

Table of assigned values Nutrients/Major Ions N155

1st Edition, 15.03.2021

Table of assigned values

Parameter	Sample	Unit	Assigned value ±	U (k=2)	Criterion	Criterion [%]
Alkalinity Ks 4,3	N155 A	mmol/l	7.28 ±	0.029	0.146	2
	N155 B	mmol/l	3.11 ±	0.0171	0.0622	2
Ammonium (as NH ₄)	N155 A	mg/l	0.0854 ±	0.00275	0.0102	12
	N155 B	mg/l	0.359 ±	0.00779	0.0431	12
Boron	N155 A	mg/l	0.0534 ±	0.00214	0.00588	11
	N155 B	mg/l	0.0189 ±	0.000778	0.00208	11
Calcium	N155 A	mg/l	155 ±	2	4.82	3.1
	N155 B	mg/l	58.7 ±	0.681	1.82	3.1
Chloride	N155 A	mg/l	85.1 ±	0.62	3.4	4
	N155 B	mg/l	44.2 ±	0.341	1.77	4
DOC (as C)	N155 A DOC	mg/l	2.07 ±	0.0588	0.207	10
	N155 B DOC	mg/l	4.27 ±	0.0971	0.427	10
El. conductivity (25°C)	N155 A	µS/cm	1080 ±	4.42	14	1.3
	N155 B	µS/cm	517 ±	1.75	6.72	1.3
Hydrogen carbonate	N155 A	mg/l	442 ±	1.46	8.84	2
	N155 B	mg/l	189 ±	1.54	3.78	2
Magnesium	N155 A	mg/l	36.2 ±	0.459	1.45	4
	N155 B	mg/l	12.5 ±	0.185	0.501	4
Nitrate (as NO ₃)	N155 A	mg/l	10.7 ±	0.126	0.537	5
	N155 B	mg/l	20.1 ±	0.156	1.01	5
Nitrite (as NO ₂)	N155 A	mg/l	0.102 ±	0.00202	0.00539	5.3
	N155 B	mg/l	0.24 ±	0.00384	0.0127	5.3
Orthophosphate (as PO ₄)	N155 A	mg/l	0.0589 ±	0.00231	0.0053	9
	N155 B	mg/l	0.235 ±	0.00356	0.0212	9
pH-value	N155 A	-	7.73 ±	0.027	0.155	2
	N155 B	-	7.92 ±	0.0209	0.158	2
Potassium	N155 A	mg/l	2.4 ±	0.0526	0.125	5.2
	N155 B	mg/l	2.94 ±	0.0476	0.153	5.2
Sodium	N155 A	mg/l	21.5 ±	0.289	0.73	3.4
	N155 B	mg/l	25.6 ±	0.277	0.87	3.4
Sulfate (as SO ₄)	N155 A	mg/l	94.2 ±	1.02	3.11	3.3
	N155 B	mg/l	24.7 ±	0.31	0.815	3.3
Total-P (as PO ₄)	N155 A	mg/l	1.16 ±	0.0213	0.0869	7.5
	N155 B	mg/l	1.1 ±	0.0151	0.0824	7.5
Total hardness	N155 A	mmol/l	5.41 ±	0.0392	0.162	3
	N155 B	mmol/l	2 ±	0.0126	0.0599	3
Total nitrogen	N155 A	mg/l	2.59 ±	0.0647	0.215	8.3
	N155 B	mg/l	5.05 ±	0.0813	0.42	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)