

Table of assigned values

Parameter	Sample	Unit	Assigned value ±	U (k=2)	Criterion	Criterion [%]
Ammonium (as NH ₄)	N175 A	mg/l	0.0339 ±	0.00218	0.00643	19
	N175 B	mg/l	0.307 ±	0.00667	0.0369	12
Boron	N175 A	mg/l	0.0597 ±	0.00224	0.00657	11
	N175 B	mg/l	0.0176 ±	0.00104	0.00211	12
Calcium	N175 A	mg/l	165 ±	1.53	5.12	3.1
	N175 B	mg/l	67.4 ±	0.625	2.09	3.1
Chloride	N175 A	mg/l	102 ±	0.706	4.07	4
	N175 B	mg/l	29.3 ±	0.251	1.17	4
DOC (as C)	N175 A DOC	mg/l	1.48 ±	0.0592	0.193	13
	N175 B DOC	mg/l	3.46 ±	0.0842	0.346	10
El. conductivity (25°C)	N175 A	µS/cm	1160 ±	3.02	15.1	1.3
	N175 B	µS/cm	533 ±	1.36	6.93	1.3
Total-P (as PO ₄)	N175 A	mg/l	0.161 ±	0.00348	0.0121	7.5
	N175 B	mg/l	2.17 ±	0.0523	0.162	7.5
Total hardness	N175 A	mmol/l	5.74 ±	0.0381	0.172	3
	N175 B	mmol/l	2.34 ±	0.0174	0.0701	3
Total nitrogen	N175 A	mg/l	2.96 ±	0.0892	0.246	8.3
	N175 B	mg/l	5.8 ±	0.138	0.482	8.3
Hydrogen carbonate	N175 A	mg/l	450 ±	1.44	8.99	2
	N175 B	mg/l	220 ±	0.967	4.41	2
Potassium	N175 A	mg/l	2.56 ±	0.0428	0.133	5.2
	N175 B	mg/l	2.58 ±	0.0293	0.134	5.2
Magnesium	N175 A	mg/l	38.6 ±	0.337	1.55	4
	N175 B	mg/l	15.6 ±	0.182	0.622	4
Sodium	N175 A	mg/l	26.5 ±	0.22	0.899	3.4
	N175 B	mg/l	16.4 ±	0.195	0.558	3.4
Nitrate (as NO ₃)	N175 A	mg/l	12.6 ±	0.15	0.629	5
	N175 B	mg/l	23.3 ±	0.218	1.16	5
Nitrite (as NO ₂)	N175 A	mg/l	0.0382 ±	0.001	0.00298	7.8
	N175 B	mg/l	0.678 ±	0.00681	0.036	5.3
Orthophosphate (as PO ₄)	N175 A	mg/l	0.0866 ±	0.00442	0.0121	14
	N175 B	mg/l	0.37 ±	0.0253	0.0629	17
pH-value	N175 A	-	7.54 ±	0.0389	0.151	2
	N175 B	-	7.63 ±	0.0362	0.153	2
Sulfate (as SO ₄)	N175 A	mg/l	106 ±	0.909	3.49	3.3
	N175 B	mg/l	32.1 ±	0.266	1.06	3.3
Alkalinity Ks 4,3	N175 A	mmol/l	7.39 ±	0.0212	0.148	2

Parameter	Sample	Unit	Assigned value ±	U (k=2)	Criterion	Criterion [%]
Alkalinity Ks 4,3	N175 B	mmol/l	3.64 ±	0.0136	0.0728	2

Legend:

Assigned value	Target value for proficiency assessment of the participants (3 significant digits)
U (k=2)	Expanded uncertainty (k=2) of the assigned value (3 significant digits)
Criterion	Specified value for the determination of the z-score in the given unit (3 significant digits)
Criterion [%]	Specified value for the determination of the z-score in % of the assigned value (2 significant digits)