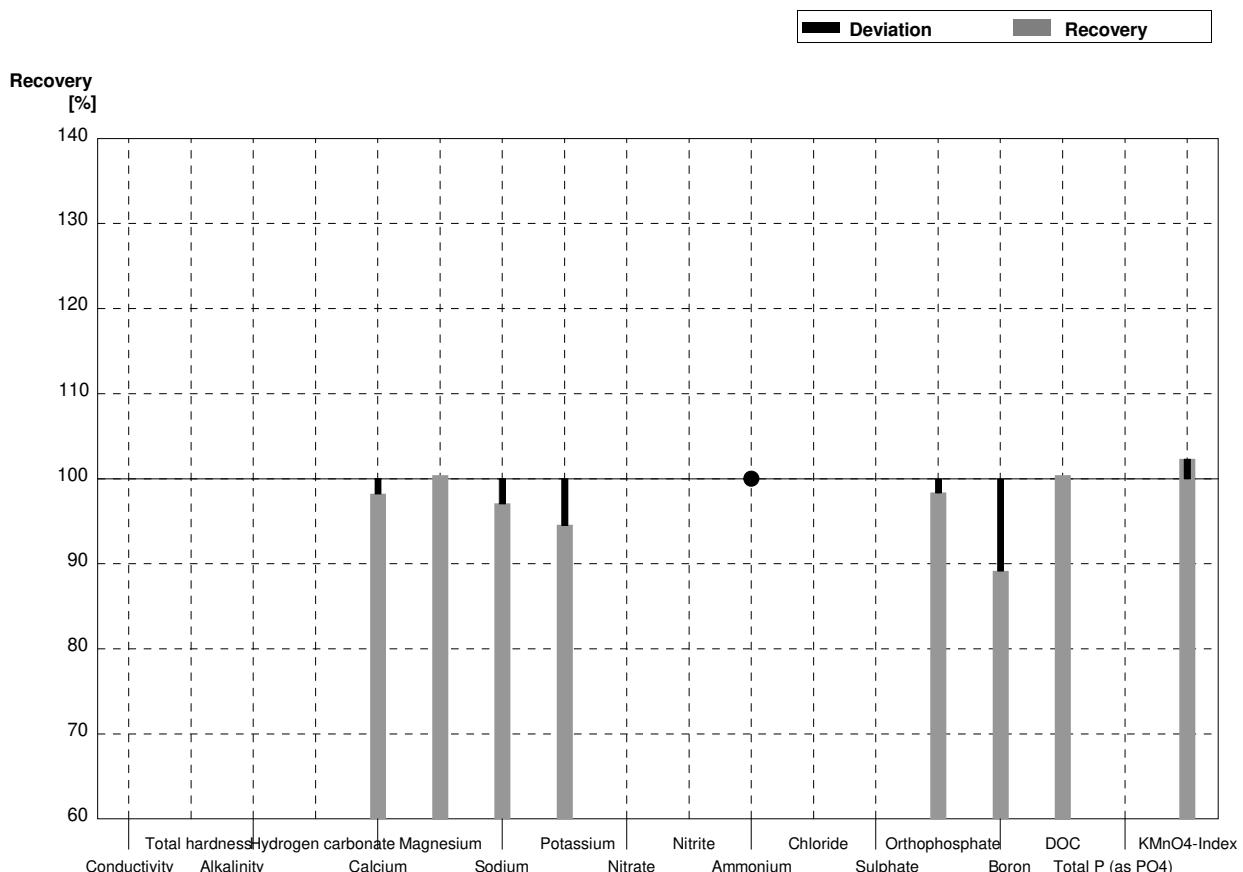
**Sample N167A**  
**Laboratory AC**

| Parameter          | Target value | ± U (k=2) | Result  | ±       | Unit   | Recovery |
|--------------------|--------------|-----------|---------|---------|--------|----------|
| Conductivity       | 544          | 2         |         |         | µS/cm  |          |
| Total hardness     | 1,94         | 0,02      |         |         | mmol/l |          |
| Alkalinity         | 2,36         | 0,03      |         |         | mmol/l |          |
| Hydrogen carbonate | 140,9        | 1,7       |         |         | mg/l   |          |
| Calcium            | 60,1         | 0,9       | 58      |         | mg/l   | 97%      |
| Magnesium          | 10,79        | 0,14      | 10,9    |         | mg/l   | 101%     |
| Sodium             | 24,9         | 0,3       | 24,3    |         | mg/l   | 98%      |
| Potassium          | 8,81         | 0,06      | 8,5     |         | mg/l   | 96%      |
| Nitrate            | 37,2         | 0,7       |         |         | mg/l   |          |
| Nitrite            | 0,0404       | 0,0009    |         |         | mg/l   |          |
| Ammonium           | 0,070        | 0,004     | 0,0675  | 0,00635 | mg/l   | 96%      |
| Chloride           | 54,8         | 1,2       |         |         | mg/l   |          |
| Sulphate           | 34,7         | 0,4       |         |         | mg/l   |          |
| Orthophosphate     | <0,009       |           | <0,0100 | 0,00281 | mg/l   | •        |
| Boron              | 0,1265       | 0,0012    | 0,123   |         | mg/l   | 97%      |
| DOC                | 1,89         | 0,04      | 2,03    | 0,508   | mg/l   | 107%     |
| Total P (as PO4)   | <0,009       |           |         |         | mg/l   |          |
| KMnO4-Index        | 3,51         | 0,12      | 3,46    | 0,799   | mg/l   | 99%      |



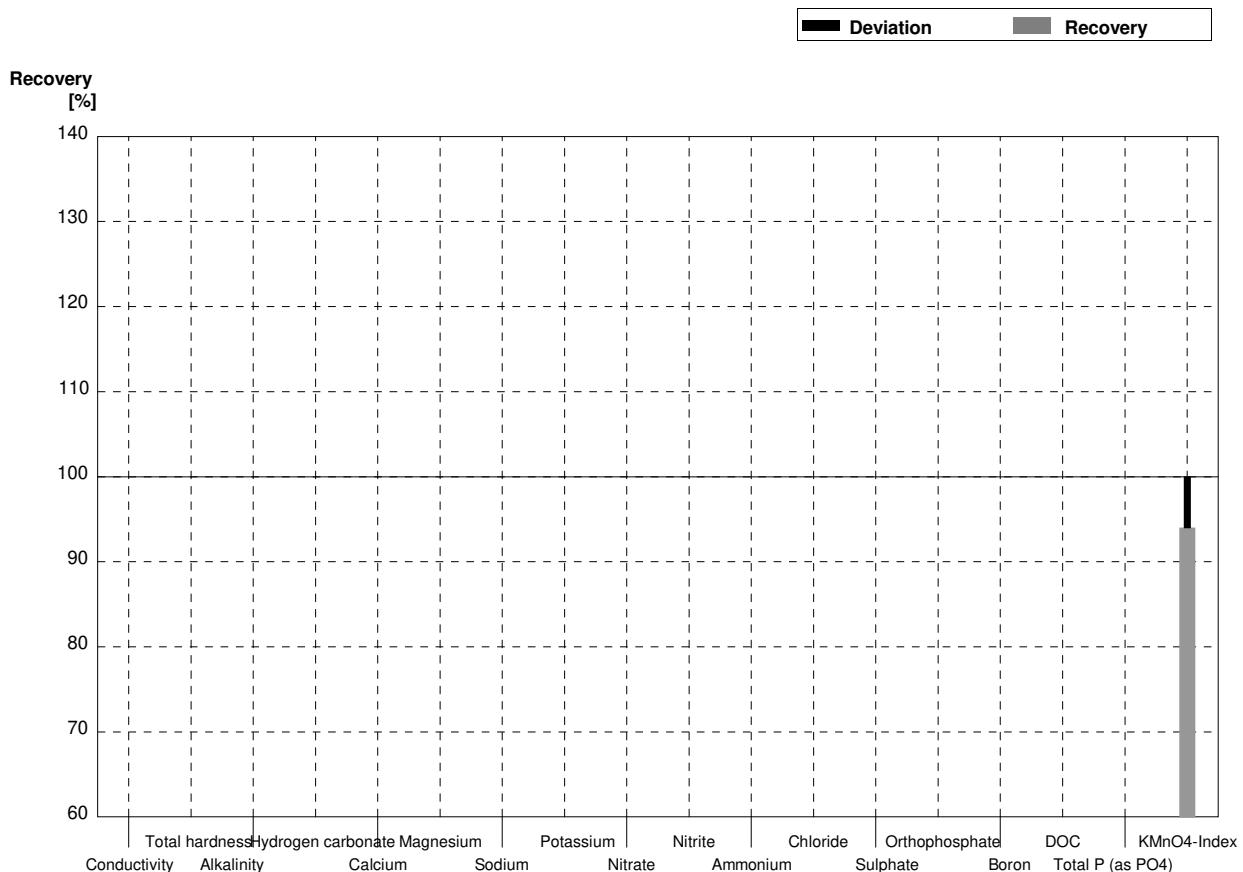
**Sample N167B**  
**Laboratory AC**

| Parameter          | Target value | ± U (k=2) | Result  | ±       | Unit   | Recovery |
|--------------------|--------------|-----------|---------|---------|--------|----------|
| Conductivity       | 444          | 1         |         |         | µS/cm  |          |
| Total hardness     | 1,321        | 0,015     |         |         | mmol/l |          |
| Alkalinity         | 1,294        | 0,018     |         |         | mmol/l |          |
| Hydrogen carbonate | 75,9         | 1,1       |         |         | mg/l   |          |
| Calcium            | 39,6         | 0,6       | 38,9    |         | mg/l   | 98%      |
| Magnesium          | 8,07         | 0,10      | 8,1     |         | mg/l   | 100%     |
| Sodium             | 30,8         | 0,2       | 29,9    |         | mg/l   | 97%      |
| Potassium          | 6,98         | 0,04      | 6,6     |         | mg/l   | 95%      |
| Nitrate            | 51,3         | 1,2       |         |         | mg/l   |          |
| Nitrite            | 0,0203       | 0,0018    |         |         | mg/l   |          |
| Ammonium           | <0,01        |           | <0,0500 | 0,00470 | mg/l   | •        |
| Chloride           | 28,6         | 0,4       |         |         | mg/l   |          |
| Sulphate           | 58,9         | 0,4       |         |         | mg/l   |          |
| Orthophosphate     | 0,061        | 0,001     | 0,0600  | 0,0169  | mg/l   | 98%      |
| Boron              | 0,0544       | 0,0004    | 0,0485  |         | mg/l   | 89%      |
| DOC                | 4,88         | 0,05      | 4,90    | 1,23    | mg/l   | 100%     |
| Total P (as PO4)   | 0,187        | 0,003     |         |         | mg/l   |          |
| KMnO4-Index        | 5,64         | 0,15      | 5,77    | 1,33    | mg/l   | 102%     |



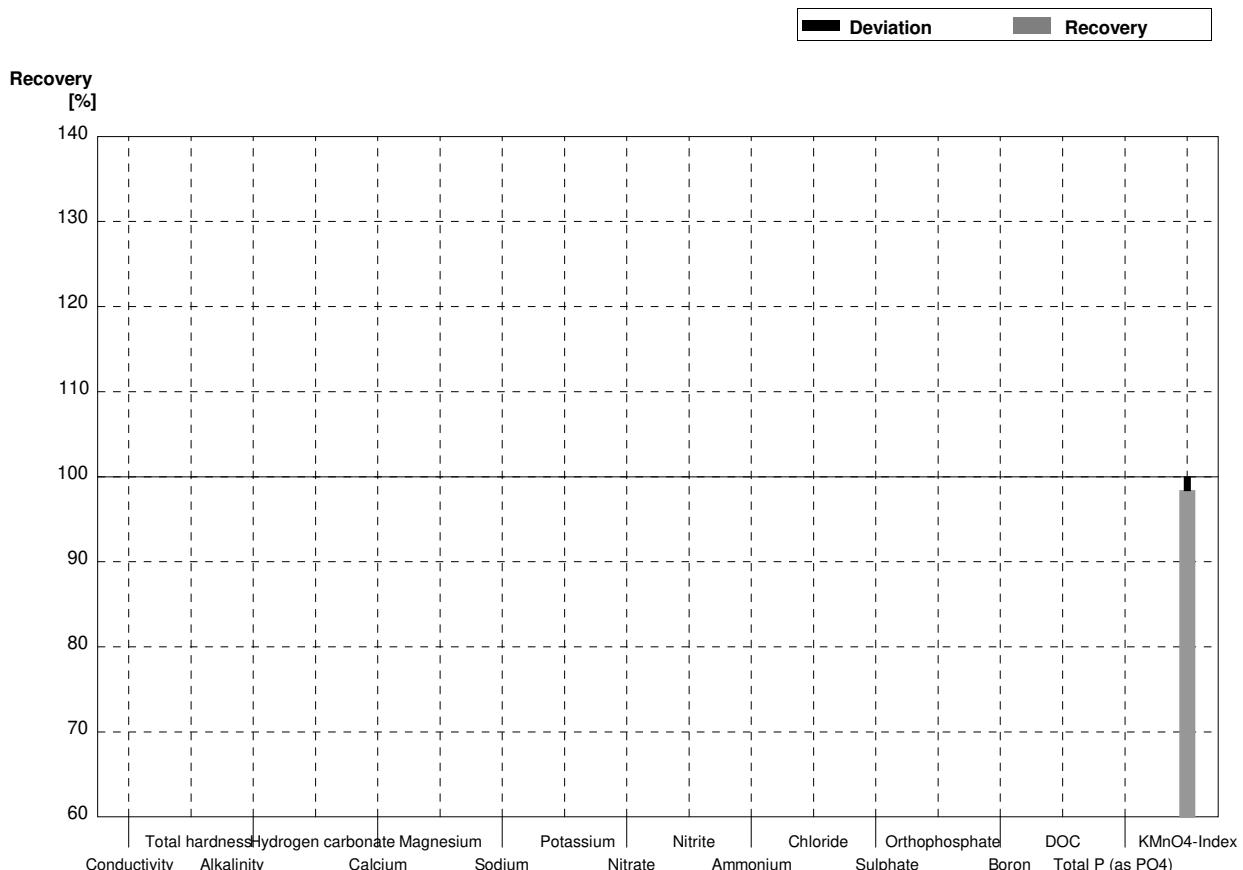
**Sample N167A**  
**Laboratory AD**

| Parameter          | Target value | ± U (k=2) | Result | ± | Unit   | Recovery |
|--------------------|--------------|-----------|--------|---|--------|----------|
| Conductivity       | 544          | 2         |        |   | µS/cm  |          |
| Total hardness     | 1,94         | 0,02      |        |   | mmol/l |          |
| Alkalinity         | 2,36         | 0,03      |        |   | mmol/l |          |
| Hydrogen carbonate | 140,9        | 1,7       |        |   | mg/l   |          |
| Calcium            | 60,1         | 0,9       |        |   | mg/l   |          |
| Magnesium          | 10,79        | 0,14      |        |   | mg/l   |          |
| Sodium             | 24,9         | 0,3       |        |   | mg/l   |          |
| Potassium          | 8,81         | 0,06      |        |   | mg/l   |          |
| Nitrate            | 37,2         | 0,7       |        |   | mg/l   |          |
| Nitrite            | 0,0404       | 0,0009    |        |   | mg/l   |          |
| Ammonium           | 0,070        | 0,004     |        |   | mg/l   |          |
| Chloride           | 54,8         | 1,2       |        |   | mg/l   |          |
| Sulphate           | 34,7         | 0,4       |        |   | mg/l   |          |
| Orthophosphate     | <0,009       |           |        |   | mg/l   |          |
| Boron              | 0,1265       | 0,0012    |        |   | mg/l   |          |
| DOC                | 1,89         | 0,04      |        |   | mg/l   |          |
| Total P (as PO4)   | <0,009       |           |        |   | mg/l   |          |
| KMnO4-Index        | 3,51         | 0,12      | 3,30   |   | mg/l   | 94%      |



**Sample N167B**  
**Laboratory AD**

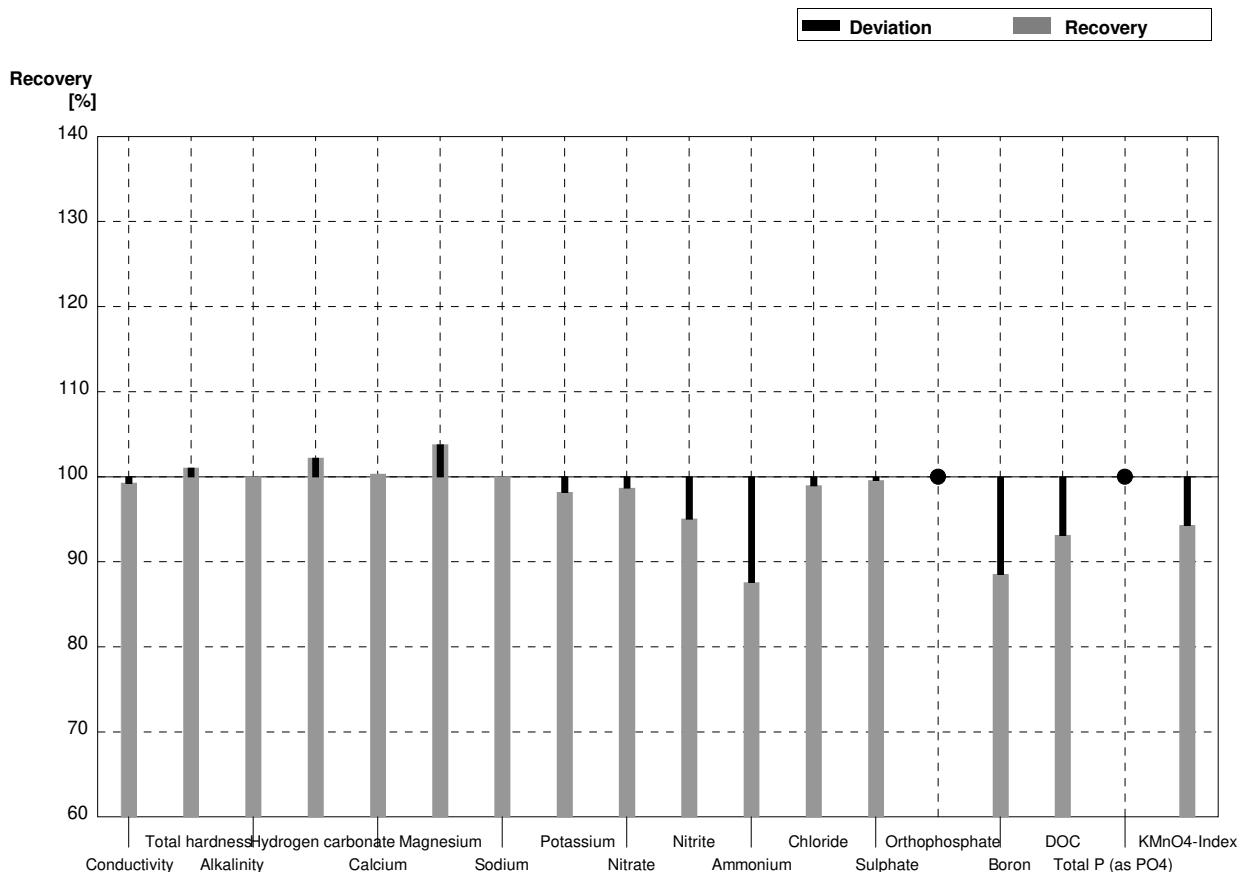
| Parameter          | Target value | ± U (k=2) | Result | ± | Unit   | Recovery |
|--------------------|--------------|-----------|--------|---|--------|----------|
| Conductivity       | 444          | 1         |        |   | µS/cm  |          |
| Total hardness     | 1,321        | 0,015     |        |   | mmol/l |          |
| Alkalinity         | 1,294        | 0,018     |        |   | mmol/l |          |
| Hydrogen carbonate | 75,9         | 1,1       |        |   | mg/l   |          |
| Calcium            | 39,6         | 0,6       |        |   | mg/l   |          |
| Magnesium          | 8,07         | 0,10      |        |   | mg/l   |          |
| Sodium             | 30,8         | 0,2       |        |   | mg/l   |          |
| Potassium          | 6,98         | 0,04      |        |   | mg/l   |          |
| Nitrate            | 51,3         | 1,2       |        |   | mg/l   |          |
| Nitrite            | 0,0203       | 0,0018    |        |   | mg/l   |          |
| Ammonium           | <0,01        |           |        |   | mg/l   |          |
| Chloride           | 28,6         | 0,4       |        |   | mg/l   |          |
| Sulphate           | 58,9         | 0,4       |        |   | mg/l   |          |
| Orthophosphate     | 0,061        | 0,001     |        |   | mg/l   |          |
| Boron              | 0,0544       | 0,0004    |        |   | mg/l   |          |
| DOC                | 4,88         | 0,05      |        |   | mg/l   |          |
| Total P (as PO4)   | 0,187        | 0,003     |        |   | mg/l   |          |
| KMnO4-Index        | 5,64         | 0,15      | 5,55   |   | mg/l   | 98%      |



Sample N167A

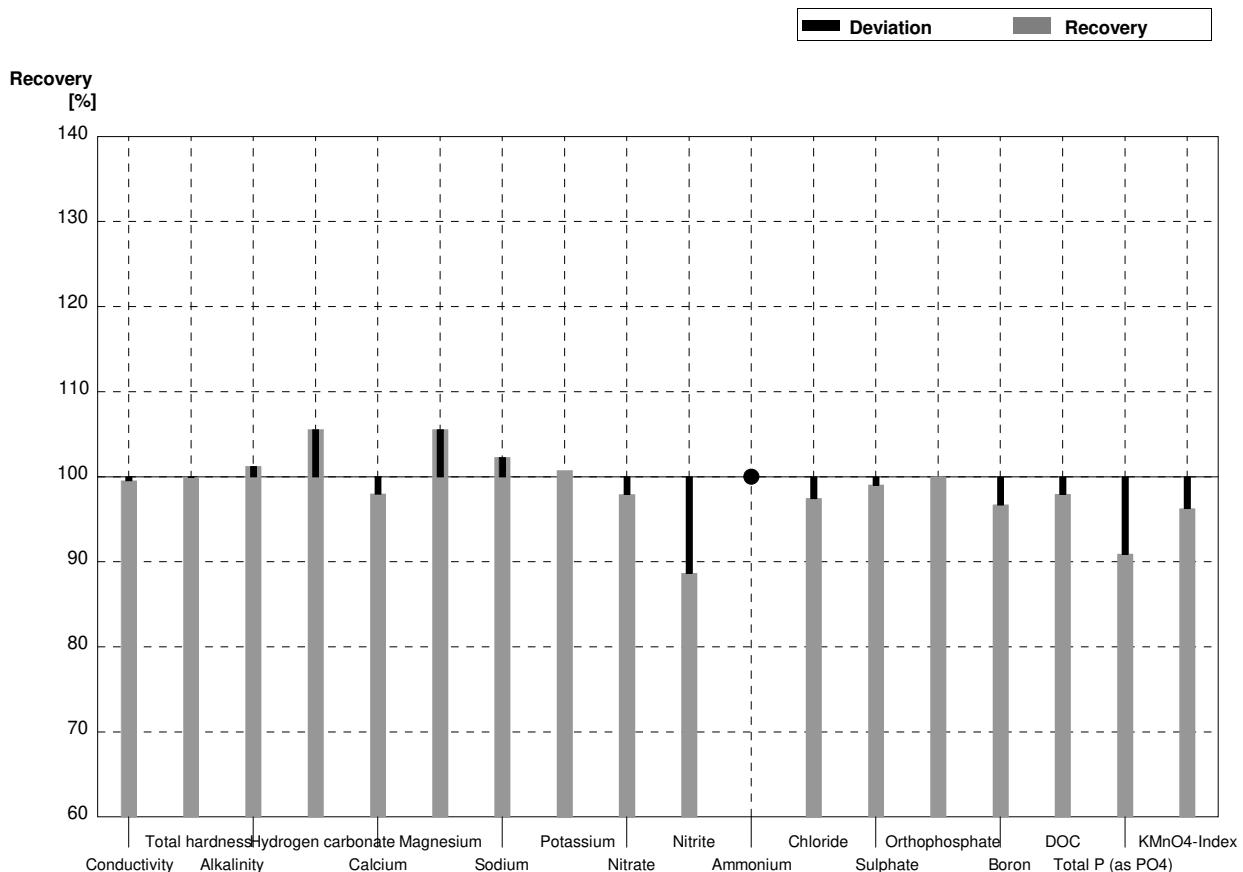
Laboratory AE

| Parameter          | Target value | $\pm$ U (k=2) | Result | $\pm$ | Unit                    | Recovery |
|--------------------|--------------|---------------|--------|-------|-------------------------|----------|
| Conductivity       | 544          | 2             | 540    | 0,577 | $\mu\text{S}/\text{cm}$ | 99%      |
| Total hardness     | 1,94         | 0,02          | 1,96   | 0,025 | $\text{mmol/l}$         | 101%     |
| Alkalinity         | 2,36         | 0,03          | 2,36   | 0,006 | $\text{mmol/l}$         | 100%     |
| Hydrogen carbonate | 140,9        | 1,7           | 144    | 0,36  | $\text{mg/l}$           | 102%     |
| Calcium            | 60,1         | 0,9           | 60,3   | 0,9   | $\text{mg/l}$           | 100%     |
| Magnesium          | 10,79        | 0,14          | 11,2   | 0,176 | $\text{mg/l}$           | 104%     |
| Sodium             | 24,9         | 0,3           | 24,9   | 0,252 | $\text{mg/l}$           | 100%     |
| Potassium          | 8,81         | 0,06          | 8,65   | 0,161 | $\text{mg/l}$           | 98%      |
| Nitrate            | 37,2         | 0,7           | 36,703 | 0,1   | $\text{mg/l}$           | 99%      |
| Nitrite            | 0,0404       | 0,0009        | 0,0384 | 0,001 | $\text{mg/l}$           | 95%      |
| Ammonium           | 0,070        | 0,004         | 0,0613 | 0,001 | $\text{mg/l}$           | 88%      |
| Chloride           | 54,8         | 1,2           | 54,223 | 2,165 | $\text{mg/l}$           | 99%      |
| Sulphate           | 34,7         | 0,4           | 34,555 | 0,089 | $\text{mg/l}$           | 100%     |
| Orthophosphate     | <0,009       |               | <0,020 |       | $\text{mg/l}$           | •        |
| Boron              | 0,1265       | 0,0012        | 0,112  | 0,003 | $\text{mg/l}$           | 89%      |
| DOC                | 1,89         | 0,04          | 1,76   | 0,015 | $\text{mg/l}$           | 93%      |
| Total P (as PO4)   | <0,009       |               | <0,020 |       | $\text{mg/l}$           | •        |
| KMnO4-Index        | 3,51         | 0,12          | 3,31   | 0,040 | $\text{mg/l}$           | 94%      |



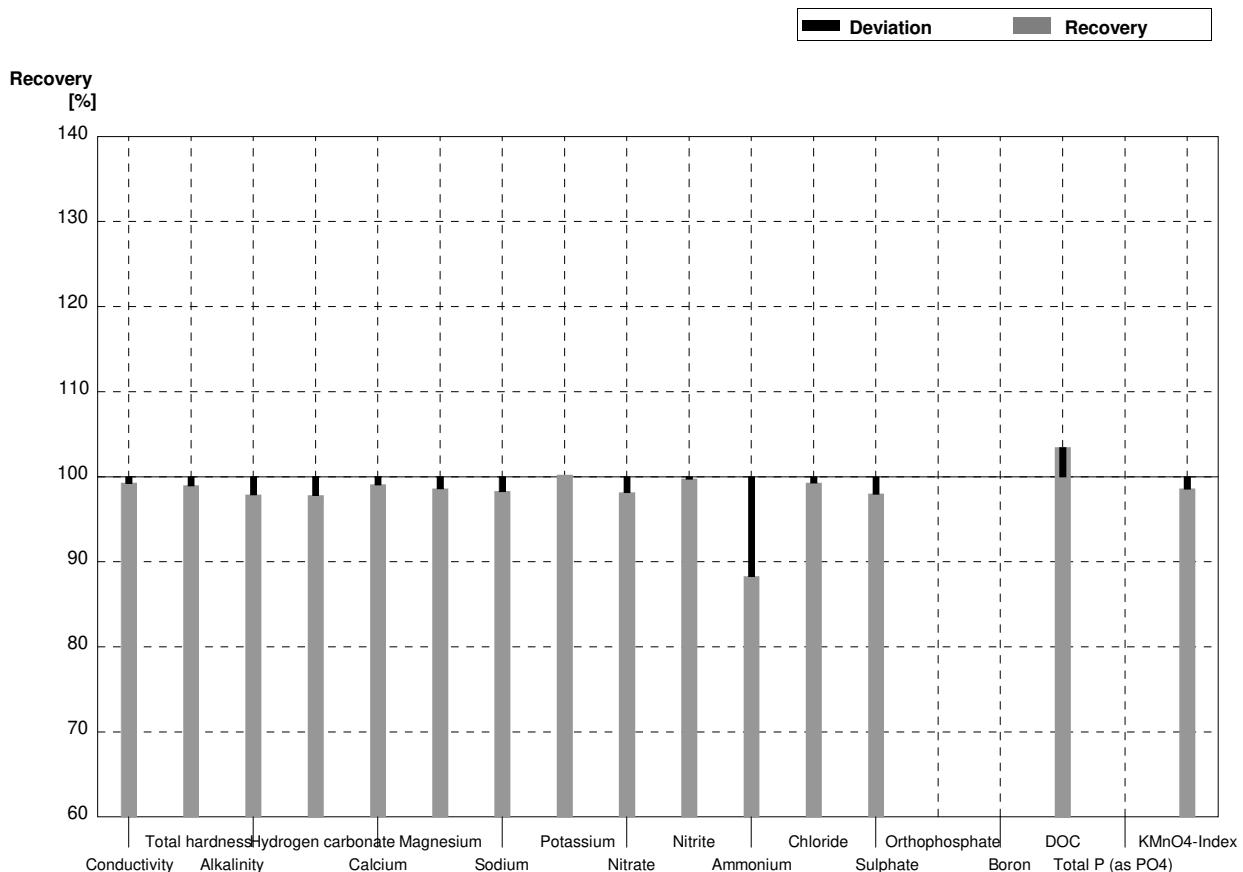
**Sample N167B**  
**Laboratory AE**

| Parameter                     | Target value | $\pm$ U (k=2) | Result | $\pm$ | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|-------|-------------------------|----------|
| Conductivity                  | 444          | 1             | 442    | 1     | $\mu\text{S}/\text{cm}$ | 100%     |
| Total hardness                | 1,321        | 0,015         | 1,32   | 0,017 | $\text{mmol/l}$         | 100%     |
| Alkalinity                    | 1,294        | 0,018         | 1,31   | 0,006 | $\text{mmol/l}$         | 101%     |
| Hydrogen carbonate            | 75,9         | 1,1           | 80,1   | 0,153 | $\text{mg/l}$           | 106%     |
| Calcium                       | 39,6         | 0,6           | 38,8   | 0,872 | $\text{mg/l}$           | 98%      |
| Magnesium                     | 8,07         | 0,10          | 8,52   | 0,134 | $\text{mg/l}$           | 106%     |
| Sodium                        | 30,8         | 0,2           | 31,5   | 0,351 | $\text{mg/l}$           | 102%     |
| Potassium                     | 6,98         | 0,04          | 7,03   | 0,115 | $\text{mg/l}$           | 101%     |
| Nitrate                       | 51,3         | 1,2           | 50,230 | 0,766 | $\text{mg/l}$           | 98%      |
| Nitrite                       | 0,0203       | 0,0018        | 0,0180 | 0,001 | $\text{mg/l}$           | 89%      |
| Ammonium                      | <0,01        |               | <0,015 |       | $\text{mg/l}$           | •        |
| Chloride                      | 28,6         | 0,4           | 27,875 | 0,128 | $\text{mg/l}$           | 97%      |
| Sulphate                      | 58,9         | 0,4           | 58,325 | 0,215 | $\text{mg/l}$           | 99%      |
| Orthophosphate                | 0,061        | 0,001         | 0,0610 | 0,002 | $\text{mg/l}$           | 100%     |
| Boron                         | 0,0544       | 0,0004        | 0,0526 | 0,001 | $\text{mg/l}$           | 97%      |
| DOC                           | 4,88         | 0,05          | 4,78   | 0,053 | $\text{mg/l}$           | 98%      |
| Total P (as PO <sub>4</sub> ) | 0,187        | 0,003         | 0,170  | 0,001 | $\text{mg/l}$           | 91%      |
| KMnO <sub>4</sub> -Index      | 5,64         | 0,15          | 5,43   | 0,075 | $\text{mg/l}$           | 96%      |



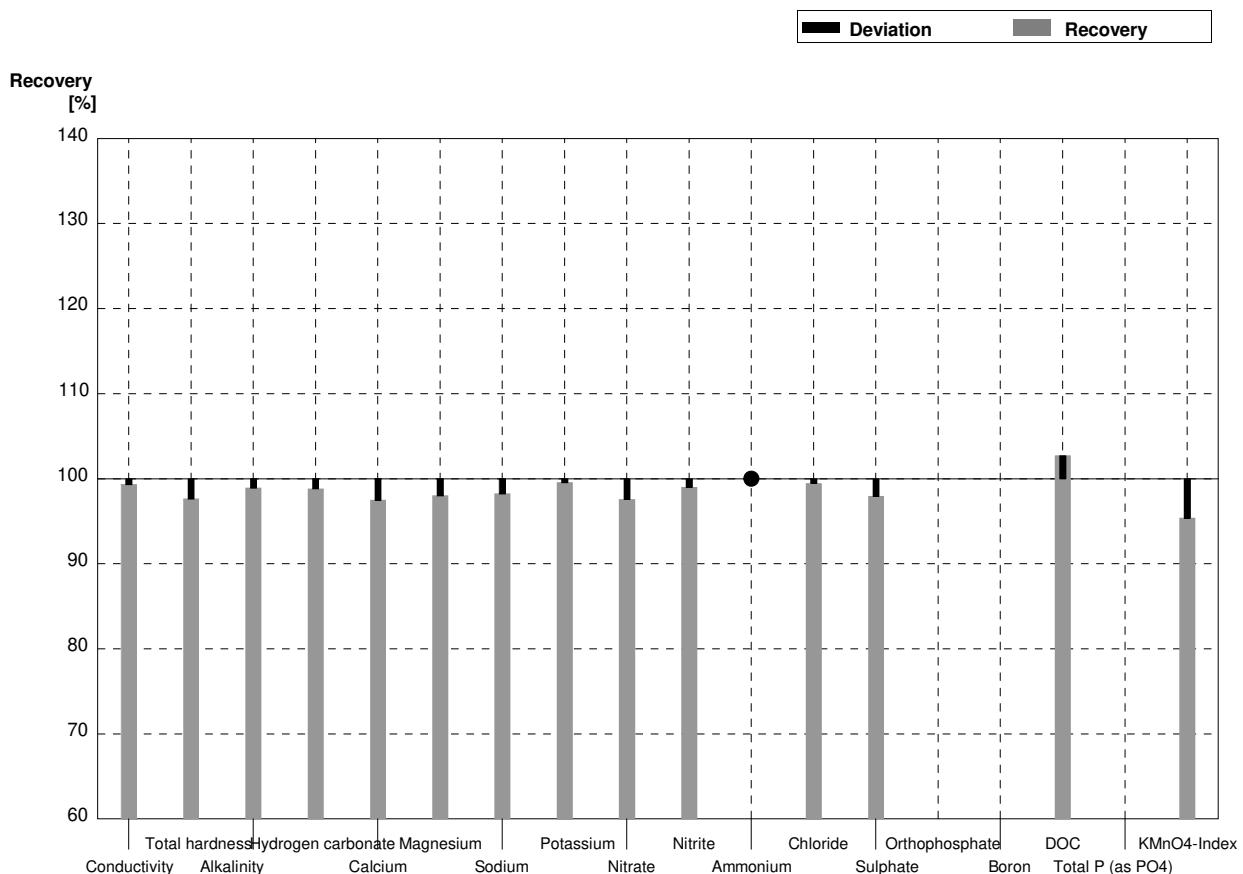
**Sample N167A**  
**Laboratory AF**

| Parameter                     | Target value | $\pm U$ (k=2) | Result | $\pm$ | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|-------|-------------------------|----------|
| Conductivity                  | 544          | 2             | 540    | 11,9  | $\mu\text{S}/\text{cm}$ | 99%      |
| Total hardness                | 1,94         | 0,02          | 1,92   | 0,08  | $\text{mmol/l}$         | 99%      |
| Alkalinity                    | 2,36         | 0,03          | 2,31   | 0,05  | $\text{mmol/l}$         | 98%      |
| Hydrogen carbonate            | 140,9        | 1,7           | 137,81 | 2,89  | $\text{mg/l}$           | 98%      |
| Calcium                       | 60,1         | 0,9           | 59,55  | 2,32  | $\text{mg/l}$           | 99%      |
| Magnesium                     | 10,79        | 0,14          | 10,64  | 0,50  | $\text{mg/l}$           | 99%      |
| Sodium                        | 24,9         | 0,3           | 24,47  | 1,17  | $\text{mg/l}$           | 98%      |
| Potassium                     | 8,81         | 0,06          | 8,83   | 0,57  | $\text{mg/l}$           | 100%     |
| Nitrate                       | 37,2         | 0,7           | 36,51  | 2,45  | $\text{mg/l}$           | 98%      |
| Nitrite                       | 0,0404       | 0,0009        | 0,0403 | 0,003 | $\text{mg/l}$           | 100%     |
| Ammonium                      | 0,070        | 0,004         | 0,0618 | 0,010 | $\text{mg/l}$           | 88%      |
| Chloride                      | 54,8         | 1,2           | 54,41  | 2,56  | $\text{mg/l}$           | 99%      |
| Sulphate                      | 34,7         | 0,4           | 34,00  | 1,70  | $\text{mg/l}$           | 98%      |
| Orthophosphate                | <0,009       |               |        |       | $\text{mg/l}$           |          |
| Boron                         | 0,1265       | 0,0012        |        |       | $\text{mg/l}$           |          |
| DOC                           | 1,89         | 0,04          | 1,955  | 0,34  | $\text{mg/l}$           | 103%     |
| Total P (as PO <sub>4</sub> ) | <0,009       |               |        |       | $\text{mg/l}$           |          |
| KMnO <sub>4</sub> -Index      | 3,51         | 0,12          | 3,46   | 0,73  | $\text{mg/l}$           | 99%      |



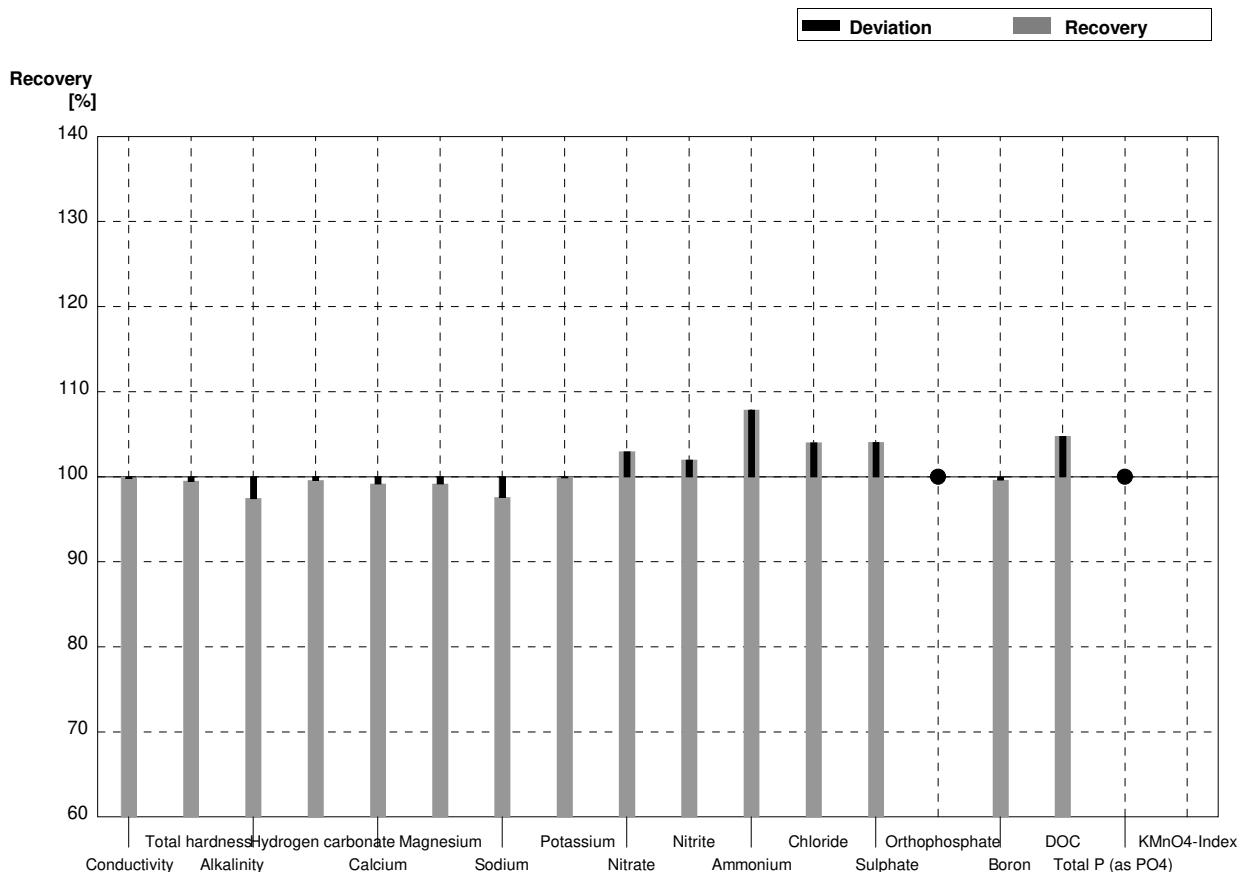
**Sample N167B**  
**Laboratory AF**

| Parameter                     | Target value | $\pm$ U (k=2) | Result | $\pm$ | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|-------|-------------------------|----------|
| Conductivity                  | 444          | 1             | 441    | 9,7   | $\mu\text{S}/\text{cm}$ | 99%      |
| Total hardness                | 1,321        | 0,015         | 1,29   | 0,03  | $\text{mmol/l}$         | 98%      |
| Alkalinity                    | 1,294        | 0,018         | 1,28   | 0,03  | $\text{mmol/l}$         | 99%      |
| Hydrogen carbonate            | 75,9         | 1,1           | 75,01  | 1,58  | $\text{mg/l}$           | 99%      |
| Calcium                       | 39,6         | 0,6           | 38,61  | 1,51  | $\text{mg/l}$           | 98%      |
| Magnesium                     | 8,07         | 0,10          | 7,91   | 0,37  | $\text{mg/l}$           | 98%      |
| Sodium                        | 30,8         | 0,2           | 30,26  | 1,45  | $\text{mg/l}$           | 98%      |
| Potassium                     | 6,98         | 0,04          | 6,95   | 0,44  | $\text{mg/l}$           | 100%     |
| Nitrate                       | 51,3         | 1,2           | 50,06  | 3,35  | $\text{mg/l}$           | 98%      |
| Nitrite                       | 0,0203       | 0,0018        | 0,0201 | 0,001 | $\text{mg/l}$           | 99%      |
| Ammonium                      | <0,01        |               | <0,003 | 0,000 | $\text{mg/l}$           | •        |
| Chloride                      | 28,6         | 0,4           | 28,45  | 1,34  | $\text{mg/l}$           | 99%      |
| Sulphate                      | 58,9         | 0,4           | 57,69  | 2,88  | $\text{mg/l}$           | 98%      |
| Orthophosphate                | 0,061        | 0,001         |        |       | $\text{mg/l}$           |          |
| Boron                         | 0,0544       | 0,0004        |        |       | $\text{mg/l}$           |          |
| DOC                           | 4,88         | 0,05          | 5,014  | 0,87  | $\text{mg/l}$           | 103%     |
| Total P (as PO <sub>4</sub> ) | 0,187        | 0,003         |        |       | $\text{mg/l}$           |          |
| KMnO <sub>4</sub> -Index      | 5,64         | 0,15          | 5,38   | 1,14  | $\text{mg/l}$           | 95%      |



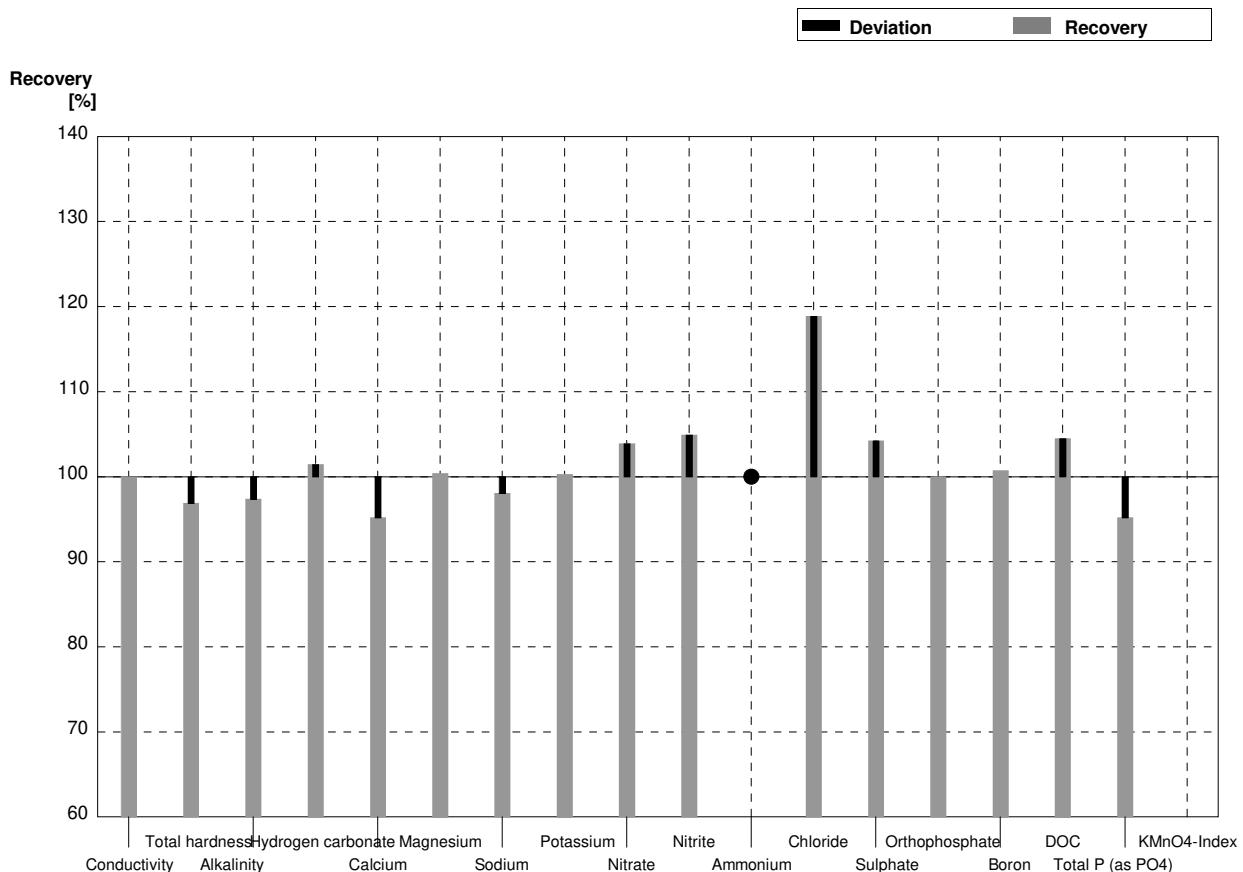
**Sample N167A**  
**Laboratory AG**

| Parameter                     | Target value | $\pm U$ (k=2) | Result | $\pm$  | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|--------|-------------------------|----------|
| Conductivity                  | 544          | 2             | 543    | 22     | $\mu\text{S}/\text{cm}$ | 100%     |
| Total hardness                | 1,94         | 0,02          | 1,93   | 0,10   | $\text{mmol/l}$         | 99%      |
| Alkalinity                    | 2,36         | 0,03          | 2,30   | 0,15   | $\text{mmol/l}$         | 97%      |
| Hydrogen carbonate            | 140,9        | 1,7           | 140,3  | 8,8    | $\text{mg/l}$           | 100%     |
| Calcium                       | 60,1         | 0,9           | 59,6   | 2,8    | $\text{mg/l}$           | 99%      |
| Magnesium                     | 10,79        | 0,14          | 10,7   | 0,7    | $\text{mg/l}$           | 99%      |
| Sodium                        | 24,9         | 0,3           | 24,3   | 1,2    | $\text{mg/l}$           | 98%      |
| Potassium                     | 8,81         | 0,06          | 8,8    | 0,4    | $\text{mg/l}$           | 100%     |
| Nitrate                       | 37,2         | 0,7           | 38,3   | 3,7    | $\text{mg/l}$           | 103%     |
| Nitrite                       | 0,0404       | 0,0009        | 0,0412 | 0,0049 | $\text{mg/l}$           | 102%     |
| Ammonium                      | 0,070        | 0,004         | 0,0755 | 0,0133 | $\text{mg/l}$           | 108%     |
| Chloride                      | 54,8         | 1,2           | 57,0   | 4,4    | $\text{mg/l}$           | 104%     |
| Sulphate                      | 34,7         | 0,4           | 36,1   | 2,9    | $\text{mg/l}$           | 104%     |
| Orthophosphate                | <0,009       |               | <0,010 |        | $\text{mg/l}$           | •        |
| Boron                         | 0,1265       | 0,0012        | 0,126  | 0,012  | $\text{mg/l}$           | 100%     |
| DOC                           | 1,89         | 0,04          | 1,98   | 0,47   | $\text{mg/l}$           | 105%     |
| Total P (as PO <sub>4</sub> ) | <0,009       |               | <0,010 |        | $\text{mg/l}$           | •        |
| KMnO <sub>4</sub> -Index      | 3,51         | 0,12          |        |        | $\text{mg/l}$           |          |



**Sample N167B**  
**Laboratory AG**

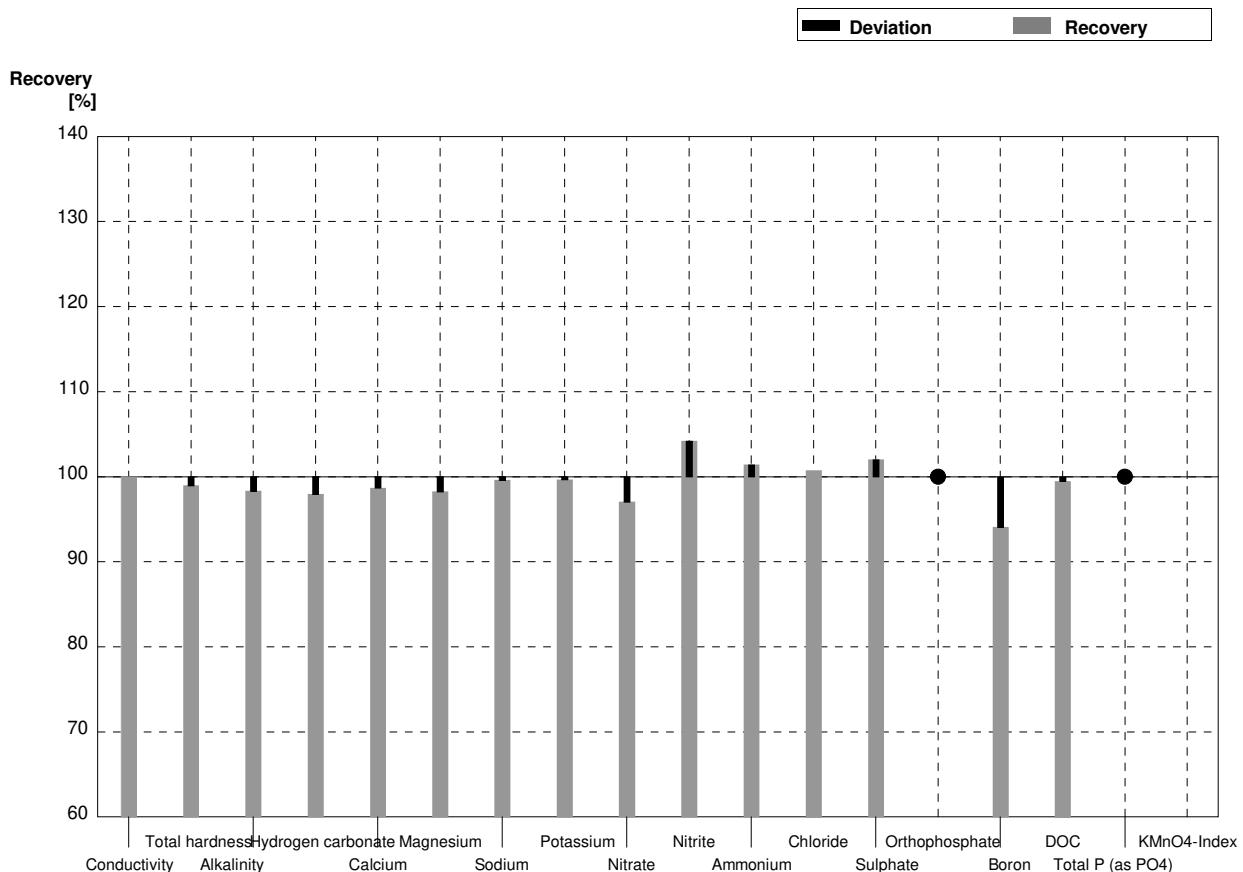
| Parameter                     | Target value | $\pm$ U (k=2) | Result | $\pm$  | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|--------|-------------------------|----------|
| Conductivity                  | 444          | 1             | 444    | 18     | $\mu\text{S}/\text{cm}$ | 100%     |
| Total hardness                | 1,321        | 0,015         | 1,28   | 0,068  | $\text{mmol/l}$         | 97%      |
| Alkalinity                    | 1,294        | 0,018         | 1,26   | 0,09   | $\text{mmol/l}$         | 97%      |
| Hydrogen carbonate            | 75,9         | 1,1           | 77,0   | 5,7    | $\text{mg/l}$           | 101%     |
| Calcium                       | 39,6         | 0,6           | 37,7   | 1,8    | $\text{mg/l}$           | 95%      |
| Magnesium                     | 8,07         | 0,10          | 8,1    | 0,5    | $\text{mg/l}$           | 100%     |
| Sodium                        | 30,8         | 0,2           | 30,2   | 1,5    | $\text{mg/l}$           | 98%      |
| Potassium                     | 6,98         | 0,04          | 7,0    | 0,3    | $\text{mg/l}$           | 100%     |
| Nitrate                       | 51,3         | 1,2           | 53,3   | 5,1    | $\text{mg/l}$           | 104%     |
| Nitrite                       | 0,0203       | 0,0018        | 0,0213 | 0,0033 | $\text{mg/l}$           | 105%     |
| Ammonium                      | <0,01        |               | <0,010 |        | $\text{mg/l}$           | •        |
| Chloride                      | 28,6         | 0,4           | 34,0   | 2,7    | $\text{mg/l}$           | 119%     |
| Sulphate                      | 58,9         | 0,4           | 61,4   | 4,8    | $\text{mg/l}$           | 104%     |
| Orthophosphate                | 0,061        | 0,001         | 0,061  | 0,009  | $\text{mg/l}$           | 100%     |
| Boron                         | 0,0544       | 0,0004        | 0,0548 | 0,0058 | $\text{mg/l}$           | 101%     |
| DOC                           | 4,88         | 0,05          | 5,1    | 1,0    | $\text{mg/l}$           | 105%     |
| Total P (as PO <sub>4</sub> ) | 0,187        | 0,003         | 0,178  | 0,018  | $\text{mg/l}$           | 95%      |
| KMnO <sub>4</sub> -Index      | 5,64         | 0,15          |        |        | $\text{mg/l}$           |          |



Sample N167A

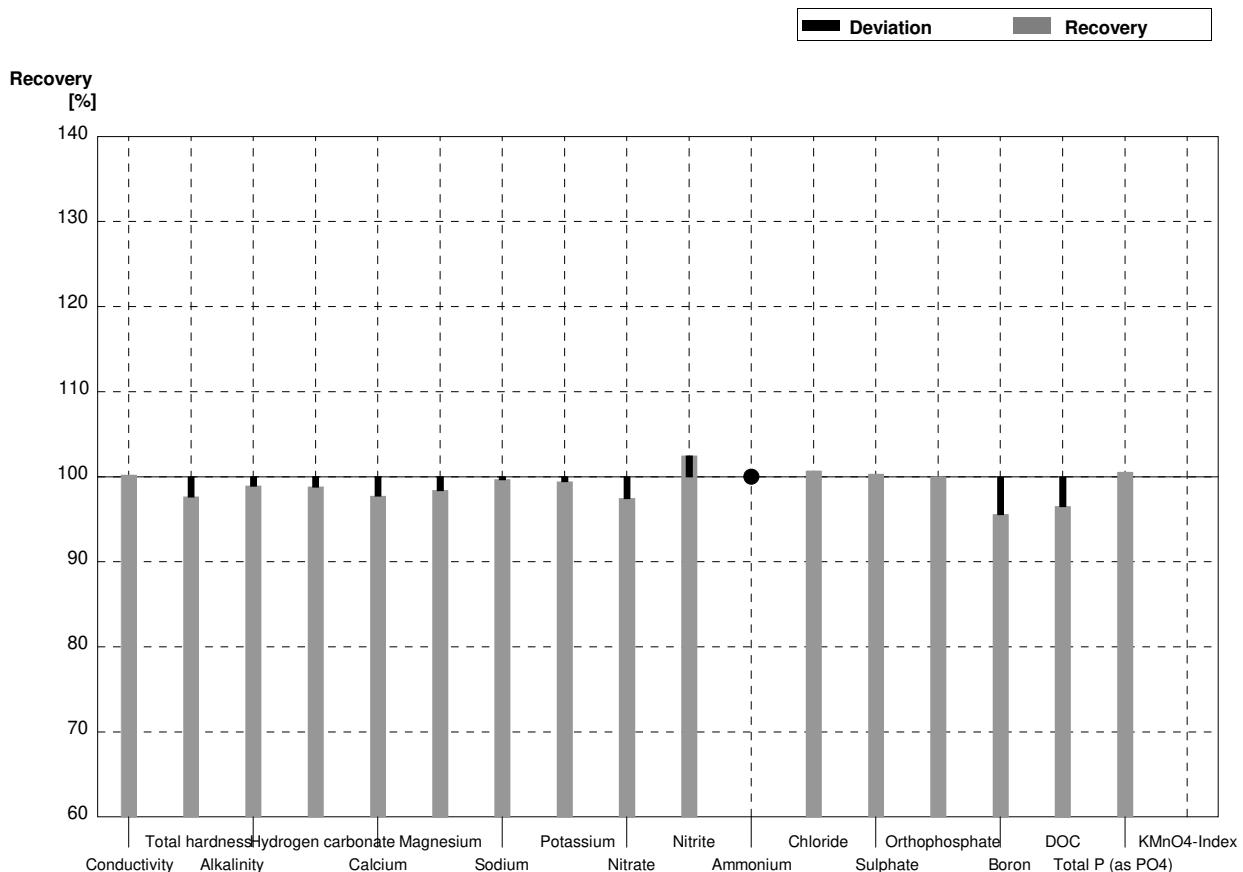
Laboratory AH

| Parameter          | Target value | ± U (k=2) | Result | ±      | Unit   | Recovery |
|--------------------|--------------|-----------|--------|--------|--------|----------|
| Conductivity       | 544          | 2         | 544    | 16     | µS/cm  | 100%     |
| Total hardness     | 1,94         | 0,02      | 1,92   | 0,16   | mmol/l | 99%      |
| Alkalinity         | 2,36         | 0,03      | 2,32   | 0,09   | mmol/l | 98%      |
| Hydrogen carbonate | 140,9        | 1,7       | 138    | 6      | mg/l   | 98%      |
| Calcium            | 60,1         | 0,9       | 59,3   | 3,0    | mg/l   | 99%      |
| Magnesium          | 10,79        | 0,14      | 10,6   | 0,7    | mg/l   | 98%      |
| Sodium             | 24,9         | 0,3       | 24,8   | 1,0    | mg/l   | 100%     |
| Potassium          | 8,81         | 0,06      | 8,78   | 0,70   | mg/l   | 100%     |
| Nitrate            | 37,2         | 0,7       | 36,1   | 2,2    | mg/l   | 97%      |
| Nitrite            | 0,0404       | 0,0009    | 0,0421 | 0,0035 | mg/l   | 104%     |
| Ammonium           | 0,070        | 0,004     | 0,071  | 0,007  | mg/l   | 101%     |
| Chloride           | 54,8         | 1,2       | 55,2   | 2,8    | mg/l   | 101%     |
| Sulphate           | 34,7         | 0,4       | 35,4   | 2,2    | mg/l   | 102%     |
| Orthophosphate     | <0,009       |           | <0,006 |        | mg/l   | •        |
| Boron              | 0,1265       | 0,0012    | 0,119  | 0,012  | mg/l   | 94%      |
| DOC                | 1,89         | 0,04      | 1,88   | 0,17   | mg/l   | 99%      |
| Total P (as PO4)   | <0,009       |           | <0,006 |        | mg/l   | •        |
| KMnO4-Index        | 3,51         | 0,12      |        |        | mg/l   |          |



**Sample N167B**  
**Laboratory AH**

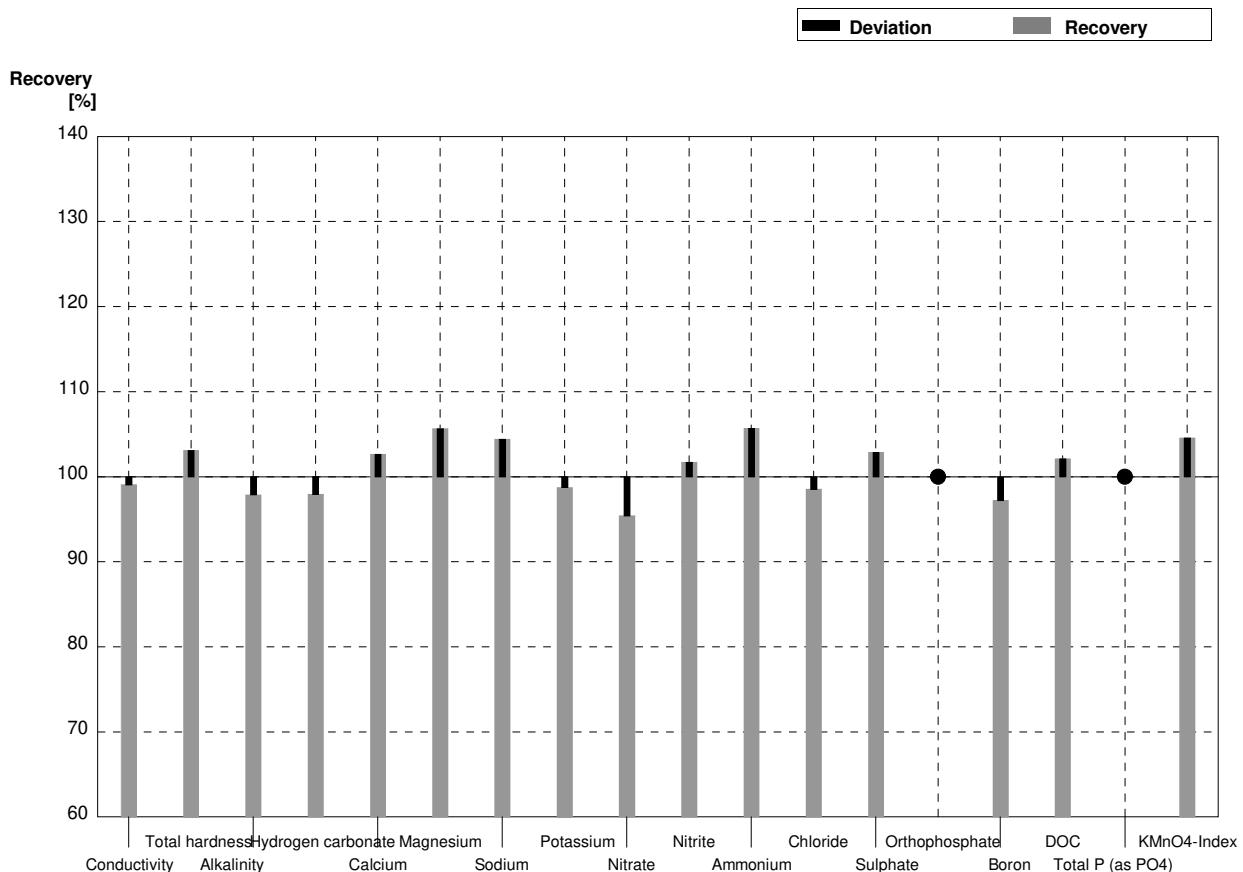
| Parameter                     | Target value | $\pm U$ (k=2) | Result | $\pm$  | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|--------|-------------------------|----------|
| Conductivity                  | 444          | 1             | 445    | 13     | $\mu\text{S}/\text{cm}$ | 100%     |
| Total hardness                | 1,321        | 0,015         | 1,29   | 0,11   | $\text{mmol/l}$         | 98%      |
| Alkalinity                    | 1,294        | 0,018         | 1,28   | 0,06   | $\text{mmol/l}$         | 99%      |
| Hydrogen carbonate            | 75,9         | 1,1           | 75,0   | 3,0    | $\text{mg/l}$           | 99%      |
| Calcium                       | 39,6         | 0,6           | 38,7   | 2,0    | $\text{mg/l}$           | 98%      |
| Magnesium                     | 8,07         | 0,10          | 7,94   | 0,48   | $\text{mg/l}$           | 98%      |
| Sodium                        | 30,8         | 0,2           | 30,7   | 1,2    | $\text{mg/l}$           | 100%     |
| Potassium                     | 6,98         | 0,04          | 6,94   | 0,56   | $\text{mg/l}$           | 99%      |
| Nitrate                       | 51,3         | 1,2           | 50,0   | 3,0    | $\text{mg/l}$           | 97%      |
| Nitrite                       | 0,0203       | 0,0018        | 0,0208 | 0,0020 | $\text{mg/l}$           | 102%     |
| Ammonium                      | <0,01        |               | <0,008 |        | $\text{mg/l}$           | •        |
| Chloride                      | 28,6         | 0,4           | 28,8   | 1,5    | $\text{mg/l}$           | 101%     |
| Sulphate                      | 58,9         | 0,4           | 59,1   | 3,6    | $\text{mg/l}$           | 100%     |
| Orthophosphate                | 0,061        | 0,001         | 0,061  | 0,004  | $\text{mg/l}$           | 100%     |
| Boron                         | 0,0544       | 0,0004        | 0,052  | 0,005  | $\text{mg/l}$           | 96%      |
| DOC                           | 4,88         | 0,05          | 4,71   | 0,42   | $\text{mg/l}$           | 97%      |
| Total P (as PO <sub>4</sub> ) | 0,187        | 0,003         | 0,188  | 0,013  | $\text{mg/l}$           | 101%     |
| KMnO <sub>4</sub> -Index      | 5,64         | 0,15          |        |        | $\text{mg/l}$           |          |



Sample N167A

Laboratory Al

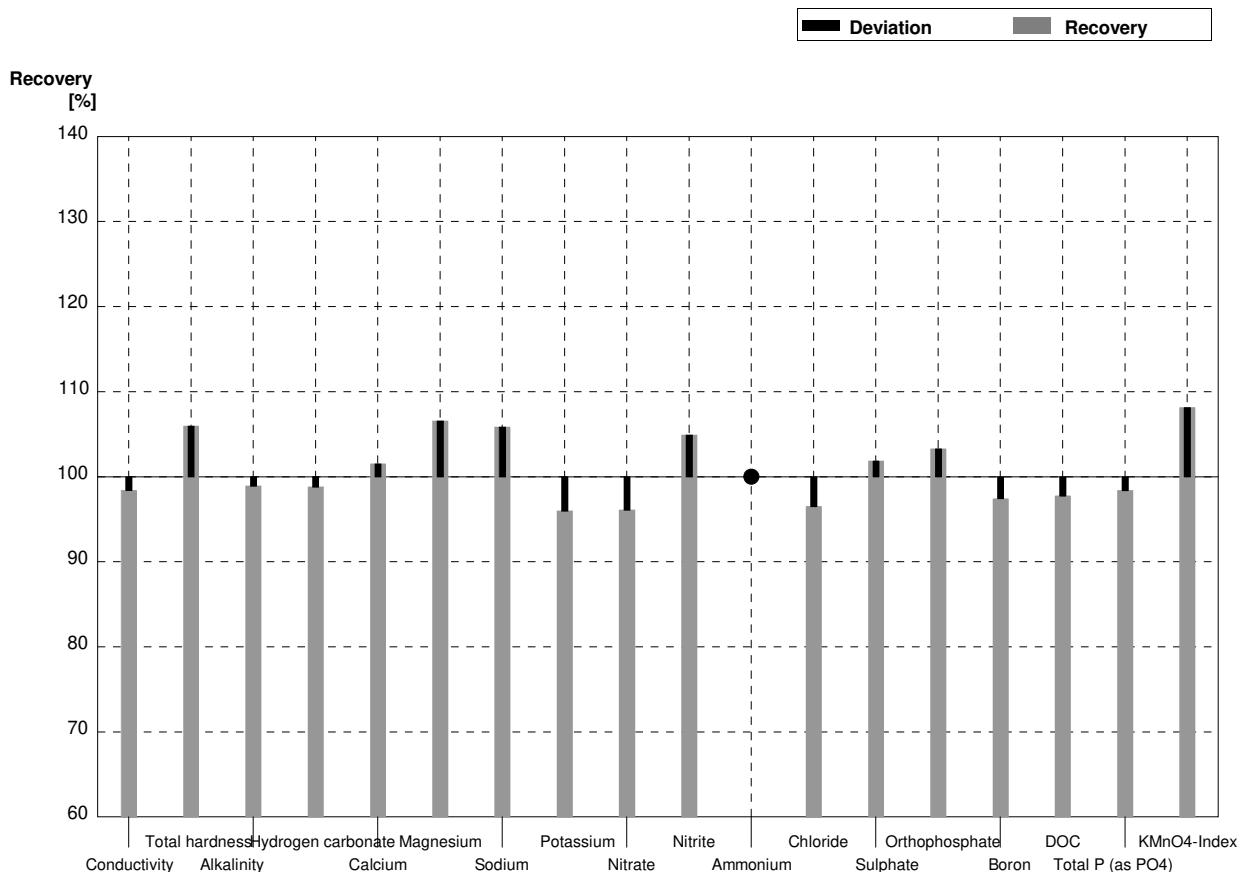
| Parameter          | Target value | $\pm$ U (k=2) | Result | $\pm$  | Unit                    | Recovery |
|--------------------|--------------|---------------|--------|--------|-------------------------|----------|
| Conductivity       | 544          | 2             | 539    | 53,9   | $\mu\text{S}/\text{cm}$ | 99%      |
| Total hardness     | 1,94         | 0,02          | 2,00   | 0,20   | $\text{mmol/l}$         | 103%     |
| Alkalinity         | 2,36         | 0,03          | 2,31   | 0,23   | $\text{mmol/l}$         | 98%      |
| Hydrogen carbonate | 140,9        | 1,7           | 138    | 7      | $\text{mg/l}$           | 98%      |
| Calcium            | 60,1         | 0,9           | 61,7   | 3,1    | $\text{mg/l}$           | 103%     |
| Magnesium          | 10,79        | 0,14          | 11,4   | 0,6    | $\text{mg/l}$           | 106%     |
| Sodium             | 24,9         | 0,3           | 26,0   | 2,6    | $\text{mg/l}$           | 104%     |
| Potassium          | 8,81         | 0,06          | 8,7    | 0,9    | $\text{mg/l}$           | 99%      |
| Nitrate            | 37,2         | 0,7           | 35,5   | 2,4    | $\text{mg/l}$           | 95%      |
| Nitrite            | 0,0404       | 0,0009        | 0,0411 | 0,0062 | $\text{mg/l}$           | 102%     |
| Ammonium           | 0,070        | 0,004         | 0,074  | 0,013  | $\text{mg/l}$           | 106%     |
| Chloride           | 54,8         | 1,2           | 54,0   | 2,7    | $\text{mg/l}$           | 99%      |
| Sulphate           | 34,7         | 0,4           | 35,7   | 1,8    | $\text{mg/l}$           | 103%     |
| Orthophosphate     | <0,009       |               | <0,006 |        | $\text{mg/l}$           | •        |
| Boron              | 0,1265       | 0,0012        | 0,123  | 0,012  | $\text{mg/l}$           | 97%      |
| DOC                | 1,89         | 0,04          | 1,93   | 0,19   | $\text{mg/l}$           | 102%     |
| Total P (as PO4)   | <0,009       |               | <0,005 |        | $\text{mg/l}$           | •        |
| KMnO4-Index        | 3,51         | 0,12          | 3,67   | 0,55   | $\text{mg/l}$           | 105%     |



Sample N167B

Laboratory Al

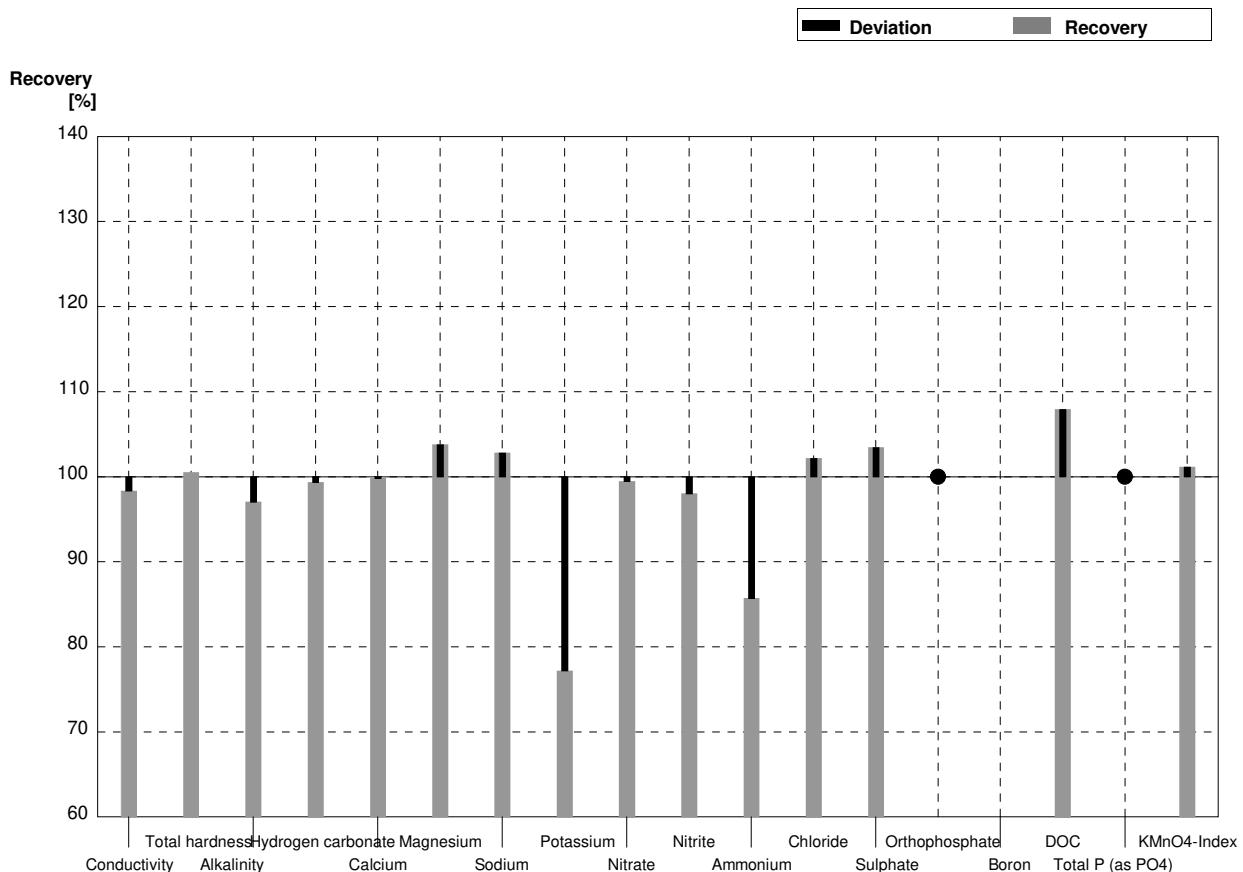
| Parameter                     | Target value | $\pm$ U (k=2) | Result | $\pm$  | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|--------|-------------------------|----------|
| Conductivity                  | 444          | 1             | 437    | 43,7   | $\mu\text{S}/\text{cm}$ | 98%      |
| Total hardness                | 1,321        | 0,015         | 1,40   | 0,14   | $\text{mmol/l}$         | 106%     |
| Alkalinity                    | 1,294        | 0,018         | 1,28   | 0,13   | $\text{mmol/l}$         | 99%      |
| Hydrogen carbonate            | 75,9         | 1,1           | 75     | 4      | $\text{mg/l}$           | 99%      |
| Calcium                       | 39,6         | 0,6           | 40,2   | 2,0    | $\text{mg/l}$           | 102%     |
| Magnesium                     | 8,07         | 0,10          | 8,6    | 0,4    | $\text{mg/l}$           | 107%     |
| Sodium                        | 30,8         | 0,2           | 32,6   | 3,3    | $\text{mg/l}$           | 106%     |
| Potassium                     | 6,98         | 0,04          | 6,7    | 0,7    | $\text{mg/l}$           | 96%      |
| Nitrate                       | 51,3         | 1,2           | 49,3   | 3,3    | $\text{mg/l}$           | 96%      |
| Nitrite                       | 0,0203       | 0,0018        | 0,0213 | 0,0064 | $\text{mg/l}$           | 105%     |
| Ammonium                      | <0,01        |               | <0,01  |        | $\text{mg/l}$           | •        |
| Chloride                      | 28,6         | 0,4           | 27,6   | 1,4    | $\text{mg/l}$           | 97%      |
| Sulphate                      | 58,9         | 0,4           | 60,0   | 3,0    | $\text{mg/l}$           | 102%     |
| Orthophosphate                | 0,061        | 0,001         | 0,063  | 0,009  | $\text{mg/l}$           | 103%     |
| Boron                         | 0,0544       | 0,0004        | 0,053  | 0,011  | $\text{mg/l}$           | 97%      |
| DOC                           | 4,88         | 0,05          | 4,77   | 0,48   | $\text{mg/l}$           | 98%      |
| Total P (as PO <sub>4</sub> ) | 0,187        | 0,003         | 0,184  | 0,020  | $\text{mg/l}$           | 98%      |
| KMnO <sub>4</sub> -Index      | 5,64         | 0,15          | 6,1    | 0,92   | $\text{mg/l}$           | 108%     |



Sample N167A

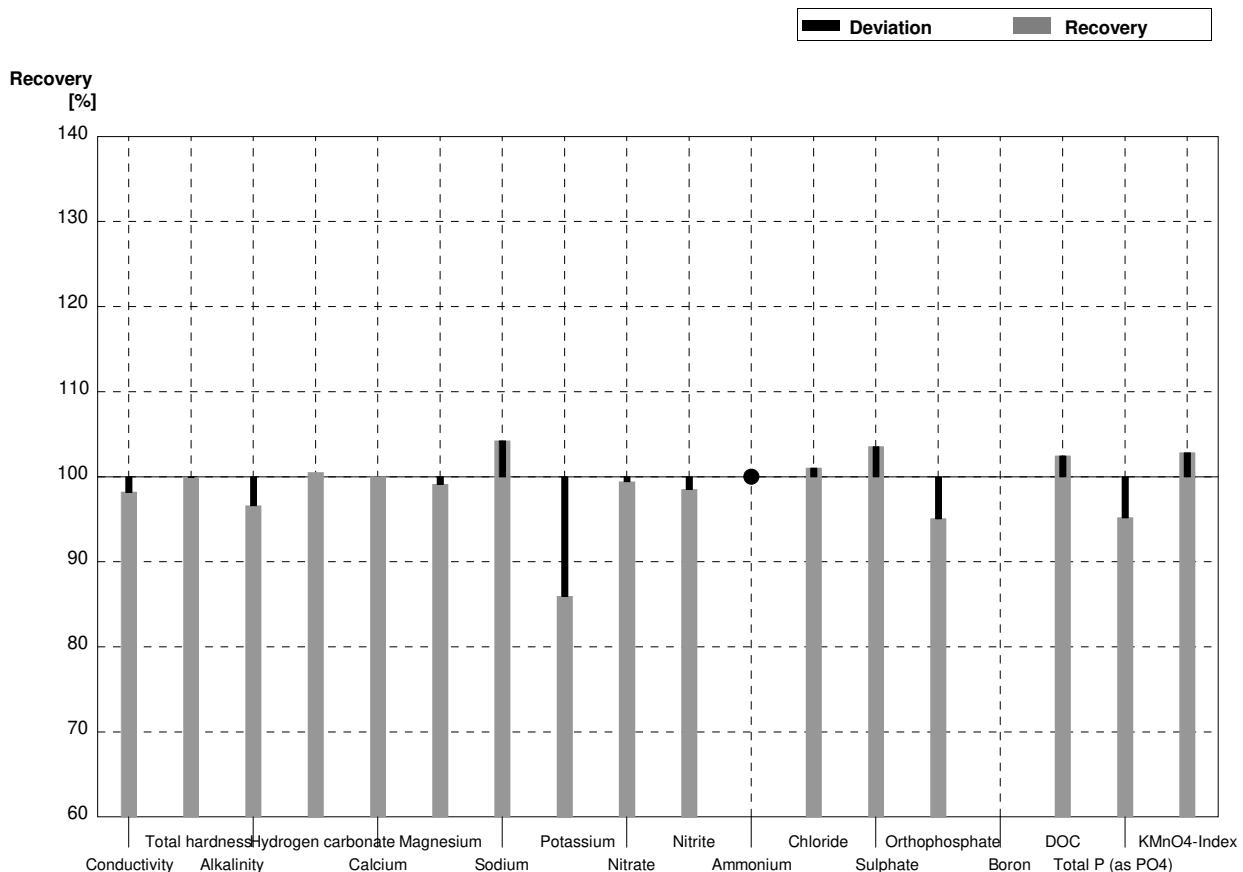
Laboratory AJ

| Parameter          | Target value | ± U (k=2) | Result | ±      | Unit   | Recovery |
|--------------------|--------------|-----------|--------|--------|--------|----------|
| Conductivity       | 544          | 2         | 535    | 12     | µS/cm  | 98%      |
| Total hardness     | 1,94         | 0,02      | 1,95   | 0,16   | mmol/l | 101%     |
| Alkalinity         | 2,36         | 0,03      | 2,29   | 0,11   | mmol/l | 97%      |
| Hydrogen carbonate | 140,9        | 1,7       | 140    | 7      | mg/l   | 99%      |
| Calcium            | 60,1         | 0,9       | 60     | 3      | mg/l   | 100%     |
| Magnesium          | 10,79        | 0,14      | 11,2   | 0,5    | mg/l   | 104%     |
| Sodium             | 24,9         | 0,3       | 25,6   | 1,1    | mg/l   | 103%     |
| Potassium          | 8,81         | 0,06      | 6,8    | 0,3    | mg/l   | 77%      |
| Nitrate            | 37,2         | 0,7       | 37,0   | 1,4    | mg/l   | 99%      |
| Nitrite            | 0,0404       | 0,0009    | 0,0396 | 0,0029 | mg/l   | 98%      |
| Ammonium           | 0,070        | 0,004     | 0,060  | 0,008  | mg/l   | 86%      |
| Chloride           | 54,8         | 1,2       | 56     | 3      | mg/l   | 102%     |
| Sulphate           | 34,7         | 0,4       | 35,9   | 1,4    | mg/l   | 103%     |
| Orthophosphate     | <0,009       |           | <0,01  |        | mg/l   | •        |
| Boron              | 0,1265       | 0,0012    |        |        | mg/l   |          |
| DOC                | 1,89         | 0,04      | 2,04   | 0,26   | mg/l   | 108%     |
| Total P (as PO4)   | <0,009       |           | <0,01  |        | mg/l   | •        |
| KMnO4-Index        | 3,51         | 0,12      | 3,55   | 0,48   | mg/l   | 101%     |



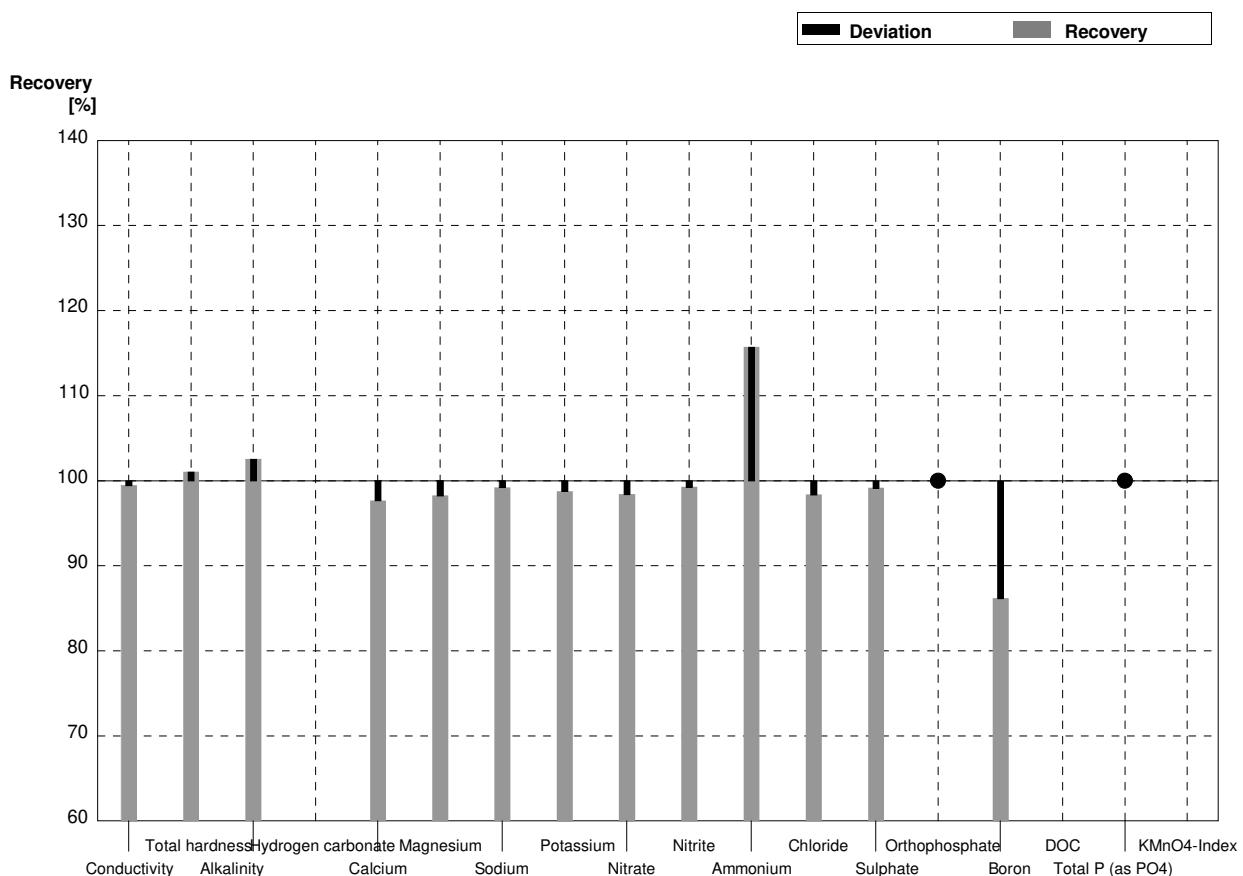
**Sample N167B**  
**Laboratory AJ**

| Parameter                     | Target value | $\pm$ U (k=2) | Result | $\pm$  | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|--------|-------------------------|----------|
| Conductivity                  | 444          | 1             | 436    | 10     | $\mu\text{S}/\text{cm}$ | 98%      |
| Total hardness                | 1,321        | 0,015         | 1,32   | 0,11   | $\text{mmol/l}$         | 100%     |
| Alkalinity                    | 1,294        | 0,018         | 1,250  | 0,055  | $\text{mmol/l}$         | 97%      |
| Hydrogen carbonate            | 75,9         | 1,1           | 76,3   | 3,4    | $\text{mg/l}$           | 101%     |
| Calcium                       | 39,6         | 0,6           | 39,6   | 1,8    | $\text{mg/l}$           | 100%     |
| Magnesium                     | 8,07         | 0,10          | 8,0    | 0,3    | $\text{mg/l}$           | 99%      |
| Sodium                        | 30,8         | 0,2           | 32,1   | 1,4    | $\text{mg/l}$           | 104%     |
| Potassium                     | 6,98         | 0,04          | 6,0    | 0,3    | $\text{mg/l}$           | 86%      |
| Nitrate                       | 51,3         | 1,2           | 51     | 2      | $\text{mg/l}$           | 99%      |
| Nitrite                       | 0,0203       | 0,0018        | 0,0200 | 0,0015 | $\text{mg/l}$           | 99%      |
| Ammonium                      | <0,01        |               | <0,02  |        | $\text{mg/l}$           | •        |
| Chloride                      | 28,6         | 0,4           | 28,9   | 1,1    | $\text{mg/l}$           | 101%     |
| Sulphate                      | 58,9         | 0,4           | 61     | 3      | $\text{mg/l}$           | 104%     |
| Orthophosphate                | 0,061        | 0,001         | 0,058  | 0,005  | $\text{mg/l}$           | 95%      |
| Boron                         | 0,0544       | 0,0004        |        |        | $\text{mg/l}$           |          |
| DOC                           | 4,88         | 0,05          | 5,0    | 0,7    | $\text{mg/l}$           | 102%     |
| Total P (as PO <sub>4</sub> ) | 0,187        | 0,003         | 0,178  | 0,038  | $\text{mg/l}$           | 95%      |
| KMnO <sub>4</sub> -Index      | 5,64         | 0,15          | 5,8    | 0,8    | $\text{mg/l}$           | 103%     |



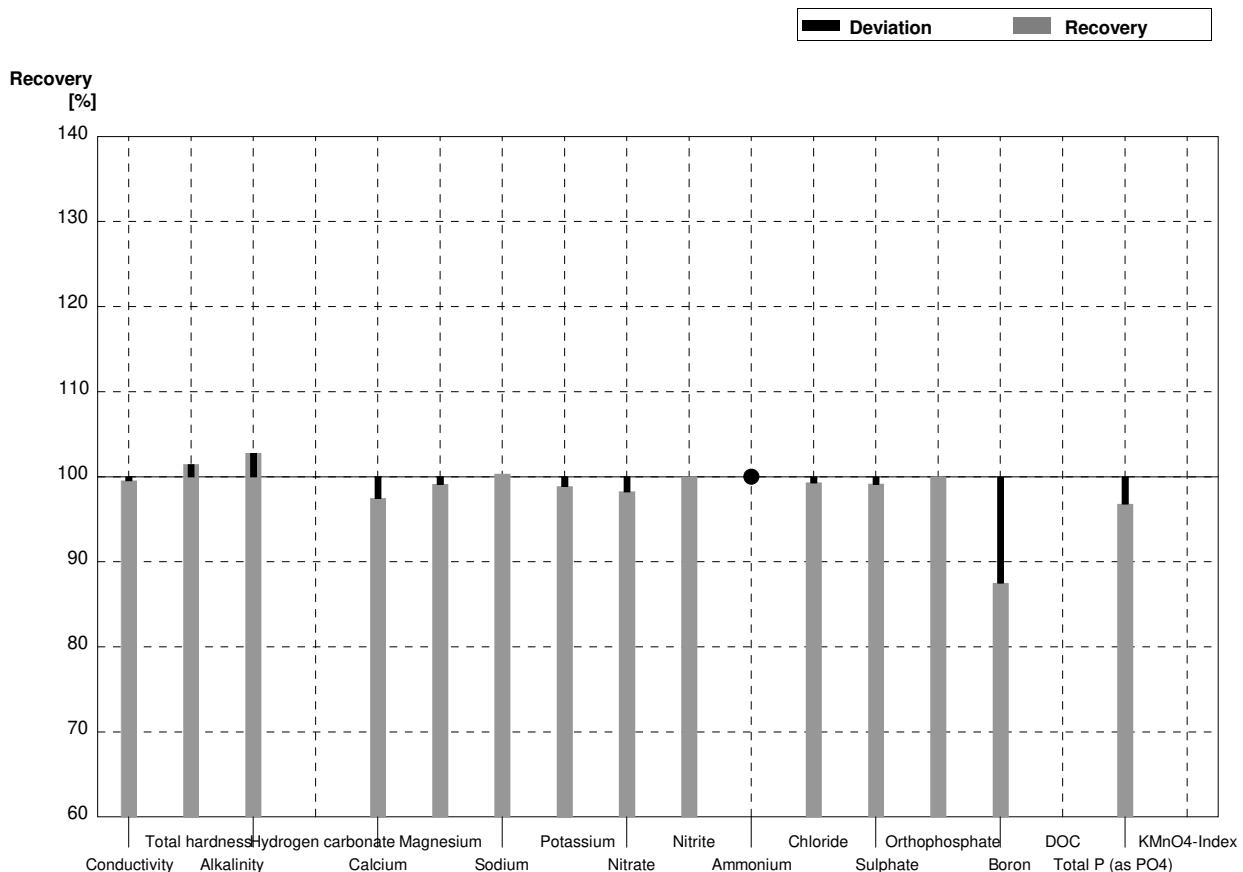
**Sample N167A**  
**Laboratory AK**

| Parameter                     | Target value | $\pm$ U (k=2) | Result | $\pm$  | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|--------|-------------------------|----------|
| Conductivity                  | 544          | 2             | 541    | 27,1   | $\mu\text{S}/\text{cm}$ | 99%      |
| Total hardness                | 1,94         | 0,02          | 1,96   | 0,10   | $\text{mmol/l}$         | 101%     |
| Alkalinity                    | 2,36         | 0,03          | 2,42   | 0,12   | $\text{mmol/l}$         | 103%     |
| Hydrogen carbonate            | 140,9        | 1,7           |        |        | $\text{mg/l}$           |          |
| Calcium                       | 60,1         | 0,9           | 58,7   | 1,76   | $\text{mg/l}$           | 98%      |
| Magnesium                     | 10,79        | 0,14          | 10,6   | 0,36   | $\text{mg/l}$           | 98%      |
| Sodium                        | 24,9         | 0,3           | 24,7   | 0,32   | $\text{mg/l}$           | 99%      |
| Potassium                     | 8,81         | 0,06          | 8,7    | 0,26   | $\text{mg/l}$           | 99%      |
| Nitrate                       | 37,2         | 0,7           | 36,6   | 0,94   | $\text{mg/l}$           | 98%      |
| Nitrite                       | 0,0404       | 0,0009        | 0,0401 | 0,0019 | $\text{mg/l}$           | 99%      |
| Ammonium                      | 0,070        | 0,004         | 0,081  | 0,016  | $\text{mg/l}$           | 116%     |
| Chloride                      | 54,8         | 1,2           | 53,9   | 1,58   | $\text{mg/l}$           | 98%      |
| Sulphate                      | 34,7         | 0,4           | 34,4   | 0,95   | $\text{mg/l}$           | 99%      |
| Orthophosphate                | <0,009       |               | <0,003 |        | $\text{mg/l}$           | •        |
| Boron                         | 0,1265       | 0,0012        | 0,109  | 0,0116 | $\text{mg/l}$           | 86%      |
| DOC                           | 1,89         | 0,04          |        |        | $\text{mg/l}$           |          |
| Total P (as PO <sub>4</sub> ) | <0,009       |               | <0,003 |        | $\text{mg/l}$           | •        |
| KMnO <sub>4</sub> -Index      | 3,51         | 0,12          |        |        | $\text{mg/l}$           |          |



**Sample N167B**  
**Laboratory AK**

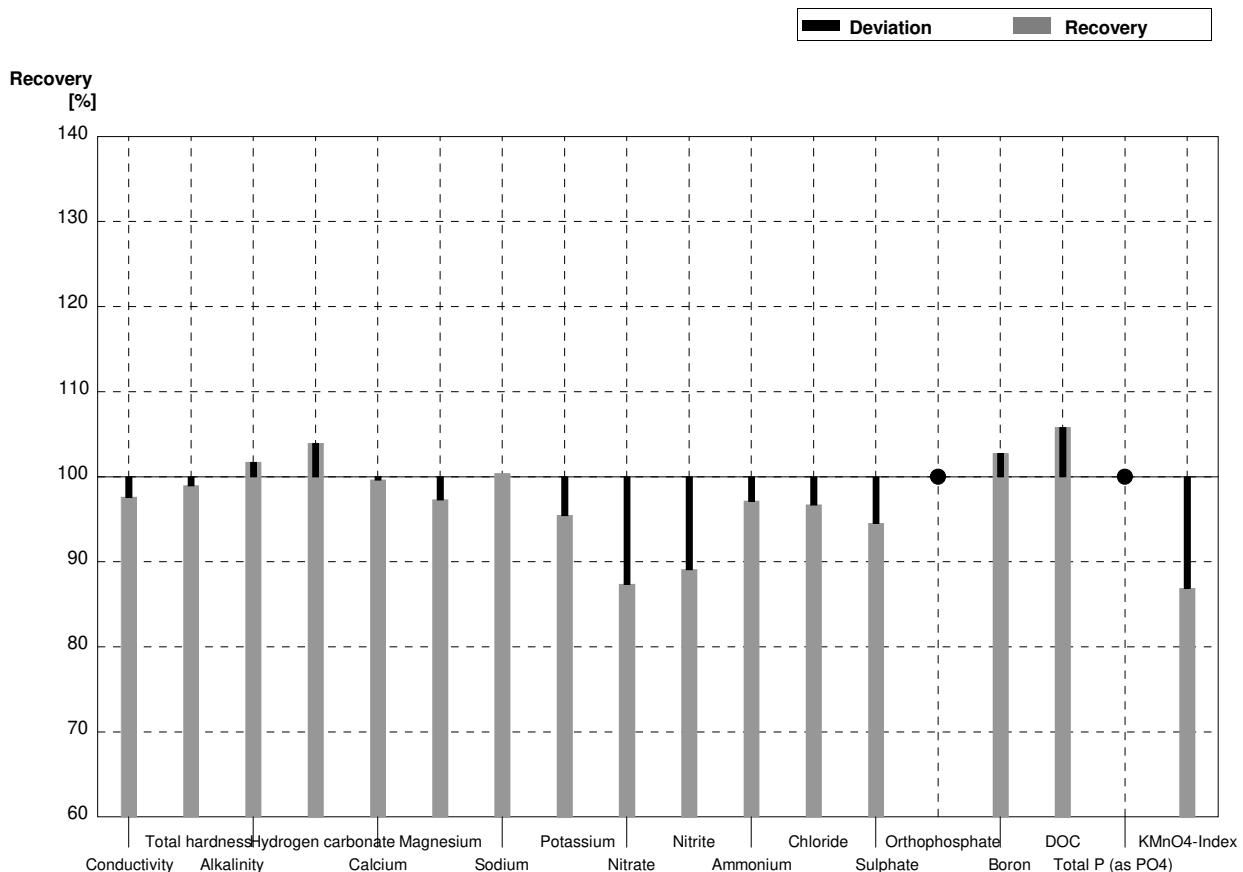
| Parameter          | Target value | ± U (k=2) | Result | ±      | Unit   | Recovery |
|--------------------|--------------|-----------|--------|--------|--------|----------|
| Conductivity       | 444          | 1         | 442    | 22,1   | µS/cm  | 100%     |
| Total hardness     | 1,321        | 0,015     | 1,34   | 0,07   | mmol/l | 101%     |
| Alkalinity         | 1,294        | 0,018     | 1,33   | 0,07   | mmol/l | 103%     |
| Hydrogen carbonate | 75,9         | 1,1       |        |        | mg/l   |          |
| Calcium            | 39,6         | 0,6       | 38,6   | 1,16   | mg/l   | 97%      |
| Magnesium          | 8,07         | 0,10      | 8,0    | 0,27   | mg/l   | 99%      |
| Sodium             | 30,8         | 0,2       | 30,9   | 0,40   | mg/l   | 100%     |
| Potassium          | 6,98         | 0,04      | 6,9    | 0,21   | mg/l   | 99%      |
| Nitrate            | 51,3         | 1,2       | 50,4   | 1,30   | mg/l   | 98%      |
| Nitrite            | 0,0203       | 0,0018    | 0,0203 | 0,0010 | mg/l   | 100%     |
| Ammonium           | <0,01        |           | <0,012 |        | mg/l   | •        |
| Chloride           | 28,6         | 0,4       | 28,4   | 0,83   | mg/l   | 99%      |
| Sulphate           | 58,9         | 0,4       | 58,4   | 1,61   | mg/l   | 99%      |
| Orthophosphate     | 0,061        | 0,001     | 0,061  | 0,005  | mg/l   | 100%     |
| Boron              | 0,0544       | 0,0004    | 0,0476 | 0,0051 | mg/l   | 88%      |
| DOC                | 4,88         | 0,05      |        |        | mg/l   |          |
| Total P (as PO4)   | 0,187        | 0,003     | 0,181  | 0,009  | mg/l   | 97%      |
| KMnO4-Index        | 5,64         | 0,15      |        |        | mg/l   |          |



Sample N167A

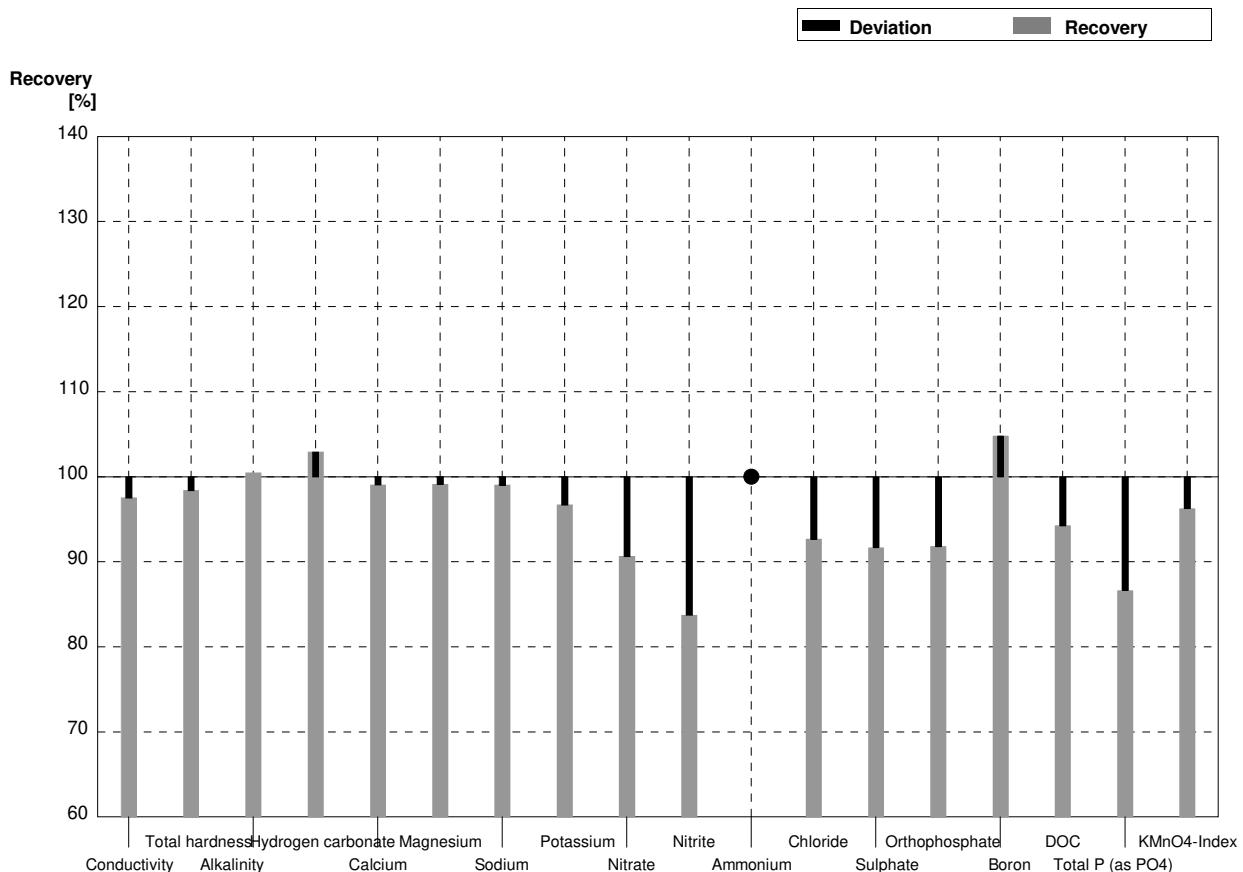
Laboratory AL

| Parameter                     | Target value | $\pm$ U (k=2) | Result | $\pm$ | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|-------|-------------------------|----------|
| Conductivity                  | 544          | 2             | 531,0  | 25    | $\mu\text{S}/\text{cm}$ | 98%      |
| Total hardness                | 1,94         | 0,02          | 1,92   | 0,2   | $\text{mmol/l}$         | 99%      |
| Alkalinity                    | 2,36         | 0,03          | 2,40   | 0,25  | $\text{mmol/l}$         | 102%     |
| Hydrogen carbonate            | 140,9        | 1,7           | 146,44 | 15    | $\text{mg/l}$           | 104%     |
| Calcium                       | 60,1         | 0,9           | 59,88  | 5,0   | $\text{mg/l}$           | 100%     |
| Magnesium                     | 10,79        | 0,14          | 10,5   | 1,0   | $\text{mg/l}$           | 97%      |
| Sodium                        | 24,9         | 0,3           | 25,0   | 2,5   | $\text{mg/l}$           | 100%     |
| Potassium                     | 8,81         | 0,06          | 8,41   | 0,8   | $\text{mg/l}$           | 95%      |
| Nitrate                       | 37,2         | 0,7           | 32,5   | 3     | $\text{mg/l}$           | 87%      |
| Nitrite                       | 0,0404       | 0,0009        | 0,036  | 0,004 | $\text{mg/l}$           | 89%      |
| Ammonium                      | 0,070        | 0,004         | 0,068  | 0,007 | $\text{mg/l}$           | 97%      |
| Chloride                      | 54,8         | 1,2           | 53,0   | 5     | $\text{mg/l}$           | 97%      |
| Sulphate                      | 34,7         | 0,4           | 32,8   | 3     | $\text{mg/l}$           | 95%      |
| Orthophosphate                | <0,009       |               | <0,04  |       | $\text{mg/l}$           | •        |
| Boron                         | 0,1265       | 0,0012        | 0,130  | 0,013 | $\text{mg/l}$           | 103%     |
| DOC                           | 1,89         | 0,04          | 2,0    | 0,2   | $\text{mg/l}$           | 106%     |
| Total P (as PO <sub>4</sub> ) | <0,009       |               | <0,04  |       | $\text{mg/l}$           | •        |
| KMnO <sub>4</sub> -Index      | 3,51         | 0,12          | 3,05   | 0,3   | $\text{mg/l}$           | 87%      |



**Sample N167B**  
**Laboratory AL**

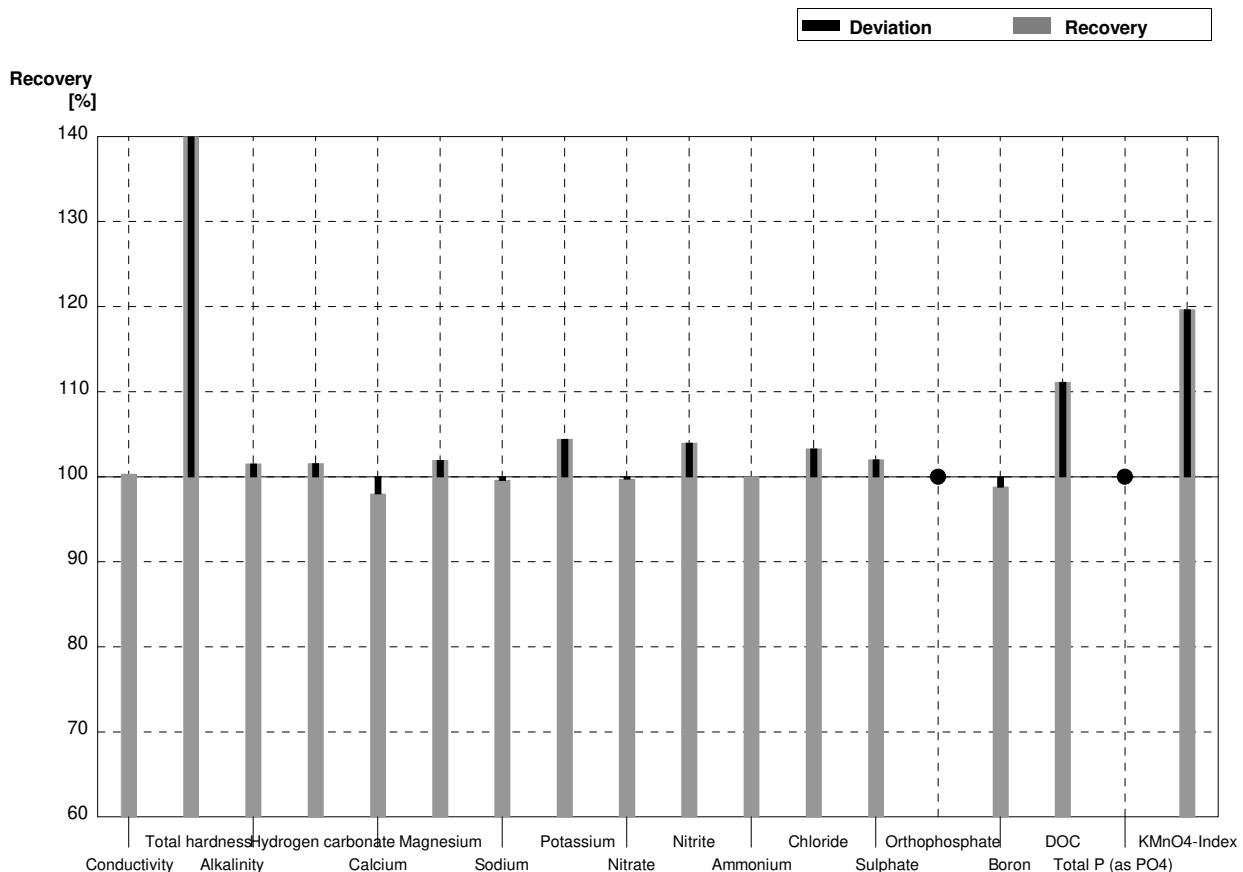
| Parameter                     | Target value | $\pm$ U (k=2) | Result | $\pm$ | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|-------|-------------------------|----------|
| Conductivity                  | 444          | 1             | 433,0  | 20    | $\mu\text{S}/\text{cm}$ | 98%      |
| Total hardness                | 1,321        | 0,015         | 1,30   | 0,13  | $\text{mmol/l}$         | 98%      |
| Alkalinity                    | 1,294        | 0,018         | 1,30   | 0,13  | $\text{mmol/l}$         | 100%     |
| Hydrogen carbonate            | 75,9         | 1,1           | 78,1   | 8,0   | $\text{mg/l}$           | 103%     |
| Calcium                       | 39,6         | 0,6           | 39,22  | 4,0   | $\text{mg/l}$           | 99%      |
| Magnesium                     | 8,07         | 0,10          | 8,0    | 0,8   | $\text{mg/l}$           | 99%      |
| Sodium                        | 30,8         | 0,2           | 30,5   | 3     | $\text{mg/l}$           | 99%      |
| Potassium                     | 6,98         | 0,04          | 6,75   | 0,6   | $\text{mg/l}$           | 97%      |
| Nitrate                       | 51,3         | 1,2           | 46,5   | 4     | $\text{mg/l}$           | 91%      |
| Nitrite                       | 0,0203       | 0,0018        | 0,017  | 0,002 | $\text{mg/l}$           | 84%      |
| Ammonium                      | <0,01        |               | <0,04  |       | $\text{mg/l}$           | •        |
| Chloride                      | 28,6         | 0,4           | 26,5   | 2,5   | $\text{mg/l}$           | 93%      |
| Sulphate                      | 58,9         | 0,4           | 54,0   | 5     | $\text{mg/l}$           | 92%      |
| Orthophosphate                | 0,061        | 0,001         | 0,056  | 0,006 | $\text{mg/l}$           | 92%      |
| Boron                         | 0,0544       | 0,0004        | 0,057  | 0,006 | $\text{mg/l}$           | 105%     |
| DOC                           | 4,88         | 0,05          | 4,6    | 0,5   | $\text{mg/l}$           | 94%      |
| Total P (as PO <sub>4</sub> ) | 0,187        | 0,003         | 0,162  | 0,016 | $\text{mg/l}$           | 87%      |
| KMnO <sub>4</sub> -Index      | 5,64         | 0,15          | 5,43   | 0,5   | $\text{mg/l}$           | 96%      |



Sample N167A

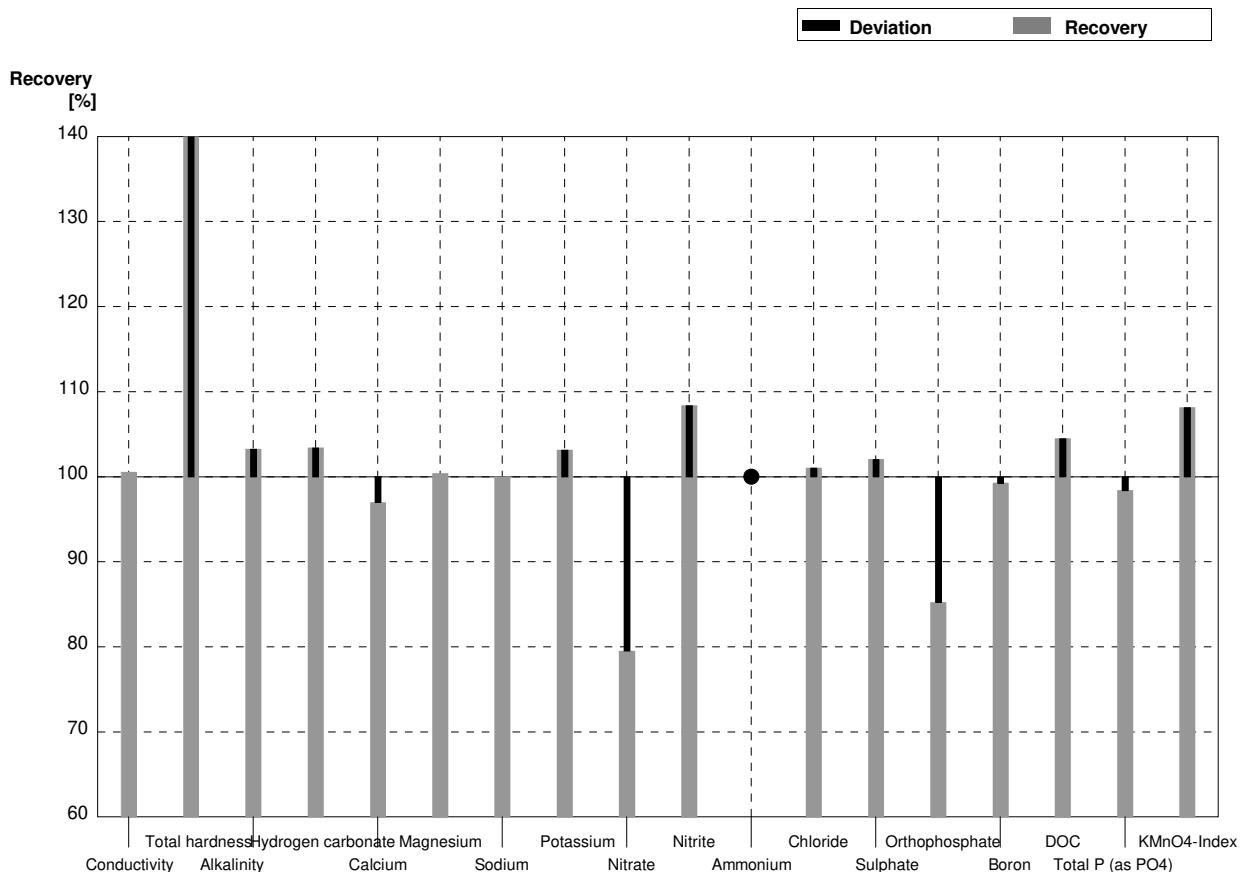
Laboratory AM

| Parameter          | Target value | ± U (k=2) | Result | ± | Unit   | Recovery |
|--------------------|--------------|-----------|--------|---|--------|----------|
| Conductivity       | 544          | 2         | 545,7  |   | µS/cm  | 100%     |
| Total hardness     | 1,94         | 0,02      | 10,8   |   | mmol/l | 557%     |
| Alkalinity         | 2,36         | 0,03      | 2,396  |   | mmol/l | 102%     |
| Hydrogen carbonate | 140,9        | 1,7       | 143,1  |   | mg/l   | 102%     |
| Calcium            | 60,1         | 0,9       | 58,9   |   | mg/l   | 98%      |
| Magnesium          | 10,79        | 0,14      | 11,0   |   | mg/l   | 102%     |
| Sodium             | 24,9         | 0,3       | 24,8   |   | mg/l   | 100%     |
| Potassium          | 8,81         | 0,06      | 9,2    |   | mg/l   | 104%     |
| Nitrate            | 37,2         | 0,7       | 37,1   |   | mg/l   | 100%     |
| Nitrite            | 0,0404       | 0,0009    | 0,0420 |   | mg/l   | 104%     |
| Ammonium           | 0,070        | 0,004     | 0,070  |   | mg/l   | 100%     |
| Chloride           | 54,8         | 1,2       | 56,6   |   | mg/l   | 103%     |
| Sulphate           | 34,7         | 0,4       | 35,4   |   | mg/l   | 102%     |
| Orthophosphate     | <0,009       |           | <0,03  |   | mg/l   | •        |
| Boron              | 0,1265       | 0,0012    | 0,125  |   | mg/l   | 99%      |
| DOC                | 1,89         | 0,04      | 2,10   |   | mg/l   | 111%     |
| Total P (as PO4)   | <0,009       |           | <0,015 |   | mg/l   | •        |
| KMnO4-Index        | 3,51         | 0,12      | 4,20   |   | mg/l   | 120%     |



**Sample N167B**  
**Laboratory AM**

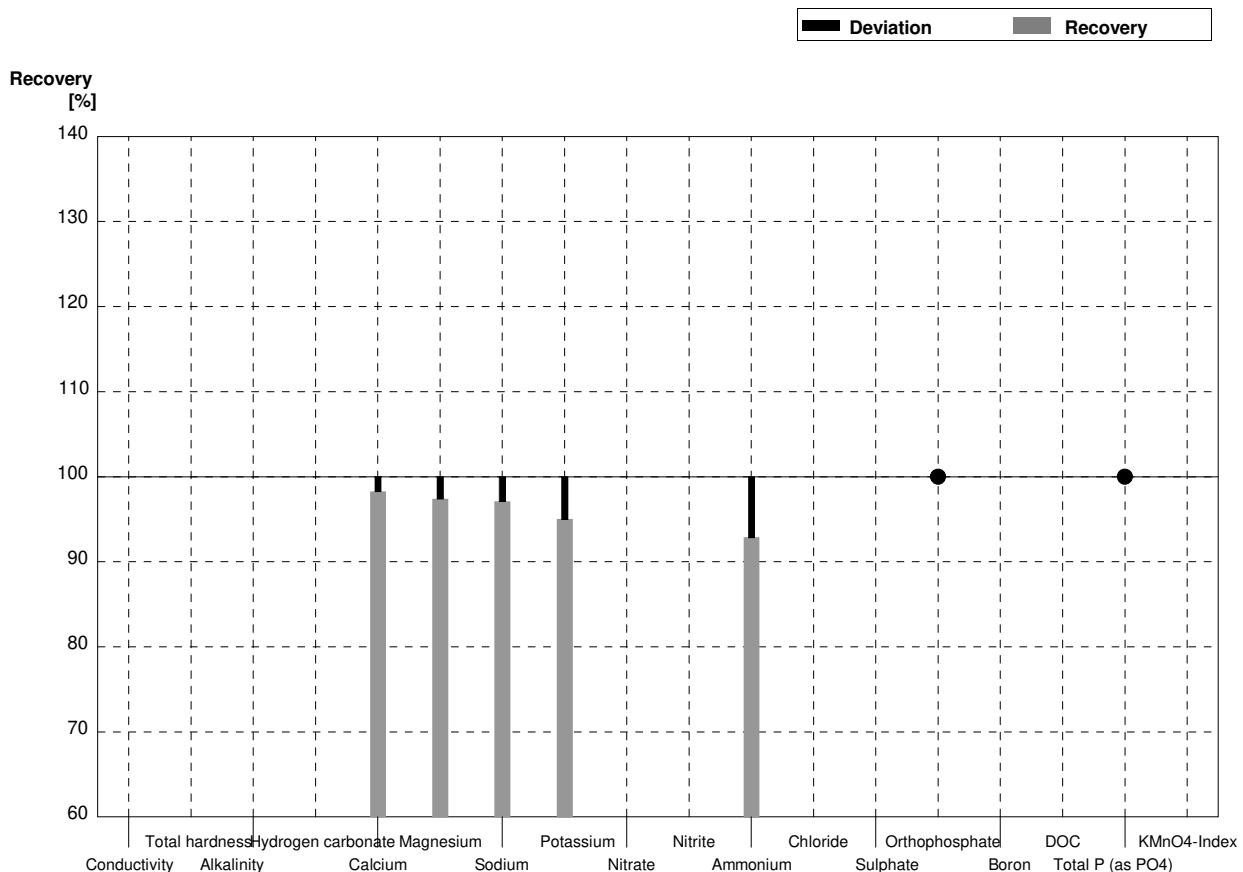
| Parameter          | Target value | $\pm$ U (k=2) | Result | $\pm$ | Unit                    | Recovery |
|--------------------|--------------|---------------|--------|-------|-------------------------|----------|
| Conductivity       | 444          | 1             | 446,4  |       | $\mu\text{S}/\text{cm}$ | 101%     |
| Total hardness     | 1,321        | 0,015         | 7,2    |       | $\text{mmol/l}$         | 545%     |
| Alkalinity         | 1,294        | 0,018         | 1,336  |       | $\text{mmol/l}$         | 103%     |
| Hydrogen carbonate | 75,9         | 1,1           | 78,5   |       | $\text{mg/l}$           | 103%     |
| Calcium            | 39,6         | 0,6           | 38,4   |       | $\text{mg/l}$           | 97%      |
| Magnesium          | 8,07         | 0,10          | 8,1    |       | $\text{mg/l}$           | 100%     |
| Sodium             | 30,8         | 0,2           | 30,8   |       | $\text{mg/l}$           | 100%     |
| Potassium          | 6,98         | 0,04          | 7,20   |       | $\text{mg/l}$           | 103%     |
| Nitrate            | 51,3         | 1,2           | 40,8   |       | $\text{mg/l}$           | 80%      |
| Nitrite            | 0,0203       | 0,0018        | 0,0220 |       | $\text{mg/l}$           | 108%     |
| Ammonium           | <0,01        |               | <0,03  |       | $\text{mg/l}$           | •        |
| Chloride           | 28,6         | 0,4           | 28,9   |       | $\text{mg/l}$           | 101%     |
| Sulphate           | 58,9         | 0,4           | 60,1   |       | $\text{mg/l}$           | 102%     |
| Orthophosphate     | 0,061        | 0,001         | 0,052  |       | $\text{mg/l}$           | 85%      |
| Boron              | 0,0544       | 0,0004        | 0,054  |       | $\text{mg/l}$           | 99%      |
| DOC                | 4,88         | 0,05          | 5,1    |       | $\text{mg/l}$           | 105%     |
| Total P (as PO4)   | 0,187        | 0,003         | 0,184  |       | $\text{mg/l}$           | 98%      |
| KMnO4-Index        | 5,64         | 0,15          | 6,10   |       | $\text{mg/l}$           | 108%     |



Sample N167A

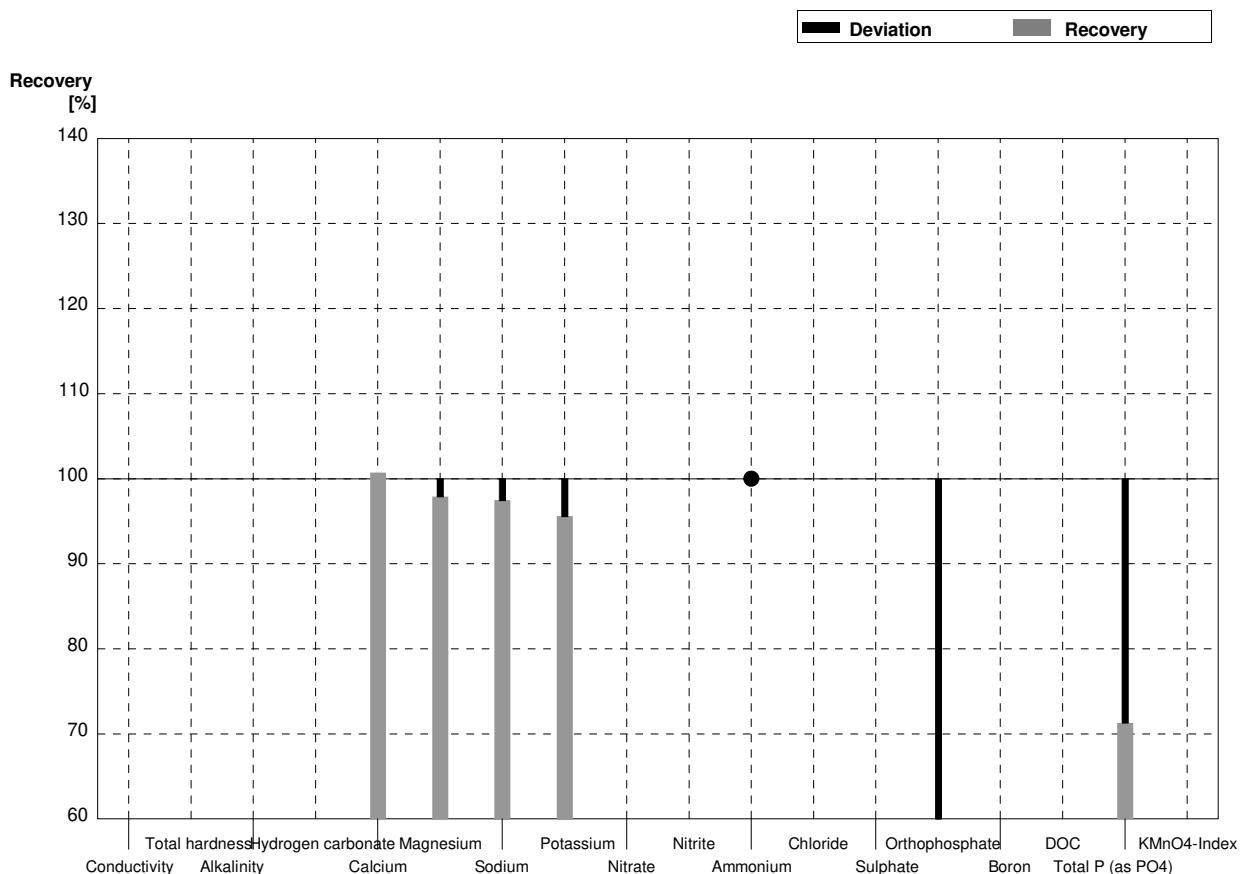
Laboratory AN

| Parameter          | Target value | ± U (k=2) | Result | ±      | Unit   | Recovery |
|--------------------|--------------|-----------|--------|--------|--------|----------|
| Conductivity       | 544          | 2         |        |        | µS/cm  |          |
| Total hardness     | 1,94         | 0,02      |        |        | mmol/l |          |
| Alkalinity         | 2,36         | 0,03      |        |        | mmol/l |          |
| Hydrogen carbonate | 140,9        | 1,7       |        |        | mg/l   |          |
| Calcium            | 60,1         | 0,9       | 59,06  | 2,06   | mg/l   | 98%      |
| Magnesium          | 10,79        | 0,14      | 10,51  | 0,88   | mg/l   | 97%      |
| Sodium             | 24,9         | 0,3       | 24,18  | 1,51   | mg/l   | 97%      |
| Potassium          | 8,81         | 0,06      | 8,37   | 0,29   | mg/l   | 95%      |
| Nitrate            | 37,2         | 0,7       |        |        | mg/l   |          |
| Nitrite            | 0,0404       | 0,0009    |        |        | mg/l   |          |
| Ammonium           | 0,070        | 0,004     | 0,065  | 0,003  | mg/l   | 93%      |
| Chloride           | 54,8         | 1,2       |        |        | mg/l   |          |
| Sulphate           | 34,7         | 0,4       |        |        | mg/l   |          |
| Orthophosphate     | <0,009       |           | <0,010 | 0,0001 | mg/l   | •        |
| Boron              | 0,1265       | 0,0012    |        |        | mg/l   |          |
| DOC                | 1,89         | 0,04      |        |        | mg/l   |          |
| Total P (as PO4)   | <0,009       |           | <0,02  | 0,0066 | mg/l   | •        |
| KMnO4-Index        | 3,51         | 0,12      |        |        | mg/l   |          |



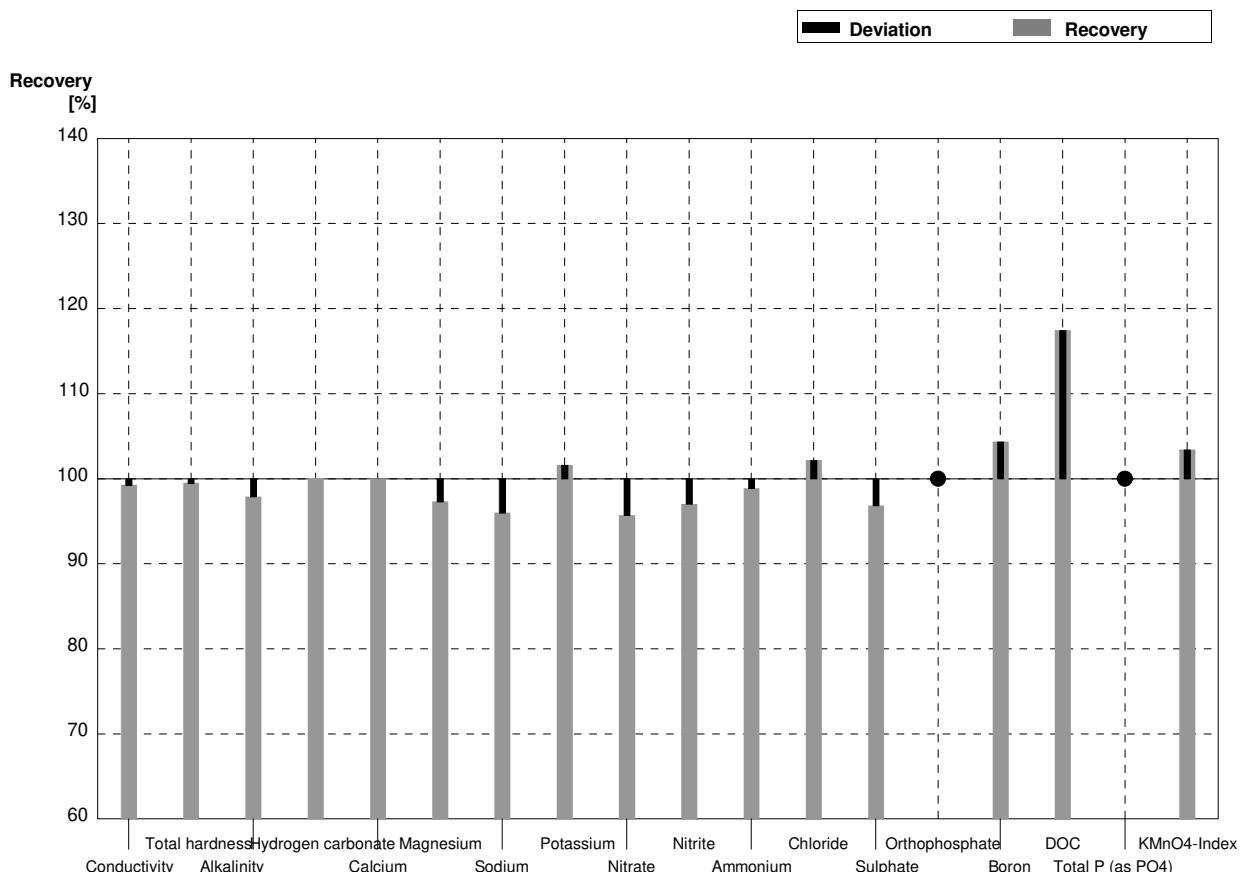
Sample N167B  
Laboratory AN

| Parameter                     | Target value | $\pm U$ (k=2) | Result | $\pm$  | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|--------|-------------------------|----------|
| Conductivity                  | 444          | 1             |        |        | $\mu\text{S}/\text{cm}$ |          |
| Total hardness                | 1,321        | 0,015         |        |        | $\text{mmol/l}$         |          |
| Alkalinity                    | 1,294        | 0,018         |        |        | $\text{mmol/l}$         |          |
| Hydrogen carbonate            | 75,9         | 1,1           |        |        | $\text{mg/l}$           |          |
| Calcium                       | 39,6         | 0,6           | 39,88  | 1,65   | $\text{mg/l}$           | 101%     |
| Magnesium                     | 8,07         | 0,10          | 7,90   | 0,58   | $\text{mg/l}$           | 98%      |
| Sodium                        | 30,8         | 0,2           | 30,02  | 1,81   | $\text{mg/l}$           | 97%      |
| Potassium                     | 6,98         | 0,04          | 6,67   | 0,22   | $\text{mg/l}$           | 96%      |
| Nitrate                       | 51,3         | 1,2           |        |        | $\text{mg/l}$           |          |
| Nitrite                       | 0,0203       | 0,0018        |        |        | $\text{mg/l}$           |          |
| Ammonium                      | <0,01        |               | <0,040 | 0,003  | $\text{mg/l}$           | •        |
| Chloride                      | 28,6         | 0,4           |        |        | $\text{mg/l}$           |          |
| Sulphate                      | 58,9         | 0,4           |        |        | $\text{mg/l}$           |          |
| Orthophosphate                | 0,061        | 0,001         | 0,0210 | 0,0001 | $\text{mg/l}$           | 34%      |
| Boron                         | 0,0544       | 0,0004        |        |        | $\text{mg/l}$           |          |
| DOC                           | 4,88         | 0,05          |        |        | $\text{mg/l}$           |          |
| Total P (as PO <sub>4</sub> ) | 0,187        | 0,003         | 0,1333 | 0,0066 | $\text{mg/l}$           | 71%      |
| KMnO <sub>4</sub> -Index      | 5,64         | 0,15          |        |        | $\text{mg/l}$           |          |



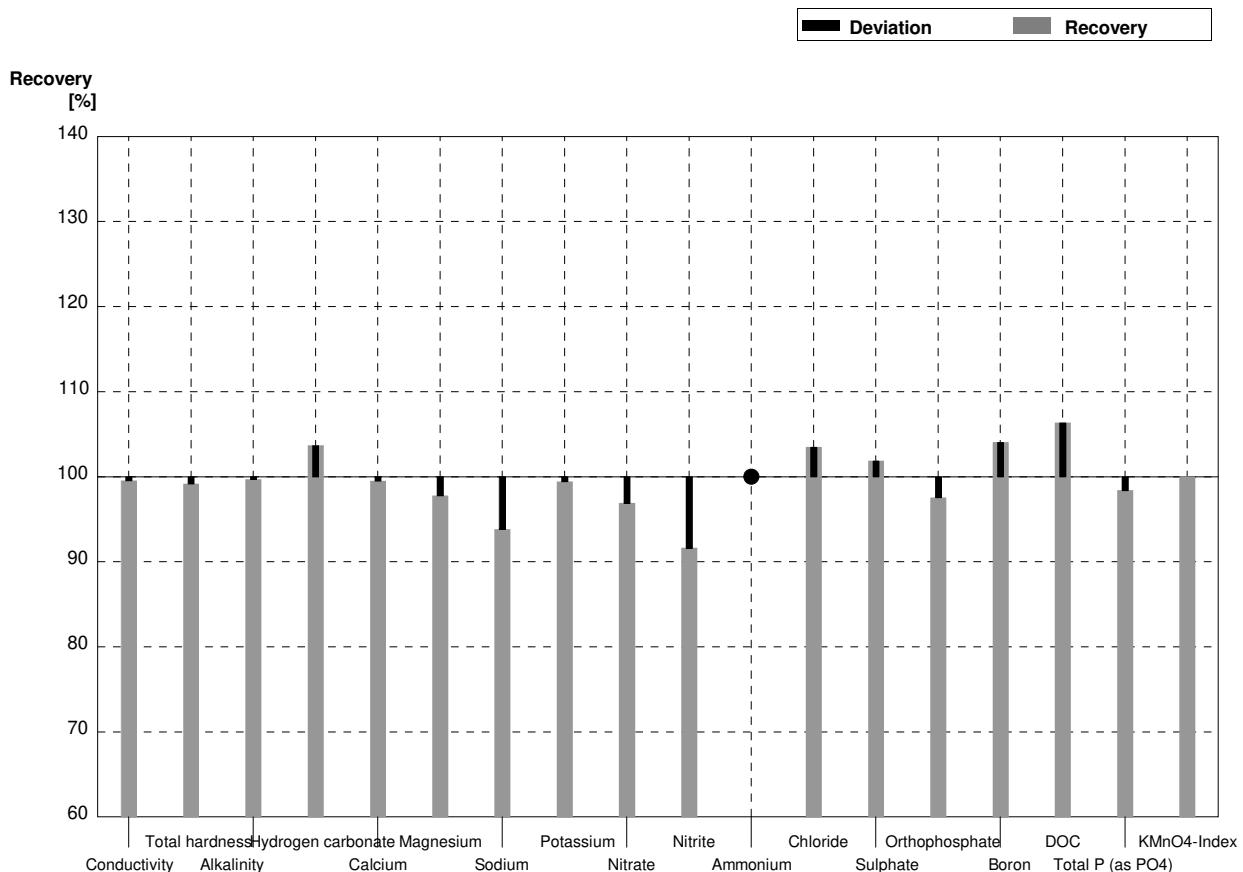
**Sample N167A**  
**Laboratory AO**

| Parameter                     | Target value | $\pm U$ (k=2) | Result | $\pm$  | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|--------|-------------------------|----------|
| Conductivity                  | 544          | 2             | 540    | 16     | $\mu\text{S}/\text{cm}$ | 99%      |
| Total hardness                | 1,94         | 0,02          | 1,93   | 0,29   | $\text{mmol/l}$         | 99%      |
| Alkalinity                    | 2,36         | 0,03          | 2,31   | 0,18   | $\text{mmol/l}$         | 98%      |
| Hydrogen carbonate            | 140,9        | 1,7           | 141    | 11     | $\text{mg/l}$           | 100%     |
| Calcium                       | 60,1         | 0,9           | 60,1   | 9,0    | $\text{mg/l}$           | 100%     |
| Magnesium                     | 10,79        | 0,14          | 10,5   | 1,3    | $\text{mg/l}$           | 97%      |
| Sodium                        | 24,9         | 0,3           | 23,9   | 3,1    | $\text{mg/l}$           | 96%      |
| Potassium                     | 8,81         | 0,06          | 8,95   | 1,3    | $\text{mg/l}$           | 102%     |
| Nitrate                       | 37,2         | 0,7           | 35,6   | 3,6    | $\text{mg/l}$           | 96%      |
| Nitrite                       | 0,0404       | 0,0009        | 0,0392 | 0,0043 | $\text{mg/l}$           | 97%      |
| Ammonium                      | 0,070        | 0,004         | 0,0692 | 0,0055 | $\text{mg/l}$           | 99%      |
| Chloride                      | 54,8         | 1,2           | 56,0   | 5,6    | $\text{mg/l}$           | 102%     |
| Sulphate                      | 34,7         | 0,4           | 33,6   | 5,4    | $\text{mg/l}$           | 97%      |
| Orthophosphate                | <0,009       |               | <0,015 |        | $\text{mg/l}$           | •        |
| Boron                         | 0,1265       | 0,0012        | 0,132  | 0,017  | $\text{mg/l}$           | 104%     |
| DOC                           | 1,89         | 0,04          | 2,22   | 0,44   | $\text{mg/l}$           | 117%     |
| Total P (as PO <sub>4</sub> ) | <0,009       |               | <0,015 |        | $\text{mg/l}$           | •        |
| KMnO <sub>4</sub> -Index      | 3,51         | 0,12          | 3,63   | 0,54   | $\text{mg/l}$           | 103%     |



**Sample** N167B  
**Laboratory** AO

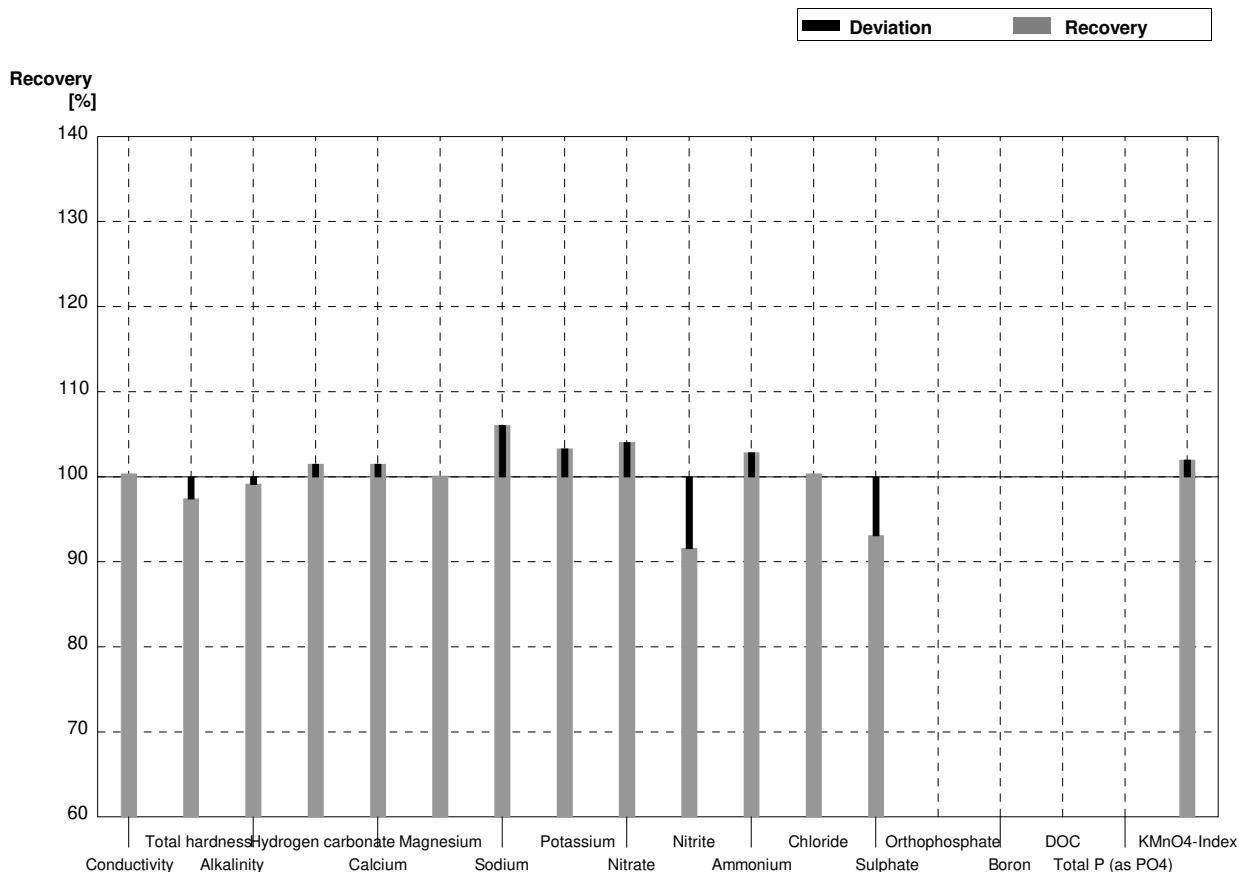
| Parameter                     | Target value | $\pm$ U (k=2) | Result | $\pm$  | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|--------|-------------------------|----------|
| Conductivity                  | 444          | 1             | 442    | 13     | $\mu\text{S}/\text{cm}$ | 100%     |
| Total hardness                | 1,321        | 0,015         | 1,31   | 0,20   | $\text{mmol/l}$         | 99%      |
| Alkalinity                    | 1,294        | 0,018         | 1,29   | 0,10   | $\text{mmol/l}$         | 100%     |
| Hydrogen carbonate            | 75,9         | 1,1           | 78,7   | 6,3    | $\text{mg/l}$           | 104%     |
| Calcium                       | 39,6         | 0,6           | 39,4   | 5,9    | $\text{mg/l}$           | 99%      |
| Magnesium                     | 8,07         | 0,10          | 7,89   | 0,95   | $\text{mg/l}$           | 98%      |
| Sodium                        | 30,8         | 0,2           | 28,9   | 3,8    | $\text{mg/l}$           | 94%      |
| Potassium                     | 6,98         | 0,04          | 6,94   | 1,0    | $\text{mg/l}$           | 99%      |
| Nitrate                       | 51,3         | 1,2           | 49,7   | 5,0    | $\text{mg/l}$           | 97%      |
| Nitrite                       | 0,0203       | 0,0018        | 0,0186 | 0,0020 | $\text{mg/l}$           | 92%      |
| Ammonium                      | <0,01        |               | <0,01  |        | $\text{mg/l}$           | •        |
| Chloride                      | 28,6         | 0,4           | 29,6   | 3,0    | $\text{mg/l}$           | 103%     |
| Sulphate                      | 58,9         | 0,4           | 60,0   | 9,6    | $\text{mg/l}$           | 102%     |
| Orthophosphate                | 0,061        | 0,001         | 0,0595 | 0,0048 | $\text{mg/l}$           | 98%      |
| Boron                         | 0,0544       | 0,0004        | 0,0566 | 0,0074 | $\text{mg/l}$           | 104%     |
| DOC                           | 4,88         | 0,05          | 5,19   | 1,0    | $\text{mg/l}$           | 106%     |
| Total P (as PO <sub>4</sub> ) | 0,187        | 0,003         | 0,184  | 0,015  | $\text{mg/l}$           | 98%      |
| KMnO <sub>4</sub> -Index      | 5,64         | 0,15          | 5,64   | 0,85   | $\text{mg/l}$           | 100%     |



Sample N167A

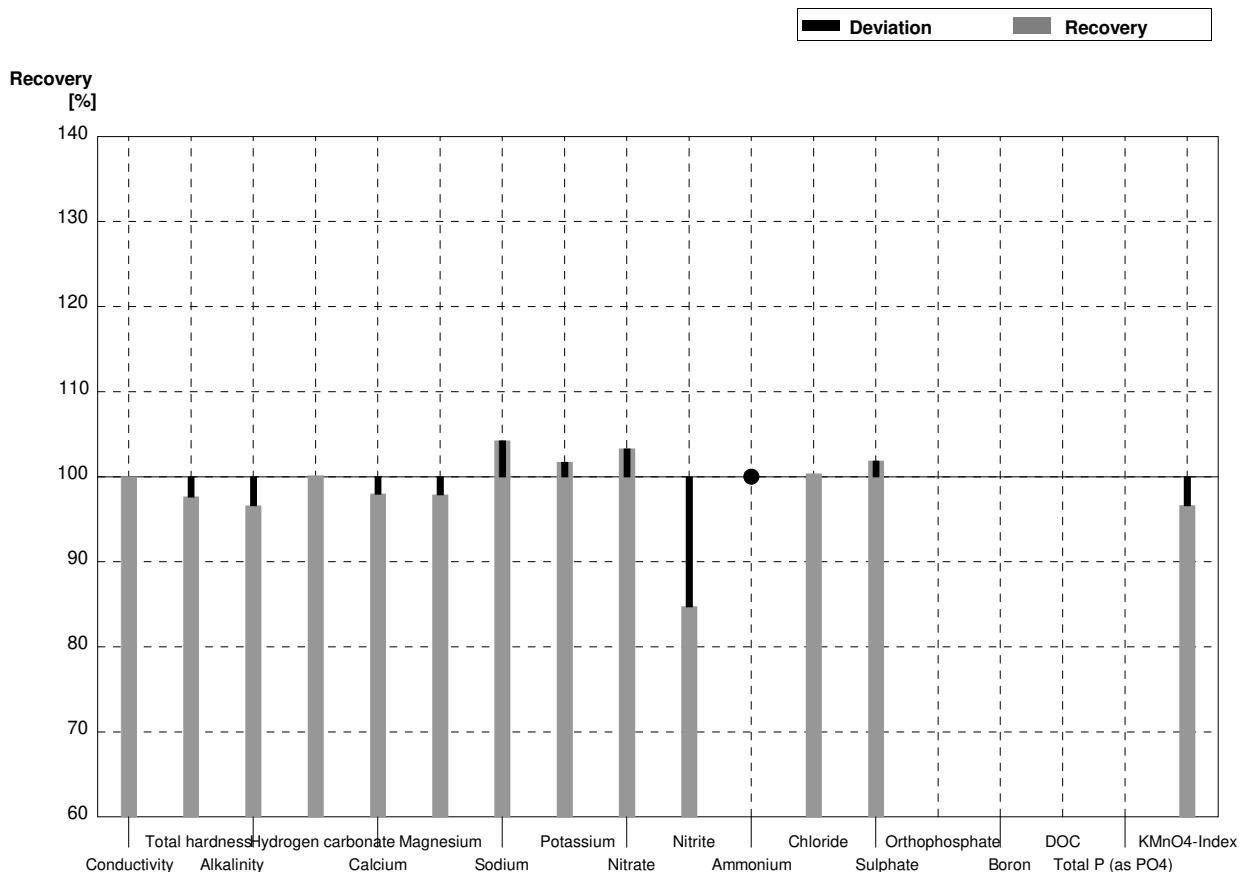
Laboratory AP

| Parameter          | Target value | ± U (k=2) | Result | ±     | Unit   | Recovery |
|--------------------|--------------|-----------|--------|-------|--------|----------|
| Conductivity       | 544          | 2         | 546    | 30    | µS/cm  | 100%     |
| Total hardness     | 1,94         | 0,02      | 1,89   | 0,19  | mmol/l | 97%      |
| Alkalinity         | 2,36         | 0,03      | 2,34   | 0,25  | mmol/l | 99%      |
| Hydrogen carbonate | 140,9        | 1,7       | 143    |       | mg/l   | 101%     |
| Calcium            | 60,1         | 0,9       | 61     | 6,1   | mg/l   | 101%     |
| Magnesium          | 10,79        | 0,14      | 10,8   | 1,1   | mg/l   | 100%     |
| Sodium             | 24,9         | 0,3       | 26,4   | 2,6   | mg/l   | 106%     |
| Potassium          | 8,81         | 0,06      | 9,1    | 0,9   | mg/l   | 103%     |
| Nitrate            | 37,2         | 0,7       | 38,7   | 3,9   | mg/l   | 104%     |
| Nitrite            | 0,0404       | 0,0009    | 0,0370 | 0,004 | mg/l   | 92%      |
| Ammonium           | 0,070        | 0,004     | 0,072  | 0,007 | mg/l   | 103%     |
| Chloride           | 54,8         | 1,2       | 55     | 5,5   | mg/l   | 100%     |
| Sulphate           | 34,7         | 0,4       | 32,3   | 3,2   | mg/l   | 93%      |
| Orthophosphate     | <0,009       |           |        |       | mg/l   |          |
| Boron              | 0,1265       | 0,0012    |        |       | mg/l   |          |
| DOC                | 1,89         | 0,04      |        |       | mg/l   |          |
| Total P (as PO4)   | <0,009       |           |        |       | mg/l   |          |
| KMnO4-Index        | 3,51         | 0,12      | 3,58   | 0,40  | mg/l   | 102%     |



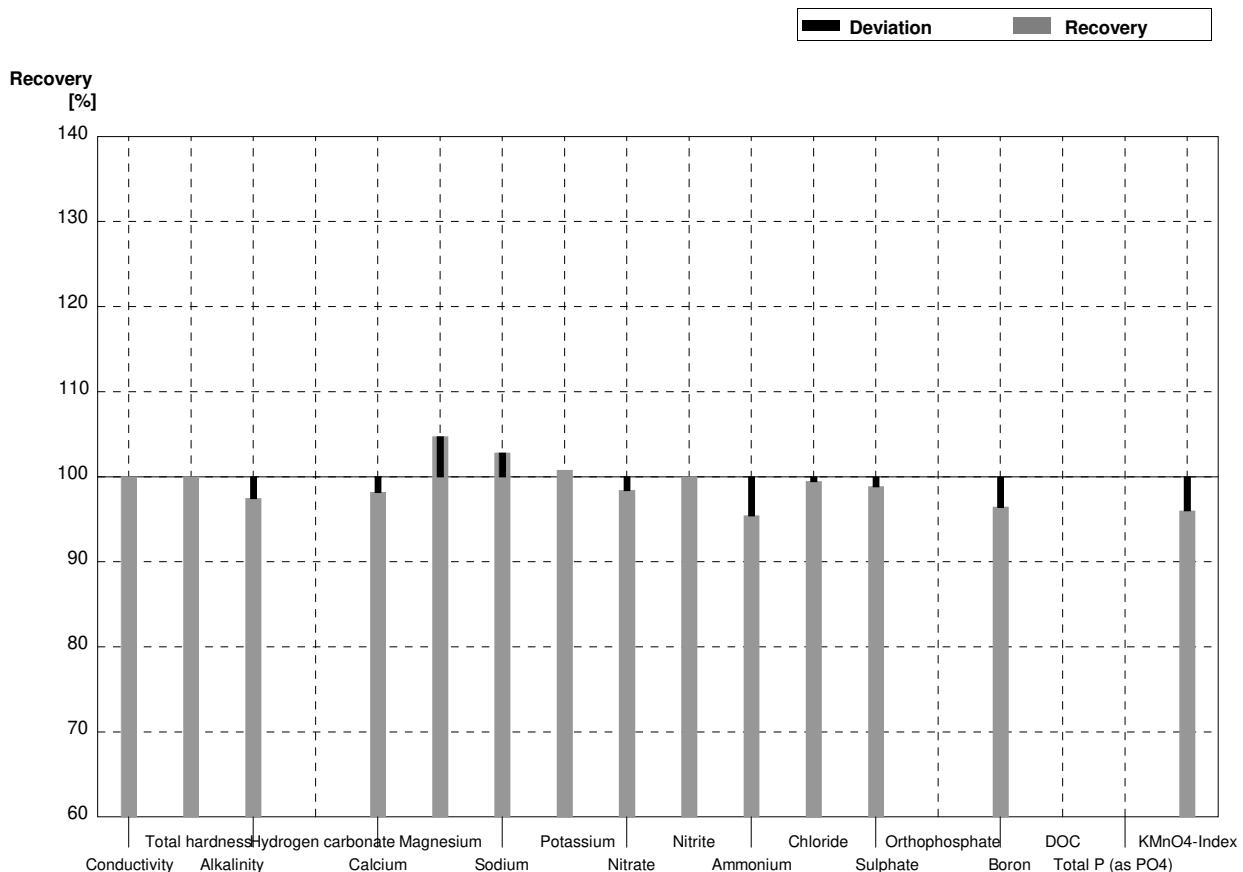
**Sample** N167B  
**Laboratory** AP

| Parameter          | Target value | $\pm$ U (k=2) | Result | $\pm$ | Unit                    | Recovery |
|--------------------|--------------|---------------|--------|-------|-------------------------|----------|
| Conductivity       | 444          | 1             | 444    | 22    | $\mu\text{S}/\text{cm}$ | 100%     |
| Total hardness     | 1,321        | 0,015         | 1,29   | 0,13  | $\text{mmol/l}$         | 98%      |
| Alkalinity         | 1,294        | 0,018         | 1,25   | 0,13  | $\text{mmol/l}$         | 97%      |
| Hydrogen carbonate | 75,9         | 1,1           | 76     |       | $\text{mg/l}$           | 100%     |
| Calcium            | 39,6         | 0,6           | 38,8   | 3,9   | $\text{mg/l}$           | 98%      |
| Magnesium          | 8,07         | 0,10          | 7,9    | 0,8   | $\text{mg/l}$           | 98%      |
| Sodium             | 30,8         | 0,2           | 32,1   | 3,2   | $\text{mg/l}$           | 104%     |
| Potassium          | 6,98         | 0,04          | 7,1    | 0,7   | $\text{mg/l}$           | 102%     |
| Nitrate            | 51,3         | 1,2           | 53     | 5,3   | $\text{mg/l}$           | 103%     |
| Nitrite            | 0,0203       | 0,0018        | 0,0172 |       | $\text{mg/l}$           | 85%      |
| Ammonium           | <0,01        |               | <0,01  |       | $\text{mg/l}$           | •        |
| Chloride           | 28,6         | 0,4           | 28,7   | 2,9   | $\text{mg/l}$           | 100%     |
| Sulphate           | 58,9         | 0,4           | 60     | 6,0   | $\text{mg/l}$           | 102%     |
| Orthophosphate     | 0,061        | 0,001         |        |       | $\text{mg/l}$           |          |
| Boron              | 0,0544       | 0,0004        |        |       | $\text{mg/l}$           |          |
| DOC                | 4,88         | 0,05          |        |       | $\text{mg/l}$           |          |
| Total P (as PO4)   | 0,187        | 0,003         |        |       | $\text{mg/l}$           |          |
| KMnO4-Index        | 5,64         | 0,15          | 5,45   | 0,55  | $\text{mg/l}$           | 97%      |



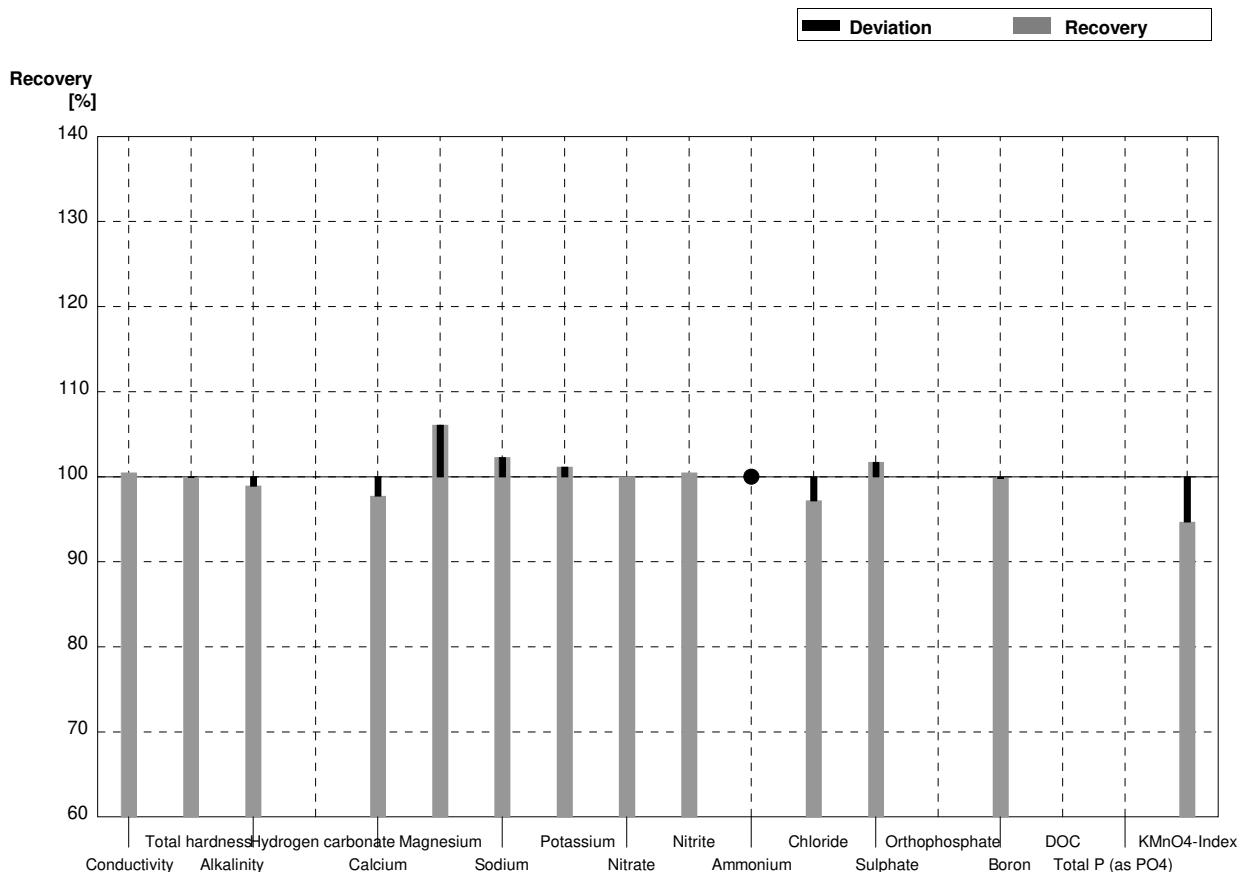
**Sample N167A**  
**Laboratory AQ**

| Parameter                     | Target value | $\pm U$ (k=2) | Result | $\pm$ | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|-------|-------------------------|----------|
| Conductivity                  | 544          | 2             | 544    | 10    | $\mu\text{S}/\text{cm}$ | 100%     |
| Total hardness                | 1,94         | 0,02          | 1,94   | 0,39  | $\text{mmol/l}$         | 100%     |
| Alkalinity                    | 2,36         | 0,03          | 2,30   | 0,23  | $\text{mmol/l}$         | 97%      |
| Hydrogen carbonate            | 140,9        | 1,7           |        |       | $\text{mg/l}$           |          |
| Calcium                       | 60,1         | 0,9           | 59,0   | 12    | $\text{mg/l}$           | 98%      |
| Magnesium                     | 10,79        | 0,14          | 11,3   | 2,3   | $\text{mg/l}$           | 105%     |
| Sodium                        | 24,9         | 0,3           | 25,6   | 3,8   | $\text{mg/l}$           | 103%     |
| Potassium                     | 8,81         | 0,06          | 8,88   | 1,8   | $\text{mg/l}$           | 101%     |
| Nitrate                       | 37,2         | 0,7           | 36,6   | 3,7   | $\text{mg/l}$           | 98%      |
| Nitrite                       | 0,0404       | 0,0009        | 0,0404 | 0,010 | $\text{mg/l}$           | 100%     |
| Ammonium                      | 0,070        | 0,004         | 0,0668 | 0,018 | $\text{mg/l}$           | 95%      |
| Chloride                      | 54,8         | 1,2           | 54,5   | 5,45  | $\text{mg/l}$           | 99%      |
| Sulphate                      | 34,7         | 0,4           | 34,3   | 3,4   | $\text{mg/l}$           | 99%      |
| Orthophosphate                | <0,009       |               |        |       | $\text{mg/l}$           |          |
| Boron                         | 0,1265       | 0,0012        | 0,122  | 0,031 | $\text{mg/l}$           | 96%      |
| DOC                           | 1,89         | 0,04          |        |       | $\text{mg/l}$           |          |
| Total P (as PO <sub>4</sub> ) | <0,009       |               |        |       | $\text{mg/l}$           |          |
| KMnO <sub>4</sub> -Index      | 3,51         | 0,12          | 3,37   | 0,85  | $\text{mg/l}$           | 96%      |



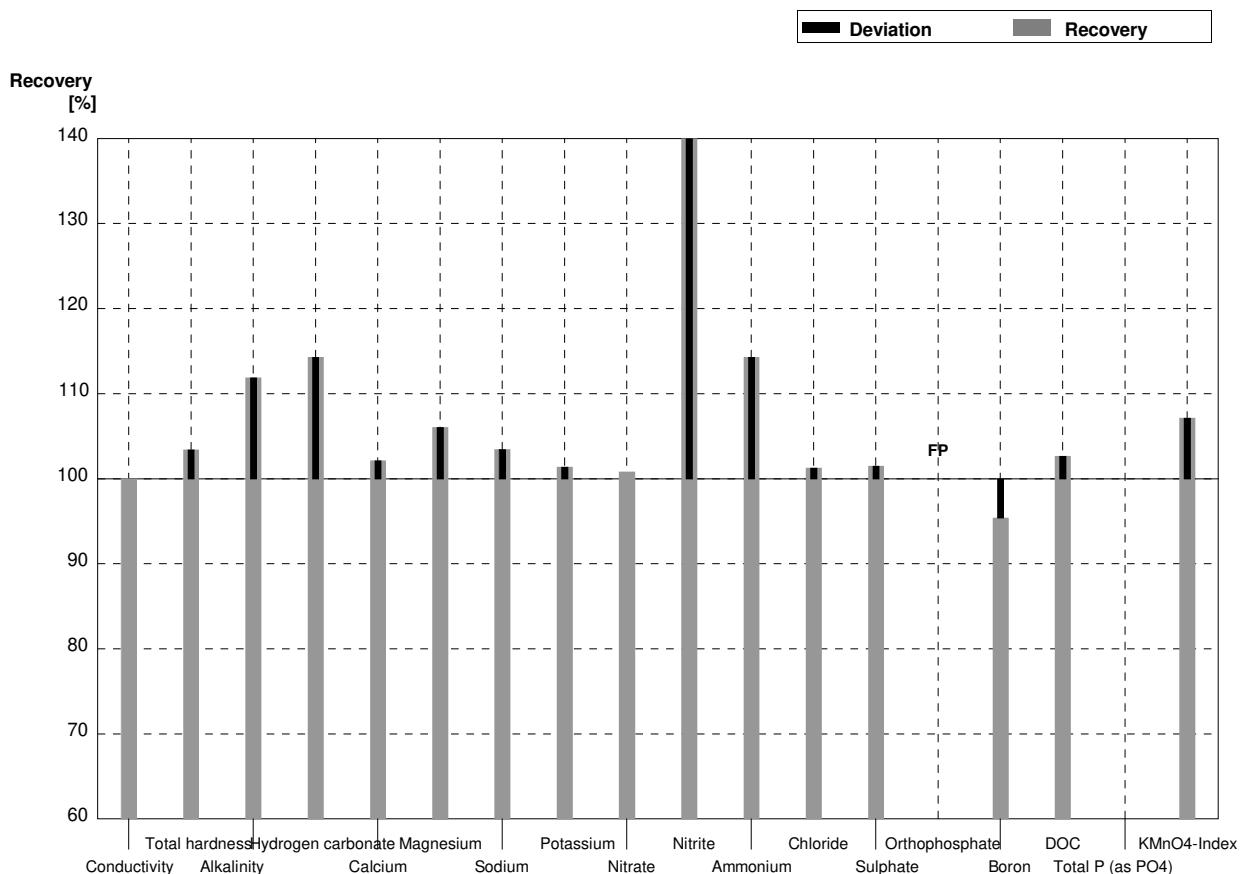
**Sample** N167B  
**Laboratory** AQ

| Parameter          | Target value | ± U (k=2) | Result | ±     | Unit   | Recovery |
|--------------------|--------------|-----------|--------|-------|--------|----------|
| Conductivity       | 444          | 1         | 446    | 10    | µS/cm  | 100%     |
| Total hardness     | 1,321        | 0,015     | 1,32   | 0,27  | mmol/l | 100%     |
| Alkalinity         | 1,294        | 0,018     | 1,28   | 0,13  | mmol/l | 99%      |
| Hydrogen carbonate | 75,9         | 1,1       |        |       | mg/l   |          |
| Calcium            | 39,6         | 0,6       | 38,7   | 7,9   | mg/l   | 98%      |
| Magnesium          | 8,07         | 0,10      | 8,56   | 1,7   | mg/l   | 106%     |
| Sodium             | 30,8         | 0,2       | 31,5   | 4,8   | mg/l   | 102%     |
| Potassium          | 6,98         | 0,04      | 7,06   | 1,4   | mg/l   | 101%     |
| Nitrate            | 51,3         | 1,2       | 51,3   | 5,1   | mg/l   | 100%     |
| Nitrite            | 0,0203       | 0,0018    | 0,0204 | 0,010 | mg/l   | 100%     |
| Ammonium           | <0,01        |           | <0,010 |       | mg/l   | •        |
| Chloride           | 28,6         | 0,4       | 27,8   | 2,8   | mg/l   | 97%      |
| Sulphate           | 58,9         | 0,4       | 59,9   | 6,0   | mg/l   | 102%     |
| Orthophosphate     | 0,061        | 0,001     |        |       | mg/l   |          |
| Boron              | 0,0544       | 0,0004    | 0,0543 | 0,014 | mg/l   | 100%     |
| DOC                | 4,88         | 0,05      |        |       | mg/l   |          |
| Total P (as PO4)   | 0,187        | 0,003     |        |       | mg/l   |          |
| KMnO4-Index        | 5,64         | 0,15      | 5,34   | 1,34  | mg/l   | 95%      |



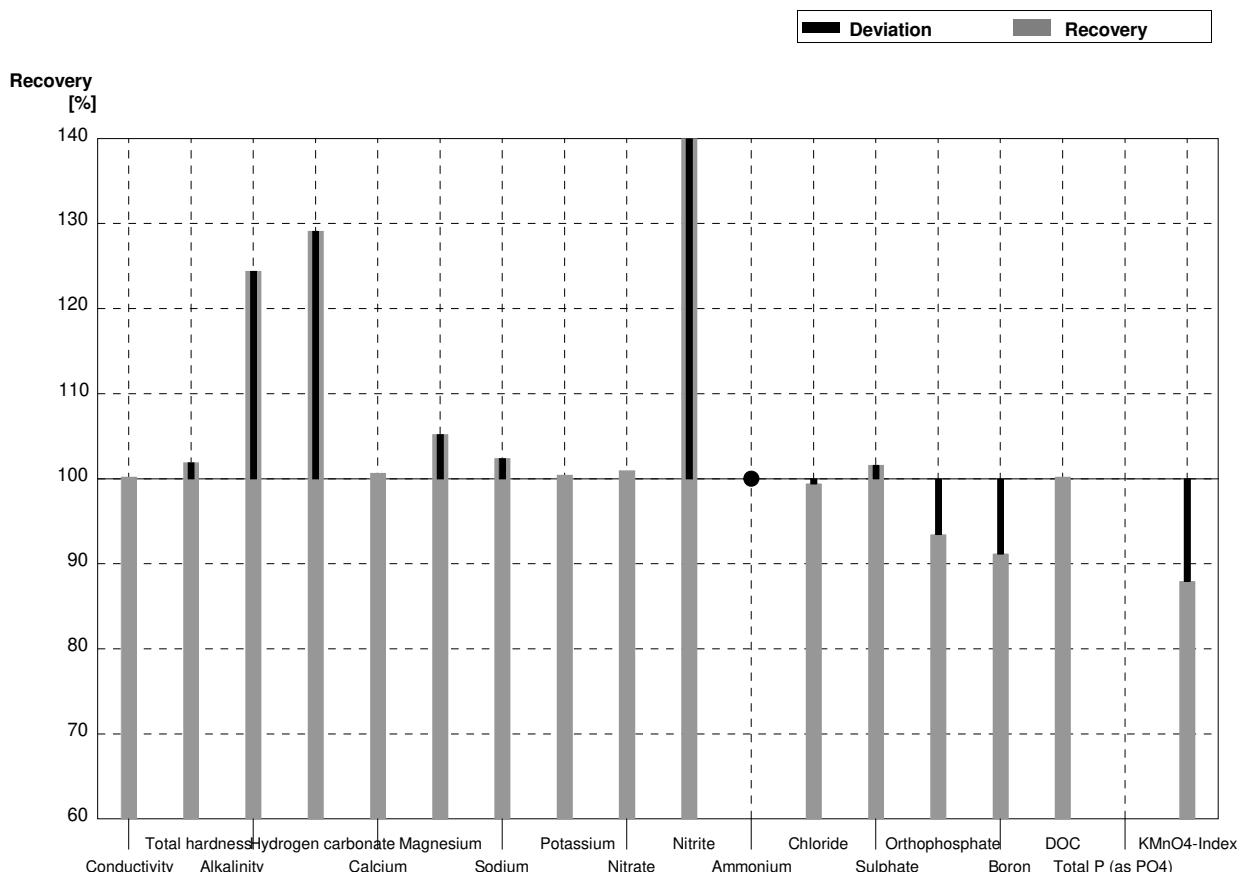
**Sample N167A**  
**Laboratory AR**

| Parameter                     | Target value | $\pm$ U (k=2) | Result | $\pm$ | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|-------|-------------------------|----------|
| Conductivity                  | 544          | 2             | 544    |       | $\mu\text{S}/\text{cm}$ | 100%     |
| Total hardness                | 1,94         | 0,02          | 2,006  |       | $\text{mmol/l}$         | 103%     |
| Alkalinity                    | 2,36         | 0,03          | 2,64   |       | $\text{mmol/l}$         | 112%     |
| Hydrogen carbonate            | 140,9        | 1,7           | 161    |       | $\text{mg/l}$           | 114%     |
| Calcium                       | 60,1         | 0,9           | 61,37  |       | $\text{mg/l}$           | 102%     |
| Magnesium                     | 10,79        | 0,14          | 11,44  |       | $\text{mg/l}$           | 106%     |
| Sodium                        | 24,9         | 0,3           | 25,76  |       | $\text{mg/l}$           | 103%     |
| Potassium                     | 8,81         | 0,06          | 8,93   |       | $\text{mg/l}$           | 101%     |
| Nitrate                       | 37,2         | 0,7           | 37,50  |       | $\text{mg/l}$           | 101%     |
| Nitrite                       | 0,0404       | 0,0009        | 0,080  |       | $\text{mg/l}$           | 198%     |
| Ammonium                      | 0,070        | 0,004         | 0,080  |       | $\text{mg/l}$           | 114%     |
| Chloride                      | 54,8         | 1,2           | 55,49  |       | $\text{mg/l}$           | 101%     |
| Sulphate                      | 34,7         | 0,4           | 35,22  |       | $\text{mg/l}$           | 101%     |
| Orthophosphate                | <0,009       |               | 0,0133 |       | $\text{mg/l}$           | FP       |
| Boron                         | 0,1265       | 0,0012        | 0,1207 |       | $\text{mg/l}$           | 95%      |
| DOC                           | 1,89         | 0,04          | 1,94   |       | $\text{mg/l}$           | 103%     |
| Total P (as PO <sub>4</sub> ) | <0,009       |               |        |       | $\text{mg/l}$           |          |
| KMnO <sub>4</sub> -Index      | 3,51         | 0,12          | 3,76   |       | $\text{mg/l}$           | 107%     |



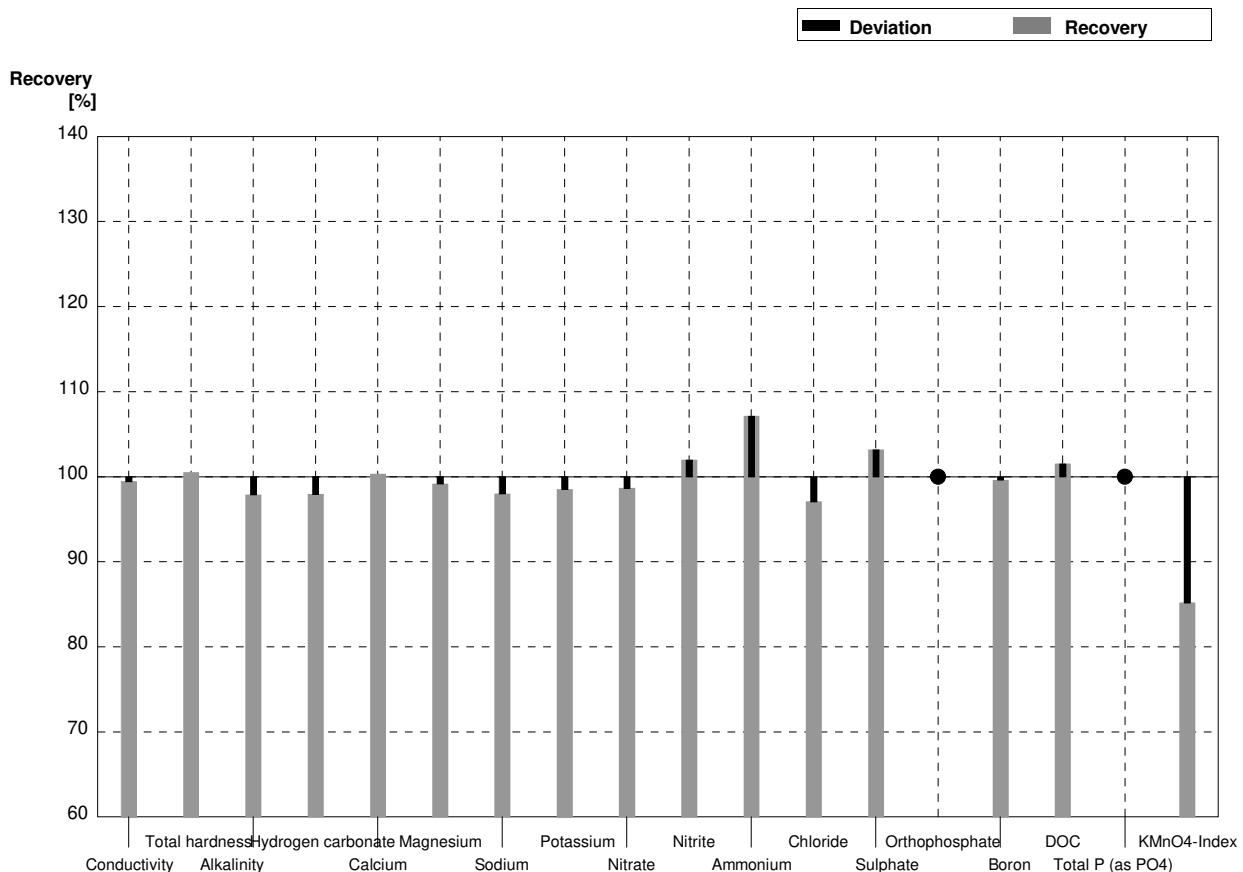
**Sample N167B**  
**Laboratory AR**

| Parameter          | Target value | $\pm$ U (k=2) | Result | $\pm$ | Unit                    | Recovery |
|--------------------|--------------|---------------|--------|-------|-------------------------|----------|
| Conductivity       | 444          | 1             | 445    |       | $\mu\text{S}/\text{cm}$ | 100%     |
| Total hardness     | 1,321        | 0,015         | 1,346  |       | $\text{mmol/l}$         | 102%     |
| Alkalinity         | 1,294        | 0,018         | 1,61   |       | $\text{mmol/l}$         | 124%     |
| Hydrogen carbonate | 75,9         | 1,1           | 98     |       | $\text{mg/l}$           | 129%     |
| Calcium            | 39,6         | 0,6           | 39,87  |       | $\text{mg/l}$           | 101%     |
| Magnesium          | 8,07         | 0,10          | 8,49   |       | $\text{mg/l}$           | 105%     |
| Sodium             | 30,8         | 0,2           | 31,54  |       | $\text{mg/l}$           | 102%     |
| Potassium          | 6,98         | 0,04          | 7,01   |       | $\text{mg/l}$           | 100%     |
| Nitrate            | 51,3         | 1,2           | 51,79  |       | $\text{mg/l}$           | 101%     |
| Nitrite            | 0,0203       | 0,0018        | 0,060  |       | $\text{mg/l}$           | 296%     |
| Ammonium           | <0,01        |               | 0,0100 |       | $\text{mg/l}$           | •        |
| Chloride           | 28,6         | 0,4           | 28,43  |       | $\text{mg/l}$           | 99%      |
| Sulphate           | 58,9         | 0,4           | 59,85  |       | $\text{mg/l}$           | 102%     |
| Orthophosphate     | 0,061        | 0,001         | 0,057  |       | $\text{mg/l}$           | 93%      |
| Boron              | 0,0544       | 0,0004        | 0,0496 |       | $\text{mg/l}$           | 91%      |
| DOC                | 4,88         | 0,05          | 4,89   |       | $\text{mg/l}$           | 100%     |
| Total P (as PO4)   | 0,187        | 0,003         |        |       | $\text{mg/l}$           |          |
| KMnO4-Index        | 5,64         | 0,15          | 4,96   |       | $\text{mg/l}$           | 88%      |



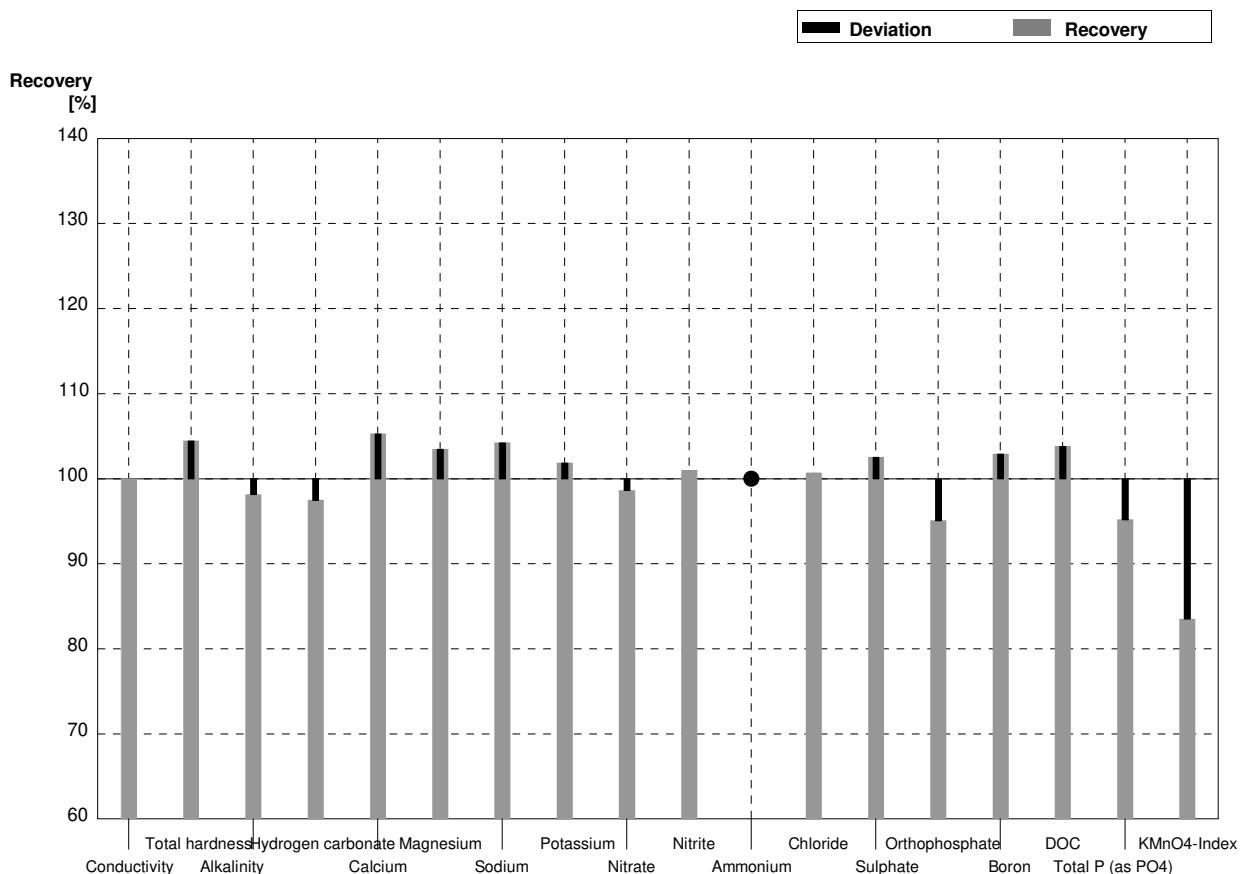
**Sample N167A**  
**Laboratory AS**

| Parameter          | Target value | $\pm U$ (k=2) | Result | $\pm$ | Unit                    | Recovery |
|--------------------|--------------|---------------|--------|-------|-------------------------|----------|
| Conductivity       | 544          | 2             | 541    |       | $\mu\text{S}/\text{cm}$ | 99%      |
| Total hardness     | 1,94         | 0,02          | 1,95   |       | $\text{mmol/l}$         | 101%     |
| Alkalinity         | 2,36         | 0,03          | 2,31   |       | $\text{mmol/l}$         | 98%      |
| Hydrogen carbonate | 140,9        | 1,7           | 138    |       | $\text{mg/l}$           | 98%      |
| Calcium            | 60,1         | 0,9           | 60,3   |       | $\text{mg/l}$           | 100%     |
| Magnesium          | 10,79        | 0,14          | 10,7   |       | $\text{mg/l}$           | 99%      |
| Sodium             | 24,9         | 0,3           | 24,4   |       | $\text{mg/l}$           | 98%      |
| Potassium          | 8,81         | 0,06          | 8,68   |       | $\text{mg/l}$           | 99%      |
| Nitrate            | 37,2         | 0,7           | 36,7   |       | $\text{mg/l}$           | 99%      |
| Nitrite            | 0,0404       | 0,0009        | 0,0412 |       | $\text{mg/l}$           | 102%     |
| Ammonium           | 0,070        | 0,004         | 0,075  |       | $\text{mg/l}$           | 107%     |
| Chloride           | 54,8         | 1,2           | 53,2   |       | $\text{mg/l}$           | 97%      |
| Sulphate           | 34,7         | 0,4           | 35,8   |       | $\text{mg/l}$           | 103%     |
| Orthophosphate     | <0,009       |               | <0,01  |       | $\text{mg/l}$           | •        |
| Boron              | 0,1265       | 0,0012        | 0,126  |       | $\text{mg/l}$           | 100%     |
| DOC                | 1,89         | 0,04          | 1,919  |       | $\text{mg/l}$           | 102%     |
| Total P (as PO4)   | <0,009       |               | <0,03  |       | $\text{mg/l}$           | •        |
| KMnO4-Index        | 3,51         | 0,12          | 2,99   |       | $\text{mg/l}$           | 85%      |



**Sample N167B**  
**Laboratory AS**

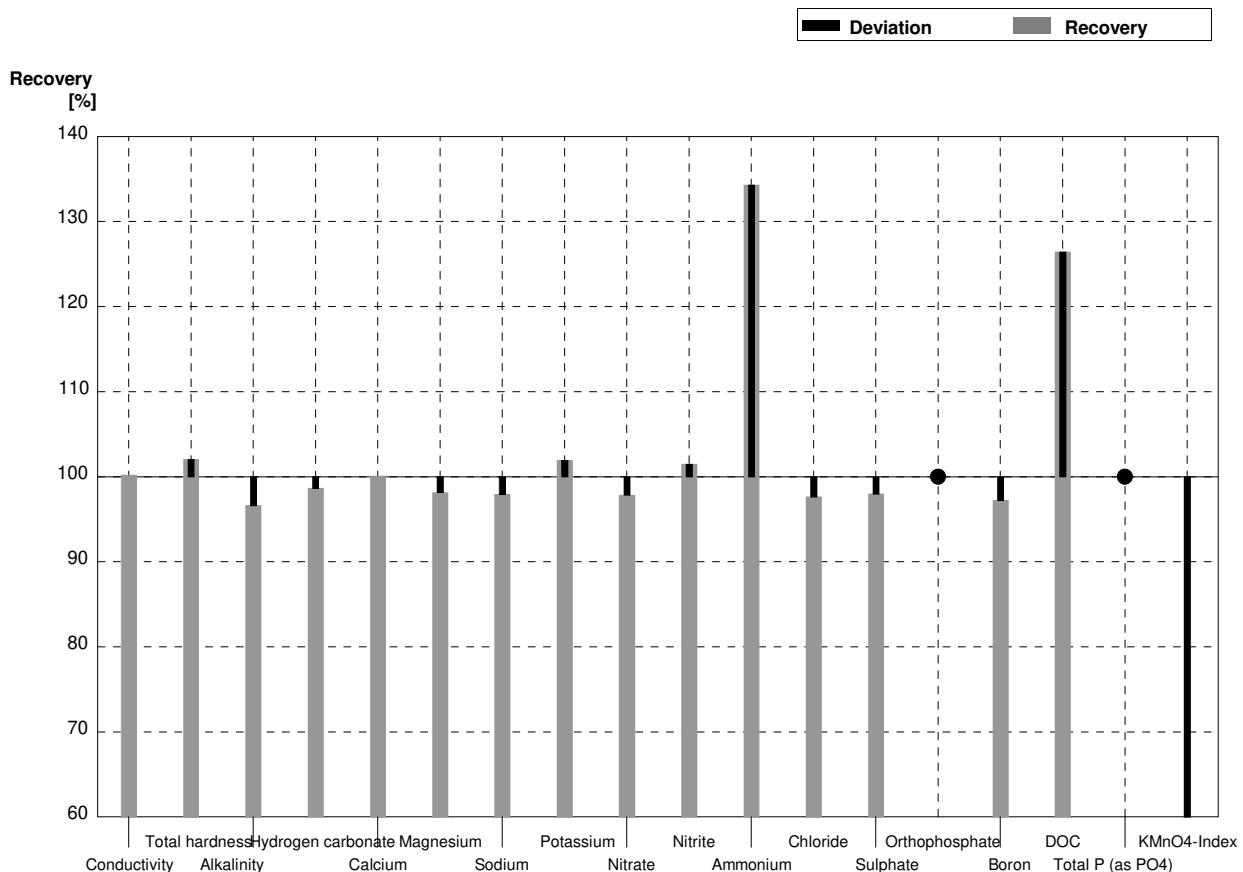
| Parameter          | Target value | ± U (k=2) | Result | ± | Unit   | Recovery |
|--------------------|--------------|-----------|--------|---|--------|----------|
| Conductivity       | 444          | 1         | 444    |   | µS/cm  | 100%     |
| Total hardness     | 1,321        | 0,015     | 1,38   |   | mmol/l | 104%     |
| Alkalinity         | 1,294        | 0,018     | 1,27   |   | mmol/l | 98%      |
| Hydrogen carbonate | 75,9         | 1,1       | 74     |   | mg/l   | 97%      |
| Calcium            | 39,6         | 0,6       | 41,7   |   | mg/l   | 105%     |
| Magnesium          | 8,07         | 0,10      | 8,35   |   | mg/l   | 103%     |
| Sodium             | 30,8         | 0,2       | 32,1   |   | mg/l   | 104%     |
| Potassium          | 6,98         | 0,04      | 7,11   |   | mg/l   | 102%     |
| Nitrate            | 51,3         | 1,2       | 50,6   |   | mg/l   | 99%      |
| Nitrite            | 0,0203       | 0,0018    | 0,0205 |   | mg/l   | 101%     |
| Ammonium           | <0,01        |           | <0,01  |   | mg/l   | •        |
| Chloride           | 28,6         | 0,4       | 28,8   |   | mg/l   | 101%     |
| Sulphate           | 58,9         | 0,4       | 60,4   |   | mg/l   | 103%     |
| Orthophosphate     | 0,061        | 0,001     | 0,058  |   | mg/l   | 95%      |
| Boron              | 0,0544       | 0,0004    | 0,056  |   | mg/l   | 103%     |
| DOC                | 4,88         | 0,05      | 5,067  |   | mg/l   | 104%     |
| Total P (as PO4)   | 0,187        | 0,003     | 0,178  |   | mg/l   | 95%      |
| KMnO4-Index        | 5,64         | 0,15      | 4,71   |   | mg/l   | 84%      |



Sample N167A

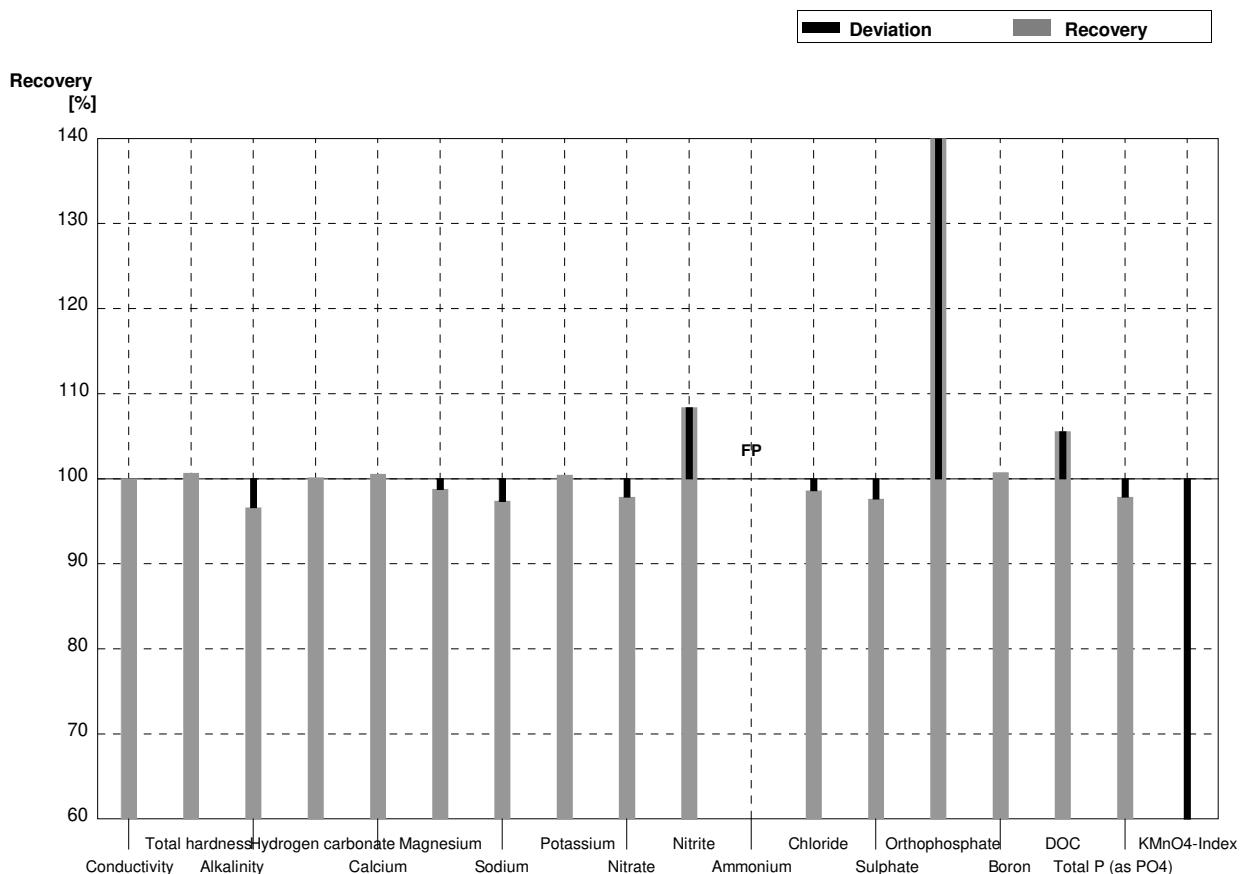
Laboratory AT

| Parameter                     | Target value | $\pm$ U (k=2) | Result | $\pm$  | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|--------|-------------------------|----------|
| Conductivity                  | 544          | 2             | 545    | 17,2   | $\mu\text{S}/\text{cm}$ | 100%     |
| Total hardness                | 1,94         | 0,02          | 1,98   | 0,30   | $\text{mmol/l}$         | 102%     |
| Alkalinity                    | 2,36         | 0,03          | 2,28   | 0,77   | $\text{mmol/l}$         | 97%      |
| Hydrogen carbonate            | 140,9        | 1,7           | 139    | 47,2   | $\text{mg/l}$           | 99%      |
| Calcium                       | 60,1         | 0,9           | 60,15  | 5,02   | $\text{mg/l}$           | 100%     |
| Magnesium                     | 10,79        | 0,14          | 10,59  | 0,852  | $\text{mg/l}$           | 98%      |
| Sodium                        | 24,9         | 0,3           | 24,39  | 1,85   | $\text{mg/l}$           | 98%      |
| Potassium                     | 8,81         | 0,06          | 8,98   | 0,908  | $\text{mg/l}$           | 102%     |
| Nitrate                       | 37,2         | 0,7           | 36,4   | 3,91   | $\text{mg/l}$           | 98%      |
| Nitrite                       | 0,0404       | 0,0009        | 0,0410 | 0,006  | $\text{mg/l}$           | 101%     |
| Ammonium                      | 0,070        | 0,004         | 0,094  | 0,014  | $\text{mg/l}$           | 134%     |
| Chloride                      | 54,8         | 1,2           | 53,5   | 3,05   | $\text{mg/l}$           | 98%      |
| Sulphate                      | 34,7         | 0,4           | 34,0   | 3,13   | $\text{mg/l}$           | 98%      |
| Orthophosphate                | <0,009       |               | <0,02  |        | $\text{mg/l}$           | •        |
| Boron                         | 0,1265       | 0,0012        | 0,123  | 0,0123 | $\text{mg/l}$           | 97%      |
| DOC                           | 1,89         | 0,04          | 2,39   | 0,115  | $\text{mg/l}$           | 126%     |
| Total P (as PO <sub>4</sub> ) | <0,009       |               | <0,02  |        | $\text{mg/l}$           | •        |
| KMnO <sub>4</sub> -Index      | 3,51         | 0,12          | 1,70   | 0,40   | $\text{mg/l}$           | 48%      |



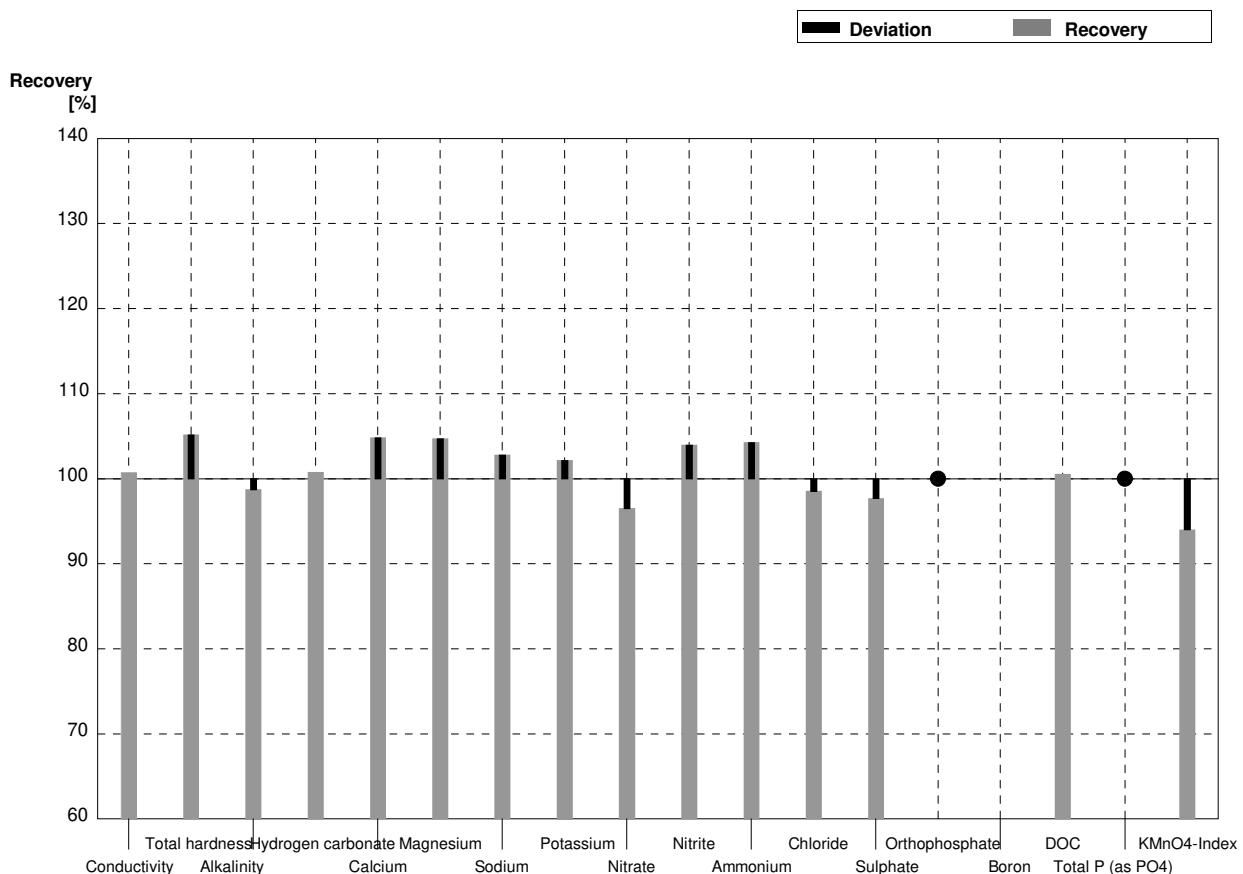
**Sample N167B**  
**Laboratory AT**

| Parameter                     | Target value | $\pm$ U (k=2) | Result | $\pm$   | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|---------|-------------------------|----------|
| Conductivity                  | 444          | 1             | 444    | 14,0    | $\mu\text{S}/\text{cm}$ | 100%     |
| Total hardness                | 1,321        | 0,015         | 1,33   | 0,20    | $\text{mmol/l}$         | 101%     |
| Alkalinity                    | 1,294        | 0,018         | 1,25   | 0,42    | $\text{mmol/l}$         | 97%      |
| Hydrogen carbonate            | 75,9         | 1,1           | 76     | 25,8    | $\text{mg/l}$           | 100%     |
| Calcium                       | 39,6         | 0,6           | 39,82  | 3,32    | $\text{mg/l}$           | 101%     |
| Magnesium                     | 8,07         | 0,10          | 7,97   | 0,642   | $\text{mg/l}$           | 99%      |
| Sodium                        | 30,8         | 0,2           | 29,99  | 2,27    | $\text{mg/l}$           | 97%      |
| Potassium                     | 6,98         | 0,04          | 7,01   | 0,708   | $\text{mg/l}$           | 100%     |
| Nitrate                       | 51,3         | 1,2           | 50,2   | 5,35    | $\text{mg/l}$           | 98%      |
| Nitrite                       | 0,0203       | 0,0018        | 0,0220 | 0,003   | $\text{mg/l}$           | 108%     |
| Ammonium                      | <0,01        |               | 0,0270 | 0,004   | $\text{mg/l}$           | FP       |
| Chloride                      | 28,6         | 0,4           | 28,2   | 1,61    | $\text{mg/l}$           | 99%      |
| Sulphate                      | 58,9         | 0,4           | 57,5   | 5,28    | $\text{mg/l}$           | 98%      |
| Orthophosphate                | 0,061        | 0,001         | 0,128  | 0,026   | $\text{mg/l}$           | 210%     |
| Boron                         | 0,0544       | 0,0004        | 0,0548 | 0,00548 | $\text{mg/l}$           | 101%     |
| DOC                           | 4,88         | 0,05          | 5,15   | 0,231   | $\text{mg/l}$           | 106%     |
| Total P (as PO <sub>4</sub> ) | 0,187        | 0,003         | 0,183  | 0,038   | $\text{mg/l}$           | 98%      |
| KMnO <sub>4</sub> -Index      | 5,64         | 0,15          | 2,23   | 0,53    | $\text{mg/l}$           | 40%      |



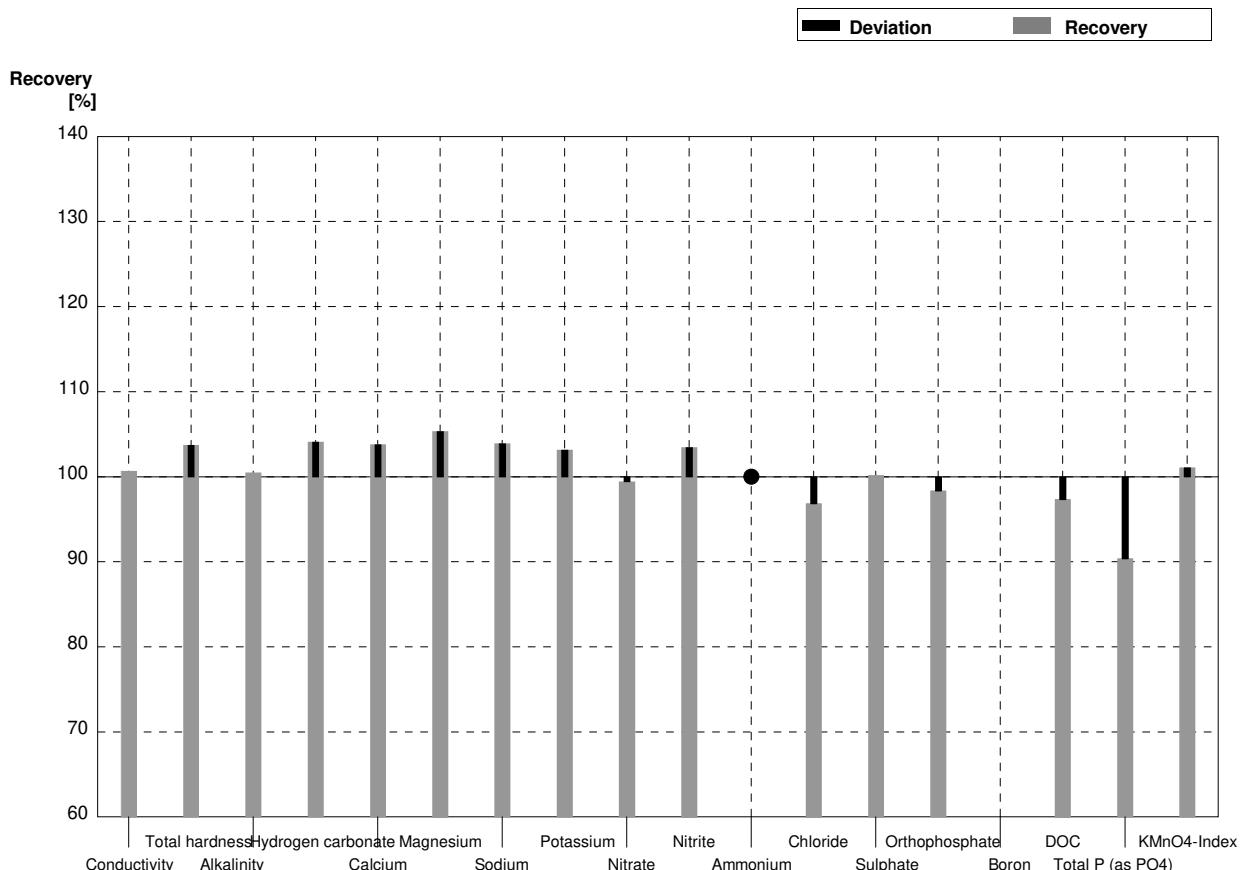
**Sample** N167A  
**Laboratory** AU

| Parameter          | Target value | $\pm$ U (k=2) | Result | $\pm$ | Unit                    | Recovery |
|--------------------|--------------|---------------|--------|-------|-------------------------|----------|
| Conductivity       | 544          | 2             | 548    | 11    | $\mu\text{S}/\text{cm}$ | 101%     |
| Total hardness     | 1,94         | 0,02          | 2,04   | 0,14  | $\text{mmol/l}$         | 105%     |
| Alkalinity         | 2,36         | 0,03          | 2,33   | 0,12  | $\text{mmol/l}$         | 99%      |
| Hydrogen carbonate | 140,9        | 1,7           | 142    | 11    | $\text{mg/l}$           | 101%     |
| Calcium            | 60,1         | 0,9           | 63     | 5     | $\text{mg/l}$           | 105%     |
| Magnesium          | 10,79        | 0,14          | 11,3   | 0,9   | $\text{mg/l}$           | 105%     |
| Sodium             | 24,9         | 0,3           | 25,6   | 3,1   | $\text{mg/l}$           | 103%     |
| Potassium          | 8,81         | 0,06          | 9,0    | 1,0   | $\text{mg/l}$           | 102%     |
| Nitrate            | 37,2         | 0,7           | 35,9   | 2,9   | $\text{mg/l}$           | 97%      |
| Nitrite            | 0,0404       | 0,0009        | 0,0420 | 0,005 | $\text{mg/l}$           | 104%     |
| Ammonium           | 0,070        | 0,004         | 0,073  | 0,019 | $\text{mg/l}$           | 104%     |
| Chloride           | 54,8         | 1,2           | 54     | 4     | $\text{mg/l}$           | 99%      |
| Sulphate           | 34,7         | 0,4           | 33,9   | 2,0   | $\text{mg/l}$           | 98%      |
| Orthophosphate     | <0,009       |               | <0,009 |       | $\text{mg/l}$           | •        |
| Boron              | 0,1265       | 0,0012        |        |       | $\text{mg/l}$           |          |
| DOC                | 1,89         | 0,04          | 1,90   | 0,48  | $\text{mg/l}$           | 101%     |
| Total P (as PO4)   | <0,009       |               | <0,009 |       | $\text{mg/l}$           | •        |
| KMnO4-Index        | 3,51         | 0,12          | 3,30   | 0,2   | $\text{mg/l}$           | 94%      |



**Sample** N167B  
**Laboratory** AU

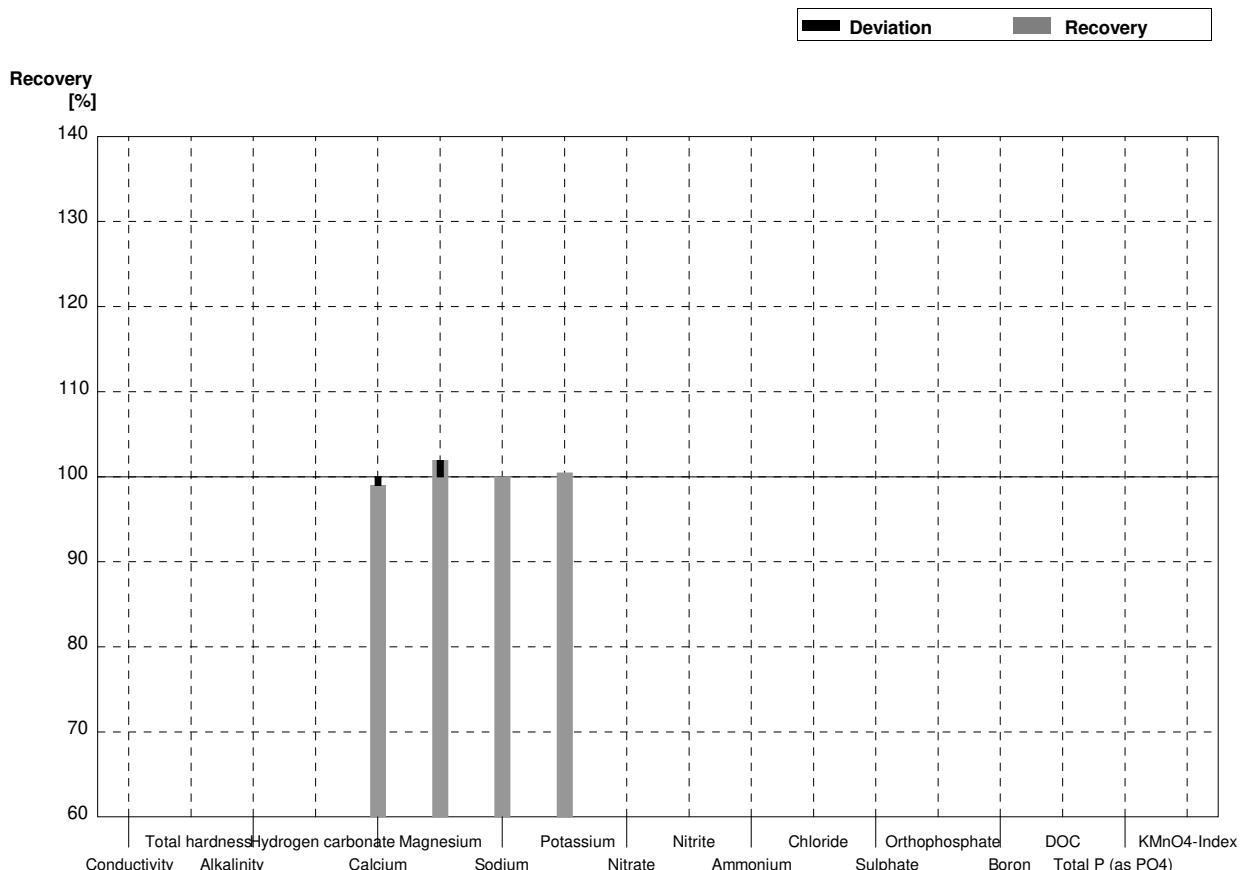
| Parameter                     | Target value | $\pm$ U (k=2) | Result | $\pm$ | Unit                    | Recovery |
|-------------------------------|--------------|---------------|--------|-------|-------------------------|----------|
| Conductivity                  | 444          | 1             | 447    | 9     | $\mu\text{S}/\text{cm}$ | 101%     |
| Total hardness                | 1,321        | 0,015         | 1,37   | 0,09  | $\text{mmol/l}$         | 104%     |
| Alkalinity                    | 1,294        | 0,018         | 1,30   | 0,07  | $\text{mmol/l}$         | 100%     |
| Hydrogen carbonate            | 75,9         | 1,1           | 79     | 6     | $\text{mg/l}$           | 104%     |
| Calcium                       | 39,6         | 0,6           | 41,1   | 3,3   | $\text{mg/l}$           | 104%     |
| Magnesium                     | 8,07         | 0,10          | 8,5    | 0,7   | $\text{mg/l}$           | 105%     |
| Sodium                        | 30,8         | 0,2           | 32,0   | 1,9   | $\text{mg/l}$           | 104%     |
| Potassium                     | 6,98         | 0,04          | 7,2    | 0,8   | $\text{mg/l}$           | 103%     |
| Nitrate                       | 51,3         | 1,2           | 51     | 4     | $\text{mg/l}$           | 99%      |
| Nitrite                       | 0,0203       | 0,0018        | 0,0210 | 0,003 | $\text{mg/l}$           | 103%     |
| Ammonium                      | <0,01        |               | <0,02  |       | $\text{mg/l}$           | •        |
| Chloride                      | 28,6         | 0,4           | 27,7   | 2,2   | $\text{mg/l}$           | 97%      |
| Sulphate                      | 58,9         | 0,4           | 59     | 4     | $\text{mg/l}$           | 100%     |
| Orthophosphate                | 0,061        | 0,001         | 0,060  | 0,005 | $\text{mg/l}$           | 98%      |
| Boron                         | 0,0544       | 0,0004        |        |       | $\text{mg/l}$           |          |
| DOC                           | 4,88         | 0,05          | 4,75   | 1,19  | $\text{mg/l}$           | 97%      |
| Total P (as PO <sub>4</sub> ) | 0,187        | 0,003         | 0,169  | 0,015 | $\text{mg/l}$           | 90%      |
| KMnO <sub>4</sub> -Index      | 5,64         | 0,15          | 5,7    | 0,4   | $\text{mg/l}$           | 101%     |



Sample N167A

Laboratory AV

| Parameter          | Target value | ± U (k=2) | Result | ±     | Unit   | Recovery |
|--------------------|--------------|-----------|--------|-------|--------|----------|
| Conductivity       | 544          | 2         |        |       | µS/cm  |          |
| Total hardness     | 1,94         | 0,02      |        |       | mmol/l |          |
| Alkalinity         | 2,36         | 0,03      |        |       | mmol/l |          |
| Hydrogen carbonate | 140,9        | 1,7       |        |       | mg/l   |          |
| Calcium            | 60,1         | 0,9       | 59,5   | 4,85  | mg/l   | 99%      |
| Magnesium          | 10,79        | 0,14      | 11,0   | 1,23  | mg/l   | 102%     |
| Sodium             | 24,9         | 0,3       | 24,9   | 1,18  | mg/l   | 100%     |
| Potassium          | 8,81         | 0,06      | 8,85   | 0,806 | mg/l   | 100%     |
| Nitrate            | 37,2         | 0,7       |        |       | mg/l   |          |
| Nitrite            | 0,0404       | 0,0009    |        |       | mg/l   |          |
| Ammonium           | 0,070        | 0,004     |        |       | mg/l   |          |
| Chloride           | 54,8         | 1,2       |        |       | mg/l   |          |
| Sulphate           | 34,7         | 0,4       |        |       | mg/l   |          |
| Orthophosphate     | <0,009       |           |        |       | mg/l   |          |
| Boron              | 0,1265       | 0,0012    |        |       | mg/l   |          |
| DOC                | 1,89         | 0,04      |        |       | mg/l   |          |
| Total P (as PO4)   | <0,009       |           |        |       | mg/l   |          |
| KMnO4-Index        | 3,51         | 0,12      |        |       | mg/l   |          |



Sample N167B

Laboratory AV

| Parameter          | Target value | ± U (k=2) | Result | ±     | Unit   | Recovery |
|--------------------|--------------|-----------|--------|-------|--------|----------|
| Conductivity       | 444          | 1         |        |       | µS/cm  |          |
| Total hardness     | 1,321        | 0,015     |        |       | mmol/l |          |
| Alkalinity         | 1,294        | 0,018     |        |       | mmol/l |          |
| Hydrogen carbonate | 75,9         | 1,1       |        |       | mg/l   |          |
| Calcium            | 39,6         | 0,6       | 39,4   | 3,21  | mg/l   | 99%      |
| Magnesium          | 8,07         | 0,10      | 8,26   | 0,927 | mg/l   | 102%     |
| Sodium             | 30,8         | 0,2       | 32,3   | 1,53  | mg/l   | 105%     |
| Potassium          | 6,98         | 0,04      | 7,84   | 0,714 | mg/l   | 112%     |
| Nitrate            | 51,3         | 1,2       |        |       | mg/l   |          |
| Nitrite            | 0,0203       | 0,0018    |        |       | mg/l   |          |
| Ammonium           | <0,01        |           |        |       | mg/l   |          |
| Chloride           | 28,6         | 0,4       |        |       | mg/l   |          |
| Sulphate           | 58,9         | 0,4       |        |       | mg/l   |          |
| Orthophosphate     | 0,061        | 0,001     |        |       | mg/l   |          |
| Boron              | 0,0544       | 0,0004    |        |       | mg/l   |          |
| DOC                | 4,88         | 0,05      |        |       | mg/l   |          |
| Total P (as PO4)   | 0,187        | 0,003     |        |       | mg/l   |          |
| KMnO4-Index        | 5,64         | 0,15      |        |       | mg/l   |          |

