



WEPAL-QUASIMEME

Certificate of Analysis



Chlorophyll and Pheopigments in seawater

REFERENCE MATERIAL

AQ11 sample 95

2026-Aug-13



Certificate of Analysis AQ11 95

General Information

In this report an overview is given of analytical data for this sample collected in our proficiency testing program. The consensus values are calculated using a robust statistical model. With this NDA model, the mean and standard deviation are calculated using all reported data when at least 4 results are left after removal of reported 'lower than' (<) and 0 (= zero) values. No outliers are removed.

This report is divided into two sections: Consensus Values and Indicative Values. The division is made on the reliability of the data. Consensus Values are based on at least 8 results and a maximum relative uncertainty of 6.25%. Indicative Values are based on a maximum relative uncertainty of 35% and a minimum of 4 and maximum of 7 results, or a relative uncertainty greater than 6.25% when there are at least 8 results.

For each measurand, the following parameters are given: mean, standard deviation, coefficient of variation, number of results, median, MAD (Median of Absolute Deviation), the uncertainty of the mean (consensus or indicative) value and the relative uncertainty.

Please note: Most WEPAL-QUASIMEME reference materials are found to be stable over the long term (>10 years) for most measurand/matrix combinations. There are a few exceptions known to us as being less stable over the long term. These are organotins in sediment (MS6), ASP in shellfish (BT7), some PAHs and PCBs in sediment (SETOC) and N-NH₄ (as N) & N-NO₃ (as N) in clay soils (ISE).

The results of each measurand is expressed on volumetric basis.

Sample information

QUASIMEME reference materials cover a range of natural AQ11 species from contaminated waters from the North Sea and/or Mediterranean.

This AQ11 sample 95 of Oosterschelde 2025 serie A from Easterscheldt, the Netherlands is prepared for the QUASIMEME proficiency programs. The results on which the values in this report are based were taken from the rounds given in the following table.

Year.Round	Program	Sample Round Id
2026.1	AQ11	QCH131SW



Consensus Values AQ11

Method: Pigments - AQ11

Element

Chlorophyll-a

Unit
µg/l

Mean
2.93

Std.Dev.
0.556

CV %
19.0

N
35

Median
2.81

MAD
0.390

Uncertainty
0.117

Rel.Uncert. %
4.01



Indicative Values AQ11

Method: Pigments - AQ11

Element	Unit	Mean	Std.Dev.	CV %	N	Median	MAD	Uncertainty	Rel.Uncert. %
Pheopigments	µg/l	0.557	0.416	74.8	16	0.601	0.233	0.130	23.4
Chlorophyll-a (Corr)	µg/l	2.21	0.824	37.2	10	2.19	0.421	0.326	14.7

Method: Pigments-HPLC - AQ11

Element	Unit	Mean	Std.Dev.	CV %	N	Median	MAD	Uncertainty	Rel.Uncert. %
Chlorophyll-a (HPLC)	µg/l	2.66	0.407	15.3	7	2.60	0.260	0.192	7.24
Chlorophyll-b (HPLC)	µg/l	0.753	0.176	23.3	4	0.764	0.083	0.110	14.6