

Table of assigned values

Parameter	Sample	Unit	Assigned value ±	U (k=2)	Criterion	Criterion [%]
Alkalinity Ks 4,3	N170 A	mmol/l	7.45 ±	0.0235	0.149	2
	N170 B	mmol/l	3.37 ±	0.0128	0.0675	2
Ammonium (as NH ₄)	N170 A	mg/l	0.16 ±	0.00522	0.0192	12
	N170 B	mg/l	0.32 ±	0.00755	0.0384	12
Boron	N170 A	mg/l	0.0584 ±	0.0014	0.00643	11
	N170 B	mg/l	0.015 ±	0.000802	0.00165	11
Calcium	N170 A	mg/l	173 ±	1.92	5.37	3.1
	N170 B	mg/l	60 ±	0.67	1.86	3.1
Chloride	N170 A	mg/l	117 ±	1.01	4.67	4
	N170 B	mg/l	23.2 ±	0.17	0.928	4
DOC (as C)	N170 A	mg/l	1.48 ±	0.0414	0.148	10
	N170 B	mg/l	3.68 ±	0.0639	0.368	10
El. conductivity (25°C)	N170 A	µS/cm	1220 ±	3.25	15.8	1.3
	N170 B	µS/cm	455 ±	1.25	5.91	1.3
Hydrogen carbonate	N170 A	mg/l	453 ±	1.68	9.06	2
	N170 B	mg/l	205 ±	1.01	4.09	2
Magnesium	N170 A	mg/l	40.5 ±	0.422	1.62	4
	N170 B	mg/l	13.1 ±	0.141	0.525	4
Nitrate (as NO ₃)	N170 A	mg/l	12.3 ±	0.157	0.616	5
	N170 B	mg/l	13.1 ±	0.0888	0.656	5
Nitrite (as NO ₂)	N170 A	mg/l	0.084 ±	0.00163	0.00445	5.3
	N170 B	mg/l	0.273 ±	0.00332	0.0145	5.3
Orthophosphate (as PO ₄)	N170 A	mg/l	0.0759 ±	0.00202	0.00683	9
	N170 B	mg/l	0.159 ±	0.00696	0.0143	9
pH-value	N170 A	-	7.53 ±	0.0311	0.151	2
	N170 B	-	7.87 ±	0.0233	0.157	2
Potassium	N170 A	mg/l	2.7 ±	0.0376	0.141	5.2
	N170 B	mg/l	2.07 ±	0.0275	0.108	5.2
Sodium	N170 A	mg/l	28.4 ±	0.226	0.967	3.4
	N170 B	mg/l	13.7 ±	0.128	0.466	3.4
Sulfate (as SO ₄)	N170 A	mg/l	108 ±	0.814	3.58	3.3
	N170 B	mg/l	22.6 ±	0.239	0.747	3.3
Total-P (as PO ₄)	N170 A	mg/l	0.217 ±	0.00766	0.0163	7.5
	N170 B	mg/l	1.29 ±	0.0194	0.0967	7.5
Total hardness	N170 A	mmol/l	6 ±	0.056	0.18	3
	N170 B	mmol/l	2.04 ±	0.0197	0.0612	3
Total nitrogen	N170 A	mg/l	3.18 ±	0.091	0.264	8.3
	N170 B	mg/l	3.6 ±	0.0881	0.298	8.3

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)