

River	Danube	Catchment	8107	km ²	D01
Distance from the mouth [km]	2581.0	Altitude	460	m	
Location	Neu-Ulm L				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	364	60.0	148.6	459.8	127.9	251.5	
Temperature	°C	26	4.3	10.8	17.8	11.3	17.1	
Suspended Solids	mg/l	26	< 3	8	39	4	20	
Dissolved Oxygen	mg/l	26	7.4	10.2	13.9	10.2	8.4	I
BOD ₅	mg/l	26	< 1.0	1.1	1.9	1.0	1.6	I
COD _{Mn}	mg/l	26	1.3	2.7	6.0	2.4	4.3	I
COD _{Cr}	mg/l							
TOC	mg/l	26	2.0	3.2	6.3	2.8	4.7	
DOC	mg/l							
pH		26	8.0	8.1	8.2	8.1	8.2	II
							8.0	II
Alkalinity	mmol/l	27	3.7	4.3	5.0	4.4	4.8	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	< 0.020	0.053	0.150	0.040	0.105	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	27	0.009	0.019	0.033	0.018	0.025	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	2.20	3.07	4.30	3.05	3.65	III
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	0.018	0.042	0.070	0.039	0.060	II
Total Phosphorus	mg/l	26	0.04	0.08	0.17	0.07	0.15	II
Total Phosphorus - Dissolved	mg/l	21	0.02	0.04	0.07	0.04	0.06	
Chlorophyll-a	µg/l	25	< 1.0	3.6	10.0	3.0	5.0	I
Conductivity @ 20°C	µS/cm	26	347	455	566	468	508	
Calcium (Ca ²⁺)	mg/l							
Sulphate (SO ₄ ²⁻)	mg/l	26	10	17	23	17	20	
Magnesium (Mg ²⁺)	mg/l							
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	26	0.010	0.018	0.080	0.010	0.030	
Iron (Fe)	mg/l	26	0.060	0.204	0.790	0.120	0.435	
Chloride (Cl)	mg/l	26	10	19	35	19	24	
Zinc (Zn) - Dissolved	µg/l	27	< 10	< 10	< 10	10.0	10.0	**
Copper (Cu) - Dissolved	µg/l	27	< 1.0	2.0	7.0	2.0	3.0	III
Chromium (Cr) - Dissolved	µg/l	27	< 1.0	1.0	1.0	1.0	1.0	II
Lead (Pb) - Dissolved	µg/l	27	< 1.0	1.0	2.0	1.0	1.0	II
Cadmium (Cd) - Dissolved	µg/l	27	< 0.10	0.10	0.10	0.10	0.10	II
Mercury (Hg) - Dissolved	µg/l	27	< 0.100	< 0.100	< 0.100	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l	27	< 1.00	1.26	4.00	1.00	2.00	III
Arsenic (As) - Dissolved	µg/l	27	< 1.0	< 1.0	< 1.0	1.0	1.0	II
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	26	< 10	< 10	< 10	10.0	10.0	II
Copper (Cu)	µg/l	26	< 1.0	2.6	10.0	2.0	3.0	II
Chromium (Cr) - total	µg/l	26	< 1.0	1.1	2.0	1.0	1.0	II
Lead (Pb)	µg/l	26	< 1.0	1.1	2.0	1.0	1.0	II
Cadmium (Cd)	µg/l	26	< 0.10	0.10	0.10	0.10	0.10	II
Mercury (Hg)	µg/l	26	< 0.100	< 0.100	< 0.100	0.100	0.100	II
Nickel (Ni)	µg/l	26	< 1.00	1.38	5.00	1.00	2.00	II
Arsenic (As)	µg/l	26	< 1.0	< 1.0	< 1.0	1.0	1.0	II
Aluminium (Al)	µg/l							
Phenol index	mg/l							
Anionic active surfactants	mg/l							
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	3	< 0.010	< 0.010	< 0.010	0.010	0.010	I
pp'DDT	µg/l	3	< 0.020	< 0.020	< 0.020	0.020	0.020	**
Atrazine	µg/l	4	< 0.010	0.010	0.010	0.010	0.010	I
Chloroform	µg/l	13	< 0.01	0.02	0.08	0.01	0.04	II
Carbon tetrachloride	µg/l	13	< 0.01	0.02	0.06	0.01	0.04	II
Trichloroethylene	µg/l	13	< 0.01	0.02	0.06	0.02	0.03	II
Tetrachloroethylene	µg/l	13	0.04	0.11	0.26	0.09	0.21	II
Macrozoobenthos	sapr.index	1	2.11	2.11	2.11	2.11	2.11	II
Macrozoobenthos	no of taxa	1	88	88	88	88	88	
Total Coliforms (37°C)	10 ³ CFU/100 ml							
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	77086	km ²	D02
Distance from the mouth [km]	2204.0	Altitude	290	m	
Location	Jochenstein M				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	780.0	1619.4	3808.6	1581.0	2241.5	
Temperature	°C	26	1.3	10.4	18.1	12.3	17.3	
Suspended Solids	mg/l	26	3	43	550	18	64	
Dissolved Oxygen	mg/l	26	9.1	11.1	13.1	11.1	9.6	I
BOD ₅	mg/l	26	1.2	2.3	4.0	2.3	3.4	II
COD _{Mn}	mg/l	26	1.7	3.2	12.0	2.9	3.9	I
COD _{Cr}	mg/l	11	4.0	9.5	14.0	10.0	14.0	II
TOC	mg/l	26	1.9	3.3	11.0	2.9	3.9	
DOC	mg/l	25	1.6	2.6	3.5	2.7	3.1	
pH		26	7.8	8.0	8.2	8.0	8.1	II
							7.9	II
Alkalinity	mmol/l	26	1.7	3.1	3.7	3.3	3.6	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	0.030	0.079	0.160	0.070	0.140	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	11	< 0.005	0.016	0.030	0.014	0.030	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	1.20	2.18	3.30	2.25	3.05	III
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	< 0.005	0.032	0.067	0.033	0.052	II
Total Phosphorus	mg/l	26	0.04	0.09	0.66	0.07	0.12	II
Total Phosphorus - Dissolved	mg/l	27	0.01	0.03	0.07	0.04	0.06	
Chlorophyll-a	µg/l	26	< 1.0	10.4	43.0	5.5	32.5	II
Conductivity @ 20°C	µS/cm	26	253	340	420	355	405	
Calcium (Ca ²⁺)	mg/l	26	44.1	57.6	80.6	58.4	65.4	
Sulphate (SO ₄ ²⁻)	mg/l	26	19	26	36	26	30	
Magnesium (Mg ²⁺)	mg/l	26	10.0	13.3	21.2	13.0	14.9	
Potassium (K ⁺)	mg/l	10	1.7	2.4	3.1	2.5	3.0	
Sodium (Na ⁺)	mg/l	10	5.6	10.3	16.6	9.7	15.6	
Manganese (Mn)	mg/l	26	0.009	0.048	0.340	0.029	0.090	
Iron (Fe)	mg/l	26	0.100	0.431	3.100	0.300	0.540	
Chloride (Cl)	mg/l	26	8	15	28	15	22	
Zinc (Zn) - Dissolved	µg/l	4	< 10.0	12.5	20.0	10.0	17.0	**
Copper (Cu) - Dissolved	µg/l	4	1.0	1.5	2.0	1.5	2.0	II
Chromium (Cr) - Dissolved	µg/l	4	< 1.0	< 1.0	< 1.0	1.0	1.0	II
Lead (Pb) - Dissolved	µg/l	4	< 1.0	< 1.0	< 1.0	1.0	1.0	II
Cadmium (Cd) - Dissolved	µg/l	4	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg) - Dissolved	µg/l	4	< 0.100	0.100	0.100	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l	4	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Arsenic (As) - Dissolved	µg/l	4	< 1.0	< 1.0	< 1.0	1.0	1.0	II
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	26	< 10.0	13.1	40.0	10.0	20.0	II
Copper (Cu)	µg/l	26	1.0	3.9	21.0	3.0	5.5	II
Chromium (Cr) - total	µg/l	26	< 1.0	1.0	2.0	1.0	1.0	II
Lead (Pb)	µg/l	26	< 1.0	1.5	14.0	1.0	1.0	II
Cadmium (Cd)	µg/l	26	< 0.10	0.10	0.20	0.10	0.10	II
Mercury (Hg)	µg/l	25	< 0.100	0.108	0.200	0.100	0.100	II
Nickel (Ni)	µg/l	26	< 1.00	1.81	17.00	1.00	2.00	II
Arsenic (As)	µg/l	26	< 1.0	1.2	4.0	1.0	1.0	II
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	< 0.02	< 0.02	< 0.02	0.020	0.020	
Anionic active surfactants	mg/l	11	< 0.100	0.108	0.190	0.100	0.100	
AOX	µg/l	12	< 10.0	10.0	10.0	10.0	10.0	I
Petroleum hydrocarbons	mg/l	11	< 0.200	< 0.200	< 0.200	0.200	0.200	
Lindane	µg/l	5	< 0.010	< 0.010	< 0.010	0.010	0.010	I
pp'DDT	µg/l	5	< 0.020	< 0.020	< 0.020	0.020	0.020	**
Atrazine	µg/l	10	< 0.010	0.012	0.030	0.010	0.012	II
Chloroform	µg/l	13	< 0.01	0.15	1.20	0.03	0.25	II
Carbon tetrachloride	µg/l	13	< 0.01	0.02	0.06	0.01	0.04	II
Trichloroethylene	µg/l	13	0.01	0.04	0.11	0.04	0.06	II
Tetrachloroethylene	µg/l	13	0.04	0.11	0.25	0.09	0.18	II
Macrozoobenthos	sapr.index	2	2.18	2.22	2.26	2.22	2.25	II
Macrozoobenthos	no of taxa	2	89	93	97	93	96	
Total Coliforms (37°C)	10 ³ CFU/100 ml							
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	/Inn	Catchment	9905	km ²	D03
Distance from the mouth [km]	195.0	Altitude	452	m	
Location	Kirchdorf M				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	357	69.3	320.3	1003.7	226.3	626.0	
Temperature	°C	25	0.9	8.0	14.0	8.4	12.6	
Suspended Solids	mg/l	25	< 3	57	704	3	104	
Dissolved Oxygen	mg/l	25	9.0	11.5	13.6	11.3	10.3	I
BOD ₅	mg/l	24	< 1.0	1.1	2.6	1.0	1.4	I
COD _{Mn}	mg/l	25	< 0.5	1.1	2.9	0.9	1.8	I
COD _{Cr}	mg/l							
TOC	mg/l	25	< 0.5	1.5	4.4	1.3	2.6	
DOC	mg/l							
pH		25	7.7	8.1	8.4	8.1	8.2	II
							8.0	II
Alkalinity	mmol/l							
Ammonium-N (NH ₄ ⁺ -N)	mg/l	24	0.020	0.052	0.250	0.030	0.101	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l							
Nitrate-N (NO ₃ ⁻ -N)	mg/l	24	0.30	0.51	0.90	0.50	0.70	I
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	24	< 0.005	0.011	0.030	0.007	0.020	I
Total Phosphorus	mg/l	24	0.01	0.09	0.88	0.05	0.14	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	25	148	241	474	209	317	
Calcium (Ca ²⁺)	mg/l							
Sulphate (SO ₄ ²⁻)	mg/l							
Magnesium (Mg ²⁺)	mg/l							
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	25	0.003	0.031	0.330	0.009	0.058	
Iron (Fe)	mg/l	25	0.045	0.918	8.700	0.210	1.670	
Chloride (Cl)	mg/l	25	< 1	4	8	4	7	
Zinc (Zn) - Dissolved	µg/l	3	< 10	16.7	30.0	10.0	26.0	**
Copper (Cu) - Dissolved	µg/l	3	2.0	2.3	3.0	2.0	2.8	III
Chromium (Cr) - Dissolved	µg/l	3	< 1.0	< 1.0	< 1.0	1.0	1.0	II
Lead (Pb) - Dissolved	µg/l	3	< 1.0	< 1.0	< 1.0	1.0	1.0	II
Cadmium (Cd) - Dissolved	µg/l	3	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg) - Dissolved	µg/l	3	0.300	0.400	0.500	0.400	0.480	III
Nickel (Ni) - Dissolved	µg/l	3	1.00	1.00	1.00	1.00	1.00	II
Arsenic (As) - Dissolved	µg/l	3	1.0	1.0	1.0	1.0	1.0	II
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	25	< 10	12.0	50.0	10.0	10.0	II
Copper (Cu)	µg/l	25	1.0	4.0	20.0	3.0	6.0	II
Chromium (Cr) - total	µg/l	25	< 1.0	1.8	10.0	1.0	2.6	II
Lead (Pb)	µg/l	25	< 1.0	2.1	19.0	1.0	3.6	II
Cadmium (Cd)	µg/l	25	< 0.10	0.11	0.20	0.10	0.10	II
Mercury (Hg)	µg/l	25	0.100	0.464	0.800	0.400	0.700	V
Nickel (Ni)	µg/l	25	< 1.00	2.56	15.00	1.00	4.60	II
Arsenic (As)	µg/l	25	1.0	2.1	5.0	2.0	3.6	II
Aluminium (Al)	µg/l							
Phenol index	mg/l							
Anionic active surfactants	mg/l							
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	4	< 0.010	< 0.010	< 0.010	0.010	0.010	I
pp'DDT	µg/l	4	< 0.020	< 0.020	< 0.020	0.020	0.020	**
Atrazine	µg/l	5	< 0.010	< 0.010	< 0.010	0.010	0.010	I
Chloroform	µg/l	12	< 0.01	0.03	0.10	0.02	0.08	II
Carbon tetrachloride	µg/l	12	< 0.01	0.02	0.07	0.01	0.05	II
Trichloroethylene	µg/l	12	< 0.01	0.02	0.06	0.01	0.02	I
Tetrachloroethylene	µg/l	12	< 0.01	0.05	0.13	0.05	0.12	II
Macrozoobenthos	sapr.index	1	2.10	2.10	2.10	2.10	2.10	II
Macrozoobenthos	no of taxa	1	72	72	72	72	72	
Total Coliforms (37°C)	10 ³ CFU/100 ml							
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	/Inn/Salzach	Catchment	6113	km ²	D04
Distance from the mouth [km]	47.0	Altitude	390	m	
Location	Laufen L				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	360	83.3	252.6	1110.3	224.3	420.8	
Temperature	°C	26	1.7	7.8	13.8	9.1	11.7	
Suspended Solids	mg/l	26	< 3	28	236	10	43	
Dissolved Oxygen	mg/l	26	9.9	11.2	13.2	11.1	10.3	I
BOD ₅	mg/l	26	< 1.0	2.2	3.6	2.1	3.2	II
COD _{Mn}	mg/l	26	1.5	2.7	7.8	2.2	4.5	I
COD _{Cr}	mg/l							
TOC	mg/l	26	0.9	2.7	8.0	2.3	3.8	
DOC	mg/l	25	0.8	2.1	3.4	2.1	2.9	
pH		26	7.4	7.9	8.2	8.0	8.1	II
							7.5	II
Alkalinity	mmol/l	26	1.8	2.5	3.4	2.6	3.0	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	< 0.020	0.039	0.130	0.025	0.070	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l							
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	0.43	0.68	1.00	0.67	0.88	I
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	0.005	0.018	0.057	0.017	0.028	I
Total Phosphorus	mg/l	26	0.02	0.06	0.37	0.04	0.10	II
Total Phosphorus - Dissolved	mg/l	26	0.01	0.02	0.06	0.02	0.04	
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	26	185	273	410	277	335	
Calcium (Ca ²⁺)	mg/l	26	28.8	41.4	53.8	42.9	50.5	
Sulphate (SO ₄ ²⁻)	mg/l	26	2	19	32	21	27	
Magnesium (Mg ²⁺)	mg/l	26	1.4	8.2	13.9	8.6	11.5	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	26	0.010	0.038	0.240	0.019	0.064	
Iron (Fe)	mg/l	26	0.060	0.597	4.400	0.150	1.750	
Chloride (Cl ⁻)	mg/l	26	2	7	16	6	12	
Zinc (Zn) - Dissolved	µg/l	5	< 10.0	44.0	80.0	50.0	76.0	**
Copper (Cu) - Dissolved	µg/l	6	1.0	1.3	2.0	1.0	2.0	II
Chromium (Cr) - Dissolved	µg/l	6	< 1.0	1.0	1.0	1.0	1.0	II
Lead (Pb) - Dissolved	µg/l	6	< 1.0	< 1.0	< 1.0	1.0	1.0	II
Cadmium (Cd) - Dissolved	µg/l	6	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg) - Dissolved	µg/l	5	< 0.100	0.100	0.100	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l	6	< 1.00	1.17	2.00	1.00	1.50	III
Arsenic (As) - Dissolved	µg/l	6	< 1.0	1.0	1.0	1.0	1.0	II
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	26	10.0	13.1	30.0	10.0	20.0	II
Copper (Cu)	µg/l	26	1.0	6.5	80.0	2.5	6.0	II
Chromium (Cr) - total	µg/l	26	1.0	2.1	9.0	1.0	5.0	II
Lead (Pb)	µg/l	26	2.0	4.9	10.0	4.0	8.0	III
Cadmium (Cd)	µg/l	26	0.1	0.16	0.30	0.20	0.20	II
Mercury (Hg)	µg/l	26	< 0.100	0.119	0.400	0.100	0.100	II
Nickel (Ni)	µg/l	26	1.00	2.27	9.00	2.00	4.00	II
Arsenic (As)	µg/l	26	< 1.0	2.3	13.0	1.0	5.0	II
Aluminium (Al)	µg/l							
Phenol index	mg/l							
Anionic active surfactants	mg/l							
AOX	µg/l	13	< 10.0	< 10.0	< 10.0	10.0	10.0	I
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	3	< 0.010	< 0.010	< 0.010	0.010	0.010	I
pp'DDT	µg/l	3	< 0.020	< 0.020	< 0.020	0.020	0.020	**
Atrazine	µg/l	2	< 0.010	< 0.010	< 0.010	0.010	0.010	I
Chloroform	µg/l	12	< 0.01	0.02	0.06	0.01	0.02	I
Carbon tetrachloride	µg/l	12	< 0.01	0.02	0.06	0.01	0.02	I
Trichloroethylene	µg/l	12	< 0.01	0.02	0.05	0.01	0.02	I
Tetrachloroethylene	µg/l	12	< 0.01	0.03	0.06	0.03	0.04	II
Macrozoobenthos	sapr.index	1	2.14	2.14	2.14	2.14	2.14	II
Macrozoobenthos	no of taxa	1	71	71	71	71	71	
Total Coliforms (37°C)	10 ³ CFU/100 ml							
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	77086	km ²	A01
Distance from the mouth [km]	2204.0	Altitude	290	m	
Location	Jochenstein M				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	764.3	1635.8	3805.0	1605.4	2273.8	
Temperature	°C	12	3.7	10.4	17.9	11.0	16.8	
Suspended Solids	mg/l	12	7	78	690	21	47	
Dissolved Oxygen	mg/l	12	8.7	10.8	12.7	11.1	9.2	I
BOD ₅	mg/l	12	< 0.8	1.0	1.4	1.0	1.3	I
COD _{Mn}	mg/l	12	0.9	2.2	3.5	2.3	3.3	I
COD _{Cr}	mg/l	12	< 3.5	5.1	9.2	3.7	8.8	I
TOC	mg/l	12	1.2	2.7	4.3	2.4	4.2	
DOC	mg/l	12	1.2	2.1	3.0	2.1	2.9	
pH		12	8.1	8.2	8.3	8.2	8.3	II
							8.1	II
Alkalinity	mmol/l	12	2.5	3.2	3.7	3.3	3.6	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.020	0.050	0.108	0.037	0.096	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	< 0.002	0.010	0.019	0.010	0.014	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.23	2.24	3.43	2.16	3.30	III
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	< 0.005	0.034	0.070	0.028	0.066	II
Total Phosphorus	mg/l	12	0.04	0.07	0.12	0.07	0.12	II
Total Phosphorus - Dissolved	mg/l	12	0.01	0.04	0.09	0.04	0.07	
Chlorophyll-a	µg/l	12	1.5	7.6	28.3	6.4	9.9	I
Conductivity @ 20°C	µS/cm	12	276	352	440	350	430	
Calcium (Ca ²⁺)	mg/l	12	43.6	55.1	67.2	55.4	64.6	
Sulphate (SO ₄ ²⁻)	mg/l	12	19	27	38	26	31	
Magnesium (Mg ²⁺)	mg/l	12	9.0	12.2	15.0	12.2	13.8	
Potassium (K ⁺)	mg/l	12	1.4	2.4	3.8	2.3	2.8	
Sodium (Na ⁺)	mg/l	12	5.5	9.6	17.2	8.5	15.7	
Manganese (Mn)	mg/l	12	0.020	0.030	0.070	0.028	0.035	
Iron (Fe)	mg/l	12	0.074	0.477	1.700	0.318	0.881	
Chloride (Cl)	mg/l	12	9	16	26	15	24	
Zinc (Zn) - Dissolved	µg/l	12	2.0	6.1	20.0	5.0	8.7	III
Copper (Cu) - Dissolved	µg/l	12	1.2	2.5	7.0	2.0	3.0	III
Chromium (Cr) - Dissolved	µg/l	12	< 1.0	< 1.0	< 1.0	1.0	1.0	II
Lead (Pb) - Dissolved	µg/l	12	< 1.0	< 1.0	< 1.0	1.0	1.0	II
Cadmium (Cd) - Dissolved	µg/l	12	< 0.13	< 0.13	< 0.13	0.13	0.13	**
Mercury (Hg) - Dissolved	µg/l	12	< 0.100	< 0.100	< 0.100	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l	12	< 1.00	1.69	7.00	1.00	1.96	III
Arsenic (As) - Dissolved	µg/l	12	< 1.0	1.0	1.0	1.0	1.0	II
Aluminium (Al) - Dissolved	µg/l	12	14.8	48.2	130.0	30.0	123.6	
Zinc (Zn)	µg/l	12	2.0	6.6	20.0	5.6	9.0	II
Copper (Cu)	µg/l	12	1.7	2.8	7.0	2.3	3.9	II
Chromium (Cr) - total	µg/l	12	< 1.0	1.1	2.0	1.0	1.0	II
Lead (Pb)	µg/l	12	< 1.0	1.0	1.0	1.0	1.0	II
Cadmium (Cd)	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg)	µg/l	12	< 0.100	< 0.100	< 0.100	0.100	0.100	II
Nickel (Ni)	µg/l	12	< 1.00	1.99	7.00	1.50	2.90	II
Arsenic (As)	µg/l	12	< 1.0	1.1	2.0	1.0	1.2	II
Aluminium (Al)	µg/l	12	128.8	291.9	860.0	197.9	447.0	
Phenol index	mg/l	12	< 0.010	< 0.010	< 0.010	0.010	0.010	
Anionic active surfactants	mg/l	12	< 0.009	0.012	0.023	0.009	0.019	
AOX	µg/l	12	< 2.0	5.9	9.9	6.2	9.1	I
Petroleum hydrocarbons	mg/l	12	< 0.060	< 0.060	< 0.060	0.060	0.060	
Lindane	µg/l	6	< 0.010	< 0.010	< 0.010	0.010	0.010	I
pp'DDT	µg/l	6	< 0.010	< 0.010	< 0.010	0.010	0.010	II
Atrazine	µg/l	12	< 0.020	0.021	0.029	0.020	0.020	I
Chloroform	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Carbon tetrachloride	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Trichloroethylene	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Tetrachloroethylene	µg/l	12	< 0.08	0.08	0.08	0.08	0.08	II
Macrozoobenthos	sapr.index	2	2.13	2.15	2.17	2.15	2.17	II
Macrozoobenthos	no of taxa	2	30	33	35	33	35	
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	1.500	5.325	14.000	3.400	11.900	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	12	0.100	1.390	3.000	1.285	2.820	
Faecal Streptococci	10 ³ CFU/100 ml	12	0.000	0.217	1.100	0.068	0.772	
Salmonella sp.	in 1 litre	12	0.0	0.2	1.0	0.0	0.9	

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	83992	km ²	A02
Distance from the mouth [km]	2120.0	Altitude	251	m	
Location	Abwinden-Asten R				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	807.6	1745.6	4216.4	1695.4	2430.5	
Temperature	°C	12	4.1	11.1	19.0	11.5	17.9	
Suspended Solids	mg/l	12	2	20	42	20	36	
Dissolved Oxygen	mg/l	12	9.2	11.0	13.3	11.1	9.3	I
BOD ₅	mg/l	12	< 0.8	1.2	3.0	1.0	1.2	I
COD _{Mn}	mg/l	6	2.2	2.6	3.0	2.5	3.0	I
COD _{Cr}	mg/l	12	< 3.5	6.2	16.0	5.3	8.8	I
TOC	mg/l	12	1.1	2.4	3.9	2.4	3.5	
DOC	mg/l	12	1.1	1.9	2.6	1.9	2.5	
pH		12	8.1	8.2	8.3	8.2	8.3	II
							8.1	II
Alkalinity	mmol/l	12	2.5	3.1	3.5	3.3	3.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.024	0.055	0.107	0.045	0.085	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.006	0.011	0.019	0.010	0.017	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.24	2.09	2.88	2.11	2.85	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	< 0.005	0.030	0.060	0.025	0.051	II
Total Phosphorus	mg/l	12	0.04	0.07	0.11	0.06	0.11	II
Total Phosphorus - Dissolved	mg/l	12	0.01	0.04	0.07	0.03	0.06	
Chlorophyll-a	µg/l	12	1.3	7.5	26.4	6.1	11.5	I
Conductivity @ 20°C	µS/cm	12	291	366	432	391	418	
Calcium (Ca ²⁺)	mg/l	12	43.8	54.6	64.0	56.1	63.9	
Sulphate (SO ₄ ²⁻)	mg/l	12	21	27	33	27	32	
Magnesium (Mg ²⁺)	mg/l	12	9.2	11.6	13.7	11.9	13.5	
Potassium (K ⁺)	mg/l	12	1.5	2.3	3.2	2.4	2.7	
Sodium (Na ⁺)	mg/l	12	6.8	10.6	16.2	10.4	15.0	
Manganese (Mn)	mg/l	12	< 0.001	0.023	0.070	0.020	0.039	
Iron (Fe)	mg/l	12	< 0.010	0.373	0.990	0.218	0.914	
Chloride (Cl ⁻)	mg/l	12	13	19	26	19	25	
Zinc (Zn) - Dissolved	µg/l	12	< 1.0	5.0	15.0	4.0	8.0	III
Copper (Cu) - Dissolved	µg/l	12	1.0	2.0	6.0	1.7	2.9	III
Chromium (Cr) - Dissolved	µg/l	12	< 1.0	< 1.0	< 1.0	1.0	1.0	II
Lead (Pb) - Dissolved	µg/l	12	< 1.0	< 1.0	< 1.0	1.0	1.0	II
Cadmium (Cd) - Dissolved	µg/l	12	< 0.13	< 0.13	< 0.13	0.13	0.13	**
Mercury (Hg) - Dissolved	µg/l	12	< 0.100	< 0.100	< 0.100	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l	12	< 1.00	1.60	6.00	1.00	2.00	III
Arsenic (As) - Dissolved	µg/l	12	< 1.0	1.0	1.0	1.0	1.0	II
Aluminium (Al) - Dissolved	µg/l	12	< 2.0	29.5	110.0	21.0	39.8	
Zinc (Zn)	µg/l	12	< 1.0	5.5	15.0	5.0	8.2	II
Copper (Cu)	µg/l	12	1.0	2.4	6.0	2.0	4.4	II
Chromium (Cr) - total	µg/l	12	< 1.0	1.0	1.2	1.0	1.0	II
Lead (Pb)	µg/l	12	< 1.0	1.0	1.1	1.0	1.0	II
Cadmium (Cd)	µg/l	12	< 0.10	0.13	0.30	0.10	0.19	II
Mercury (Hg)	µg/l	12	< 0.1	0.101	0.110	0.100	0.100	II
Nickel (Ni)	µg/l	12	< 1.00	1.76	6.00	1.18	2.14	II
Arsenic (As)	µg/l	12	< 1.0	1.1	2.0	1.0	1.0	II
Aluminium (Al)	µg/l	12	< 2.0	220.1	500.0	162.9	476.0	
Phenol index	mg/l	12	< 0.010	< 0.010	< 0.010	0.010	0.010	
Anionic active surfactants	mg/l	12	< 0.009	0.013	0.026	0.009	0.025	
AOX	µg/l	12	< 2.0	5.3	9.1	5.4	8.7	I
Petroleum hydrocarbons	mg/l	12	< 0.060	< 0.060	< 0.060	0.060	0.060	
Lindane	µg/l	6	< 0.010	< 0.010	< 0.010	0.010	0.010	I
pp DDT	µg/l	6	< 0.010	< 0.010	< 0.010	0.010	0.010	II
Atrazine	µg/l	12	< 0.020	< 0.020	< 0.020	0.020	0.020	I
Chloroform	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Carbon tetrachloride	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Trichloroethylene	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Tetrachloroethylene	µg/l	12	< 0.08	< 0.08	< 0.08	0.08	0.08	II
Macrozoobenthos	sapr.index	2	1.98	2.08	2.17	2.08	2.15	II
Macrozoobenthos	no of taxa	2	12	13	13	13	13	
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	1.300	7.258	39.000	3.300	11.800	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	12	0.080	1.082	3.900	0.820	2.030	
Faecal Streptococci	10 ³ CFU/100 ml	12	0.006	0.104	0.450	0.047	0.313	
Salmonella sp.	in 1 litre	12	0.0	0.0	0.0	0.0	0.0	

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	101700 km ²	A03
Distance from the mouth [km]	1935.0	Altitude	159 m	
Location	Wien-Nussdorf R			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	999.0	2056.6	5419.0	1971.0	3046.4	
Temperature	°C	12	3.5	11.1	19.2	11.3	18.8	
Suspended Solids	mg/l	12	6	24	57	24	36	
Dissolved Oxygen	mg/l	12	8.8	10.9	13.0	11.2	9.1	I
BOD ₅	mg/l	12	< 0.8	1.1	2.0	0.9	1.7	I
COD _{Mn}	mg/l	6	1.8	2.7	3.3	2.9	3.2	I
COD _{Cr}	mg/l	12	< 3.5	7.2	19.0	5.1	13.3	II
TOC	mg/l	12	1.2	2.4	3.9	2.4	3.8	
DOC	mg/l	12	1.1	1.8	2.7	1.7	2.5	
pH		12	8.1	8.2	8.3	8.3	8.3	II
							8.2	II
Alkalinity	mmol/l	12	2.3	3.1	3.7	3.2	3.7	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	< 0.010	0.032	0.059	0.026	0.058	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.005	0.010	0.021	0.009	0.016	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.13	2.04	2.74	2.16	2.71	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	< 0.005	0.028	0.049	0.025	0.047	I
Total Phosphorus	mg/l	12	0.05	0.07	0.13	0.06	0.08	I
Total Phosphorus - Dissolved	mg/l	12	0.01	0.04	0.06	0.03	0.05	
Chlorophyll-a	µg/l	12	2.4	10.2	35.1	6.8	17.9	I
Conductivity @ 20°C	µS/cm	12	279	351	435	366	427	
Calcium (Ca ²⁺)	mg/l	12	40.3	53.8	66.9	56.0	65.2	
Sulphate (SO ₄ ²⁻)	mg/l	12	20	28	40	28	33	
Magnesium (Mg ²⁺)	mg/l	12	9.7	12.0	15.2	11.5	14.6	
Potassium (K ⁺)	mg/l	12	1.3	2.1	2.9	2.2	2.4	
Sodium (Na ⁺)	mg/l	12	5.7	8.9	14.7	7.8	13.9	
Manganese (Mn)	mg/l	12	< 0.001	0.024	0.060	0.020	0.030	
Iron (Fe)	mg/l	12	< 0.010	0.322	0.840	0.291	0.529	
Chloride (Cl ⁻)	mg/l	12	9	16	23	15	22	
Zinc (Zn) - Dissolved	µg/l	12	< 1.0	4.7	10.0	4.7	8.8	III
Copper (Cu) - Dissolved	µg/l	12	< 1.0	2.1	7.0	1.6	3.0	III
Chromium (Cr) - Dissolved	µg/l	12	< 1.0	< 1.0	< 1.0	1.0	1.0	II
Lead (Pb) - Dissolved	µg/l	12	< 1.0	< 1.0	< 1.0	1.0	1.0	II
Cadmium (Cd) - Dissolved	µg/l	12	< 0.13	0.14	0.20	0.13	0.13	**
Mercury (Hg) - Dissolved	µg/l	12	< 0.100	< 0.100	< 0.100	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l	12	< 1.00	1.61	7.00	1.00	1.92	III
Arsenic (As) - Dissolved	µg/l	12	< 1.0	1.0	1.0	1.0	1.0	II
Aluminium (Al) - Dissolved	µg/l	12	< 2.0	23.7	50.0	20.9	39.0	
Zinc (Zn)	µg/l	12	< 1.0	5.6	14.0	5.2	9.2	II
Copper (Cu)	µg/l	12	1.0	2.6	7.0	2.1	4.6	II
Chromium (Cr) - total	µg/l	12	< 1.0	1.0	1.0	1.0	1.0	II
Lead (Pb)	µg/l	12	< 1.0	1.0	1.5	1.0	1.0	II
Cadmium (Cd)	µg/l	12	< 0.10	0.15	0.40	0.10	0.29	II
Mercury (Hg)	µg/l	12	< 0.100	< 0.100	< 0.100	0.100	0.100	II
Nickel (Ni)	µg/l	12	< 1.00	1.75	7.00	1.00	2.45	II
Arsenic (As)	µg/l	12	< 1.0	1.1	2.0	1.0	1.1	II
Aluminium (Al)	µg/l	12	< 2.0	211.2	480.0	206.5	305.0	
Phenol index	mg/l	12	< 0.010	0.010	0.015	0.010	0.010	
Anionic active surfactants	mg/l	12	< 0.009	0.013	0.036	0.009	0.023	
AOX	µg/l	12	< 2.0	6.1	11.2	6.2	8.4	I
Petroleum hydrocarbons	mg/l	12	< 0.060	< 0.060	< 0.060	0.060	0.060	
Lindane	µg/l	6	< 0.010	< 0.010	< 0.010	0.010	0.010	I
pp DDT	µg/l	6	< 0.010	< 0.010	< 0.010	0.010	0.010	II
Atrazine	µg/l	12	< 0.020	< 0.020	< 0.020	0.020	0.020	I
Chloroform	µg/l	12	< 0.10	0.12	0.36	0.10	0.10	II
Carbon tetrachloride	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Trichloroethylene	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Tetrachloroethylene	µg/l	12	< 0.08	< 0.08	< 0.08	0.08	0.08	II
Macrozoobenthos	sapr.index	2	2.07	2.10	2.13	2.10	2.12	II
Macrozoobenthos	no of taxa	2	14	22	29	22	28	
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	0.600	4.100	25.000	2.450	3.470	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	12	0.160	1.036	2.900	0.495	2.270	
Faecal Streptococci	10 ³ CFU/100 ml	12	0.000	0.090	0.390	0.055	0.186	
Salmonella sp.	in 1 litre	12	0.0	0.0	0.0	0.0	0.0	

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	131411 km ²	A04
Distance from the mouth [km]	1874.0	Altitude	140 m	
Location	Wolfsthal R			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	1088.0	2218.2	5465.0	2109.0	3235.0	
Temperature	°C	25	2.0	11.0	20.8	12.1	18.4	
Suspended Solids	mg/l	25	4	25	83	20	47	
Dissolved Oxygen	mg/l	25	8.5	10.8	12.8	10.7	9.3	I
BOD ₅	mg/l	25	< 0.8	1.3	2.5	1.3	2.0	I
COD _{Mn}	mg/l	25	1.1	2.3	4.8	2.5	3.3	I
COD _{Cr}	mg/l	25	< 3.5	6.7	21.0	5.7	11.3	II
TOC	mg/l	25	1.2	2.8	6.1	2.5	4.2	
DOC	mg/l	25	1.2	2.1	3.3	2.2	2.8	
pH		25	8.0	8.2	8.4	8.2	8.3	II
							8.1	II
Alkalinity	mmol/l	25	2.4	3.1	3.7	3.1	3.6	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	25	< 0.010	0.081	0.242	0.072	0.136	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	25	0.008	0.021	0.037	0.019	0.031	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	25	1.15	2.10	3.07	2.25	2.97	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	25	< 0.005	0.029	0.067	0.031	0.043	I
Total Phosphorus	mg/l	25	0.03	0.07	0.16	0.06	0.12	II
Total Phosphorus - Dissolved	mg/l	25	0.01	0.04	0.08	0.04	0.05	
Chlorophyll-a	µg/l	21	1.7	10.2	45.0	6.2	20.6	I
Conductivity @ 20°C	µS/cm	25	271	354	445	363	427	
Calcium (Ca ²⁺)	mg/l	25	39.7	54.0	69.2	55.7	64.7	
Sulphate (SO ₄ ²⁻)	mg/l	25	21	27	35	27	33	
Magnesium (Mg ²⁺)	mg/l	25	8.8	11.9	15.4	11.9	14.5	
Potassium (K ⁺)	mg/l	25	1.3	2.3	3.4	2.4	3.0	
Sodium (Na ⁺)	mg/l	25	5.9	9.1	14.9	7.7	13.7	
Manganese (Mn)	mg/l	25	< 0.001	0.030	0.080	0.024	0.049	
Iron (Fe)	mg/l	25	< 0.010	0.421	1.500	0.330	0.848	
Chloride (Cl ⁻)	mg/l	25	10	16	23	16	22	
Zinc (Zn) - Dissolved	µg/l	25	< 1.0	5.8	22.0	5.0	10.4	III
Copper (Cu) - Dissolved	µg/l	25	1.0	2.5	8.0	2.0	4.0	III
Chromium (Cr) - Dissolved	µg/l	25	< 1.0	< 1.0	< 1.0	1.0	1.0	II
Lead (Pb) - Dissolved	µg/l	25	< 1.0	< 1.0	< 1.0	1.0	1.0	II
Cadmium (Cd) - Dissolved	µg/l	25	< 0.13	< 0.13	< 0.13	0.13	0.13	**
Mercury (Hg) - Dissolved	µg/l	25	< 0.100	< 0.100	< 0.100	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l	25	< 1.00	1.51	8.00	1.00	2.46	III
Arsenic (As) - Dissolved	µg/l	25	< 1.0	1.0	1.3	1.0	1.0	II
Aluminium (Al) - Dissolved	µg/l	25	< 2.0	34.0	95.7	24.9	62.0	
Zinc (Zn)	µg/l	25	2.0	7.0	22.0	6.3	11.3	II
Copper (Cu)	µg/l	25	2.0	3.2	8.0	3.0	5.0	II
Chromium (Cr) - total	µg/l	25	< 1.0	1.1	2.0	1.0	1.2	II
Lead (Pb)	µg/l	25	< 1.0	1.3	2.2	1.0	2.0	II
Cadmium (Cd)	µg/l	25	< 0.10	0.10	0.20	0.10	0.10	II
Mercury (Hg)	µg/l	25	< 0.100	< 0.100	< 0.100	0.100	0.100	II
Nickel (Ni)	µg/l	25	< 1.00	2.04	10.00	1.68	2.85	II
Arsenic (As)	µg/l	25	< 1.0	1.1	2.0	1.0	1.2	II
Aluminium (Al)	µg/l	25	< 2.0	281.5	715.4	222.8	606.5	
Phenol index	mg/l	25	< 0.010	< 0.010	< 0.010	0.010	0.010	
Anionic active surfactants	mg/l	25	< 0.009	0.012	0.032	0.009	0.021	
AOX	µg/l	25	< 2.0	5.7	10.2	5.9	8.9	I
Petroleum hydrocarbons	mg/l	25	< 0.060	< 0.060	< 0.060	0.060	0.060	
Lindane	µg/l	7	< 0.010	< 0.010	< 0.010	0.010	0.010	I
pp DDT	µg/l	7	< 0.010	< 0.010	< 0.010	0.010	0.010	II
Atrazine	µg/l	25	< 0.020	< 0.020	< 0.020	0.020	0.020	I
Chloroform	µg/l	16	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Carbon tetrachloride	µg/l	16	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Trichloroethylene	µg/l	16	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Tetrachloroethylene	µg/l	16	< 0.08	< 0.08	< 0.08	0.08	0.08	II
Macrozoobenthos	sapr.index	3	1.97	2.01	2.03	2.03	2.03	II
Macrozoobenthos	no of taxa	3	8	9	10	8	10	
Total Coliforms (37°C)	10 ³ CFU/100 ml	24	1.000	23.196	210.000	12.000	33.200	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	24	0.300	3.785	23.000	2.350	5.710	
Faecal Streptococci	10 ³ CFU/100 ml	24	0.001	0.328	1.200	0.245	0.761	
Salmonella sp.	in 1 litre	23	0.0	0.2	1.0	0.0	1.0	

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	/Morava	Catchment	9725	km ²	CZ01
Distance from the mouth [km]	79.0	Altitude	150	m	
Location	Lanzhot R				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	20.4	67.2	370.0	47.4	124.6	
Temperature	°C	12	0.4	10.7	22.6	10.2	21.8	
Suspended Solids	mg/l	12	5	21	84	13	32	
Dissolved Oxygen	mg/l	12	8.4	11.5	14.6	11.3	8.9	I
BOD ₅	mg/l	12	1.6	3.7	7.4	3.2	6.3	III
COD _{Mn}	mg/l	12	4.0	6.3	10.0	6.0	8.3	II
COD _{Cr}	mg/l	12	6.5	14.1	34.9	12.2	20.9	II
TOC	mg/l	12	3.5	5.5	8.3	5.5	7.1	
DOC	mg/l	12	2.3	4.3	5.8	4.4	5.5	
pH		12	7.8	8.1	8.6	8.0	8.4	II
							7.9	II
Alkalinity	mmol/l	12	1.9	2.6	3.1	2.6	3.0	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	< 0.030	0.203	0.455	0.175	0.434	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.019	0.041	0.062	0.040	0.055	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.76	2.92	4.07	2.87	3.73	III
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l	12	0.56	0.87	1.56	0.78	1.14	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.045	0.131	0.205	0.120	0.183	III
Total Phosphorus	mg/l	12	0.15	0.22	0.39	0.21	0.27	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	12	< 2.5	24.6	100.0	7.3	64.2	III
Conductivity @ 20°C	µS/cm	12	348	493	570	514	557	
Calcium (Ca ²⁺)	mg/l	12	31.3	53.0	72.3	53.3	66.5	
Sulphate (SO ₄ ²⁻)	mg/l	12	52	70	82	72	80	
Magnesium (Mg ²⁺)	mg/l	12	6.3	9.7	13.0	9.8	12.5	
Potassium (K ⁺)	mg/l	12	3.1	4.7	5.8	5.0	5.5	
Sodium (Na ⁺)	mg/l	12	11.3	19.3	23.6	19.9	23.2	
Manganese (Mn)	mg/l	12	0.026	0.072	0.160	0.062	0.099	
Iron (Fe)	mg/l	12	0.071	0.332	1.299	0.242	0.449	
Chloride (Cl ⁻)	mg/l	12	13	25	32	25	29	
Zinc (Zn) - Dissolved	µg/l	12	< 5.0	6.5	17.6	5.0	8.2	III
Copper (Cu) - Dissolved	µg/l	12	1.3	2.0	2.7	2.0	2.6	III
Chromium (Cr) - Dissolved	µg/l	12	< 1.0	< 1.0	< 1.0	1.0	1.0	II
Lead (Pb) - Dissolved	µg/l	12	< 1.0	1.2	2.5	1.0	1.3	III
Cadmium (Cd) - Dissolved	µg/l	12	< 0.10	0.15	0.34	0.10	0.30	III
Mercury (Hg) - Dissolved	µg/l	12	< 0.100	0.128	0.300	0.100	0.192	III
Nickel (Ni) - Dissolved	µg/l	12	1.00	2.43	4.82	1.99	4.07	III
Arsenic (As) - Dissolved	µg/l	12	< 1.0	1.0	1.1	1.0	1.0	II
Aluminium (Al) - Dissolved	µg/l	12	6.7	52.2	273.0	23.8	79.4	
Zinc (Zn)	µg/l	12	< 5.0	8.5	21.2	5.1	16.9	II
Copper (Cu)	µg/l	12	1.5	2.1	4.0	1.9	2.9	II
Chromium (Cr) - total	µg/l	12	< 1.0	< 1.0	< 1.0	1.0	1.0	II
Lead (Pb)	µg/l	12	< 1.0	1.6	3.3	1.2	3.1	II
Cadmium (Cd)	µg/l	12	< 0.10	0.18	0.38	0.17	0.24	II
Mercury (Hg)	µg/l	12	< 0.100	0.128	0.260	0.100	0.169	III
Nickel (Ni)	µg/l	12	1.11	3.01	11.00	2.53	3.13	II
Arsenic (As)	µg/l	12	< 1.0	1.1	1.4	1.0	1.2	II
Aluminium (Al)	µg/l	12	47.9	138.2	300.0	117.0	237.0	
Phenol index	mg/l	12	< 0.001	0.002	0.005	0.002	0.004	
Anionic active surfactants	mg/l	12	< 0.050	0.052	0.069	0.050	0.050	
AOX	µg/l	12	8.7	19.9	32.8	20.3	29.7	II
Petroleum hydrocarbons	mg/l	12	< 0.03	< 0.03	< 0.03	0.030	0.030	
Lindane	µg/l	12	< 0.002	0.003	0.010	0.002	0.008	I
pp'DDT	µg/l	12	< 0.002	0.006	0.019	0.003	0.014	III
Atrazine	µg/l	12	< 0.100	0.102	0.122	0.100	0.100	II
Chloroform	µg/l	12	< 0.03	0.05	0.10	0.03	0.10	II
Carbon tetrachloride	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Trichloroethylene	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Tetrachloroethylene	µg/l	12	< 0.10	0.10	0.10	0.10	0.10	II
Macrozoobenthos	sapr.index	2	1.86	2.06	2.26	2.06	2.22	II
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	2.200	7.067	14.000	7.000	11.760	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	12	0.800	3.208	8.800	2.200	6.580	
Faecal Streptococci	10 ³ CFU/100 ml	12	0.200	1.608	5.200	1.000	4.330	
Salmonella sp.	in 1 litre	12	0.0	0.0	0.0	0.0	0.0	

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	/Morava/Dyje	Catchment	12540	km ²	CZ02
Distance from the mouth [km]	17.0	Altitude	155	m	
Location	Pohansko R				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	9.8	32.1	117.1	27.8	55.3	
Temperature	°C	12	0.6	11.0	22.3	11.3	21.0	
Suspended Solids	mg/l	12	6	17	35	12	32	
Dissolved Oxygen	mg/l	12	7.3	11.0	15.7	10.4	8.0	I
BOD ₅	mg/l	12	2.9	3.9	6.9	3.5	4.8	II
COD _{Mn}	mg/l	12	7.2	8.8	10.6	8.8	9.8	II
COD _{Cr}	mg/l	12	17.6	21.2	26.9	20.8	24.8	II
TOC	mg/l	12	6.0	8.1	9.5	8.3	9.1	
DOC	mg/l	12	3.3	7.3	9.0	7.8	8.7	
pH		12	7.9	8.1	8.7	8.1	8.4	II
							7.9	II
Alkalinity	mmol/l	12	2.3	2.7	3.1	2.7	3.0	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.074	0.225	0.632	0.153	0.344	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.033	0.047	0.067	0.047	0.062	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.25	3.28	6.05	3.09	4.95	III
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l	12	1.00	1.18	1.46	1.14	1.37	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.061	0.218	0.435	0.184	0.411	IV
Total Phosphorus	mg/l	12	0.20	0.27	0.50	0.23	0.35	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	12	< 2.5	24.3	83.0	21.2	29.6	II
Conductivity @ 20°C	µS/cm	12	581	645	801	629	753	
Calcium (Ca ²⁺)	mg/l	12	35.6	52.6	81.7	51.1	59.1	
Sulphate (SO ₄ ²⁻)	mg/l	12	94	110	142	104	131	
Magnesium (Mg ²⁺)	mg/l	12	13.7	19.2	26.5	18.1	25.1	
Potassium (K ⁺)	mg/l	12	7.9	9.9	12.3	9.9	11.9	
Sodium (Na ⁺)	mg/l	12	24.9	30.1	35.9	30.1	34.6	
Manganese (Mn)	mg/l	12	0.072	0.116	0.251	0.098	0.185	
Iron (Fe)	mg/l	12	0.076	0.191	0.327	0.193	0.289	
Chloride (Cl ⁻)	mg/l	12	38	44	56	43	51	
Zinc (Zn) - Dissolved	µg/l	12	< 5.0	6.4	13.5	5.0	8.1	III
Copper (Cu) - Dissolved	µg/l	12	1.7	2.7	4.0	2.7	3.6	III
Chromium (Cr) - Dissolved	µg/l	12	< 1.0	< 1.0	< 1.0	1.0	1.0	II
Lead (Pb) - Dissolved	µg/l	12	< 1.0	1.2	2.2	1.0	2.0	III
Cadmium (Cd) - Dissolved	µg/l	12	< 0.10	0.14	0.29	0.13	0.26	III
Mercury (Hg) - Dissolved	µg/l	12	< 0.100	0.137	0.250	0.105	0.234	III
Nickel (Ni) - Dissolved	µg/l	12	2.10	3.80	5.68	3.43	5.35	III
Arsenic (As) - Dissolved	µg/l	12	< 1.0	1.6	2.7	1.1	2.6	III
Aluminium (Al) - Dissolved	µg/l	12	< 5.0	33.3	177.0	19.4	43.2	
Zinc (Zn)	µg/l	12	< 5.0	7.3	17.7	5.3	10.3	II
Copper (Cu)	µg/l	12	1.4	3.0	4.5	3.2	4.4	II
Chromium (Cr) - total	µg/l	12	< 1.0	1.0	1.1	1.0	1.0	II
Lead (Pb)	µg/l	12	< 1.0	1.4	2.7	1.0	2.5	II
Cadmium (Cd)	µg/l	12	< 0.10	0.18	0.37	0.16	0.27	II
Mercury (Hg)	µg/l	12	< 0.100	0.113	0.150	0.105	0.140	III
Nickel (Ni)	µg/l	12	2.35	3.56	6.57	3.01	5.79	II
Arsenic (As)	µg/l	12	< 1.0	1.7	3.3	1.1	3.0	II
Aluminium (Al)	µg/l	12	49.7	132.5	297.0	95.5	260.7	
Phenol index	mg/l	12	< 0.001	0.003	0.009	0.002	0.006	
Anionic active surfactants	mg/l	12	< 0.050	0.061	0.135	0.050	0.073	
AOX	µg/l	12	17.5	24.3	36.0	24.5	30.3	II
Petroleum hydrocarbons	mg/l	12	< 0.030	< 0.030	< 0.030	0.030	0.030	
Lindane	µg/l	12	< 0.002	0.003	0.008	0.002	0.007	I
pp'DDT	µg/l	12	< 0.002	0.006	0.015	0.004	0.013	III
Atrazine	µg/l	12	< 0.100	0.100	0.100	0.100	0.100	II
Chloroform	µg/l	12	< 0.03	3.16	37.50	0.03	0.09	II
Carbon tetrachloride	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Trichloroethylene	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Tetrachloroethylene	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Macrozoobenthos	sapr.index	2	2.07	2.19	2.30	2.19	2.28	II
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	2.400	9.200	21.000	7.700	17.600	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	12	0.600	4.050	11.000	2.500	9.920	
Faecal Streptococci	10 ³ CFU/100 ml	12	0.200	2.600	9.400	1.200	6.580	
Salmonella sp.	in 1 litre	12	0.0	0.0	0.0	0.0	0.0	

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	131329 km ²	SK01
Distance from the mouth [km]	1869.0	Altitude	128 m	
Location	Bratislava M			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	1036.0	2231.3	5497.0	2145.0	3250.4	
Temperature	°C	25	2.0	11.0	20.6	12.0	18.6	
Suspended Solids	mg/l	25	5	27	146	21	52	
Dissolved Oxygen	mg/l	25	8.2	10.6	12.3	10.8	9.2	I
BOD ₅	mg/l	24	1.5	2.0	3.3	2.0	2.7	I
COD _{Mn}	mg/l	25	2.7	4.2	7.8	3.9	5.9	II
COD _{Cr}	mg/l	25	8.1	11.7	20.2	10.7	16.2	II
TOC	mg/l	25	1.6	2.7	3.8	2.6	3.3	
DOC	mg/l							
pH		25	7.8	8.2	8.5	8.2	8.4	II
							8.1	II
Alkalinity	mmol/l	25	2.6	3.1	3.8	3.1	3.7	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	25	0.050	0.127	0.288	0.105	0.206	II
Nitrite-N (NO ₂ ⁻ -N)	mg/l	25	0.008	0.019	0.039	0.017	0.030	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	25	1.04	2.17	3.61	2.17	3.28	III
Total Nitrogen	mg/l	25	1.55	2.63	4.08	2.44	3.77	II
Organic Nitrogen	mg/l	25	0.10	0.31	0.72	0.27	0.59	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	25	< 0.016	0.042	0.070	0.041	0.063	II
Total Phosphorus	mg/l	25	0.07	0.10	0.20	0.09	0.12	II
Total Phosphorus - Dissolved	mg/l	12	< 0.05	0.07	0.10	0.06	0.08	
Chlorophyll-a	µg/l	25	2.1	15.0	73.4	7.3	29.6	II
Conductivity @ 20°C	µS/cm	25	298	379	508	389	462	
Calcium (Ca ²⁺)	mg/l	25	43.1	57.5	71.1	58.1	68.7	
Sulphate (SO ₄ ²⁻)	mg/l	25	18	29	39	28	37	
Magnesium (Mg ²⁺)	mg/l	25	9.1	12.8	17.0	12.8	16.2	
Potassium (K ⁺)	mg/l	25	2.1	2.8	3.6	2.7	3.3	
Sodium (Na ⁺)	mg/l	25	6.8	10.4	15.5	10.0	14.5	
Manganese (Mn)	mg/l	25	< 0.050	0.086	0.280	0.050	0.196	
Iron (Fe)	mg/l	25	0.120	0.343	1.190	0.320	0.580	
Chloride (Cl ⁻)	mg/l	25	11	17	28	16	24	
Zinc (Zn) - Dissolved	µg/l	12	< 20.0	20.0	20.0	20.0	20.0	**
Copper (Cu) - Dissolved	µg/l	12	0.6	1.5	3.7	1.4	2.0	II
Chromium (Cr) - Dissolved	µg/l	12	< 0.2	0.3	0.6	0.2	0.5	II
Lead (Pb) - Dissolved	µg/l	12	< 1.0	< 1.0	< 1.0	1.0	1.0	II
Cadmium (Cd) - Dissolved	µg/l	12	< 0.05	< 0.05	< 0.05	0.05	0.05	II
Mercury (Hg) - Dissolved	µg/l	12	< 0.100	0.102	0.120	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l	12	< 1.00	1.03	1.20	1.00	1.09	III
Arsenic (As) - Dissolved	µg/l	12	< 1.0	1.0	1.1	1.0	1.0	II
Aluminium (Al) - Dissolved	µg/l	12	18.7	174.4	453.0	152.5	330.5	
Zinc (Zn)	µg/l	12	< 20.0	20.0	20.0	20.0	20.0	II
Copper (Cu)	µg/l	12	1.6	2.4	4.6	2.1	3.7	II
Chromium (Cr) - total	µg/l	12	< 0.2	0.5	1.2	0.4	1.1	II
Lead (Pb)	µg/l	12	< 1.0	< 1.0	< 1.0	1.0	1.0	II
Cadmium (Cd)	µg/l	12	< 0.05	< 0.05	< 0.05	0.05	0.05	II
Mercury (Hg)	µg/l	12	< 0.1	0.122	0.360	0.100	0.100	II
Nickel (Ni)	µg/l	12	< 1.00	1.62	2.60	1.55	2.47	II
Arsenic (As)	µg/l	12	< 1.0	1.1	1.3	1.0	1.2	II
Aluminium (Al)	µg/l	12	212.0	790.5	3400.0	500.0	1295.7	
Phenol index	mg/l	25	< 0.002	0.003	0.008	0.003	0.005	
Anionic active surfactants	mg/l	25	< 0.010	0.027	0.070	0.017	0.058	
AOX	µg/l	1	24.8	24.8	24.8	24.8	24.8	II
Petroleum hydrocarbons	mg/l	25	0.010	0.044	0.500	0.020	0.056	
Lindane	µg/l	4	< 0.005	< 0.005	< 0.005	0.005	0.005	I
pp'DDT	µg/l	4	< 0.010	< 0.010	< 0.010	0.010	0.010	II
Atrazine	µg/l	3	< 0.050	< 0.050	< 0.050	0.050	0.050	II
Chloroform	µg/l	4	< 0.5	0.60	0.90	0.50	0.78	III
Carbon tetrachloride	µg/l	4	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Trichloroethylene	µg/l	4	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Tetrachloroethylene	µg/l	4	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Macrozoobenthos	sapr.index	3	2.12	2.16	2.20	2.17	2.19	II
Macrozoobenthos	no of taxa	1	17	17	17	17	17	
Total Coliforms (37°C)	10 ³ CFU/100 ml	25	2.000	9.524	32.000	7.000	21.600	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	25	0.300	1.884	4.100	1.900	3.100	
Faecal Streptococci	10 ³ CFU/100 ml	25	0.100	0.756	3.300	0.500	1.260	
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	132168 km ²	SK02
Distance from the mouth [km]	1806.0	Altitude	108 m	
Location	Medvedov/Medve M			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	1021.0	2160.3	4975.0	2106.0	3177.8	
Temperature	°C	12	3.9	11.6	21.3	11.7	20.9	
Suspended Solids	mg/l	12	6	17	30	21	26	
Dissolved Oxygen	mg/l	12	8.9	10.7	12.5	10.8	9.0	I
BOD ₅	mg/l	12	1.2	1.9	3.2	1.8	2.4	I
COD _{Mn}	mg/l	12	3.0	3.9	5.5	3.8	5.1	II
COD _{Cr}	mg/l	12	7.7	11.5	17.9	11.3	14.3	II
TOC	mg/l	12	1.9	2.7	3.4	2.8	3.2	
DOC	mg/l							
pH		12	8.1	8.2	8.6	8.2	8.3	II
							8.1	II
Alkalinity	mmol/l	12	2.5	3.1	3.8	3.1	3.7	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.040	0.093	0.200	0.089	0.123	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.006	0.017	0.041	0.018	0.026	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.97	2.04	3.22	1.95	3.05	III
Total Nitrogen	mg/l	12	1.55	2.54	4.15	2.26	3.53	II
Organic Nitrogen	mg/l	12	< 0.10	0.39	0.76	0.39	0.62	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	< 0.016	0.035	0.055	0.031	0.055	II
Total Phosphorus	mg/l	12	0.06	0.08	0.10	0.08	0.10	II
Total Phosphorus - Dissolved	mg/l	12	< 0.05	0.06	0.08	0.05	0.08	
Chlorophyll-a	µg/l	12	3.0	19.5	96.4	12.1	32.0	II
Conductivity @ 20°C	µS/cm	12	284	386	496	405	465	
Calcium (Ca ²⁺)	mg/l	12	41.1	57.1	71.1	56.6	67.2	
Sulphate (SO ₄ ²⁻)	mg/l	12	22	28	37	26	35	
Magnesium (Mg ²⁺)	mg/l	12	9.7	12.8	16.4	11.9	15.9	
Potassium (K ⁺)	mg/l	12	2.1	2.6	3.2	2.5	3.2	
Sodium (Na ⁺)	mg/l	12	7.6	9.9	15.3	9.1	13.6	
Manganese (Mn)	mg/l	12	< 0.050	0.106	0.450	0.060	0.130	
Iron (Fe)	mg/l	12	0.090	0.211	0.380	0.210	0.285	
Chloride (Cl ⁻)	mg/l	12	12	16	27	15	22	
Zinc (Zn) - Dissolved	µg/l	12	< 20.0	20.0	20.0	20.0	20.0	**
Copper (Cu) - Dissolved	µg/l	12	0.8	1.5	2.6	1.4	2.2	III
Chromium (Cr) - Dissolved	µg/l	12	< 0.20	0.3	0.4	0.2	0.4	II
Lead (Pb) - Dissolved	µg/l	12	< 1.0	< 1.0	< 1.0	1.0	1.0	II
Cadmium (Cd) - Dissolved	µg/l	12	< 0.05	< 0.05	< 0.05	0.05	0.05	II
Mercury (Hg) - Dissolved	µg/l	12	< 0.100	< 0.100	< 0.100	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l	12	< 1.00	1.07	1.30	1.00	1.29	III
Arsenic (As) - Dissolved	µg/l	12	< 1.0	< 1.0	< 1.0	1.0	1.0	II
Aluminium (Al) - Dissolved	µg/l	12	7.1	156.5	320.0	155.5	291.0	
Zinc (Zn)	µg/l	12	< 20.0	< 20.0	< 20.0	20.0	20.0	II
Copper (Cu)	µg/l	12	1.5	2.0	2.8	1.9	2.6	II
Chromium (Cr) - total	µg/l	12	< 0.2	0.4	0.7	0.3	0.6	II
Lead (Pb)	µg/l	12	< 1.0	< 1.0	< 1.0	1.0	1.0	II
Cadmium (Cd)	µg/l	12	< 0.05	< 0.05	< 0.05	0.05	0.05	II
Mercury (Hg)	µg/l	12	< 0.100	0.105	0.160	0.100	0.100	II
Nickel (Ni)	µg/l	12	< 1.00	1.48	3.40	1.20	1.99	II
Arsenic (As)	µg/l	12	< 1.0	1.1	2.0	1.0	1.2	II
Aluminium (Al)	µg/l	12	278.0	801.3	1910.0	735.0	1215.3	
Phenol index	mg/l	12	< 0.002	0.004	0.007	0.004	0.006	
Anionic active surfactants	mg/l	12	< 0.010	0.026	0.072	0.010	0.067	
AOX	µg/l	1	35.7	35.7	35.7	35.7	35.7	II
Petroleum hydrocarbons	mg/l	12	0.010	0.025	0.080	0.020	0.039	
Lindane	µg/l	4	< 0.005	< 0.005	< 0.005	0.005	0.005	I
pp'DDT	µg/l	4	< 0.010	< 0.010	< 0.010	0.010	0.010	II
Atrazine	µg/l	3	< 0.050	< 0.050	< 0.050	0.050	0.050	II
Chloroform	µg/l	4	< 0.5	8.65	31.10	1.50	22.52	V
Carbon tetrachloride	µg/l	4	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Trichloroethylene	µg/l	4	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Tetrachloroethylene	µg/l	4	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Macrozoobenthos	sapr.index	3	2.04	2.11	2.21	2.08	2.18	II
Macrozoobenthos	no of taxa	1	16	16	16	16	16	
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	0.900	3.250	11.000	1.950	7.500	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	12	0.100	0.600	1.400	0.500	1.090	
Faecal Streptococci	10 ³ CFU/100 ml	12	0.000	0.258	0.900	0.150	0.850	
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	151961	km ²	SK03
Distance from the mouth [km]	1768.0	Altitude	103	m	
Location	Komarom/Komarom M				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	1080.0	2203.5	5184.0	2097.0	3211.6	
Temperature	°C	12	3.1	11.9	21.9	12.1	21.3	
Suspended Solids	mg/l	12	6	17	33	18	23	
Dissolved Oxygen	mg/l	12	8.7	10.6	12.5	10.7	9.0	I
BOD ₅	mg/l	12	1.5	2.0	3.3	1.9	2.4	I
COD _{Mn}	mg/l	12	3.0	3.8	5.4	3.5	5.1	II
COD _{Cr}	mg/l	12	8.2	11.6	17.9	11.1	15.1	II
TOC	mg/l	12	2.0	2.9	3.8	3.0	3.7	
DOC	mg/l							
pH		12	8.1	8.3	8.7	8.2	8.5	II
							8.1	II
Alkalinity	mmol/l	12	2.4	3.1	3.7	3.1	3.7	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.050	0.096	0.200	0.089	0.119	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.003	0.017	0.037	0.018	0.028	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.75	2.02	3.30	1.91	3.00	III
Total Nitrogen	mg/l	12	1.40	2.57	3.98	2.44	3.65	II
Organic Nitrogen	mg/l	12	0.15	0.44	0.59	0.49	0.58	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	< 0.016	0.037	0.060	0.040	0.056	II
Total Phosphorus	mg/l	12	< 0.05	0.09	0.12	0.08	0.11	II
Total Phosphorus - Dissolved	mg/l	12	< 0.05	0.06	0.09	0.05	0.09	
Chlorophyll-a	µg/l	12	2.8	21.0	108.2	11.4	29.3	II
Conductivity @ 20°C	µS/cm	12	283	395	506	418	474	
Calcium (Ca ²⁺)	mg/l	12	41.1	56.8	70.3	57.1	67.1	
Sulphate (SO ₄ ²⁻)	mg/l	12	23	31	40	28	39	
Magnesium (Mg ²⁺)	mg/l	12	9.5	13.6	18.7	12.8	17.0	
Potassium (K ⁺)	mg/l	12	2.1	2.7	3.5	2.7	3.2	
Sodium (Na ⁺)	mg/l	12	7.4	10.4	14.8	10.1	14.3	
Manganese (Mn)	mg/l	12	< 0.050	0.128	0.610	0.050	0.215	
Iron (Fe)	mg/l	12	0.120	0.215	0.310	0.220	0.289	
Chloride (Cl ⁻)	mg/l	12	12	17	26	16	24	
Zinc (Zn) - Dissolved	µg/l	12	< 20.0	20.0	20.0	20.0	20.0	**
Copper (Cu) - Dissolved	µg/l	12	1.1	1.5	2.0	1.5	1.8	II
Chromium (Cr) - Dissolved	µg/l	12	< 0.2	0.2	0.5	0.2	0.4	II
Lead (Pb) - Dissolved	µg/l	12	< 1.0	< 1.0	< 1.0	1.0	1.0	II
Cadmium (Cd) - Dissolved	µg/l	12	< 0.05	< 0.05	< 0.05	0.05	0.05	II
Mercury (Hg) - Dissolved	µg/l	12	< 0.100	< 0.100	< 0.100	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l	12	< 1.00	1.12	2.00	1.00	1.28	III
Arsenic (As) - Dissolved	µg/l	12	< 1.0	1.0	1.1	1.0	1.0	II
Aluminium (Al) - Dissolved	µg/l	12	14.0	125.4	350.0	135.0	183.7	
Zinc (Zn)	µg/l	12	< 20.0	20.1	21.0	20.0	20.0	II
Copper (Cu)	µg/l	12	1.6	2.1	2.9	2.1	2.6	II
Chromium (Cr) - total	µg/l	12	< 0.2	0.4	1.0	0.2	0.9	II
Lead (Pb)	µg/l	12	< 1.0	< 1.0	< 1.0	1.0	1.0	II
Cadmium (Cd)	µg/l	12	< 0.05	< 0.05	< 0.05	0.05	0.05	II
Mercury (Hg)	µg/l	12	< 0.100	< 0.100	< 0.100	0.100	0.100	II
Nickel (Ni)	µg/l	12	< 1.00	1.54	3.70	1.00	3.41	II
Arsenic (As)	µg/l	12	< 1.0	1.1	1.8	1.0	1.2	II
Aluminium (Al)	µg/l	12	< 162	692.3	1475.0	640.0	1237.5	
Phenol index	mg/l	12	< 0.002	0.004	0.007	0.005	0.006	
Anionic active surfactants	mg/l	12	< 0.01	0.029	0.078	0.010	0.076	
AOX	µg/l	1	16.4	16.4	16.4	16.4	16.4	II
Petroleum hydrocarbons	mg/l	12	0.010	0.022	0.050	0.020	0.039	
Lindane	µg/l	4	< 0.005	< 0.005	< 0.005	0.005	0.005	I
pp'DDT	µg/l	4	< 0.010	< 0.010	< 0.010	0.010	0.010	II
Atrazine	µg/l	3	< 0.050	0.050	0.050	0.050	0.050	II
Chloroform	µg/l	4	< 0.5	1.93	6.20	0.50	4.49	V
Carbon tetrachloride	µg/l	4	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Trichloroethylene	µg/l	4	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Tetrachloroethylene	µg/l	4	< 0.10	0.20	0.50	0.10	0.38	II
Macrozoobenthos	sapr.index	3	1.97	2.00	2.05	1.98	2.04	II
Macrozoobenthos	no of taxa	1	21	21	21	21	21	
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	1.100	19.883	50.000	21.000	28.900	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	12	0.500	2.767	7.000	2.550	4.870	
Faecal Streptococci	10 ³ CFU/100 ml	12	0.100	0.592	1.500	0.500	1.480	
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	/Vah	Catchment	19661	km ²	SK04
Distance from the mouth [km]	1.0	Altitude	106	m	
Location	Komarno M				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	12	1.1	11.9	23.2	11.7	22.0	
Suspended Solids	mg/l	12	6	15	27	13	23	
Dissolved Oxygen	mg/l	12	6.8	10.0	12.2	10.7	7.4	I
BOD ₅	mg/l	12	1.8	2.9	4.7	3.0	3.6	II
COD _{Mn}	mg/l	12	3.3	4.7	7.3	4.2	6.5	II
COD _{Cr}	mg/l	12	10.0	13.9	21.4	13.1	19.2	II
TOC	mg/l	12	2.2	3.3	4.2	3.3	4.1	
DOC	mg/l							
pH		12	7.8	8.1	8.3	8.1	8.2	II
							7.8	II
Alkalinity	mmol/l	12	2.7	3.2	3.7	3.3	3.6	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.070	0.264	0.545	0.275	0.509	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.005	0.024	0.047	0.023	0.043	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.63	1.73	2.80	1.84	2.36	II
Total Nitrogen	mg/l	12	1.82	2.69	3.85	2.56	3.69	II
Organic Nitrogen	mg/l	12	0.31	0.67	1.12	0.65	1.00	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	< 0.016	0.087	0.161	0.095	0.150	III
Total Phosphorus	mg/l	12	0.09	0.17	0.25	0.17	0.23	III
Total Phosphorus - Dissolved	mg/l	12	0.06	0.12	0.18	0.11	0.18	
Chlorophyll-a	µg/l	12	1.7	18.1	88.8	13.6	28.6	II
Conductivity @ 20°C	µS/cm	12	316	425	542	435	510	
Calcium (Ca ²⁺)	mg/l	12	46.1	60.6	76.2	60.6	68.7	
Sulphate (SO ₄ ²⁻)	mg/l	12	31	40	47	41	46	
Magnesium (Mg ²⁺)	mg/l	12	9.7	13.2	16.8	13.2	15.2	
Potassium (K ⁺)	mg/l	12	2.7	3.5	3.9	3.6	3.8	
Sodium (Na ⁺)	mg/l	12	8.9	14.1	21.1	12.9	20.2	
Manganese (Mn)	mg/l	12	< 0.050	0.117	0.330	0.060	0.239	
Iron (Fe)	mg/l	12	0.110	0.215	0.310	0.215	0.288	
Chloride (Cl ⁻)	mg/l	12	10	19	28	18	25	
Zinc (Zn) - Dissolved	µg/l	12	< 20.0	< 20.0	< 20.0	20.0	20.0	**
Copper (Cu) - Dissolved	µg/l	12	0.7	1.2	1.7	1.1	1.6	II
Chromium (Cr) - Dissolved	µg/l	12	< 0.2	0.2	0.4	0.2	0.3	II
Lead (Pb) - Dissolved	µg/l	12	< 1.0	< 1.0	< 1.0	1.0	1.0	II
Cadmium (Cd) - Dissolved	µg/l	12	< 0.05	< 0.05	< 0.05	0.05	0.05	II
Mercury (Hg) - Dissolved	µg/l	12	< 0.100	< 0.100	< 0.100	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l	12	< 1.00	1.11	1.60	1.00	1.20	III
Arsenic (As) - Dissolved	µg/l	12	1.4	2.7	4.5	2.5	3.9	III
Aluminium (Al) - Dissolved	µg/l	12	6.9	111.3	380.0	75.0	197.5	
Zinc (Zn)	µg/l	12	< 20.0	20.0	20.0	20.0	20.0	II
Copper (Cu)	µg/l	12	1.1	2.0	3.1	1.9	2.7	II
Chromium (Cr) - total	µg/l	12	< 0.2	0.4	0.8	0.4	0.7	II
Lead (Pb)	µg/l	12	< 1.0	1.0	1.1	1.0	1.0	II
Cadmium (Cd)	µg/l	12	< 0.05	< 0.05	< 0.05	0.05	0.05	II
Mercury (Hg)	µg/l	12	< 0.100	0.102	0.118	0.100	0.100	II
Nickel (Ni)	µg/l	12	< 1.00	1.63	4.00	1.10	2.89	II
Arsenic (As)	µg/l	12	1.6	3.0	4.7	2.9	4.1	II
Aluminium (Al)	µg/l	12	171.0	475.3	1300.0	390.0	745.5	
Phenol index	mg/l	12	< 0.002	0.004	0.006	0.003	0.006	
Anionic active surfactants	mg/l	12	< 0.010	0.038	0.129	0.022	0.080	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	0.020	0.038	0.110	0.025	0.085	
Lindane	µg/l	4	< 0.005	< 0.005	< 0.005	0.005	0.005	I
pp'DDT	µg/l	4	< 0.010	< 0.010	< 0.010	0.010	0.010	II
Atrazine	µg/l	3	< 0.050	0.083	0.140	0.060	0.124	III
Chloroform	µg/l	4	< 0.50	< 0.50	< 0.50	0.50	0.50	II
Carbon tetrachloride	µg/l	4	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Trichloroethylene	µg/l	4	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Tetrachloroethylene	µg/l	4	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Macrozoobenthos	sapr.index	3	2.17	2.30	2.41	2.33	2.39	III
Macrozoobenthos	no of taxa	1	35	35	35	35	35	
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	3.000	161.917	350.000	160.000	284.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	12	0.600	21.217	33.000	23.000	31.500	
Faecal Streptococci	10 ³ CFU/100 ml	12	0.200	3.675	9.600	3.150	6.500	
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	131605 km ²	H01
Distance from the mouth [km]	1806.0	Altitude	108 m	
Location	Medve/Medvedov M			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	1020.0	2146.0	4950.0	2080.0	3158.0	
Temperature	°C	26	1.0	11.1	21.0	11.8	18.5	
Suspended Solids	mg/l	16	10	28	42	28	41	
Dissolved Oxygen	mg/l	26	6.7	9.6	11.8	9.4	8.2	I
BOD ₅	mg/l	26	1.1	1.8	2.7	1.9	2.2	I
COD _{Mn}	mg/l	26	2.2	3.2	4.6	3.0	4.3	I
COD _{Cr}	mg/l	26	6.0	9.8	14.0	10.0	12.5	II
TOC	mg/l	19	3.2	4.5	6.9	4.2	5.5	
DOC	mg/l							
pH		26	7.7	8.1	8.7	8.1	8.5	II
							7.9	II
Alkalinity	mmol/l	12	2.1	3.2	4.1	3.4	3.6	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	< 0.020	0.059	0.160	0.050	0.115	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	26	< 0.010	0.021	0.049	0.019	0.032	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	< 0.50	1.94	3.20	1.72	3.06	III
Total Nitrogen	mg/l	26	0.71	3.59	6.31	3.56	5.46	III
Organic Nitrogen	mg/l	26	< 0.10	1.59	2.99	1.49	2.56	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	< 0.02	0.041	0.072	0.038	0.070	II
Total Phosphorus	mg/l	26	0.05	0.11	0.16	0.10	0.15	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	26	1.2	14.2	84.1	7.1	32.0	II
Conductivity @ 20°C	µS/cm	26	296	377	560	376	440	
Calcium (Ca ²⁺)	mg/l	12	46.0	55.7	70.0	56.0	67.2	
Sulphate (SO ₄ ²⁻)	mg/l	12	33	39	44	39	43	
Magnesium (Mg ²⁺)	mg/l	12	7.3	14.8	24.3	14.0	24.2	
Potassium (K ⁺)	mg/l	12	1.8	2.4	3.5	2.4	2.8	
Sodium (Na ⁺)	mg/l	12	9.0	11.4	16.0	10.7	13.0	
Manganese (Mn)	mg/l	12	0.040	0.078	0.130	0.070	0.127	
Iron (Fe)	mg/l	12	0.130	0.262	0.640	0.205	0.518	
Chloride (Cl ⁻)	mg/l	12	15	19	28	18	24	
Zinc (Zn) - Dissolved	µg/l	23	< 1.0	8.5	20.0	9.0	19.0	III
Copper (Cu) - Dissolved	µg/l	23	0.9	3.9	8.5	3.6	8.0	III
Chromium (Cr) - Dissolved	µg/l	23	0.2	1.1	2.0	0.9	1.9	II
Lead (Pb) - Dissolved	µg/l	23	< 0.2	0.8	2.0	0.4	1.8	III
Cadmium (Cd) - Dissolved	µg/l	23	< 0.02	0.25	0.80	0.04	0.60	III
Mercury (Hg) - Dissolved	µg/l	23	< 0.030	0.218	0.500	0.050	0.500	III
Nickel (Ni) - Dissolved	µg/l	23	0.63	1.36	2.30	1.30	2.21	III
Arsenic (As) - Dissolved	µg/l	12	< 0.5	0.7	1.3	0.6	0.9	II
Aluminium (Al) - Dissolved	µg/l	23	1.6	50.3	100.0	36.7	96.8	
Zinc (Zn)	µg/l	12	< 1.0	10.7	35.0	7.9	19.9	II
Copper (Cu)	µg/l	12	1.3	6.2	39.1	3.4	4.8	II
Chromium (Cr) - total	µg/l	12	0.9	1.6	4.1	1.2	2.3	II
Lead (Pb)	µg/l	12	< 0.2	0.9	1.3	1.0	1.2	II
Cadmium (Cd)	µg/l	12	< 0.02	0.03	0.06	0.02	0.05	II
Mercury (Hg)	µg/l	12	< 0.030	0.096	0.540	0.055	0.117	III
Nickel (Ni)	µg/l	12	0.65	3.67	22.30	2.11	2.82	II
Arsenic (As)	µg/l	12	< 0.5	1.1	3.3	1.0	1.4	II
Aluminium (Al)	µg/l	12	4.6	241.5	483.0	208.5	461.1	
Phenol index	mg/l							
Anionic active surfactants	mg/l	25	< 0.020	0.028	0.040	0.028	0.038	
AOX	µg/l	12	< 10.0	16.6	46.0	12.0	21.8	II
Petroleum hydrocarbons	mg/l	22	< 0.020	0.025	0.050	0.020	0.039	
Lindane	µg/l	9	0.001	0.007	0.021	0.004	0.015	I
pp'DDT	µg/l	11	< 0.001	< 0.001	< 0.001	0.001	0.001	I
Atrazine	µg/l	10	< 0.003	0.128	0.976	0.028	0.195	V
Chloroform	µg/l	11	< 0.10	0.23	0.70	0.20	0.40	II
Carbon tetrachloride	µg/l	12	< 0.10	0.11	0.20	0.10	0.10	II
Trichloroethylene	µg/l	12	< 0.10	0.10	0.10	0.10	0.10	II
Tetrachloroethylene	µg/l	12	< 0.10	0.58	5.90	0.10	0.10	II
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	26	0.210	3.107	22.000	1.125	5.400	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	7	0.110	0.519	1.300	0.490	0.940	
Faecal Streptococci	10 ³ CFU/100 ml	6	0.030	0.093	0.160	0.095	0.135	
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	150820 km ²	H02
Distance from the mouth [km]	1768.0	Altitude	101 m	
Location	Komarom/Komarno L			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	1050.0	2197.7	5010.0	2130.0	3296.0	
Temperature	°C	26	0.5	11.1	21.9	12.1	19.6	
Suspended Solids	mg/l	12	4	34	58	37	49	
Dissolved Oxygen	mg/l	26	7.5	9.9	13.2	9.9	8.3	I
BOD ₅	mg/l	26	1.2	2.3	8.3	2.1	2.8	I
COD _{Mn}	mg/l	26	2.3	3.4	5.1	3.4	4.4	I
COD _{Cr}	mg/l	26	6.0	10.6	16.0	11.0	13.0	II
TOC	mg/l	19	3.0	4.6	6.9	4.4	5.9	
DOC	mg/l							
pH		26	7.7	8.1	9.0	8.1	8.5	II
							7.8	II
Alkalinity	mmol/l	12	2.3	3.3	4.2	3.2	4.1	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	0.020	0.067	0.190	0.050	0.125	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	26	< 0.01	0.023	0.046	0.021	0.035	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	1.03	2.09	3.34	1.89	3.17	III
Total Nitrogen	mg/l	26	2.47	3.90	5.77	3.78	5.52	III
Organic Nitrogen	mg/l	26	0.22	1.73	3.34	1.68	2.56	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	< 0.02	0.052	0.091	0.059	0.075	II
Total Phosphorus	mg/l	26	0.09	0.13	0.18	0.13	0.17	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	26	1.2	16.3	87.6	7.1	44.4	II
Conductivity @ 20°C	µS/cm	26	297	379	466	382	448	
Calcium (Ca ²⁺)	mg/l	12	40.0	55.2	80.0	55.0	64.0	
Sulphate (SO ₄ ²⁻)	mg/l	12	34	43	57	41	52	
Magnesium (Mg ²⁺)	mg/l	12	8.5	15.5	31.6	14.0	18.1	
Potassium (K ⁺)	mg/l	12	1.8	2.5	3.5	2.6	2.8	
Sodium (Na ⁺)	mg/l	12	10.5	12.3	16.0	12.2	14.4	
Manganese (Mn)	mg/l	12	0.040	0.083	0.250	0.060	0.127	
Iron (Fe)	mg/l							
Chloride (Cl)	mg/l	12	14	20	26	20	26	
Zinc (Zn) - Dissolved	µg/l	12	9.0	15.9	22.0	16.5	21.9	III
Copper (Cu) - Dissolved	µg/l	12	3.8	6.3	8.7	6.5	8.2	III
Chromium (Cr) - Dissolved	µg/l	12	1.7	3.3	10.7	1.7	8.6	III
Lead (Pb) - Dissolved	µg/l	12	0.9	1.5	2.6	1.5	2.2	III
Cadmium (Cd) - Dissolved	µg/l	12	0.20	0.47	0.60	0.55	0.60	III
Mercury (Hg) - Dissolved	µg/l	12	0.200	0.400	0.500	0.500	0.500	III
Nickel (Ni) - Dissolved	µg/l	12	0.70	1.08	2.60	0.90	1.81	III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l	12	69.0	85.0	100.0	89.5	99.6	
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	11	0.002	0.002	0.002	0.002	0.002	
Anionic active surfactants	mg/l	25	< 0.020	0.043	0.072	0.040	0.068	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	< 0.020	0.038	0.070	0.035	0.050	
Lindane	µg/l							
pp'DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l	4	0.10	0.10	0.10	0.10	0.10	II
Trichloroethylene	µg/l	3	0.10	0.10	0.10	0.10	0.10	II
Tetrachloroethylene	µg/l	4	0.10	3.55	12.00	1.05	8.82	V
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	24	0.700	46.533	920.000	6.200	14.500	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	5	0.330	2.252	5.400	1.700	4.640	
Faecal Streptococci	10 ³ CFU/100 ml	5	0.040	0.238	0.730	0.170	0.518	
Salmonella sp.	in 1 litre	5	0.0	0.2	1.0	0.0	0.6	

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	150820 km ²	H02
Distance from the mouth [km]	1768.0	Altitude	101 m	
Location	Komarom/Komarno M			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	1050.0	2197.7	5010.0	2130.0	3296.0	
Temperature	°C	26	0.9	11.3	21.9	12.1	19.6	
Suspended Solids	mg/l	17	15	35	52	37	47	
Dissolved Oxygen	mg/l	26	7.5	10.0	13.2	9.9	8.4	I
BOD ₅	mg/l	26	1.2	2.2	5.2	2.2	3.1	II
COD _{Mn}	mg/l	26	2.1	3.3	5.1	3.2	4.3	I
COD _{Cr}	mg/l	26	6.0	10.3	16.0	10.0	13.0	II
TOC	mg/l	19	3.2	4.6	6.8	4.3	5.7	
DOC	mg/l							
pH		26	7.7	8.2	9.0	8.2	8.5	II
							7.9	II
Alkalinity	mmol/l	12	2.4	3.3	4.0	3.3	4.0	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	0.020	0.070	0.190	0.050	0.130	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	26	< 0.010	0.022	0.047	0.021	0.034	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	0.85	2.10	3.29	1.87	3.23	III
Total Nitrogen	mg/l	25	1.33	3.66	5.82	3.63	5.03	III
Organic Nitrogen	mg/l	25	0.42	1.46	3.21	1.33	2.49	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	< 0.020	0.049	0.088	0.049	0.078	II
Total Phosphorus	mg/l	26	0.04	0.12	0.19	0.11	0.17	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	26	1.2	16.2	85.3	7.1	43.2	II
Conductivity @ 20°C	µS/cm	26	291	378	468	382	448	
Calcium (Ca ²⁺)	mg/l	12	42.0	53.0	62.0	54.0	60.0	
Sulphate (SO ₄ ²⁻)	mg/l	12	34	41	54	39	45	
Magnesium (Mg ²⁺)	mg/l	12	9.7	16.3	24.3	15.2	21.7	
Potassium (K ⁺)	mg/l	12	1.8	2.5	3.5	2.4	3.2	
Sodium (Na ⁺)	mg/l	12	9.5	12.0	16.0	11.6	14.4	
Manganese (Mn)	mg/l	12	0.040	0.057	0.130	0.050	0.078	
Iron (Fe)	mg/l	12	0.080	0.262	0.580	0.245	0.397	
Chloride (Cl ⁻)	mg/l	12	14	20	28	19	25	
Zinc (Zn) - Dissolved	µg/l	24	< 1.0	8.0	30.0	9.0	18.0	III
Copper (Cu) - Dissolved	µg/l	24	0.6	3.3	8.9	2.8	5.7	III
Chromium (Cr) - Dissolved	µg/l	24	< 0.1	1.4	5.5	1.4	2.6	III
Lead (Pb) - Dissolved	µg/l	24	< 0.2	0.7	2.0	0.7	1.0	II
Cadmium (Cd) - Dissolved	µg/l	24	< 0.02	0.11	0.20	0.13	0.20	III
Mercury (Hg) - Dissolved	µg/l	24	< 0.030	0.245	0.500	0.200	0.500	III
Nickel (Ni) - Dissolved	µg/l	24	0.58	0.91	1.78	0.70	1.57	III
Arsenic (As) - Dissolved	µg/l	12	< 0.5	0.7	1.3	0.7	0.9	II
Aluminium (Al) - Dissolved	µg/l	24	< 1.0	44.4	90.0	42.0	82.5	
Zinc (Zn)	µg/l	12	< 1.0	6.2	19.3	1.0	16.8	II
Copper (Cu)	µg/l	12	1.5	2.8	4.7	2.8	3.3	II
Chromium (Cr) - total	µg/l	12	0.3	1.3	2.3	1.2	2.1	II
Lead (Pb)	µg/l	12	< 0.2	0.9	1.9	0.8	1.2	II
Cadmium (Cd)	µg/l	12	< 0.02	0.03	0.06	0.02	0.06	II
Mercury (Hg)	µg/l	12	< 0.030	0.086	0.400	0.050	0.119	III
Nickel (Ni)	µg/l	12	0.77	1.87	3.18	1.83	2.56	II
Arsenic (As)	µg/l	12	< 0.5	0.9	1.3	0.9	1.2	II
Aluminium (Al)	µg/l	12	2.2	234.7	590.0	211.5	343.8	
Phenol index	mg/l	11	0.002	0.002	0.002	0.002	0.002	
Anionic active surfactants	mg/l	25	< 0.020	0.041	0.068	0.039	0.060	
AOX	µg/l	12	< 10.0	13.7	25.0	11.0	18.9	II
Petroleum hydrocarbons	mg/l	21	< 0.020	0.029	0.050	0.020	0.050	
Lindane	µg/l	9	0.001	0.004	0.010	0.003	0.006	I
pp'DDT	µg/l	11	< 0.001	< 0.001	< 0.001	0.001	0.001	I
Atrazine	µg/l	10	< 0.003	0.079	0.426	0.032	0.140	IV
Chloroform	µg/l	11	< 0.10	0.21	0.50	0.10	0.40	II
Carbon tetrachloride	µg/l	12	< 0.10	0.11	0.20	0.10	0.10	II
Trichloroethylene	µg/l	12	< 0.10	0.16	0.80	0.10	0.10	II
Tetrachloroethylene	µg/l	12	< 0.10	1.55	11.00	0.10	5.15	V
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	26	0.460	25.263	350.000	8.100	35.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	6	0.490	1.498	2.400	1.550	2.050	
Faecal Streptococci	10 ³ CFU/100 ml	6	0.010	0.265	0.810	0.155	0.610	
Salmonella sp.	in 1 litre	6	0.0	0.2	1.0	0.0	0.5	

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	150820 km ²	H02
Distance from the mouth [km]	1768.0	Altitude	101 m	
Location	Komarom/Komarno R			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	1050.0	2197.7	5010.0	2130.0	3296.0	
Temperature	°C	26	0.5	11.1	21.9	12.1	19.6	
Suspended Solids	mg/l	12	15	34	48	37	45	
Dissolved Oxygen	mg/l	26	7.8	9.9	13.0	9.9	8.3	I
BOD ₅	mg/l	26	1.1	2.1	4.5	2.0	3.0	I
COD _{Mn}	mg/l	26	2.2	3.3	4.9	3.2	4.5	I
COD _{Cr}	mg/l	26	7.0	10.3	15.0	10.0	13.0	II
TOC	mg/l	19	3.0	4.6	7.2	4.4	5.7	
DOC	mg/l							
pH		26	7.7	8.2	9.0	8.2	8.5	III
							7.9	II
Alkalinity	mmol/l	12	2.1	3.3	4.3	3.0	4.2	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	0.020	0.071	0.210	0.050	0.130	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	26	0.011	0.024	0.067	0.023	0.037	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	0.82	2.09	3.33	2.12	3.19	III
Total Nitrogen	mg/l	26	1.91	3.67	5.72	3.61	4.81	III
Organic Nitrogen	mg/l	26	0.62	1.49	2.71	1.31	2.56	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	< 0.020	0.050	0.095	0.051	0.075	II
Total Phosphorus	mg/l	26	0.03	0.12	0.18	0.12	0.16	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	26	1.2	16.5	82.9	8.3	44.4	II
Conductivity @ 20°C	µS/cm	26	289	380	481	386	456	
Calcium (Ca ²⁺)	mg/l	12	42.0	54.7	64.0	55.0	62.0	
Sulphate (SO ₄ ²⁻)	mg/l	12	34	42	50	41	47	
Magnesium (Mg ²⁺)	mg/l	12	6.1	14.7	31.6	13.4	19.4	
Potassium (K ⁺)	mg/l	12	1.8	2.5	3.5	2.8	2.8	
Sodium (Na ⁺)	mg/l	12	10.5	12.4	16.0	12.0	15.7	
Manganese (Mn)	mg/l	12	0.040	0.070	0.130	0.050	0.118	
Iron (Fe)	mg/l							
Chloride (Cl)	mg/l	12	14	20	28	21	25	
Zinc (Zn) - Dissolved	µg/l	12	9.0	13.8	29.0	11.5	17.9	III
Copper (Cu) - Dissolved	µg/l	12	3.9	5.8	8.1	5.8	7.9	III
Chromium (Cr) - Dissolved	µg/l	12	1.7	2.5	9.2	1.7	3.0	III
Lead (Pb) - Dissolved	µg/l	12	0.9	1.7	3.7	1.4	2.5	III
Cadmium (Cd) - Dissolved	µg/l	12	0.20	0.43	0.80	0.35	0.69	III
Mercury (Hg) - Dissolved	µg/l	12	0.200	0.425	0.500	0.500	0.500	III
Nickel (Ni) - Dissolved	µg/l	12	0.70	0.97	2.60	0.75	1.35	III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l	12	58.0	79.8	96.0	81.5	95.8	
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	11	0.002	0.002	0.002	0.002	0.002	
Anionic active surfactants	mg/l	25	0.022	0.040	0.064	0.038	0.057	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	< 0.02	0.040	0.070	0.040	0.058	
Lindane	µg/l							
pp'DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l	4	0.10	0.10	0.10	0.10	0.10	II
Trichloroethylene	µg/l	4	0.10	0.88	3.20	0.11	2.28	IV
Tetrachloroethylene	µg/l	4	0.10	3.75	12.90	1.00	9.42	V
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	26	1.100	44.354	920.000	9.200	19.500	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	5	0.460	1.048	2.200	0.790	1.840	
Faecal Streptococci	10 ³ CFU/100 ml	5	0.030	0.156	0.460	0.100	0.332	
Salmonella sp.	in 1 litre	5	0.0	0.2	1.0	0.0	0.6	

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	183350 km ²	H03
Distance from the mouth [km]	1708.0	Altitude	100 m	
Location	Szob L			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	1220.0	2382.3	5350.0	2290.0	3476.0	
Temperature	°C	25	0.3	11.6	22.7	14.2	21.1	
Suspended Solids	mg/l	26	2	22	53	24	36	
Dissolved Oxygen	mg/l	26	7.2	10.2	12.9	10.1	8.3	I
BOD ₅	mg/l	26	3.0	4.9	11.9	4.6	5.5	III
COD _{Mn}	mg/l	26	3.7	5.0	12.0	4.5	6.2	II
COD _{Cr}	mg/l	26	13.0	17.6	33.0	17.0	20.0	II
TOC	mg/l	25	2.6	4.9	15.2	4.4	6.1	
DOC	mg/l							
pH		26	7.0	8.0	8.4	8.1	8.3	II
							7.7	II
Alkalinity	mmol/l	26	1.6	3.0	4.1	2.9	3.9	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	< 0.020	0.088	0.340	0.045	0.220	II
Nitrite-N (NO ₂ ⁻ -N)	mg/l	26	< 0.010	0.018	0.033	0.016	0.026	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	1.02	1.93	3.62	1.81	2.72	II
Total Nitrogen	mg/l	26	1.06	2.14	4.34	1.95	3.26	II
Organic Nitrogen	mg/l	25	< 0.10	0.16	0.59	0.10	0.37	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	< 0.020	0.089	0.147	0.095	0.134	III
Total Phosphorus	mg/l	26	0.03	0.17	0.49	0.15	0.28	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	26	1.0	12.7	59.1	6.9	28.8	II
Conductivity @ 20°C	µS/cm	26	290	387	510	375	480	
Calcium (Ca ²⁺)	mg/l	26	35.0	53.0	73.0	52.5	64.0	
Sulphate (SO ₄ ²⁻)	mg/l	26	21	47	72	44	70	
Magnesium (Mg ²⁺)	mg/l	26	10.0	13.2	19.0	13.0	16.5	
Potassium (K ⁺)	mg/l	26	2.0	3.7	5.8	3.8	5.0	
Sodium (Na ⁺)	mg/l	26	9.0	13.3	19.7	12.7	17.4	
Manganese (Mn)	mg/l	26	< 0.040	0.062	0.130	0.060	0.100	
Iron (Fe)	mg/l	26	0.050	0.309	1.290	0.220	0.515	
Chloride (Cl ⁻)	mg/l	26	14	21	33	20	29	
Zinc (Zn) - Dissolved	µg/l	12	10.0	33.5	177.0	10.0	87.3	III
Copper (Cu) - Dissolved	µg/l	9	1.4	4.3	10.9	2.9	9.4	III
Chromium (Cr) - Dissolved	µg/l	12	0.5	1.0	3.5	0.5	2.8	III
Lead (Pb) - Dissolved	µg/l	12	0.5	5.2	21.2	1.1	13.5	III
Cadmium (Cd) - Dissolved	µg/l	12	0.50	0.51	0.56	0.50	0.50	III
Mercury (Hg) - Dissolved	µg/l	12	0.050	0.314	0.500	0.385	0.500	III
Nickel (Ni) - Dissolved	µg/l	12	0.50	2.09	5.90	1.15	5.11	III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	26	0.001	0.002	0.006	0.002	0.003	
Anionic active surfactants	mg/l	26	0.065	0.073	0.082	0.072	0.080	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	25	0.030	0.041	0.080	0.040	0.050	
Lindane	µg/l							
pp'DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	23	1.100	15.770	230.000	2.700	13.600	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	183350 km ²	H03
Distance from the mouth [km]	1708.0	Altitude	100 m	
Location	Szob M			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	1220.0	2382.3	5350.0	2290.0	3476.0	
Temperature	°C	26	0.6	11.3	22.4	12.5	19.9	
Suspended Solids	mg/l	26	2	25	96	22	44	
Dissolved Oxygen	mg/l	26	7.8	10.5	13.0	10.6	8.4	I
BOD ₅	mg/l	26	3.0	4.2	5.8	4.1	5.0	II
COD _{Mn}	mg/l	26	3.0	4.1	5.1	4.1	5.0	I
COD _{Cr}	mg/l	26	9.0	15.7	21.0	16.0	19.5	II
TOC	mg/l	17	2.5	3.8	5.0	3.8	4.8	
DOC	mg/l							
pH		26	7.0	8.0	8.5	8.1	8.3	II
							7.6	II
Alkalinity	mmol/l	26	2.5	3.3	4.5	3.2	4.0	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	< 0.020	0.059	0.180	0.035	0.130	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	26	< 0.010	0.017	0.040	0.015	0.026	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	0.79	1.92	3.28	1.92	2.66	II
Total Nitrogen	mg/l	26	0.82	2.14	4.02	2.01	3.10	II
Organic Nitrogen	mg/l	25	< 0.10	0.20	1.14	0.10	0.41	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	< 0.020	0.049	0.117	0.052	0.069	II
Total Phosphorus	mg/l	26	0.02	0.11	0.59	0.09	0.16	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	26	1.0	13.7	67.5	6.9	31.6	II
Conductivity @ 20°C	µS/cm	26	280	375	490	375	465	
Calcium (Ca ²⁺)	mg/l	26	37.0	54.8	66.0	55.0	65.0	
Sulphate (SO ₄ ²⁻)	mg/l	26	14	34	59	33	52	
Magnesium (Mg ²⁺)	mg/l	26	9.0	13.8	20.7	14.0	17.1	
Potassium (K ⁺)	mg/l	26	1.0	2.5	4.0	2.4	3.3	
Sodium (Na ⁺)	mg/l	26	8.8	11.8	18.0	11.3	16.1	
Manganese (Mn)	mg/l	26	< 0.040	0.050	0.080	0.040	0.075	
Iron (Fe)	mg/l	26	0.050	0.245	0.640	0.220	0.480	
Chloride (Cl ⁻)	mg/l	26	16	22	33	22	27	
Zinc (Zn) - Dissolved	µg/l	24	< 1.0	16.2	109.0	10.0	26.4	III
Copper (Cu) - Dissolved	µg/l	20	1.1	2.2	6.2	1.8	3.4	III
Chromium (Cr) - Dissolved	µg/l	24	< 0.1	0.6	2.4	0.5	1.5	II
Lead (Pb) - Dissolved	µg/l	24	< 0.2	1.5	12.4	0.7	3.8	III
Cadmium (Cd) - Dissolved	µg/l	24	< 0.02	0.26	0.50	0.27	0.50	III
Mercury (Hg) - Dissolved	µg/l	24	< 0.030	0.207	0.500	0.075	0.500	III
Nickel (Ni) - Dissolved	µg/l	24	0.40	1.13	3.80	0.92	1.40	III
Arsenic (As) - Dissolved	µg/l	12	< 0.5	0.8	1.2	0.7	1.1	III
Aluminium (Al) - Dissolved	µg/l	12	< 1.0	19.7	113.0	12.6	19.6	
Zinc (Zn)	µg/l	12	< 1.0	25.2	123.0	19.0	36.5	II
Copper (Cu)	µg/l	12	1.1	2.9	5.4	3.0	3.7	II
Chromium (Cr) - total	µg/l	12	0.5	1.2	2.3	1.0	2.1	II
Lead (Pb)	µg/l	12	< 0.2	1.0	2.0	1.0	1.6	II
Cadmium (Cd)	µg/l	12	< 0.02	0.03	0.05	0.02	0.05	II
Mercury (Hg)	µg/l	12	0.040	0.132	0.580	0.060	0.369	IV
Nickel (Ni)	µg/l	12	0.80	2.31	11.90	1.37	2.81	II
Arsenic (As)	µg/l	12	0.5	1.1	1.4	1.1	1.3	II
Aluminium (Al)	µg/l	12	2.2	202.9	456.0	182.0	328.1	
Phenol index	mg/l	25	0.001	0.002	0.005	0.002	0.003	
Anionic active surfactants	mg/l	26	0.060	0.071	0.080	0.071	0.076	
AOX	µg/l	12	< 10.0	15.1	50.0	10.0	23.0	II
Petroleum hydrocarbons	mg/l	30	< 0.020	0.033	0.070	0.030	0.050	
Lindane	µg/l	8	0.003	0.005	0.009	0.005	0.008	I
pp'DDT	µg/l	10	< 0.001	< 0.001	< 0.001	0.001	0.001	I
Atrazine	µg/l	9	< 0.003	0.161	1.026	0.029	0.412	V
Chloroform	µg/l	11	< 0.10	0.33	1.40	0.10	0.70	III
Carbon tetrachloride	µg/l	11	< 0.10	0.12	0.30	0.10	0.10	II
Trichloroethylene	µg/l	11	< 0.10	0.12	0.30	0.10	0.10	II
Tetrachloroethylene	µg/l	11	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	23	0.080	18.696	200.000	2.500	12.600	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	183350 km ²	H03
Distance from the mouth [km]	1708.0	Altitude	100 m	
Location	Szob R			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	1220.0	2382.3	5350.0	2290.0	3476.0	
Temperature	°C	26	0.4	11.1	22.0	12.4	20.0	
Suspended Solids	mg/l	26	3	19	38	19	35	
Dissolved Oxygen	mg/l	26	7.5	10.5	13.2	10.6	8.8	I
BOD ₅	mg/l	26	2.7	4.1	5.1	4.2	4.9	II
COD _{Mn}	mg/l	26	2.7	4.0	5.2	4.0	4.8	I
COD _{Cr}	mg/l	26	10.0	15.2	22.0	15.0	19.0	II
TOC	mg/l	23	2.1	3.7	4.9	3.9	4.6	
DOC	mg/l							
pH		26	6.8	8.0	8.5	8.1	8.3	II
							7.4	II
Alkalinity	mmol/l	26	2.6	3.2	4.2	3.1	3.8	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	< 0.020	0.066	0.310	0.050	0.135	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	26	< 0.010	0.017	0.038	0.016	0.025	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	0.79	1.90	3.16	1.81	2.66	II
Total Nitrogen	mg/l	26	0.85	2.11	3.84	1.93	3.17	II
Organic Nitrogen	mg/l	25	< 0.10	0.19	1.13	0.10	0.40	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	< 0.020	0.052	0.137	0.052	0.073	II
Total Phosphorus	mg/l	26	0.02	0.11	0.38	0.09	0.21	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	26	1.0	13.0	60.8	6.9	33.9	II
Conductivity @ 20°C	µS/cm	26	280	376	520	375	470	
Calcium (Ca ²⁺)	mg/l	26	39.0	55.5	66.0	57.3	64.2	
Sulphate (SO ₄ ²⁻)	mg/l	26	9	31	54	30	47	
Magnesium (Mg ²⁺)	mg/l	26	8.0	13.5	22.0	12.5	18.0	
Potassium (K ⁺)	mg/l	26	1.0	2.5	5.0	2.5	3.1	
Sodium (Na ⁺)	mg/l	26	8.9	12.0	19.0	11.6	16.2	
Manganese (Mn)	mg/l	26	< 0.04	0.058	0.110	0.050	0.090	
Iron (Fe)	mg/l	26	0.050	0.260	0.610	0.250	0.475	
Chloride (Cl ⁻)	mg/l	26	15	22	32	21	30	
Zinc (Zn) - Dissolved	µg/l	12	10.0	24.5	153.0	10.0	25.0	III
Copper (Cu) - Dissolved	µg/l	9	1.2	3.1	8.8	2.5	5.0	III
Chromium (Cr) - Dissolved	µg/l	12	0.5	1.0	4.5	0.5	1.6	II
Lead (Pb) - Dissolved	µg/l	12	1.0	5.1	40.6	1.0	6.5	III
Cadmium (Cd) - Dissolved	µg/l	12	0.50	0.51	0.57	0.50	0.50	III
Mercury (Hg) - Dissolved	µg/l	12	0.050	0.295	0.500	0.325	0.500	III
Nickel (Ni) - Dissolved	µg/l	12	0.50	2.01	9.00	1.05	3.84	III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	25	0.001	0.002	0.005	0.002	0.002	
Anionic active surfactants	mg/l	26	0.062	0.072	0.090	0.072	0.076	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	25	0.030	0.042	0.070	0.040	0.056	
Lindane	µg/l							
pp'DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	23	0.700	19.261	230.000	3.500	32.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	188700 km ²	H04
Distance from the mouth [km]	1560.0	Altitude	89 m	
Location	Dunafoldvar L			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	1280.0	2419.3	5280.0	2340.0	3508.0	
Temperature	°C	26	0.4	11.8	23.0	12.5	21.1	
Suspended Solids	mg/l	12	8	26	55	22	43	
Dissolved Oxygen	mg/l	26	7.5	11.1	14.5	11.2	9.2	I
BOD ₅	mg/l	26	1.4	3.7	8.9	3.5	5.6	III
COD _{Mn}	mg/l	26	2.6	4.2	7.2	3.9	5.2	II
COD _{Cr}	mg/l	26	11.0	15.8	22.0	16.0	19.0	II
TOC	mg/l	4	3.4	5.2	6.5	5.4	6.5	
DOC	mg/l							
pH		26	7.8	8.2	8.8	8.2	8.6	III
							8.0	II
Alkalinity	mmol/l	12	2.0	3.0	3.5	3.0	3.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	0.020	0.095	0.230	0.085	0.210	II
Nitrite-N (NO ₂ ⁻ -N)	mg/l	26	< 0.010	0.026	0.055	0.021	0.042	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	< 0.50	2.00	3.03	1.99	2.91	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	< 0.020	0.057	0.108	0.064	0.091	II
Total Phosphorus	mg/l	26	0.02	0.15	0.22	0.15	0.20	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	26	1.0	28.5	119.0	16.5	65.0	III
Conductivity @ 20°C	µS/cm	26	256	368	452	377	440	
Calcium (Ca ²⁺)	mg/l	12	32.0	51.6	64.0	50.6	61.9	
Sulphate (SO ₄ ²⁻)	mg/l	12	27	37	48	36	45	
Magnesium (Mg ²⁺)	mg/l	12	10.1	13.4	16.5	13.9	15.9	
Potassium (K ⁺)	mg/l	12	1.9	2.6	3.3	2.6	3.3	
Sodium (Na ⁺)	mg/l	12	8.2	11.5	16.2	10.4	15.4	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl)	mg/l	12	13	18	24	17	24	
Zinc (Zn) - Dissolved	µg/l	12	3.0	8.8	24.0	7.0	16.8	III
Copper (Cu) - Dissolved	µg/l	12	1.9	3.8	7.5	3.6	4.4	III
Chromium (Cr) - Dissolved	µg/l	12	0.1	0.4	0.7	0.5	0.7	II
Lead (Pb) - Dissolved	µg/l	12	0.6	0.9	1.7	0.6	1.4	III
Cadmium (Cd) - Dissolved	µg/l	12	0.05	0.11	0.61	0.06	0.16	III
Mercury (Hg) - Dissolved	µg/l	12	0.060	0.085	0.110	0.085	0.110	III
Nickel (Ni) - Dissolved	µg/l	12	1.00	1.03	1.40	1.00	1.00	II
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l	12	9.0	22.7	48.0	18.0	39.9	
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.003	0.004	0.006	0.004	0.005	
Anionic active surfactants	mg/l	26	0.050	0.052	0.092	0.050	0.051	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	0.038	0.052	0.093	0.050	0.050	
Lindane	µg/l							
pp'DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	24	0.500	26.233	180.000	13.500	34.100	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	6	0.200	4.967	13.000	2.950	11.000	
Faecal Streptococci	10 ³ CFU/100 ml	6	0.000	1.433	5.000	0.900	3.150	
Salmonella sp.	in 1 litre	6	0.0	0.3	1.0	0.0	1.0	

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	188700 km ²	H04
Distance from the mouth [km]	1560.0	Altitude	89 m	
Location	Dunafoldvar M			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	1280.0	2419.3	5280.0	2340.0	3508.0	
Temperature	°C	26	0.7	11.8	23.1	12.5	21.1	
Suspended Solids	mg/l	12	8	25	64	23	42	
Dissolved Oxygen	mg/l	26	7.6	11.2	13.9	11.4	9.3	I
BOD ₅	mg/l	26	2.0	3.9	8.0	3.8	5.3	III
COD _{Mn}	mg/l	26	2.6	4.1	6.6	3.9	5.1	II
COD _{Cr}	mg/l	26	10.0	15.2	22.0	15.0	18.0	II
TOC	mg/l	4	4.2	6.5	8.9	6.4	8.3	
DOC	mg/l							
pH		26	8.0	8.3	8.7	8.2	8.6	III
							8.1	II
Alkalinity	mmol/l	12	2.0	3.0	3.6	3.0	3.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	0.020	0.088	0.230	0.055	0.190	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	26	< 0.010	0.023	0.046	0.021	0.042	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	0.50	1.98	3.19	2.00	2.86	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	< 0.020	0.056	0.108	0.061	0.087	II
Total Phosphorus	mg/l	26	0.03	0.15	0.26	0.14	0.22	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	26	1.0	30.1	125.0	17.5	76.5	III
Conductivity @ 20°C	µS/cm	26	258	368	456	379	443	
Calcium (Ca ²⁺)	mg/l	12	32.0	52.0	64.0	53.5	61.9	
Sulphate (SO ₄ ²⁻)	mg/l	12	26	37	47	35	45	
Magnesium (Mg ²⁺)	mg/l	12	10.1	13.8	17.0	14.0	16.5	
Potassium (K ⁺)	mg/l	12	1.8	2.5	3.2	2.6	3.2	
Sodium (Na ⁺)	mg/l	12	7.9	11.4	15.9	10.4	15.7	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl)	mg/l	12	12	18	24	17	24	
Zinc (Zn) - Dissolved	µg/l	23	< 1.0	8.7	52.0	3.0	14.8	III
Copper (Cu) - Dissolved	µg/l	23	1.3	2.9	6.9	2.5	4.7	III
Chromium (Cr) - Dissolved	µg/l	23	0.1	0.4	0.8	0.3	0.7	II
Lead (Pb) - Dissolved	µg/l	23	< 0.2	0.7	2.2	0.6	1.7	III
Cadmium (Cd) - Dissolved	µg/l	23	< 0.02	0.06	0.43	0.05	0.09	II
Mercury (Hg) - Dissolved	µg/l	23	< 0.030	0.060	0.110	0.060	0.110	III
Nickel (Ni) - Dissolved	µg/l	23	0.59	1.21	3.57	1.00	1.83	III
Arsenic (As) - Dissolved	µg/l	11	< 0.5	0.8	1.3	0.7	1.1	III
Aluminium (Al) - Dissolved	µg/l	23	1.1	27.4	207.0	17.0	37.5	
Zinc (Zn)	µg/l	11	< 1.0	10.7	51.0	3.9	18.0	II
Copper (Cu)	µg/l	11	1.6	3.8	9.1	2.7	8.5	II
Chromium (Cr) - total	µg/l	11	< 0.3	3.4	15.3	1.4	7.6	II
Lead (Pb)	µg/l	11	< 0.2	1.3	2.9	1.2	1.9	II
Cadmium (Cd)	µg/l	11	< 0.02	0.03	0.11	0.02	0.05	II
Mercury (Hg)	µg/l	11	< 0.030	0.075	0.170	0.060	0.130	III
Nickel (Ni)	µg/l	11	1.01	1.94	3.99	1.56	3.50	II
Arsenic (As)	µg/l	11	0.6	1.3	2.6	1.2	1.8	II
Aluminium (Al)	µg/l	11	7.3	259.8	545.0	266.0	493.0	
Phenol index	mg/l	12	0.003	0.003	0.005	0.003	0.004	
Anionic active surfactants	mg/l	26	0.050	0.052	0.103	0.050	0.052	
AOX	µg/l	11	< 10.0	24.9	35.0	28.0	33.0	II
Petroleum hydrocarbons	mg/l	23	< 0.020	0.039	0.100	0.050	0.053	
Lindane	µg/l	11	0.001	0.004	0.012	0.003	0.006	I
pp'DDT	µg/l	11	< 0.001	< 0.001	< 0.001	0.001	0.001	I
Atrazine	µg/l	11	< 0.003	0.027	0.104	0.003	0.076	II
Chloroform	µg/l	10	< 0.10	0.31	1.20	0.10	0.57	III
Carbon tetrachloride	µg/l	10	< 0.10	0.15	0.40	0.10	0.31	II
Trichloroethylene	µg/l	10	< 0.10	0.12	0.20	0.10	0.20	II
Tetrachloroethylene	µg/l	10	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	25	0.300	16.644	70.000	12.000	36.600	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	7	0.500	4.229	18.000	1.500	11.100	
Faecal Streptococci	10 ³ CFU/100 ml	7	0.120	0.591	1.100	0.400	1.100	
Salmonella sp.	in 1 litre	7	0.0	0.3	1.0	0.0	1.0	

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	188700 km ²	H04
Distance from the mouth [km]	1560.0	Altitude	89 m	
Location	Dunafoldvar R			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	1280.0	2419.3	5280.0	2340.0	3508.0	
Temperature	°C	26	0.7	11.9	23.1	12.6	21.1	
Suspended Solids	mg/l	12	6	25	42	27	40	
Dissolved Oxygen	mg/l	26	8.2	11.1	14.0	11.4	9.0	I
BOD ₅	mg/l	26	1.7	4.2	8.6	3.9	6.1	III
COD _{Mn}	mg/l	26	2.7	4.1	6.5	4.1	5.2	II
COD _{Cr}	mg/l	26	11.0	16.7	23.0	17.0	19.0	II
TOC	mg/l	4	4.6	6.2	8.2	6.0	7.8	
DOC	mg/l							
pH		26	7.9	8.3	8.7	8.2	8.6	III
							8.0	II
Alkalinity	mmol/l	12	2.1	3.0	3.6	3.1	3.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	0.020	0.083	0.230	0.060	0.180	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	26	< 0.010	0.024	0.049	0.020	0.045	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	0.72	2.03	3.39	1.95	3.00	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	< 0.020	0.053	0.111	0.054	0.088	II
Total Phosphorus	mg/l	26	0.03	0.14	0.20	0.14	0.19	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	26	1.0	31.6	119.0	16.5	78.0	III
Conductivity @ 20°C	µS/cm	26	270	377	480	388	459	
Calcium (Ca ²⁺)	mg/l	12	32.0	51.4	67.0	52.0	61.9	
Sulphate (SO ₄ ²⁻)	mg/l	12	30	38	49	38	45	
Magnesium (Mg ²⁺)	mg/l	12	10.6	14.3	17.6	14.5	17.4	
Potassium (K ⁺)	mg/l	12	1.8	2.7	3.4	2.6	3.4	
Sodium (Na ⁺)	mg/l	12	8.1	11.8	16.5	10.7	16.4	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl)	mg/l	12	12	18	25	17	24	
Zinc (Zn) - Dissolved	µg/l	12	3.0	11.8	29.0	10.5	22.9	III
Copper (Cu) - Dissolved	µg/l	12	1.9	3.8	6.3	3.6	5.8	III
Chromium (Cr) - Dissolved	µg/l	12	0.1	0.5	1.3	0.4	0.8	II
Lead (Pb) - Dissolved	µg/l	12	0.6	0.8	1.8	0.6	1.5	III
Cadmium (Cd) - Dissolved	µg/l	12	0.05	0.13	0.57	0.06	0.37	III
Mercury (Hg) - Dissolved	µg/l	12	0.060	0.085	0.110	0.085	0.110	III
Nickel (Ni) - Dissolved	µg/l	12	1.00	1.02	1.10	1.00	1.09	III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l	12	4.0	21.4	59.0	15.5	42.8	
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.003	0.004	0.007	0.003	0.004	
Anionic active surfactants	mg/l	26	0.050	0.053	0.103	0.050	0.055	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	0.050	0.055	0.074	0.050	0.072	
Lindane	µg/l							
pp'DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	25	0.400	14.416	120.000	7.000	22.600	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	7	0.400	2.700	12.000	0.800	6.600	
Faecal Streptococci	10 ³ CFU/100 ml	7	0.020	0.399	0.900	0.230	0.840	
Salmonella sp.	in 1 litre	7	0.0	0.1	1.0	0.0	0.4	

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	211503	km ²	H05
Distance from the mouth [km]	1435.0	Altitude	79	m	
Location	Hercegszanto M				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	1310.0	2432.5	4940.0	2330.0	3482.0	
Temperature	°C	36	1.4	12.2	24.4	12.1	20.0	
Suspended Solids	mg/l	23	9	24	71	24	35	
Dissolved Oxygen	mg/l	36	7.7	10.9	14.2	10.9	8.9	I
BOD ₅	mg/l	36	1.6	3.5	6.2	3.5	5.0	II
COD _{Mn}	mg/l	36	2.4	3.8	5.1	3.8	4.9	I
COD _{Cr}	mg/l	36	10.0	15.7	22.0	15.5	19.0	II
TOC	mg/l	13	3.7	5.4	7.3	5.3	6.4	
DOC	mg/l							
pH		36	7.9	8.2	8.9	8.2	8.5	III
							8.1	II
Alkalinity	mmol/l	23	2.0	3.0	3.6	3.1	3.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	36	0.020	0.074	0.230	0.050	0.165	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	36	< 0.010	0.021	0.040	0.018	0.036	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	36	0.54	1.97	3.37	2.05	2.89	II
Total Nitrogen	mg/l	22	0.72	2.34	3.49	2.31	3.30	II
Organic Nitrogen	mg/l	22	< 0.10	0.28	0.65	0.29	0.47	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	36	< 0.020	0.053	0.101	0.055	0.087	II
Total Phosphorus	mg/l	36	0.03	0.15	0.27	0.15	0.19	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	36	2.1	26.5	105.0	13.5	73.0	III
Conductivity @ 20°C	µS/cm	36	286	372	470	373	444	
Calcium (Ca ²⁺)	mg/l	23	37.8	52.6	65.0	55.0	61.0	
Sulphate (SO ₄ ²⁻)	mg/l	23	28	37	49	37	45	
Magnesium (Mg ²⁺)	mg/l	23	9.2	14.2	18.0	14.1	17.0	
Potassium (K ⁺)	mg/l	23	1.8	2.5	3.3	2.5	3.3	
Sodium (Na ⁺)	mg/l	23	7.7	11.7	16.4	10.8	16.1	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl)	mg/l	23	12	18	25	18	24	
Zinc (Zn) - Dissolved	µg/l	35	< 1.0	11.0	51.0	6.0	27.0	III
Copper (Cu) - Dissolved	µg/l	35	0.6	3.2	6.9	2.7	5.3	III
Chromium (Cr) - Dissolved	µg/l	35	0.1	0.6	3.0	0.4	1.3	II
Lead (Pb) - Dissolved	µg/l	35	< 0.2	0.7	1.6	0.6	1.4	III
Cadmium (Cd) - Dissolved	µg/l	35	< 0.02	0.08	0.74	0.05	0.08	II
Mercury (Hg) - Dissolved	µg/l	34	< 0.030	0.066	0.110	0.060	0.110	III
Nickel (Ni) - Dissolved	µg/l	35	< 0.20	1.19	2.80	1.00	1.86	III
Arsenic (As) - Dissolved	µg/l	30	< 0.5	1.4	3.0	1.2	2.3	III
Aluminium (Al) - Dissolved	µg/l	27	3.7	29.8	153.0	13.4	71.4	
Zinc (Zn)	µg/l	12	< 1	18.3	57.0	11.0	48.3	II
Copper (Cu)	µg/l	12	1.3	3.4	6.0	3.1	4.8	II
Chromium (Cr) - total	µg/l	12	0.6	3.4	18.5	2.3	3.2	II
Lead (Pb)	µg/l	12	0.8	1.5	3.0	1.5	2.1	II
Cadmium (Cd)	µg/l	12	< 0.02	0.04	0.12	0.02	0.11	II
Mercury (Hg)	µg/l	12	< 0.030	0.083	0.180	0.065	0.153	III
Nickel (Ni)	µg/l	12	1.10	2.21	3.90	2.01	3.21	II
Arsenic (As)	µg/l	12	0.8	1.4	2.6	1.2	1.8	II
Aluminium (Al)	µg/l	12	11.8	408.7	818.0	400.0	720.4	
Phenol index	mg/l	23	0.003	0.003	0.004	0.003	0.004	
Anionic active surfactants	mg/l	36	0.050	0.051	0.059	0.050	0.051	
AOX	µg/l	12	< 10.0	22.9	52.0	18.0	39.9	II
Petroleum hydrocarbons	mg/l	33	< 0.020	0.039	0.075	0.050	0.050	
Lindane	µg/l	30	< 0.001	0.002	0.012	0.001	0.004	I
pp'DDT	µg/l	31	< 0.001	0.014	0.050	0.010	0.020	III
Atrazine	µg/l	12	< 0.003	0.033	0.226	0.003	0.075	II
Chloroform	µg/l	11	< 0.10	0.25	0.60	0.20	0.50	II
Carbon tetrachloride	µg/l	11	< 0.10	0.15	0.40	0.10	0.20	II
Trichloroethylene	µg/l	11	< 0.10	0.12	0.30	0.10	0.10	II
Tetrachloroethylene	µg/l	11	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	35	0.210	7.326	22.000	7.000	13.760	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	7	0.120	2.217	9.000	1.200	5.520	
Faecal Streptococci	10 ³ CFU/100 ml	7	0.000	0.457	1.800	0.160	1.260	
Salmonella sp.	in 1 litre	7	0.0	0.0	0.0	0.0	0.0	

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	/Sio	Catchment	14693	km ²	H06
Distance from the mouth [km]	13.0	Altitude	85	m	
Location	Szekszard-Palank M				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	2.4	8.3	26.5	8.2	13.1	
Temperature	°C	26	0.0	13.7	28.7	13.7	24.7	
Suspended Solids	mg/l	12	5	40	98	33	64	
Dissolved Oxygen	mg/l	26	6.6	10.7	19.3	10.1	7.9	I
BOD ₅	mg/l	26	1.8	5.6	9.7	4.8	8.4	III
COD _{Mn}	mg/l	26	6.9	9.3	15.0	9.1	13.0	III
COD _{Cr}	mg/l	26	17.0	28.5	39.0	28.0	37.5	III
TOC	mg/l	26	7.2	11.7	19.6	11.9	14.6	
DOC	mg/l							
pH		26	8.0	8.3	8.6	8.3	8.5	III
							8.2	II
Alkalinity	mmol/l	12	7.5	8.1	8.9	8.0	8.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	0.020	0.500	2.350	0.205	1.315	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	26	0.043	0.092	0.170	0.085	0.147	IV
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	2.28	4.86	8.59	4.30	7.30	IV
Total Nitrogen	mg/l	26	4.29	6.86	11.42	6.04	10.00	IV
Organic Nitrogen	mg/l	26	0.23	1.41	2.11	1.43	1.86	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	0.246	0.399	0.883	0.372	0.488	IV
Total Phosphorus	mg/l	26	0.39	0.84	1.64	0.74	1.35	V
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	12	23.7	91.9	215.0	71.8	186.2	IV
Conductivity @ 20°C	µS/cm	26	815	1,005	1,231	995	1,124	
Calcium (Ca ²⁺)	mg/l	12	84.9	94.1	109.0	94.3	103.9	
Sulphate (SO ₄ ²⁻)	mg/l	12	119	152	200	153	174	
Magnesium (Mg ²⁺)	mg/l	12	54.0	63.4	73.7	64.4	72.0	
Potassium (K ⁺)	mg/l	12	7.8	9.4	12.0	9.1	11.1	
Sodium (Na ⁺)	mg/l	12	39.2	52.6	63.0	54.3	61.7	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl)	mg/l	12	43	54	64	54	64	
Zinc (Zn) - Dissolved	µg/l	24	< 1.0	19.7	76.0	20.0	44.3	III
Copper (Cu) - Dissolved	µg/l	24	0.8	4.8	23.0	3.1	9.7	III
Chromium (Cr) - Dissolved	µg/l	24	0.2	0.7	2.4	0.5	1.7	II
Lead (Pb) - Dissolved	µg/l	24	< 0.2	0.8	4.0	1.0	1.6	III
Cadmium (Cd) - Dissolved	µg/l	24	< 0.02	0.12	0.20	0.18	0.20	III
Mercury (Hg) - Dissolved	µg/l	12	< 0.030	0.038	0.100	0.030	0.040	II
Nickel (Ni) - Dissolved	µg/l	24	1.10	3.05	11.00	2.72	4.82	III
Arsenic (As) - Dissolved	µg/l	16	0.7	3.1	8.0	2.5	5.4	III
Aluminium (Al) - Dissolved	µg/l	24	1.5	37.8	190.0	29.5	79.6	
Zinc (Zn)	µg/l	12	< 1.0	21.5	47.0	18.0	40.3	II
Copper (Cu)	µg/l	12	2.1	3.8	7.6	3.3	5.5	II
Chromium (Cr) - total	µg/l	12	0.9	3.3	6.1	3.2	5.0	II
Lead (Pb)	µg/l	12	0.5	1.5	3.2	1.4	2.4	II
Cadmium (Cd)	µg/l	12	< 0.02	0.09	0.15	0.09	0.15	II
Mercury (Hg)	µg/l	12	0.040	0.108	0.240	0.105	0.184	III
Nickel (Ni)	µg/l	12	1.80	3.48	5.79	3.18	4.82	II
Arsenic (As)	µg/l	12	0.9	3.9	7.9	3.8	6.1	III
Aluminium (Al)	µg/l	12	1.5	462.1	1180.0	423.0	923.6	
Phenol index	mg/l	12	0.002	0.002	0.003	0.002	0.002	
Anionic active surfactants	mg/l	15	< 0.020	0.034	0.051	0.036	0.049	
AOX	µg/l	24	18.0	74.1	191.0	61.0	131.3	IV
Petroleum hydrocarbons	mg/l	24	< 0.020	0.029	0.055	0.023	0.043	
Lindane	µg/l	18	< 0.001	0.005	0.032	0.002	0.012	I
pp'DDT	µg/l	12	< 0.001	0.001	0.005	0.001	0.001	I
Atrazine	µg/l	18	< 0.003	0.369	1.863	0.110	0.979	V
Chloroform	µg/l	11	< 0.10	0.18	0.50	0.10	0.40	II
Carbon tetrachloride	µg/l	11	< 0.10	0.14	0.40	0.10	0.20	II
Trichloroethylene	µg/l	11	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Tetrachloroethylene	µg/l	11	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	6	0.900	3.317	5.200	4.150	4.800	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	/Drava	Catchment	35764	km ²	H07
Distance from the mouth [km]	78.0	Altitude	92	m	
Location	Dravaszabolcs M				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	179.0	461.2	981.0	450.0	702.0	
Temperature	°C	24	0.2	13.3	23.6	15.0	22.1	
Suspended Solids	mg/l	12	5	14	42	10	24	
Dissolved Oxygen	mg/l	24	7.5	9.8	13.3	9.5	7.7	I
BOD ₅	mg/l	24	0.8	2.6	6.2	2.3	4.9	II
COD _{Mn}	mg/l	24	2.1	2.8	4.0	2.7	3.5	I
COD _{Cr}	mg/l	24	4.0	6.8	10.0	7.0	8.7	I
TOC	mg/l	11	1.2	2.2	3.4	2.1	3.0	
DOC	mg/l							
pH		24	8.0	8.2	8.7	8.2	8.3	II
							8.0	II
Alkalinity	mmol/l	12	2.1	2.7	3.9	2.6	3.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	24	< 0.020	0.055	0.180	0.040	0.117	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	24	< 0.010	0.015	0.036	0.012	0.021	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	24	0.52	1.13	1.81	1.17	1.48	II
Total Nitrogen	mg/l	8	0.69	1.63	2.50	1.66	2.43	II
Organic Nitrogen	mg/l	8	0.13	0.46	0.83	0.47	0.69	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	24	< 0.020	0.045	0.082	0.049	0.068	II
Total Phosphorus	mg/l	24	0.05	0.10	0.16	0.09	0.13	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	24	0.5	9.0	47.0	4.7	16.4	I
Conductivity @ 20°C	µS/cm	24	226	301	388	308	357	
Calcium (Ca ²⁺)	mg/l	12	33.5	44.6	62.8	44.2	53.6	
Sulphate (SO ₄ ²⁻)	mg/l	12	5	33	49	34	46	
Magnesium (Mg ²⁺)	mg/l	12	9.1	12.2	17.6	11.1	16.9	
Potassium (K ⁺)	mg/l	12	1.6	2.0	2.7	2.1	2.5	
Sodium (Na ⁺)	mg/l	12	4.9	7.2	13.0	6.7	9.8	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl)	mg/l	12	8	11	17	11	14	
Zinc (Zn) - Dissolved	µg/l	24	< 1.0	12.9	53.0	11.5	21.0	III
Copper (Cu) - Dissolved	µg/l	24	< 0.2	1.6	6.1	1.1	2.6	III
Chromium (Cr) - Dissolved	µg/l	24	< 0.1	0.7	2.5	0.4	1.5	II
Lead (Pb) - Dissolved	µg/l	24	< 0.2	0.6	2.1	0.5	1.1	III
Cadmium (Cd) - Dissolved	µg/l	24	< 0.02	0.04	0.10	0.05	0.07	II
Mercury (Hg) - Dissolved	µg/l	24	< 0.030	0.048	0.090	0.045	0.090	II
Nickel (Ni) - Dissolved	µg/l	24	< 0.20	1.39	5.70	0.91	2.85	III
Arsenic (As) - Dissolved	µg/l	12	< 0.5	1.1	1.5	1.1	1.4	III
Aluminium (Al) - Dissolved	µg/l	22	< 1.0	24.9	80.0	18.5	53.6	
Zinc (Zn)	µg/l	12	< 1.0	9.9	34.0	5.0	26.8	II
Copper (Cu)	µg/l	12	0.3	1.8	3.1	1.6	3.0	II
Chromium (Cr) - total	µg/l	12	< 0.3	1.4	3.2	1.4	2.3	II
Lead (Pb)	µg/l	12	0.7	2.1	4.1	1.9	3.9	II
Cadmium (Cd)	µg/l	12	< 0.02	0.04	0.13	0.02	0.08	II
Mercury (Hg)	µg/l	12	< 0.030	0.049	0.070	0.050	0.069	II
Nickel (Ni)	µg/l	12	0.70	1.62	2.69	1.73	2.36	II
Arsenic (As)	µg/l	12	0.9	1.6	3.0	1.4	1.9	II
Aluminium (Al)	µg/l	12	< 0.5	228.9	627.0	126.5	484.6	
Phenol index	mg/l	12	0.002	0.004	0.006	0.004	0.006	
Anionic active surfactants	mg/l	24	0.020	0.041	0.082	0.037	0.066	
AOX	µg/l	12	< 10.0	22.6	54.0	20.0	42.9	II
Petroleum hydrocarbons	mg/l	24	< 0.020	0.030	0.080	0.020	0.050	
Lindane	µg/l	12	0.001	0.004	0.010	0.003	0.006	I
pp'DDT	µg/l	12	< 0.001	< 0.001	< 0.001	0.001	0.001	I
Atrazine	µg/l	12	< 0.003	0.020	0.081	0.003	0.065	II
Chloroform	µg/l	11	< 0.10	0.35	2.20	0.10	0.40	II
Carbon tetrachloride	µg/l	11	< 0.10	0.18	0.70	0.10	0.30	II
Trichloroethylene	µg/l	11	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Tetrachloroethylene	µg/l	11	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	23	0.780	178.898	3500.000	9.200	138.800	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	23	0.020	0.339	1.300	0.200	0.780	
Faecal Streptococci	10 ³ CFU/100 ml	3	0.200	0.267	0.400	0.200	0.360	
Salmonella sp.	in 1 litre	3	0.0	0.0	0.0	0.0	0.0	

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	/Tisza	Catchment	138498 km ²	H08
Distance from the mouth [km]	163.0	Altitude	74 m	
Location	Tizsasziget L			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	285.0	921.4	2260.0	727.0	1708.0	
Temperature	°C	26	1.0	12.5	24.4	13.1	23.4	
Suspended Solids	mg/l	13	17	125	511	61	280	
Dissolved Oxygen	mg/l	26	6.3	9.4	13.0	8.8	6.9	II
BOD ₅	mg/l	26	0.6	1.7	3.0	1.5	2.8	I
COD _{Mn}	mg/l	26	2.4	5.1	11.2	3.9	9.9	II
COD _{Cr}	mg/l	26	12.0	20.6	31.0	20.0	29.5	III
TOC	mg/l	26	3.1	7.3	20.2	6.2	12.7	
DOC	mg/l							
pH		26	7.4	7.8	8.0	7.8	8.0	II
							7.6	II
Alkalinity	mmol/l	13	1.9	2.4	3.1	2.3	2.9	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	0.030	0.098	0.300	0.065	0.210	II
Nitrite-N (NO ₂ ⁻ -N)	mg/l	26	< 0.010	0.018	0.046	0.017	0.026	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	0.52	1.10	1.79	1.09	1.53	II
Total Nitrogen	mg/l	26	0.93	1.47	2.21	1.46	2.03	II
Organic Nitrogen	mg/l	26	0.13	0.26	0.50	0.23	0.39	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	0.020	0.063	0.121	0.061	0.087	II
Total Phosphorus	mg/l	26	0.10	0.24	0.51	0.23	0.35	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	26	1.8	16.9	163.0	5.5	33.0	II
Conductivity @ 20°C	µS/cm	26	245	373	500	391	458	
Calcium (Ca ²⁺)	mg/l	13	35.0	45.9	62.0	44.8	53.4	
Sulphate (SO ₄ ²⁻)	mg/l	13	33	46	61	48	54	
Magnesium (Mg ²⁺)	mg/l	13	5.6	8.7	11.7	8.8	10.8	
Potassium (K ⁺)	mg/l	13	2.8	3.4	4.0	3.4	3.8	
Sodium (Na ⁺)	mg/l	13	12.0	23.2	32.0	24.0	30.0	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl)	mg/l	13	17	34	52	31	48	
Zinc (Zn) - Dissolved	µg/l	13	5.0	8.2	18.0	8.0	9.0	III
Copper (Cu) - Dissolved	µg/l	13	2.0	6.9	22.0	5.0	11.6	III
Chromium (Cr) - Dissolved	µg/l	13	0.5	1.3	5.0	0.5	2.8	III
Lead (Pb) - Dissolved	µg/l	13	0.4	1.4	6.0	0.5	3.2	III
Cadmium (Cd) - Dissolved	µg/l	13	0.10	0.25	1.90	0.10	0.20	III
Mercury (Hg) - Dissolved	µg/l	12	< 0.100	0.100	0.100	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l	13	1.00	4.19	10.00	3.00	8.80	III
Arsenic (As) - Dissolved	µg/l	4	< 2.0	2.0	2.0	2.0	2.0	III
Aluminium (Al) - Dissolved	µg/l	13	9.0	23.7	55.0	17.0	49.4	
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.002	0.003	0.009	0.002	0.004	
Anionic active surfactants	mg/l	26	0.040	0.041	0.060	0.040	0.040	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	< 0.020	0.024	0.040	0.020	0.039	
Lindane	µg/l							
pp'DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	26	0.400	5.062	12.500	3.950	10.500	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	26	0.200	1.515	5.300	1.100	3.150	
Faecal Streptococci	10 ³ CFU/100 ml	26	0.030	0.382	1.900	0.265	0.675	
Salmonella sp.	in 1 litre	26	0.0	0.1	1.0	0.0	0.5	

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	/Tisza	Catchment	138498 km ²	H08
Distance from the mouth [km]	163.0	Altitude	74 m	
Location	Tizsasziget M			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	285.0	921.4	2260.0	727.0	1708.0	
Temperature	°C	26	1.0	12.5	24.5	13.1	23.3	
Suspended Solids	mg/l	13	20	113	519	64	212	
Dissolved Oxygen	mg/l	26	6.3	9.4	12.9	8.8	7.0	I
BOD ₅	mg/l	26	0.7	1.6	3.0	1.5	2.4	I
COD _{Mn}	mg/l	26	2.8	4.7	10.5	4.0	8.6	II
COD _{Cr}	mg/l	26	12.0	18.9	33.0	17.0	27.0	III
TOC	mg/l	26	2.8	7.0	19.2	6.0	12.2	
DOC	mg/l							
pH		26	7.5	7.9	8.2	7.9	8.0	II
							7.7	II
Alkalinity	mmol/l	13	1.9	2.5	3.5	2.3	3.0	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	0.030	0.098	0.300	0.060	0.210	II
Nitrite-N (NO ₂ ⁻ -N)	mg/l	26	< 0.010	0.016	0.033	0.015	0.021	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	0.54	1.08	1.90	1.07	1.40	II
Total Nitrogen	mg/l	26	0.73	1.44	2.24	1.43	1.89	II
Organic Nitrogen	mg/l	26	0.13	0.25	0.49	0.23	0.35	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	0.020	0.059	0.121	0.052	0.082	II
Total Phosphorus	mg/l	26	0.08	0.22	0.48	0.20	0.33	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	26	1.5	14.1	116.0	5.8	33.0	II
Conductivity @ 20°C	µS/cm	26	250	363	490	368	449	
Calcium (Ca ²⁺)	mg/l	13	34.0	45.6	59.0	44.3	53.4	
Sulphate (SO ₄ ²⁻)	mg/l	13	31	44	58	46	55	
Magnesium (Mg ²⁺)	mg/l	13	6.0	8.8	12.0	8.7	11.6	
Potassium (K ⁺)	mg/l	13	2.5	3.6	7.8	3.5	3.9	
Sodium (Na ⁺)	mg/l	13	12.0	22.0	32.0	22.1	29.7	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl)	mg/l	13	15	32	47	31	45	
Zinc (Zn) - Dissolved	µg/l	25	< 1.0	11.6	93.0	8.0	16.6	III
Copper (Cu) - Dissolved	µg/l	25	1.1	6.3	28.0	4.0	11.8	III
Chromium (Cr) - Dissolved	µg/l	25	< 0.1	1.5	9.4	0.5	3.4	III
Lead (Pb) - Dissolved	µg/l	25	< 0.2	1.3	15.7	0.5	2.1	III
Cadmium (Cd) - Dissolved	µg/l	25	< 0.02	0.19	2.00	0.10	0.20	III
Mercury (Hg) - Dissolved	µg/l	24	< 0.030	0.077	0.290	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l	25	0.25	3.94	18.00	3.00	7.00	III
Arsenic (As) - Dissolved	µg/l	16	< 0.5	2.0	3.9	2.0	3.0	III
Aluminium (Al) - Dissolved	µg/l	25	4.4	88.0	881.0	26.0	153.8	
Zinc (Zn)	µg/l	12	< 1.0	52.1	259.0	26.4	116.9	III
Copper (Cu)	µg/l	12	3.9	14.2	53.8	7.2	39.3	III
Chromium (Cr) - total	µg/l	12	0.5	6.2	22.4	4.5	14.6	II
Lead (Pb)	µg/l	12	1.7	11.2	59.0	6.6	18.6	IV
Cadmium (Cd)	µg/l	12	0.07	0.36	1.25	0.22	1.04	III
Mercury (Hg)	µg/l	12	< 0.030	0.122	0.660	0.070	0.120	III
Nickel (Ni)	µg/l	12	1.10	7.84	35.80	4.26	11.86	II
Arsenic (As)	µg/l	12	1.2	4.4	10.6	3.8	6.9	III
Aluminium (Al)	µg/l	12	62.7	1262.1	4800.0	1037.0	1604.0	
Phenol index	mg/l	12	0.002	0.004	0.011	0.003	0.010	
Anionic active surfactants	mg/l	26	0.040	0.042	0.080	0.040	0.040	
AOX	µg/l	10	< 10.0	24.9	45.0	23.0	35.1	II
Petroleum hydrocarbons	mg/l	23	< 0.020	0.024	0.080	0.020	0.030	
Lindane	µg/l	12	0.002	0.017	0.112	0.007	0.024	I
pp'DDT	µg/l	12	< 0.001	0.001	0.005	0.001	0.001	I
Atrazine	µg/l	12	< 0.003	0.152	1.126	0.053	0.171	III
Chloroform	µg/l	11	< 0.10	0.22	0.50	0.10	0.40	II
Carbon tetrachloride	µg/l	11	< 0.10	0.15	0.40	0.10	0.30	II
Trichloroethylene	µg/l	11	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Tetrachloroethylene	µg/l	11	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	26	0.150	12.296	100.000	6.650	21.750	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	25	0.100	2.454	15.500	1.200	5.860	
Faecal Streptococci	10 ³ CFU/100 ml	26	0.020	0.700	2.600	0.400	2.100	
Salmonella sp.	in 1 litre	26	0.0	0.3	1.0	0.0	1.0	

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	/Tisza	Catchment	138498	km ²	H08
Distance from the mouth [km]	163.0	Altitude	74	m	
Location	Tizsasziget R				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	285.0	921.4	2260.0	727.0	1708.0	
Temperature	°C	26	1.2	12.6	24.5	13.3	23.3	
Suspended Solids	mg/l	13	24	101	445	51	208	
Dissolved Oxygen	mg/l	26	6.3	9.3	12.7	8.6	6.8	II
BOD ₅	mg/l	26	0.8	1.9	3.9	2.0	2.9	I
COD _{Mn}	mg/l	26	2.6	4.9	10.7	4.3	9.1	II
COD _{Cr}	mg/l	26	12.0	18.6	31.0	17.0	25.5	III
TOC	mg/l	26	3.0	7.2	21.8	6.6	12.2	
DOC	mg/l							
pH		26	7.5	7.9	8.1	7.9	8.1	II
							7.7	II
Alkalinity	mmol/l	13	1.9	2.5	3.2	2.3	3.0	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	0.030	0.141	0.340	0.110	0.295	II
Nitrite-N (NO ₂ ⁻ -N)	mg/l	26	< 0.010	0.018	0.040	0.017	0.024	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	0.50	1.08	1.74	1.10	1.52	II
Total Nitrogen	mg/l	26	0.72	1.47	2.19	1.41	2.04	II
Organic Nitrogen	mg/l	26	0.13	0.23	0.68	0.21	0.29	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	0.020	0.067	0.134	0.062	0.101	III
Total Phosphorus	mg/l	26	0.10	0.22	0.41	0.22	0.33	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	26	2.1	12.9	84.0	4.6	36.0	II
Conductivity @ 20°C	µS/cm	26	243	353	480	357	435	
Calcium (Ca ²⁺)	mg/l	13	34.0	44.3	58.0	42.9	51.4	
Sulphate (SO ₄ ²⁻)	mg/l	13	32	44	51	43	51	
Magnesium (Mg ²⁺)	mg/l	13	6.0	9.1	11.8	9.2	11.4	
Potassium (K ⁺)	mg/l	13	2.3	3.2	3.7	3.3	3.7	
Sodium (Na ⁺)	mg/l	13	11.6	20.7	33.0	21.5	26.1	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl)	mg/l	13	13	27	43	27	37	
Zinc (Zn) - Dissolved	µg/l	13	5.0	6.2	10.0	5.0	8.8	III
Copper (Cu) - Dissolved	µg/l	13	1.0	7.0	25.0	4.5	12.4	III
Chromium (Cr) - Dissolved	µg/l	13	0.5	0.7	2.5	0.5	1.3	II
Lead (Pb) - Dissolved	µg/l	13	0.4	0.9	2.5	0.5	1.9	III
Cadmium (Cd) - Dissolved	µg/l	13	0.10	0.29	2.50	0.10	0.18	III
Mercury (Hg) - Dissolved	µg/l	12	0.100	0.100	0.100	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l	13	0.50	4.69	28.00	2.50	5.80	III
Arsenic (As) - Dissolved	µg/l	4	2.0	2.0	2.0	2.0	2.0	III
Aluminium (Al) - Dissolved	µg/l	13	6.0	23.2	50.0	18.0	47.8	
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.002	0.002	0.004	0.002	0.003	
Anionic active surfactants	mg/l	26	0.040	0.042	0.090	0.040	0.040	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	< 0.020	0.027	0.040	0.025	0.039	
Lindane	µg/l							
pp'DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	26	5.500	129.212	400.000	77.500	355.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	26	3.300	43.442	250.000	10.250	100.000	
Faecal Streptococci	10 ³ CFU/100 ml	26	0.080	2.740	20.000	1.450	6.350	
Salmonella sp.	in 1 litre	26	0.0	0.5	1.0	1.0	1.0	

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	/Tisza/Sajo	Catchment	3224	km ²	H09
Distance from the mouth [km]	124.0	Altitude	148	m	
Location	Sajopuspoki M				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	5.2	20.6	118.0	12.6	46.1	
Temperature	°C	52	0.0	10.5	22.2	10.2	18.9	
Suspended Solids	mg/l	12	8	53	272	38	70	
Dissolved Oxygen	mg/l	52	8.1	10.8	13.6	10.6	8.6	I
BOD ₅	mg/l	52	1.5	3.4	7.7	3.2	4.7	II
COD _{Mn}	mg/l	52	2.1	4.4	21.3	3.4	6.1	II
COD _{Cr}	mg/l	52	8.0	15.6	71.0	13.0	20.8	II
TOC	mg/l	52	2.6	5.0	22.1	3.9	6.2	
DOC	mg/l	52	2.1	3.4	6.0	3.2	4.7	
pH		52	7.6	7.9	8.1	7.9	8.0	II
							7.9	II
Alkalinity	mmol/l	12	2.1	2.8	3.6	2.9	3.3	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	52	0.030	0.244	1.940	0.160	0.406	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	52	0.015	0.034	0.076	0.027	0.058	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	52	0.93	1.94	4.09	1.87	2.60	II
Total Nitrogen	mg/l	52	1.56	2.65	5.00	2.58	3.57	II
Organic Nitrogen	mg/l	52	< 0.10	0.43	1.66	0.25	1.04	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	52	0.033	0.082	0.209	0.078	0.114	III
Total Phosphorus	mg/l	52	0.06	0.15	0.58	0.14	0.22	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	52	0.9	3.4	10.2	3.0	5.8	I
Conductivity @ 20°C	µS/cm	52	260	378	599	380	447	
Calcium (Ca ²⁺)	mg/l	12	39.8	56.2	71.3	55.6	69.0	
Sulphate (SO ₄ ²⁻)	mg/l	12	43	65	89	61	84	
Magnesium (Mg ²⁺)	mg/l	12	9.1	14.5	19.4	14.3	17.6	
Potassium (K ⁺)	mg/l	12	2.8	4.4	7.0	4.2	6.0	
Sodium (Na ⁺)	mg/l	12	7.9	10.0	14.2	9.7	11.7	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl)	mg/l	12	9	14	24	14	19	
Zinc (Zn) - Dissolved	µg/l	23	< 1.0	49.2	136.0	39.0	110.8	III
Copper (Cu) - Dissolved	µg/l	23	0.8	4.0	12.5	3.2	8.6	III
Chromium (Cr) - Dissolved	µg/l	23	< 0.1	0.7	1.7	0.5	1.5	II
Lead (Pb) - Dissolved	µg/l	23	< 0.2	2.1	21.0	1.5	3.0	III
Cadmium (Cd) - Dissolved	µg/l	23	< 0.02	0.06	0.10	0.10	0.10	II
Mercury (Hg) - Dissolved	µg/l	23	< 0.030	0.050	0.280	0.040	0.050	II
Nickel (Ni) - Dissolved	µg/l	23	0.40	1.66	4.10	1.40	2.74	III
Arsenic (As) - Dissolved	µg/l	13	< 0.5	1.9	5.4	1.9	2.9	III
Aluminium (Al) - Dissolved	µg/l	23	< 1.0	30.0	133.0	22.0	50.4	
Zinc (Zn)	µg/l	11	< 1.0	12.8	30.0	16.0	18.3	II
Copper (Cu)	µg/l	11	1.5	4.0	7.6	4.3	6.3	II
Chromium (Cr) - total	µg/l	11	0.8	2.2	4.3	2.2	3.6	II
Lead (Pb)	µg/l	11	0.3	3.3	7.0	2.6	6.4	III
Cadmium (Cd)	µg/l	11	< 0.02	0.04	0.10	0.03	0.10	II
Mercury (Hg)	µg/l	11	< 0.030	0.139	0.570	0.070	0.400	IV
Nickel (Ni)	µg/l	11	0.80	2.91	8.10	2.22	5.50	II
Arsenic (As)	µg/l	11	< 0.5	2.3	3.4	2.4	3.0	II
Aluminium (Al)	µg/l	11	1.2	807.9	2436.0	539.0	1744.0	
Phenol index	mg/l	12	0.002	0.002	0.002	0.002	0.002	
Anionic active surfactants	mg/l	52	< 0.020	0.021	0.029	0.020	0.022	
AOX	µg/l	11	< 10.0	17.4	31.0	14.0	24.0	II
Petroleum hydrocarbons	mg/l	22	< 0.020	0.026	0.060	0.020	0.039	
Lindane	µg/l	14	< 0.001	0.004	0.015	0.003	0.008	I
pp'DDT	µg/l	11	< 0.001	0.001	0.001	0.001	0.001	I
Atrazine	µg/l	13	< 0.003	0.049	0.213	0.011	0.100	II
Chloroform	µg/l	11	< 0.10	0.24	0.70	0.20	0.40	II
Carbon tetrachloride	µg/l	14	< 0.10	0.21	0.50	0.10	0.50	II
Trichloroethylene	µg/l	14	< 0.10	0.20	0.50	0.10	0.50	II
Tetrachloroethylene	µg/l	14	< 0.10	0.19	0.50	0.10	0.50	II
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	25	5.000	42.880	400.000	20.000	54.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	6	1.100	2.933	5.200	2.250	5.100	
Faecal Streptococci	10 ³ CFU/100 ml	6	0.000	0.373	1.120	0.250	0.860	
Salmonella sp.	in 1 litre	6	0.0	0.2	1.0	0.0	0.5	

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	/Drava	Catchment	15356	km ²	SI01
Distance from the mouth [km]	300.0	Altitude	192	m	
Location	Ormoz L				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	11.7	294.4	883.5	281.8	475.6	
Temperature	°C	24	2.4	10.7	20.7	12.0	17.1	
Suspended Solids	mg/l	24	2	11	55	7	16	
Dissolved Oxygen	mg/l	24	9.2	11.3	14.4	11.4	9.5	I
BOD ₅	mg/l	24	1.1	2.2	4.9	2.0	3.3	II
COD _{Mn}	mg/l	24	1.3	1.9	3.3	1.8	3.0	I
COD _{Cr}	mg/l	24	< 2.8	6.7	10.0	6.5	10.0	I
TOC	mg/l							
DOC	mg/l							
pH		24	7.4	7.9	8.3	8.0	8.2	II
							7.7	II
Alkalinity	mmol/l	24	1.6	2.2	2.7	2.4	2.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	24	< 0.020	0.040	0.078	0.039	0.060	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	24	0.005	0.009	0.015	0.009	0.011	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	24	0.62	0.97	1.32	1.00	1.27	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	24	< 0.003	0.012	0.027	0.011	0.020	I
Total Phosphorus	mg/l							
Total Phosphorus - Dissolved	mg/l	24	0.01	0.02	0.05	0.02	0.03	
Chlorophyll-a	µg/l	10	1.0	2.5	6.3	2.2	4.4	I
Conductivity @ 20°C	µS/cm	24	177	242	286	260	280	
Calcium (Ca ²⁺)	mg/l	24	27.9	37.7	45.3	40.4	43.2	
Sulphate (SO ₄ ²⁻)	mg/l	24	16	22	29	22	29	
Magnesium (Mg ²⁺)	mg/l	24	6.5	9.7	11.7	10.3	11.6	
Potassium (K ⁺)	mg/l	24	1.0	1.4	1.9	1.4	1.7	
Sodium (Na ⁺)	mg/l	24	3.1	4.4	6.0	4.6	5.6	
Manganese (Mn)	mg/l	24	< 0.006	0.008	0.015	0.008	0.012	
Iron (Fe)	mg/l	24	0.020	0.043	0.110	0.040	0.067	
Chloride (Cl)	mg/l	24	2	4	5	5	5	
Zinc (Zn) - Dissolved	µg/l	24	< 4.0	4.6	9.0	4.0	6.7	III
Copper (Cu) - Dissolved	µg/l	24	< 0.2	0.4	1.0	0.2	0.7	II
Chromium (Cr) - Dissolved	µg/l	24	< 0.4	< 0.4	< 0.4	0.4	0.4	II
Lead (Pb) - Dissolved	µg/l	24	< 0.8	0.8	1.3	0.8	0.8	II
Cadmium (Cd) - Dissolved	µg/l	24	< 0.03	0.03	0.08	0.03	0.03	II
Mercury (Hg) - Dissolved	µg/l	24	< 0.500	< 0.500	< 0.500	0.500	0.500	**
Nickel (Ni) - Dissolved	µg/l	24	< 0.90	0.93	1.40	0.90	0.90	II
Arsenic (As) - Dissolved	µg/l	24	< 4.0	< 4.0	< 4.0	4.0	4.0	**
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	24	< 4.0	10.0	54.0	6.0	19.6	II
Copper (Cu)	µg/l	24	< 0.2	0.4	1.0	0.2	0.7	II
Chromium (Cr) - total	µg/l	24	< 0.4	0.6	2.1	0.4	1.2	II
Lead (Pb)	µg/l	24	< 0.8	2.8	19.9	1.7	5.4	III
Cadmium (Cd)	µg/l	24	< 0.03	0.05	0.27	0.03	0.03	II
Mercury (Hg)	µg/l	24	< 0.500	< 0.500	< 0.500	0.500	0.500	**
Nickel (Ni)	µg/l	24	< 0.90	1.08	3.00	0.90	1.47	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l	24	20.0	29.2	80.0	30.0	40.0	
Phenol index	mg/l	24	< 0.001	0.004	0.006	0.004	0.005	
Anionic active surfactants	mg/l	24	< 0.010	0.012	0.020	0.010	0.020	
AOX	µg/l	2	4.0	4.5	5.0	4.5	4.9	I
Petroleum hydrocarbons	mg/l	12	< 0.005	0.006	0.011	0.005	0.011	
Lindane	µg/l	2	< 0.002	< 0.002	< 0.002	0.002	0.002	I
pp'DDT	µg/l	2	< 0.004	< 0.004	< 0.004	0.004	0.004	II
Atrazine	µg/l	2	< 0.030	< 0.030	< 0.030	0.030	0.030	II
Chloroform	µg/l	1	< 1.00	< 1.00	< 1.00	1.00	1.00	**
Carbon tetrachloride	µg/l	1	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Trichloroethylene	µg/l	1	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Tetrachloroethylene	µg/l	1	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Macrozoobenthos	sapr.index	2	2.25	2.30	2.35	2.30	2.34	
Macrozoobenthos	no of taxa	2	19	20	20	20	20	
Total Coliforms (37°C)	10 ³ CFU/100 ml	23	2.000	7.780	50.000	4.000	9.800	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	23	0.100	1.387	4.600	1.100	2.100	
Faecal Streptococci	10 ³ CFU/100 ml	23	0.000	0.683	5.000	0.300	1.040	
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	/Sava	Catchment	10878	km ²	SI02
Distance from the mouth [km]	729.0	Altitude	135	m	
Location	Jesenice R				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	52.7	276.8	1548.2	218.9	544.7	
Temperature	°C	24	3.1	13.2	24.2	12.4	22.1	
Suspended Solids	mg/l	24	1	31	216	7	83	
Dissolved Oxygen	mg/l	24	8.6	10.7	13.9	10.9	8.9	I
BOD ₅	mg/l	24	1.3	2.8	4.3	2.7	3.9	II
COD _{Mn}	mg/l	24	1.6	3.7	5.8	3.5	5.4	II
COD _{Cr}	mg/l	24	5.0	12.8	41.0	11.0	16.7	II
TOC	mg/l							
DOC	mg/l							
pH		24	7.5	7.8	8.1	7.9	8.0	II
							7.6	II
Alkalinity	mmol/l	24	2.8	3.6	4.1	3.6	4.0	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	24	< 0.020	0.043	0.101	0.027	0.084	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	24	0.006	0.020	0.044	0.018	0.035	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	24	1.08	1.38	1.93	1.27	1.64	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	24	0.017	0.056	0.133	0.048	0.078	II
Total Phosphorus	mg/l							
Total Phosphorus - Dissolved	mg/l	24	0.04	0.07	0.15	0.07	0.10	
Chlorophyll-a	µg/l	1	1.1	1.1	1.1	1.1	1.1	I
Conductivity @ 20°C	µS/cm	24	273	341	425	348	389	
Calcium (Ca ²⁺)	mg/l	24	46.3	57.2	66.6	57.4	64.9	
Sulphate (SO ₄ ²⁻)	mg/l	24	10	17	30	16	22	
Magnesium (Mg ²⁺)	mg/l	24	9.1	13.8	18.0	14.1	16.2	
Potassium (K ⁺)	mg/l	24	0.8	1.2	1.9	1.2	1.4	
Sodium (Na ⁺)	mg/l	24	2.9	5.2	8.6	5.4	7.2	
Manganese (Mn)	mg/l	24	< 0.006	0.010	0.029	0.006	0.017	
Iron (Fe)	mg/l	24	< 0.014	0.046	0.100	0.040	0.060	
Chloride (Cl ⁻)	mg/l	24	3	6	10	6	8	
Zinc (Zn) - Dissolved	µg/l	24	< 4.0	4.2	7.0	4.0	4.0	II
Copper (Cu) - Dissolved	µg/l	24	< 0.2	0.8	5.0	0.6	1.3	II
Chromium (Cr) - Dissolved	µg/l	24	< 0.4	0.4	0.8	0.4	0.4	II
Lead (Pb) - Dissolved	µg/l	24	< 0.8	0.8	1.0	0.8	0.8	II
Cadmium (Cd) - Dissolved	µg/l	24	< 0.03	< 0.03	< 0.03	0.03	0.03	II
Mercury (Hg) - Dissolved	µg/l	24	< 0.500	< 0.500	< 0.500	0.500	0.500	**
Nickel (Ni) - Dissolved	µg/l	24	< 0.90	1.28	5.20	0.90	1.98	III
Arsenic (As) - Dissolved	µg/l	24	< 4.0	< 4.0	< 4.0	4.0	4.0	**
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	24	< 4.0	5.8	30.0	4.0	7.7	II
Copper (Cu)	µg/l	24	< 0.2	0.8	5.0	0.6	1.3	II
Chromium (Cr) - total	µg/l	24	< 0.4	0.6	2.3	0.4	1.2	II
Lead (Pb)	µg/l	24	< 0.8	1.0	4.8	0.8	0.9	II
Cadmium (Cd)	µg/l	24	< 0.03	< 0.03	< 0.03	0.03	0.03	II
Mercury (Hg)	µg/l	24	< 0.500	< 0.500	< 0.500	0.500	0.500	**
Nickel (Ni)	µg/l	24	< 0.90	1.82	7.70	0.90	5.01	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l	24	10.0	31.7	50.0	30.0	40.0	
Phenol index	mg/l	24	0.002	0.007	0.018	0.007	0.011	
Anionic active surfactants	mg/l	24	< 0.010	0.025	0.040	0.020	0.040	
AOX	µg/l	2	12.0	81.0	150.0	81.0	136.2	IV
Petroleum hydrocarbons	mg/l	13	< 0.005	0.023	0.062	0.017	0.048	
Lindane	µg/l	2	< 0.002	< 0.002	< 0.002	0.002	0.002	I
pp'DDT	µg/l	2	< 0.004	< 0.004	< 0.004	0.004	0.004	II
Atrazine	µg/l	2	< 0.030	< 0.030	< 0.030	0.030	0.030	II
Chloroform	µg/l	1	4.70	4.70	4.70	4.70	4.70	V
Carbon tetrachloride	µg/l	1	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Trichloroethylene	µg/l	1	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Tetrachloroethylene	µg/l	1	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Macrozoobenthos	sapr.index	3	2.32	2.47	2.59	2.49	2.57	
Macrozoobenthos	no of taxa	3	17	22	25	24	25	
Total Coliforms (37°C)	10 ³ CFU/100 ml	24	0.600	7.838	30.000	3.450	22.500	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	24	0.000	1.871	10.000	0.800	4.140	
Faecal Streptococci	10 ³ CFU/100 ml	24	0.000	0.900	7.000	0.200	2.290	
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	210250 km ²	HR01
Distance from the mouth [km]	1429.0	Altitude	86 m	
Location	Batina M			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	9	1270.0	2126.7	3000.0	2250.0	2768.0	
Temperature	°C	12	3.5	12.6	24.4	11.9	20.9	
Suspended Solids	mg/l	12	9	28	59	27	48	
Dissolved Oxygen	mg/l	12	8.5	11.4	12.9	11.6	10.5	I
BOD ₅	mg/l	12	1.0	4.8	7.4	4.8	7.1	III
COD _{Mn}	mg/l	12	2.2	3.7	4.8	4.0	4.6	I
COD _{Cr}	mg/l	12	8.5	15.2	22.0	15.5	18.0	II
TOC	mg/l							
DOC	mg/l							
pH		12	7.7	8.2	8.7	8.2	8.6	III
							7.8	II
Alkalinity	mmol/l	12	2.0	3.1	3.9	3.3	3.7	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.020	0.073	0.170	0.045	0.170	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.023	0.040	0.020	0.040	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.54	2.27	3.62	2.08	3.40	III
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l	12	0.04	0.28	0.65	0.25	0.60	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.003	0.017	0.055	0.015	0.026	I
Total Phosphorus	mg/l	12	0.03	0.13	0.27	0.12	0.19	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	286	394	551	382	482	
Calcium (Ca ²⁺)	mg/l	12	38.0	58.6	78.0	56.5	72.0	
Sulphate (SO ₄ ²⁻)	mg/l	12	13	37	64	35	49	
Magnesium (Mg ²⁺)	mg/l	12	12.5	17.2	22.0	17.0	21.9	
Potassium (K ⁺)	mg/l	12	1.8	2.7	3.5	2.6	3.3	
Sodium (Na ⁺)	mg/l	12	8.0	13.2	24.0	12.3	16.9	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl)	mg/l	12	11	18	25	18	23	
Zinc (Zn) - Dissolved	µg/l							
Copper (Cu) - Dissolved	µg/l							
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l							
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	< 0.001	0.003	0.007	0.003	0.005	
Anionic active surfactants	mg/l	12	0.010	0.034	0.050	0.035	0.050	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	0.007	0.047	0.107	0.048	0.079	
Lindane	µg/l	12	< 0.010	0.010	0.010	0.010	0.010	I
pp'DDT	µg/l	12	< 0.010	0.017	0.030	0.020	0.029	IV
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index	12	1.87	2.33	2.61	2.38	2.60	III
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	0.000	2.700	11.000	1.450	6.340	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	243147 km ²	HR02
Distance from the mouth [km]	1337.0	Altitude	89 m	
Location	Borovo R			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	26	1.0	11.5	22.0	11.5	20.0	
Suspended Solids	mg/l	26	2	55	146	50	101	
Dissolved Oxygen	mg/l	26	8.4	11.0	13.5	11.2	8.9	I
BOD ₅	mg/l	26	2.9	4.8	7.6	4.5	6.5	III
COD _{Mn}	mg/l	26	2.1	4.8	40.9	3.3	4.7	I
COD _{Cr}	mg/l	26	3.6	12.2	50.1	10.2	18.3	II
TOC	mg/l							
DOC	mg/l							
pH		26	7.4	7.9	8.4	7.9	8.3	II
							7.5	II
Alkalinity	mmol/l	26	1.0	1.6	2.5	1.5	1.9	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	< 0.010	0.113	0.290	0.070	0.190	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	26	0.005	0.014	0.066	0.012	0.019	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	0.68	2.16	3.62	2.26	3.05	III
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l	26	0.08	0.23	0.46	0.22	0.36	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	0.006	0.030	0.068	0.030	0.053	II
Total Phosphorus	mg/l	26	0.06	0.15	0.33	0.13	0.26	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	26	254	351	477	344	453	
Calcium (Ca ²⁺)	mg/l	12	38.0	51.0	64.1	51.3	61.6	
Sulphate (SO ₄ ²⁻)	mg/l							
Magnesium (Mg ²⁺)	mg/l	12	9.9	12.4	15.0	11.9	14.9	
Potassium (K ⁺)	mg/l	12	1.8	2.7	3.5	2.8	3.4	
Sodium (Na ⁺)	mg/l	12	8.4	13.9	19.8	13.6	19.2	
Manganese (Mn)	mg/l	12	0.006	0.017	0.037	0.016	0.023	
Iron (Fe)	mg/l	12	0.041	0.107	0.335	0.087	0.168	
Chloride (Cl)	mg/l							
Zinc (Zn) - Dissolved	µg/l							
Copper (Cu) - Dissolved	µg/l							
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l							
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	12	5.3	10.3	26.0	8.1	13.0	II
Copper (Cu)	µg/l	12	1.5	2.7	5.2	2.5	4.6	II
Chromium (Cr) - total	µg/l	12	0.2	0.4	1.6	0.3	0.5	II
Lead (Pb)	µg/l	12	0.0	0.5	0.7	0.5	0.7	II
Cadmium (Cd)	µg/l	12	0.01	0.05	0.14	0.05	0.08	II
Mercury (Hg)	µg/l	12	< 0.010	0.053	0.370	0.025	0.049	II
Nickel (Ni)	µg/l	12	0.16	0.85	1.46	0.86	1.14	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	< 0.001	0.002	0.008	0.001	0.002	
Anionic active surfactants	mg/l	12	< 0.010	0.019	0.060	0.010	0.030	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	< 0.005	0.051	0.111	0.058	0.078	
Lindane	µg/l	12	< 0.010	< 0.010	< 0.010	0.010	0.010	I
pp'DDT	µg/l	12	< 0.010	< 0.010	< 0.010	0.010	0.010	II
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index	2	2.02	2.03	2.04	2.03	2.04	II
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	0.013	1.339	7.900	0.445	2.300	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	12	0.000	0.074	0.240	0.003	0.240	
Faecal Streptococci	10 ³ CFU/100 ml	12	0.000	0.001	0.001	0.001	0.001	
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	/Drava	Catchment	15616	km ²	HR03
Distance from the mouth [km]	288.0	Altitude	169	m	
Location	Varazdin M				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	12	3.8	11.0	21.3	12.0	17.4	
Suspended Solids	mg/l	12	7	24	69	20	39	
Dissolved Oxygen	mg/l	12	6.5	10.0	12.7	10.5	8.5	I
BOD ₅	mg/l	12	0.3	1.7	2.8	1.8	2.5	I
COD _{Mn}	mg/l	12	0.7	2.0	5.3	1.8	3.0	I
COD _{Cr}	mg/l	12	3.4	5.8	11.0	5.1	8.7	I
TOC	mg/l							
DOC	mg/l							
pH		12	6.9	7.7	8.0	7.8	8.0	II
							7.6	II
Alkalinity	mmol/l	12	0.9	1.5	2.0	1.4	2.0	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	< 0.010	0.033	0.063	0.032	0.059	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.008	0.012	0.020	0.011	0.019	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.51	1.00	1.48	1.06	1.32	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l	6	0.16	0.43	0.68	0.46	0.65	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.003	0.005	0.016	0.003	0.009	I
Total Phosphorus	mg/l	12	0.01	0.06	0.19	0.04	0.11	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	190	259	321	265	305	
Calcium (Ca ²⁺)	mg/l	12	28.0	41.0	52.0	42.5	49.6	
Sulphate (SO ₄ ²⁻)	mg/l	12	12	23	35	24	31	
Magnesium (Mg ²⁺)	mg/l	12	5.6	8.7	12.0	9.0	10.9	
Potassium (K ⁺)	mg/l	12	1.1	1.5	2.3	1.5	1.9	
Sodium (Na ⁺)	mg/l	12	2.7	4.7	10.6	4.3	5.6	
Manganese (Mn)	mg/l	12	0.007	0.021	0.060	0.016	0.037	
Iron (Fe)	mg/l	12	0.108	0.525	2.000	0.221	1.223	
Chloride (Cl)	mg/l	12	2	5	7	6	7	
Zinc (Zn) - Dissolved	µg/l							
Copper (Cu) - Dissolved	µg/l							
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l							
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	12	10.0	24.5	53.0	19.5	46.2	II
Copper (Cu)	µg/l	12	2.9	5.3	9.5	4.6	7.7	II
Chromium (Cr) - total	µg/l	12	0.3	0.8	2.1	0.8	1.3	II
Lead (Pb)	µg/l	12	2.5	5.1	8.8	4.9	6.1	III
Cadmium (Cd)	µg/l	12	0.08	0.34	0.94	0.23	0.64	II
Mercury (Hg)	µg/l	12	< 0.010	0.026	0.052	0.022	0.050	II
Nickel (Ni)	µg/l	12	2.30	4.83	7.60	5.15	6.44	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.001	0.002	0.007	0.002	0.003	
Anionic active surfactants	mg/l	12	0.010	0.013	0.030	0.010	0.020	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	0.040	0.058	0.095	0.053	0.085	
Lindane	µg/l	12	< 0.002	0.003	0.009	0.002	0.004	I
pp'DDT	µg/l	12	< 0.003	0.017	0.050	0.012	0.041	IV
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index	2	1.96	1.99	2.02	1.99	2.01	II
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	0.230	5.611	11.000	4.600	11.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	/Drava	Catchment	31038	km ²	HR04
Distance from the mouth [km]	227.0	Altitude	123	m	
Location	Botovo M				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	12	3.3	12.3	22.7	12.5	19.5	
Suspended Solids	mg/l	12	3	14	34	12	23	
Dissolved Oxygen	mg/l	12	7.5	9.7	12.2	9.5	8.1	I
BOD ₅	mg/l	12	0.5	1.7	3.4	1.6	3.0	I
COD _{Mn}	mg/l	12	1.2	2.6	4.5	2.6	3.0	I
COD _{Cr}	mg/l	12	4.5	6.8	10.0	6.8	8.3	I
TOC	mg/l							
DOC	mg/l							
pH		12	7.7	8.0	8.4	7.9	8.2	II
							7.7	II
Alkalinity	mmol/l	12	1.9	2.9	4.4	2.7	4.3	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	10	0.009	0.033	0.080	0.025	0.067	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.008	0.015	0.022	0.015	0.020	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.81	1.13	1.58	1.14	1.42	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.003	0.007	0.016	0.007	0.010	I
Total Phosphorus	mg/l	12	0.03	0.06	0.08	0.06	0.08	I
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	211	286	359	287	325	
Calcium (Ca ²⁺)	mg/l	12	32.6	44.0	56.0	43.7	52.5	
Sulphate (SO ₄ ²⁻)	mg/l	12	19	30	42	29	37	
Magnesium (Mg ²⁺)	mg/l	12	6.0	10.6	16.7	11.0	13.1	
Potassium (K ⁺)	mg/l	12	1.4	1.8	2.5	1.9	2.2	
Sodium (Na ⁺)	mg/l	12	4.1	7.3	12.1	7.3	9.8	
Manganese (Mn)	mg/l	12	0.007	0.014	0.025	0.011	0.024	
Iron (Fe)	mg/l	12	0.014	0.024	0.036	0.022	0.030	
Chloride (Cl)	mg/l	12	5	10	15	9	15	
Zinc (Zn) - Dissolved	µg/l							
Copper (Cu) - Dissolved	µg/l							
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l							
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	12	8.0	12.1	23.0	10.0	17.9	II
Copper (Cu)	µg/l	12	1.0	2.4	3.7	2.5	3.4	II
Chromium (Cr) - total	µg/l	12	0.2	0.6	2.0	0.5	0.7	II
Lead (Pb)	µg/l	7	1.1	2.4	3.7	2.2	3.4	II
Cadmium (Cd)	µg/l	6	0.05	0.12	0.30	0.08	0.23	II
Mercury (Hg)	µg/l	2	0.022	0.056	0.090	0.056	0.083	II
Nickel (Ni)	µg/l	12	0.40	2.34	4.20	2.50	3.79	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	11	0.001	0.002	0.003	0.002	0.003	
Anionic active surfactants	mg/l	12	0.010	0.026	0.068	0.019	0.047	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	0.020	0.062	0.098	0.065	0.089	
Lindane	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	8	0.430	2.958	4.600	3.500	4.600	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	/Drava	Catchment	37142	km ²	HR05
Distance from the mouth [km]	78.0	Altitude	92	m	
Location	D. Miholjac R				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	12	2.1	13.4	24.5	13.4	21.7	
Suspended Solids	mg/l	12	5	15	30	15	19	
Dissolved Oxygen	mg/l	12	8.6	10.1	12.1	9.9	8.8	I
BOD ₅	mg/l	12	0.5	1.8	3.4	1.6	2.7	I
COD _{Mn}	mg/l	12	1.2	2.6	3.7	2.7	3.0	I
COD _{Cr}	mg/l	12	3.5	6.1	8.0	6.0	7.6	I
TOC	mg/l							
DOC	mg/l							
pH		12	7.7	8.1	8.8	8.1	8.3	II
							7.8	II
Alkalinity	mmol/l	12	2.0	3.0	4.6	2.8	4.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	8	0.003	0.044	0.140	0.030	0.084	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.006	0.013	0.031	0.010	0.018	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.57	1.12	1.70	1.08	1.51	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.003	0.009	0.019	0.010	0.016	I
Total Phosphorus	mg/l	12	0.04	0.07	0.10	0.08	0.10	I
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	234	291	393	282	340	
Calcium (Ca ²⁺)	mg/l	12	33.3	46.2	58.8	44.0	58.6	
Sulphate (SO ₄ ²⁻)	mg/l	12	18	31	46	33	37	
Magnesium (Mg ²⁺)	mg/l	12	7.7	10.3	13.7	10.0	13.2	
Potassium (K ⁺)	mg/l	12	1.5	1.8	2.4	1.8	2.2	
Sodium (Na ⁺)	mg/l	12	4.9	7.2	11.8	6.8	9.4	
Manganese (Mn)	mg/l	12	0.008	0.016	0.050	0.012	0.025	
Iron (Fe)	mg/l	12	0.018	0.032	0.077	0.029	0.045	
Chloride (Cl)	mg/l	12	6	10	15	9	14	
Zinc (Zn) - Dissolved	µg/l							
Copper (Cu) - Dissolved	µg/l							
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l							
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	12	8.0	13.1	27.0	11.0	24.0	II
Copper (Cu)	µg/l	12	1.0	2.7	5.2	2.4	4.4	II
Chromium (Cr) - total	µg/l	12	0.3	0.5	1.2	0.5	0.9	II
Lead (Pb)	µg/l	7	1.1	2.5	3.4	2.7	3.3	II
Cadmium (Cd)	µg/l	5	0.05	0.16	0.39	0.11	0.30	II
Mercury (Hg)	µg/l	1	0.100	0.100	0.100	0.100	0.100	II
Nickel (Ni)	µg/l	12	0.20	2.33	5.00	2.40	4.29	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.001	0.002	0.004	0.002	0.004	
Anionic active surfactants	mg/l	11	0.010	0.026	0.054	0.030	0.034	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	0.020	0.055	0.087	0.055	0.083	
Lindane	µg/l							
pp DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	8	0.390	4.178	11.000	2.250	11.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	/Sava	Catchment	10834	km ²	HR06
Distance from the mouth [km]	729.0	Altitude	135	m	
Location	Jesenice L				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	32.7	188.2	1137.0	130.0	376.6	
Temperature	°C	26	2.9	13.5	23.8	13.0	22.6	
Suspended Solids	mg/l	26	1	13	134	4	21	
Dissolved Oxygen	mg/l	26	4.3	9.4	11.5	9.8	7.6	I
BOD ₅	mg/l	26	1.0	2.2	4.7	2.0	3.7	II
COD _{Mn}	mg/l	26	2.2	3.8	10.1	3.6	5.3	II
COD _{Cr}	mg/l	26	4.9	10.7	26.5	9.8	14.7	II
TOC	mg/l							
DOC	mg/l	12	1.5	2.3	3.0	2.3	2.8	
pH		26	7.3	7.9	8.3	8.0	8.1	II
							7.7	II
Alkalinity	mmol/l	26	1.6	2.0	3.0	1.9	2.3	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	0.007	0.069	0.370	0.055	0.100	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	26	0.016	0.038	0.125	0.032	0.050	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	0.40	1.49	3.20	1.40	2.25	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l	26	0.02	0.21	1.87	0.07	0.53	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	0.007	0.026	0.049	0.026	0.033	I
Total Phosphorus	mg/l	26	0.07	0.17	0.61	0.15	0.23	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	26	232	400	540	394	488	
Calcium (Ca ²⁺)	mg/l	12	38.8	55.5	79.2	54.6	59.6	
Sulphate (SO ₄ ²⁻)	mg/l	12	7	16	25	16	22	
Magnesium (Mg ²⁺)	mg/l	12	12.5	16.0	22.5	15.9	19.1	
Potassium (K ⁺)	mg/l	12	0.8	1.2	2.2	1.3	1.5	
Sodium (Na ⁺)	mg/l	12	3.1	4.7	8.1	4.4	6.6	
Manganese (Mn)	mg/l	12	< 0.02	0.078	0.710	0.020	0.020	
Iron (Fe)	mg/l	12	< 0.01	0.049	0.200	0.010	0.143	
Chloride (Cl)	mg/l	12	5	7	19	7	9	
Zinc (Zn) - Dissolved	µg/l							
Copper (Cu) - Dissolved	µg/l							
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l							
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	12	12.0	23.6	55.0	19.0	40.8	II
Copper (Cu)	µg/l	12	4.2	8.4	13.7	6.9	13.4	II
Chromium (Cr) - total	µg/l	12	0.8	1.9	6.4	1.4	2.1	II
Lead (Pb)	µg/l	12	2.6	5.5	8.2	5.6	6.8	III
Cadmium (Cd)	µg/l	12	0.1	0.40	1.32	0.33	0.71	II
Mercury (Hg)	µg/l	12	0.025	0.051	0.105	0.046	0.078	II
Nickel (Ni)	µg/l	12	4.30	6.12	8.40	5.80	8.16	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	< 0.001	0.001	0.003	0.001	0.001	
Anionic active surfactants	mg/l	12	< 0.010	0.024	0.048	0.023	0.040	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	26	0.040	0.109	0.190	0.100	0.170	
Lindane	µg/l							
pp'DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index	2	2.10	2.16	2.22	2.16	2.21	II
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	26	0.910	29.632	460.000	4.450	26.500	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	26	0.023	1.097	11.000	0.315	3.350	
Faecal Streptococci	10 ³ CFU/100 ml	26	0.043	3.603	24.000	0.930	14.000	
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	/Sava	Catchment	29585	km ²	HR07
Distance from the mouth [km]	525.0	Altitude	87	m	
Location	us. Una Jasenovac L				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	127.0	585.0	1711.0	387.0	1328.8	
Temperature	°C	26	3.0	14.3	26.0	15.5	25.0	
Suspended Solids	mg/l	26	1	12	31	10	20	
Dissolved Oxygen	mg/l	26	5.6	8.9	11.4	9.2	6.7	II
BOD ₅	mg/l	26	0.9	2.5	5.3	2.1	4.6	II
COD _{Mn}	mg/l	26	1.9	4.0	6.1	4.1	5.3	II
COD _{Cr}	mg/l	26	2.8	6.0	9.2	6.1	8.3	I
TOC	mg/l							
DOC	mg/l							
pH		26	7.1	7.4	8.3	7.3	7.8	II
							7.1	II
Alkalinity	mmol/l	26	2.4	3.5	4.3	3.5	3.9	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	0.050	0.182	0.480	0.160	0.285	II
Nitrite-N (NO ₂ ⁻ -N)	mg/l	26	0.012	0.035	0.106	0.028	0.053	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	0.42	0.79	1.35	0.71	1.13	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l	26	0.35	0.62	1.33	0.63	0.77	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	0.013	0.040	0.121	0.029	0.070	II
Total Phosphorus	mg/l	26	0.09	0.23	0.55	0.20	0.42	IV
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	26	269	378	472	381	451	
Calcium (Ca ²⁺)	mg/l	12	47.1	59.0	70.1	60.1	65.1	
Sulphate (SO ₄ ²⁻)	mg/l	12	13	20	26	19	26	
Magnesium (Mg ²⁺)	mg/l	12	9.7	14.2	19.5	13.4	18.7	
Potassium (K ⁺)	mg/l	11	0.1	1.5	2.6	1.4	2.4	
Sodium (Na ⁺)	mg/l	12	3.0	6.0	11.1	5.3	8.2	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l	12	0.148	0.413	1.190	0.352	0.600	
Chloride (Cl)	mg/l	12	5	8	13	7	11	
Zinc (Zn) - Dissolved	µg/l							
Copper (Cu) - Dissolved	µg/l							
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l							
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	12	< 1.0	2.5	12.0	1.0	7.3	II
Copper (Cu)	µg/l	12	< 2.0	2.2	3.3	2.0	3.0	II
Chromium (Cr) - total	µg/l	12	< 1.0	1.4	2.5	1.0	2.3	II
Lead (Pb)	µg/l	12	< 2.0	3.1	9.0	2.0	7.1	III
Cadmium (Cd)	µg/l	12	< 0.25	< 0.25	< 0.25	0.25	0.25	II
Mercury (Hg)	µg/l	12	< 0.010	0.015	0.050	0.010	0.020	II
Nickel (Ni)	µg/l	12	< 2.50	2.90	5.30	2.50	4.25	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.002	0.006	0.011	0.005	0.010	
Anionic active surfactants	mg/l	12	0.015	0.067	0.160	0.053	0.119	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	26	< 0.005	0.036	0.091	0.035	0.066	
Lindane	µg/l							
pp'DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index	1	2.08	2.08	2.08	2.08	2.08	II
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	26	0.220	16.217	240.000	2.700	24.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	26	0.000	0.723	3.800	0.230	1.500	
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	/Sava	Catchment	62890	km ²	HR08
Distance from the mouth [km]	254.0	Altitude	85	m	
Location	ds. Zupanja R				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	264.0	1102.4	2776.0	1034.0	1933.0	
Temperature	°C	26	0.0	13.6	26.0	13.8	23.0	
Suspended Solids	mg/l	26	7	38	146	22	88	
Dissolved Oxygen	mg/l	26	6.7	8.7	11.2	8.7	6.9	II
BOD ₅	mg/l	26	1.5	2.5	4.0	2.5	3.5	II
COD _{Mn}	mg/l	26	1.9	4.0	7.4	3.8	5.7	II
COD _{Cr}	mg/l	26	9.1	14.1	22.3	11.9	19.7	II
TOC	mg/l							
DOC	mg/l							
pH		26	7.8	8.0	8.3	8.0	8.1	II
							7.9	II
Alkalinity	mmol/l	26	1.3	1.8	2.0	1.8	2.0	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	0.054	0.235	0.641	0.205	0.351	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	26	0.004	0.017	0.028	0.017	0.025	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	0.41	1.43	1.87	1.52	1.74	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l	26	0.32	1.14	2.60	1.06	1.91	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	0.004	0.016	0.035	0.014	0.030	I
Total Phosphorus	mg/l	26	0.04	0.22	1.03	0.13	0.41	IV
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	26	310	402	628	397	485	
Calcium (Ca ²⁺)	mg/l	12	40.0	64.8	75.0	68.0	73.6	
Sulphate (SO ₄ ²⁻)	mg/l	12	19	34	59	32	55	
Magnesium (Mg ²⁺)	mg/l	12	7.3	14.1	25.4	12.4	24.8	
Potassium (K ⁺)	mg/l	12	0.8	1.5	3.1	1.3	1.9	
Sodium (Na ⁺)	mg/l	12	3.9	9.0	21.1	7.3	16.6	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l	12	0.090	0.930	3.700	0.510	1.979	
Chloride (Cl)	mg/l	12	7	15	29	12	27	
Zinc (Zn) - Dissolved	µg/l							
Copper (Cu) - Dissolved	µg/l							
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l							
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	12	< 0.8	11.1	30.0	10.0	20.0	II
Copper (Cu)	µg/l	12	< 0.02	< 0.02	< 0.02	0.0	0.0	II
Chromium (Cr) - total	µg/l	12	< 0.1	< 0.1	< 0.1	0.1	0.1	II
Lead (Pb)	µg/l	12	< 0.05	< 0.05	< 0.05	0.1	0.1	II
Cadmium (Cd)	µg/l	12	< 5.00	< 5.00	< 5.00	5.00	5.00	**
Mercury (Hg)	µg/l	12	< 0.100	0.394	1.600	0.230	0.724	V
Nickel (Ni)	µg/l	12	< 0.50	< 0.50	< 0.50	0.50	0.50	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	< 0.001	0.003	0.010	0.001	0.008	
Anionic active surfactants	mg/l	12	0.010	0.044	0.120	0.040	0.079	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	26	0.010	0.037	0.101	0.028	0.066	
Lindane	µg/l							
pp'DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index	1	2.23	2.23	2.23	2.23	2.23	II
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	26	0.910	9.216	46.000	4.300	24.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	26	0.091	1.621	11.000	0.920	3.350	
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	210250 km ²	SCG01
Distance from the mouth [km]	1427.0	Altitude	83.15 m	
Location	Bezdan L			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	12	1690.0	2551.3	4562.0	2395.0	3187.0	
Temperature	°C	12	3.2	12.9	25.2	13.3	21.9	
Suspended Solids	mg/l	12	2	37	71	40	62	
Dissolved Oxygen	mg/l	12	8.8	11.1	12.4	11.3	9.3	I
BOD ₅	mg/l	12	1.1	2.7	4.9	2.6	4.0	II
COD _{Mn}	mg/l	12	3.6	4.8	7.1	4.6	5.7	II
COD _{Cr}	mg/l							
TOC	mg/l							
DOC	mg/l							
pH		12	7.8	8.2	8.5	8.2	8.4	II
							7.9	II
Alkalinity	mmol/l	12	2.1	3.0	3.6	3.2	3.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.020	0.122	0.370	0.100	0.196	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.005	0.021	0.038	0.016	0.036	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.53	2.02	3.04	2.11	2.93	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.005	0.045	0.084	0.044	0.076	II
Total Phosphorus	mg/l	12	0.08	0.12	0.16	0.11	0.16	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	291	377	460	374	435	
Calcium (Ca ²⁺)	mg/l	12	37.7	54.6	66.4	56.1	63.7	
Sulphate (SO ₄ ²⁻)	mg/l	12	18	35	46	36	41	
Magnesium (Mg ²⁺)	mg/l	12	9.2	12.9	17.2	12.7	16.1	
Potassium (K ⁺)	mg/l	12	1.8	2.4	3.5	2.4	3.0	
Sodium (Na ⁺)	mg/l	12	9.0	12.2	16.2	12.2	15.0	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl)	mg/l	12	16	20	25	19	25	
Zinc (Zn) - Dissolved	µg/l	12	4.0	30.9	60.0	31.5	54.4	III
Copper (Cu) - Dissolved	µg/l	12	1.0	27.7	75.0	14.5	70.0	III
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l	12	< 1.0	1.7	5.0	1.0	4.6	III
Cadmium (Cd) - Dissolved	µg/l	12	< 0.10	0.13	0.40	0.10	0.10	II
Mercury (Hg) - Dissolved	µg/l	12	< 0.100	0.100	0.100	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	< 0.001	0.002	0.003	0.002	0.003	
Anionic active surfactants	mg/l	12	0.010	0.022	0.035	0.022	0.030	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	10	< 0.015	< 0.015	< 0.015	0.015	0.015	
Lindane	µg/l	3	< 0.050	< 0.050	< 0.050	0.050	0.050	I
pp'DDT	µg/l	3	< 0.100	< 0.100	< 0.100	0.100	0.100	**
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml							
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	251253 km ²	SCG02
Distance from the mouth [km]	1367.0	Altitude	80.41 m	
Location	Bogojevo L			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	12	1356.0	2553.3	3800.0	2252.5	3723.0	
Temperature	°C	12	0.4	12.5	23.4	13.2	20.4	
Suspended Solids	mg/l	12	2	22	54	20	32	
Dissolved Oxygen	mg/l	12	7.7	10.4	12.8	10.3	8.3	I
BOD ₅	mg/l	12	1.6	2.9	4.3	3.1	3.5	II
COD _{Mn}	mg/l	12	3.9	4.8	6.5	4.7	5.6	II
COD _{Cr}	mg/l							
TOC	mg/l							
DOC	mg/l							
pH		12	7.8	8.0	8.3	8.0	8.2	II
							7.8	II
Alkalinity	mmol/l	12	2.4	3.2	4.3	3.3	3.8	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.030	0.154	0.450	0.125	0.354	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.009	0.018	0.034	0.015	0.029	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.79	1.91	3.19	1.58	3.07	III
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.008	0.044	0.074	0.044	0.070	II
Total Phosphorus	mg/l	12	0.05	0.11	0.17	0.11	0.14	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	289	392	505	396	474	
Calcium (Ca ²⁺)	mg/l	12	40.2	55.1	69.9	53.4	68.3	
Sulphate (SO ₄ ²⁻)	mg/l	12	31	39	52	39	46	
Magnesium (Mg ²⁺)	mg/l	12	9.6	14.0	21.7	13.0	19.7	
Potassium (K ⁺)	mg/l	12	1.3	2.3	3.1	2.5	3.0	
Sodium (Na ⁺)	mg/l	12	10.3	14.1	19.2	12.9	18.8	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl)	mg/l	12	14	21	29	20	26	
Zinc (Zn) - Dissolved	µg/l	12	2.0	26.7	49.0	25.5	48.2	III
Copper (Cu) - Dissolved	µg/l	12	1.0	19.3	46.0	20.0	36.6	III
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l	12	< 1.0	3.6	12.0	1.5	9.7	III
Cadmium (Cd) - Dissolved	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg) - Dissolved	µg/l	12	< 0.100	< 0.100	< 0.100	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	8	< 0.001	0.002	0.006	0.002	0.004	
Anionic active surfactants	mg/l	12	< 0.010	0.016	0.042	0.010	0.036	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	2	< 0.050	< 0.050	< 0.050	0.050	0.050	I
pp'DDT	µg/l	2	< 0.100	< 0.100	< 0.100	0.100	0.100	**
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml							
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	254085 km ²	SCG03
Distance from the mouth [km]	1258.0	Altitude	74.52 m	
Location	Novi Sad L			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	12	0.4	12.7	24.1	14.7	21.4	
Suspended Solids	mg/l	12	2	19	48	12	43	
Dissolved Oxygen	mg/l	12	5.6	9.6	12.6	9.6	7.3	I
BOD ₅	mg/l	9	1.4	2.6	4.0	2.4	4.0	II
COD _{Mn}	mg/l	12	3.1	4.2	5.2	4.3	4.8	I
COD _{Cr}	mg/l							
TOC	mg/l							
DOC	mg/l							
pH		12	7.8	7.9	8.4	7.8	8.1	II
							7.8	II
Alkalinity	mmol/l	12	2.3	3.1	3.6	3.2	3.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.100	0.255	0.440	0.215	0.415	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.014	0.024	0.041	0.024	0.030	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.90	1.89	2.90	1.87	2.73	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.012	0.049	0.081	0.054	0.070	II
Total Phosphorus	mg/l	12	0.09	0.12	0.17	0.12	0.13	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	294	375	452	381	440	
Calcium (Ca ²⁺)	mg/l	12	37.3	53.8	65.6	54.6	64.7	
Sulphate (SO ₄ ²⁻)	mg/l	12	27	34	40	33	40	
Magnesium (Mg ²⁺)	mg/l	12	7.4	11.7	15.9	10.9	14.2	
Potassium (K ⁺)	mg/l	12	1.4	2.4	3.5	2.4	2.9	
Sodium (Na ⁺)	mg/l	12	9.1	13.6	18.2	13.4	17.7	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl)	mg/l	12	12	19	26	20	25	
Zinc (Zn) - Dissolved	µg/l	11	8.0	26.5	46.0	22.0	39.0	III
Copper (Cu) - Dissolved	µg/l	11	< 1.0	17.7	40.0	18.0	38.0	III
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l	11	< 1.0	3.3	8.0	1.5	7.0	III
Cadmium (Cd) - Dissolved	µg/l	11	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg) - Dissolved	µg/l	11	< 0.100	0.100	0.100	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	8	< 0.001	0.001	0.002	0.001	0.001	
Anionic active surfactants	mg/l	12	< 0.010	0.017	0.035	0.014	0.028	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	3	< 0.050	< 0.050	< 0.050	0.050	0.050	I
pp'DDT	µg/l	3	< 0.100	< 0.100	< 0.100	0.100	0.100	**
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml							
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	412762 km ²	SCG04
Distance from the mouth [km]	1174.0	Altitude	70.76 m	
Location	Zemun R			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	12	3085.0	5308.4	8300.0	5310.0	7353.4	
Temperature	°C	12	1.4	13.0	24.0	13.3	22.3	
Suspended Solids	mg/l	12	< 2	7	19	6	10	
Dissolved Oxygen	mg/l	12	7.0	9.3	12.8	9.2	7.1	I
BOD ₅	mg/l	12	1.0	1.9	3.9	1.5	3.2	II
COD _{Mn}	mg/l	12	2.5	3.4	4.2	3.3	3.7	I
COD _{Cr}	mg/l							
TOC	mg/l							
DOC	mg/l							
pH		12	7.6	7.9	8.2	7.9	8.1	II
							7.8	II
Alkalinity	mmol/l	12	2.1	3.4	4.6	3.4	3.8	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.017	0.173	0.523	0.132	0.418	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	< 0.001	0.002	0.003	0.001	0.003	I
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.20	1.21	3.13	0.96	2.02	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.013	0.035	0.061	0.030	0.056	II
Total Phosphorus	mg/l	4	0.07	0.09	0.10	0.09	0.10	I
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	227	414	460	430	460	
Calcium (Ca ²⁺)	mg/l	2	49.0	55.8	62.5	55.8	61.2	
Sulphate (SO ₄ ²⁻)	mg/l	4	16	21	27	21	25	
Magnesium (Mg ²⁺)	mg/l	2	9.7	16.1	22.6	16.1	21.3	
Potassium (K ⁺)	mg/l	4	1.0	2.0	3.1	1.9	2.8	
Sodium (Na ⁺)	mg/l	4	8.9	9.9	11.3	9.8	11.0	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl)	mg/l	4	11	15	18	15	18	
Zinc (Zn) - Dissolved	µg/l	4	5.0	16.3	46.0	7.0	34.3	III
Copper (Cu) - Dissolved	µg/l	4	6.0	17.0	31.0	15.5	27.7	III
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l	4	< 1.0	3.0	9.0	1.0	6.6	III
Cadmium (Cd) - Dissolved	µg/l	4	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg) - Dissolved	µg/l	4	< 0.100	0.100	0.100	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	4	< 0.001	< 0.001	< 0.001	0.001	0.001	
Anionic active surfactants	mg/l	4	< 0.010	< 0.010	< 0.010	0.010	0.010	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	8	< 0.015	< 0.015	< 0.015	0.015	0.015	
Lindane	µg/l	7	< 0.050	< 0.050	< 0.050	0.050	0.050	I
pp'DDT	µg/l	7	< 0.100	< 0.100	< 0.100	0.100	0.100	**
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml							
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	525009 km ²	SCG05
Distance from the mouth [km]	1154.8	Altitude	70.14 m	
Location	Pancevo L			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	10	2407.0	5185.2	8670.0	4761.0	8031.0	
Temperature	°C	10	3.8	15.8	24.2	17.0	23.2	
Suspended Solids	mg/l	10	3	52	123	43	110	
Dissolved Oxygen	mg/l	10	6.8	9.0	12.7	8.4	7.1	II
BOD ₅	mg/l	10	1.5	2.6	4.0	2.4	3.9	II
COD _{Mn}	mg/l	10	4.2	5.3	6.8	5.4	6.1	II
COD _{Cr}	mg/l							
TOC	mg/l							
DOC	mg/l							
pH		10	7.7	7.9	8.3	7.9	8.0	II
							7.7	II
Alkalinity	mmol/l	10	2.2	2.7	3.2	2.7	3.0	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	10	< 0.050	0.196	0.600	0.190	0.276	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	10	< 0.001	0.022	0.035	0.022	0.033	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	10	0.86	1.43	2.53	1.31	2.13	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	10	0.018	0.045	0.070	0.046	0.069	II
Total Phosphorus	mg/l	10	0.08	0.11	0.17	0.10	0.12	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	10	299	360	425	349	418	
Calcium (Ca ²⁺)	mg/l	10	40.9	48.3	56.1	47.7	54.8	
Sulphate (SO ₄ ²⁻)	mg/l	10	24	35	49	32	43	
Magnesium (Mg ²⁺)	mg/l	10	7.2	10.7	12.9	10.7	12.5	
Potassium (K ⁺)	mg/l	10	1.4	2.6	3.7	2.8	3.3	
Sodium (Na ⁺)	mg/l	10	10.1	15.9	19.9	15.8	19.5	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl)	mg/l	10	15	22	28	22	26	
Zinc (Zn) - Dissolved	µg/l	10	4.0	31.5	63.0	30.5	58.5	III
Copper (Cu) - Dissolved	µg/l	10	4.0	34.8	98.0	31.0	64.7	III
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l	10	< 1.0	2.7	8.0	1.0	6.2	III
Cadmium (Cd) - Dissolved	µg/l	10	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg) - Dissolved	µg/l	10	< 0.100	0.100	0.100	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	7	< 0.001	0.001	0.003	0.001	0.002	
Anionic active surfactants	mg/l	10	0.010	0.019	0.033	0.017	0.031	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	3	< 0.050	< 0.050	< 0.050	0.050	0.050	I
pp'DDT	µg/l	3	< 0.100	< 0.100	< 0.100	0.100	0.100	**
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml							
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	568648 km ²	SCG06
Distance from the mouth [km]	1076.6	Altitude	68.58 m	
Location	Banatska Palanka L			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	12	3.2	14.0	25.8	14.5	24.6	
Suspended Solids	mg/l	12	5	25	54	18	52	
Dissolved Oxygen	mg/l	12	4.8	8.3	11.4	8.2	5.7	III
BOD ₅	mg/l	11	1.0	1.9	3.1	1.9	2.5	I
COD _{Mn}	mg/l	12	3.7	5.3	6.6	5.3	6.1	II
COD _{Cr}	mg/l							
TOC	mg/l							
DOC	mg/l							
pH		10	7.7	7.8	8.0	7.9	7.9	II
							7.7	II
Alkalinity	mmol/l	12	2.3	3.0	3.5	3.0	3.4	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.100	0.197	0.300	0.205	0.293	II
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.031	0.080	0.030	0.049	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.67	1.45	2.17	1.51	2.06	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.020	0.045	0.085	0.039	0.075	II
Total Phosphorus	mg/l	12	0.07	0.10	0.13	0.11	0.11	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	300	361	430	360	412	
Calcium (Ca ²⁺)	mg/l	12	41.2	51.7	60.1	53.7	59.5	
Sulphate (SO ₄ ²⁻)	mg/l	12	31	36	42	36	39	
Magnesium (Mg ²⁺)	mg/l	12	8.3	11.3	14.5	12.0	13.4	
Potassium (K ⁺)	mg/l	12	1.4	2.2	3.6	2.1	3.1	
Sodium (Na ⁺)	mg/l	12	11.3	13.9	18.0	13.9	16.4	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl ⁻)	mg/l	12	16	19	25	18	21	
Zinc (Zn) - Dissolved	µg/l	12	12.0	29.6	54.0	30.0	38.0	III
Copper (Cu) - Dissolved	µg/l	12	< 1.0	21.4	55.0	15.0	51.3	III
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l	12	< 1.0	2.6	7.0	1.0	5.9	III
Cadmium (Cd) - Dissolved	µg/l	12	< 0.10	0.10	0.10	0.10	0.10	II
Mercury (Hg) - Dissolved	µg/l	12	< 0.100	0.100	0.100	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	< 0.001	0.002	0.007	0.001	0.003	
Anionic active surfactants	mg/l	12	< 0.010	0.013	0.026	0.010	0.019	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	10	< 0.015	< 0.015	< 0.015	0.015	0.015	
Lindane	µg/l	3	< 0.050	< 0.050	< 0.050	0.050	0.050	I
pp'DDT	µg/l	3	< 0.100	< 0.100	< 0.100	0.100	0.100	**
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml							
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	574307 km ²	SCG07
Distance from the mouth [km]	954.6	Altitude	m	
Location	Tekija R			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	9	2977.0	5413.2	8334.0	5070.0	8331.6	
Temperature	°C	9	6.2	16.5	26.0	18.0	24.4	
Suspended Solids	mg/l	9	< 2	4	8	4	7	
Dissolved Oxygen	mg/l	8	7.5	9.7	12.7	9.6	8.1	I
BOD ₅	mg/l	8	1.0	1.8	4.0	1.6	2.5	II
COD _{Mn}	mg/l	9	1.7	3.0	4.4	3.0	3.7	I
COD _{Cr}	mg/l							
TOC	mg/l							
DOC	mg/l							
pH								
Alkalinity	mmol/l	9	2.8	3.4	4.8	3.4	3.8	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	9	0.022	0.122	0.370	0.088	0.228	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	9	< 0.001	0.001	0.002	0.001	0.002	I
Nitrate-N (NO ₃ ⁻ -N)	mg/l	9	0.67	1.02	1.55	1.02	1.26	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	9	0.010	0.044	0.071	0.045	0.062	II
Total Phosphorus	mg/l	4	0.06	0.07	0.09	0.07	0.08	I
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm							
Calcium (Ca ²⁺)	mg/l	4	28.1	46.0	61.7	47.1	57.4	
Sulphate (SO ₄ ²⁻)	mg/l	3	15	19	21	20	21	
Magnesium (Mg ²⁺)	mg/l	4	9.8	19.4	25.4	21.2	24.5	
Potassium (K ⁺)	mg/l	4	1.5	3.5	8.0	2.3	6.5	
Sodium (Na ⁺)	mg/l	4	8.7	10.0	11.4	10.0	11.1	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl)	mg/l	4	12	13	14	13	14	
Zinc (Zn) - Dissolved	µg/l	4	< 1.0	10.8	34.0	4.0	25.9	III
Copper (Cu) - Dissolved	µg/l	4	6.0	10.3	15.0	10.0	14.4	III
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l	4	< 1.0	2.5	6.0	1.4	4.7	III
Cadmium (Cd) - Dissolved	µg/l	4	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg) - Dissolved	µg/l	4	< 0.100	0.100	0.100	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	4	< 0.001	< 0.001	< 0.001	0.001	0.001	
Anionic active surfactants	mg/l	4	< 0.010	0.010	0.011	0.010	0.011	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	3	< 0.050	< 0.050	< 0.050	0.050	0.050	I
pp'DDT	µg/l	3	< 0.100	< 0.100	< 0.100	0.100	0.100	**
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml							
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	577085 km ²	SCG08
Distance from the mouth [km]	851.0	Altitude	32.45 m	
Location	Radujevac R			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	9	3050.0	5788.4	9220.0	5230.0	8609.6	
Temperature	°C	9	7.0	16.3	25.3	17.5	23.5	
Suspended Solids	mg/l	9	< 2	4	12	3	7	
Dissolved Oxygen	mg/l	9	8.0	10.6	13.2	10.3	9.0	I
BOD ₅	mg/l	9	1.3	2.2	4.0	1.8	3.9	II
COD _{Mn}	mg/l	9	2.6	3.1	3.8	3.2	3.6	I
COD _{Cr}	mg/l							
TOC	mg/l							
DOC	mg/l							
pH								
Alkalinity	mmol/l	9	3.1	3.7	4.7	3.7	4.0	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	7	0.038	0.210	0.750	0.160	0.409	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	9	< 0.001	0.002	0.006	0.001	0.003	I
Nitrate-N (NO ₃ ⁻ -N)	mg/l	9	0.43	1.12	1.82	0.93	1.76	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	9	0.052	0.519	2.210	0.105	1.192	V
Total Phosphorus	mg/l	4	0.07	0.50	1.22	0.36	1.04	V
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm							
Calcium (Ca ²⁺)	mg/l	4	45.7	53.4	72.5	47.7	65.6	
Sulphate (SO ₄ ²⁻)	mg/l	4	12	26	41	25	37	
Magnesium (Mg ²⁺)	mg/l	4	3.8	16.1	24.5	18.2	23.1	
Potassium (K ⁺)	mg/l	4	1.5	3.7	8.5	2.4	6.9	
Sodium (Na ⁺)	mg/l	4	8.4	9.9	12.4	9.4	11.6	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl)	mg/l	4	12	13	14	13	13	
Zinc (Zn) - Dissolved	µg/l	4	3.0	11.8	30.0	7.0	23.4	III
Copper (Cu) - Dissolved	µg/l	4	7.0	8.3	12.0	7.0	10.5	III
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l	4	< 1.0	2.5	7.0	1.0	5.2	III
Cadmium (Cd) - Dissolved	µg/l	4	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg) - Dissolved	µg/l	4	< 0.100	0.100	0.100	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	4	< 0.001	0.001	0.001	0.001	0.001	
Anionic active surfactants	mg/l	4	< 0.010	< 0.010	< 0.010	0.010	0.010	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	6	< 0.050	< 0.050	< 0.050	0.050	0.050	I
pp'DDT	µg/l	6	< 0.100	< 0.100	< 0.100	0.100	0.100	**
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml							
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	/Tisa	Catchment	140130 km ²	SCG10
Distance from the mouth [km]	152.0	Altitude	75.54 m	
Location	Martonos R			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	6	493.0	1047.0	2119.0	660.5	1926.0	
Temperature	°C	11	3.1	14.4	25.4	15.4	25.4	
Suspended Solids	mg/l	11	18	76	269	32	173	
Dissolved Oxygen	mg/l	11	5.8	8.9	12.4	8.4	7.1	I
BOD ₅	mg/l	10	1.6	2.1	2.8	2.0	2.5	I
COD _{Mn}	mg/l	11	3.7	4.7	6.2	4.4	5.9	II
COD _{Cr}	mg/l							
TOC	mg/l							
DOC	mg/l							
pH		11	7.6	7.8	8.0	7.7	8.0	II
Alkalinity	mmol/l	11	1.8	2.3	3.2	2.2	2.8	II
Ammonium-N (NH ₄ ⁺ -N)	mg/l	11	0.060	0.182	0.380	0.160	0.350	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	11	0.011	0.020	0.033	0.021	0.028	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	11	0.52	1.13	1.81	1.15	1.76	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	11	0.016	0.049	0.095	0.052	0.080	II
Total Phosphorus	mg/l	11	0.05	0.13	0.20	0.13	0.20	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	11	262	355	459	347	431	
Calcium (Ca ²⁺)	mg/l	11	33.5	44.1	54.5	44.6	51.0	
Sulphate (SO ₄ ²⁻)	mg/l	11	27	41	52	45	50	
Magnesium (Mg ²⁺)	mg/l	11	5.1	8.7	12.0	8.6	11.6	
Potassium (K ⁺)	mg/l	11	1.9	3.0	4.6	3.0	3.7	
Sodium (Na ⁺)	mg/l	11	13.7	22.2	32.0	22.3	28.1	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl)	mg/l	11	17	31	45	30	44	
Zinc (Zn) - Dissolved	µg/l	11	3.0	33.5	70.0	28.0	60.0	III
Copper (Cu) - Dissolved	µg/l	11	< 1.0	24.1	60.0	15.0	51.0	III
Chromium (Cr) - Dissolved	µg/l	6	1.0	1.0	1.0	1.0	1.0	II
Lead (Pb) - Dissolved	µg/l	11	< 1.0	1.8	6.0	1.0	5.0	III
Cadmium (Cd) - Dissolved	µg/l	11	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg) - Dissolved	µg/l	11	< 0.100	0.100	0.100	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	10	< 0.001	0.003	0.005	0.003	0.004	
Anionic active surfactants	mg/l	11	< 0.010	0.017	0.030	0.014	0.028	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	10	< 0.015	0.017	0.023	0.016	0.023	
Lindane	µg/l	3	< 0.050	< 0.050	< 0.050	0.050	0.050	I
pp'DDT	µg/l	3	< 0.100	< 0.100	< 0.100	0.100	0.100	**
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml							
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	/Tisa	Catchment	145415 km ²	SCG11
Distance from the mouth [km]	66.0	Altitude	74.03 m	
Location	Novi Becej L			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	11	3.0	15.4	26.0	17.8	25.4	
Suspended Solids	mg/l	11	3	35	236	14	38	
Dissolved Oxygen	mg/l	11	5.8	8.3	12.3	7.5	5.9	III
BOD ₅	mg/l	10	1.2	1.9	3.2	1.8	2.5	II
COD _{Mn}	mg/l	11	4.2	5.0	7.7	4.7	6.1	II
COD _{Cr}	mg/l							
TOC	mg/l							
DOC	mg/l							
pH		11	7.5	7.7	7.9	7.7	7.7	II
							7.6	II
Alkalinity	mmol/l	11	1.8	2.4	3.1	2.5	2.8	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	11	0.050	0.268	0.450	0.240	0.430	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	11	0.014	0.025	0.035	0.024	0.032	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	11	0.62	1.16	1.81	1.15	1.77	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	11	0.023	0.052	0.094	0.042	0.087	II
Total Phosphorus	mg/l	11	0.08	0.11	0.14	0.11	0.13	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	11	262	395	533	396	457	
Calcium (Ca ²⁺)	mg/l	11	32.8	46.8	62.3	50.0	52.1	
Sulphate (SO ₄ ²⁻)	mg/l	11	28	47	64	48	58	
Magnesium (Mg ²⁺)	mg/l	11	5.6	9.5	14.6	8.9	11.5	
Potassium (K ⁺)	mg/l	11	1.8	3.2	4.9	3.1	3.8	
Sodium (Na ⁺)	mg/l	11	13.7	24.7	35.8	25.2	29.6	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl)	mg/l	11	16	34	54	33	44	
Zinc (Zn) - Dissolved	µg/l	11	6.3	38.4	55.0	40.0	54.0	III
Copper (Cu) - Dissolved	µg/l	11	1.0	32.0	105.0	13.0	81.0	III
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l	11	< 1.0	3.5	11.0	1.0	8.0	III
Cadmium (Cd) - Dissolved	µg/l	11	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg) - Dissolved	µg/l	11	< 0.100	< 0.100	< 0.100	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	9	< 0.001	0.002	0.004	0.002	0.004	
Anionic active surfactants	mg/l	11	< 0.010	0.023	0.064	0.020	0.039	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	3	< 0.050	< 0.050	< 0.050	0.050	0.050	I
pp'DDT	µg/l	3	< 0.100	< 0.100	< 0.100	0.100	0.100	**
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml							
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	/Tisa	Catchment	157147 km ²	SCG12
Distance from the mouth [km]	8.9	Altitude	72.55 m	
Location	Titel M			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	11	2.0	15.6	26.6	17.2	25.6	
Suspended Solids	mg/l	11	4	95	667	42	101	
Dissolved Oxygen	mg/l	11	5.9	8.4	12.2	8.0	6.2	II
BOD ₅	mg/l	11	1.6	2.8	5.0	2.5	3.7	II
COD _{Mn}	mg/l	11	3.8	5.1	6.9	4.6	6.6	II
COD _{Cr}	mg/l							
TOC	mg/l							
DOC	mg/l							
pH		10	7.6	7.7	7.8	7.7	7.8	II
							7.6	II
Alkalinity	mmol/l	11	1.9	2.4	3.1	2.4	3.0	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	11	0.080	0.405	0.800	0.340	0.650	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	11	0.006	0.033	0.075	0.030	0.065	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	11	0.56	1.07	1.61	1.06	1.49	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	11	0.031	0.056	0.083	0.059	0.072	II
Total Phosphorus	mg/l	11	0.11	0.14	0.20	0.13	0.17	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	11	293	389	487	419	477	
Calcium (Ca ²⁺)	mg/l	11	37.4	46.7	57.5	48.5	53.7	
Sulphate (SO ₄ ²⁻)	mg/l	11	38	45	54	45	54	
Magnesium (Mg ²⁺)	mg/l	11	7.0	9.9	13.2	8.9	13.1	
Potassium (K ⁺)	mg/l	11	2.6	3.5	4.7	3.7	4.0	
Sodium (Na ⁺)	mg/l	11	12.2	25.4	42.2	27.5	30.5	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl)	mg/l	11	18	35	49	41	46	
Zinc (Zn) - Dissolved	µg/l	11	16.0	33.5	61.0	30.0	54.0	III
Copper (Cu) - Dissolved	µg/l	11	< 1.0	21.7	67.0	12.0	46.0	III
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l	11	< 1.0	3.2	9.0	2.0	8.0	III
Cadmium (Cd) - Dissolved	µg/l	11	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg) - Dissolved	µg/l	11	< 0.100	0.127	0.300	0.100	0.200	III
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	8	< 0.001	0.002	0.004	0.001	0.003	
Anionic active surfactants	mg/l	11	< 0.010	0.036	0.170	0.021	0.044	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	3	< 0.050	< 0.050	< 0.050	0.050	0.050	I
pp'DDT	µg/l	3	< 0.100	< 0.100	< 0.100	0.100	0.100	**
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml							
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	/Sava	Catchment	64073	km ²	SCG13
Distance from the mouth [km]	195.0	Altitude	77.67	m	
Location	Jamena L				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	8	355.0	1341.1	2512.0	1139.0	2209.6	
Temperature	°C	10	6.3	15.1	26.5	15.4	26.1	
Suspended Solids	mg/l	10	3	16	50	9	46	
Dissolved Oxygen	mg/l	10	7.8	9.5	11.4	9.1	8.4	I
BOD ₅	mg/l	10	1.0	2.2	5.4	2.0	3.0	III
COD _{Mn}	mg/l	10	1.7	2.8	4.2	3.0	3.5	I
COD _{Cr}	mg/l							
TOC	mg/l							
DOC	mg/l							
pH		10	7.7	8.0	8.3	7.9	8.3	II
							7.8	II
Alkalinity	mmol/l	10	3.2	3.8	4.4	3.7	4.4	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	10	0.005	0.147	0.510	0.116	0.254	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	10	< 0.001	0.002	0.004	0.002	0.003	I
Nitrate-N (NO ₃ ⁻ -N)	mg/l	10	0.29	0.82	1.26	0.90	1.16	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	10	0.008	0.043	0.100	0.035	0.072	II
Total Phosphorus	mg/l	10	0.02	0.15	0.30	0.12	0.29	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	10	340	376	540	350	423	
Calcium (Ca ²⁺)	mg/l	8	36.4	52.0	78.5	52.5	67.0	
Sulphate (SO ₄ ²⁻)	mg/l	10	7	21	46	21	34	
Magnesium (Mg ²⁺)	mg/l	8	7.7	21.6	33.7	22.3	30.0	
Potassium (K ⁺)	mg/l	8	0.8	1.5	2.2	1.5	2.1	
Sodium (Na ⁺)	mg/l	7	3.9	6.6	11.0	6.7	8.6	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl)	mg/l	9	< 5	12	41	9	18	
Zinc (Zn) - Dissolved	µg/l	9	1.0	9.2	26.0	5.0	18.0	III
Copper (Cu) - Dissolved	µg/l	9	< 1.0	12.9	52.0	6.0	26.4	III
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l	9	< 1.0	1.8	6.0	1.0	3.6	III
Cadmium (Cd) - Dissolved	µg/l	9	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg) - Dissolved	µg/l	9	< 0.100	0.100	0.100	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	10	< 0.001	0.002	0.003	0.001	0.003	
Anionic active surfactants	mg/l	10	< 0.010	0.010	0.012	0.010	0.010	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	9	< 0.015	< 0.015	< 0.015	0.015	0.015	
Lindane	µg/l	3	< 0.050	< 0.050	< 0.050	0.050	0.050	I
pp'DDT	µg/l	3	< 0.100	< 0.100	< 0.100	0.100	0.100	**
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml							
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	/Sava	Catchment	87996	km ²	SCG14
Distance from the mouth [km]	136.4	Altitude	75.24	m	
Location	Sremska Mitrovica L				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	10	500.0	1631.0	3890.0	1360.0	2621.0	
Temperature	°C	10	6.0	14.5	24.7	15.4	23.6	
Suspended Solids	mg/l	10	1	7	18	6	8	
Dissolved Oxygen	mg/l	10	8.4	10.1	11.2	10.6	8.5	I
BOD ₅	mg/l	10	1.0	1.6	2.2	1.6	2.1	I
COD _{Mn}	mg/l	10	2.1	2.8	3.8	2.6	3.3	I
COD _{Cr}	mg/l							
TOC	mg/l							
DOC	mg/l							
pH		10	7.8	8.0	8.3	7.9	8.2	II
							7.8	II
Alkalinity	mmol/l	10	3.2	3.6	4.2	3.6	3.7	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	10	0.016	0.167	0.660	0.142	0.219	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	10	< 0.001	0.002	0.004	0.002	0.002	I
Nitrate-N (NO ₃ ⁻ -N)	mg/l	10	0.28	1.03	1.78	0.93	1.73	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	10	< 0.005	0.108	0.800	0.030	0.148	V
Total Phosphorus	mg/l	10	0.04	0.22	0.84	0.10	0.65	IV
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	10	320	358	420	360	393	
Calcium (Ca ²⁺)	mg/l	7	19.2	44.9	56.9	50.1	55.4	
Sulphate (SO ₄ ²⁻)	mg/l	10	6	18	38	19	25	
Magnesium (Mg ²⁺)	mg/l	7	7.4	18.7	38.8	15.5	30.9	
Potassium (K ⁺)	mg/l	9	0.8	1.3	2.1	1.0	2.0	
Sodium (Na ⁺)	mg/l	8	3.3	6.7	11.8	6.8	10.4	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl)	mg/l	10	< 5	10	20	9	12	
Zinc (Zn) - Dissolved	µg/l	10	< 1.0	10.0	34.0	9.0	15.1	III
Copper (Cu) - Dissolved	µg/l	10	< 1.0	14.1	36.0	12.5	27.0	III
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l	10	< 1.0	1.8	5.0	1.0	4.1	III
Cadmium (Cd) - Dissolved	µg/l	10	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg) - Dissolved	µg/l	10	< 0.100	0.100	0.100	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	10	< 0.001	0.001	0.003	0.001	0.002	
Anionic active surfactants	mg/l	10	< 0.010	< 0.010	< 0.010	0.010	0.010	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	3	< 0.050	< 0.050	< 0.050	0.050	0.050	I
pp'DDT	µg/l	3	< 0.100	< 0.100	< 0.100	0.100	0.100	**
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml							
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	/Sava	Catchment	89490	km ²	SCG15
Distance from the mouth [km]	103.6	Altitude	74.22	m	
Location	Sabac R				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	8	660.0	1895.0	2900.0	1945.0	2690.0	
Temperature	°C	12	2.0	12.9	26.1	12.6	23.6	
Suspended Solids	mg/l	12	< 2	8	16	7	14	
Dissolved Oxygen	mg/l	12	8.2	10.3	15.8	9.8	8.4	I
BOD ₅	mg/l	12	1.3	2.0	4.0	1.9	2.4	I
COD _{Mn}	mg/l	12	2.1	2.9	4.3	2.9	3.6	I
COD _{Cr}	mg/l							
TOC	mg/l							
DOC	mg/l							
pH		9	7.8	8.0	8.3	8.0	8.3	II
							7.9	II
Alkalinity	mmol/l	12	3.4	3.6	3.9	3.5	3.8	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	< 0.050	0.170	0.850	0.099	0.254	II
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	< 0.001	0.001	0.003	0.001	0.003	I
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.10	0.88	1.75	0.86	1.29	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.021	0.041	0.065	0.040	0.061	II
Total Phosphorus	mg/l	4	0.04	0.08	0.14	0.06	0.12	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	320	355	380	350	380	
Calcium (Ca ²⁺)	mg/l	3	36.4	55.6	66.5	63.7	66.0	
Sulphate (SO ₄ ²⁻)	mg/l	4	8	16	27	14	24	
Magnesium (Mg ²⁺)	mg/l	3	3.6	18.6	29.3	22.8	28.0	
Potassium (K ⁺)	mg/l	4	0.7	1.3	1.7	1.3	1.7	
Sodium (Na ⁺)	mg/l	4	3.9	8.2	12.8	8.0	11.8	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl)	mg/l	4	8	11	17	10	15	
Zinc (Zn) - Dissolved	µg/l	4	1.0	5.0	14.0	2.5	11.0	III
Copper (Cu) - Dissolved	µg/l	4	< 1.0	4.5	11.0	3.0	8.9	III
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l	4	< 1.0	< 1.0	< 1.0	1.0	1.0	II
Cadmium (Cd) - Dissolved	µg/l	4	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg) - Dissolved	µg/l	4	< 0.100	0.125	0.200	0.100	0.170	III
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	4	< 0.001	0.001	0.001	0.001	0.001	
Anionic active surfactants	mg/l	4	< 0.010	< 0.010	< 0.010	0.010	0.010	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	7	< 0.015	< 0.015	< 0.015	0.015	0.015	
Lindane	µg/l	4	< 0.050	< 0.050	< 0.050	0.050	0.050	I
pp'DDT	µg/l	4	< 0.100	< 0.100	< 0.100	0.100	0.100	**
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml							
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	/Sava	Catchment	37320	km ²	SCG16
Distance from the mouth [km]	17.0	Altitude		m	
Location	Ostruznica R				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	12	500.0	1615.0	3120.0	1730.0	2541.0	
Temperature	°C	12	2.8	14.0	24.0	13.7	22.8	
Suspended Solids	mg/l	12	2	5	16	4	8	
Dissolved Oxygen	mg/l	12	7.0	9.3	12.8	8.8	7.2	I
BOD ₅	mg/l	12	1.1	2.0	3.1	2.1	2.5	I
COD _{Mn}	mg/l	12	2.1	3.3	4.1	3.3	3.7	I
COD _{Cr}	mg/l							
TOC	mg/l							
DOC	mg/l							
pH		12	7.7	7.9	8.2	7.9	8.1	II
							7.7	II
Alkalinity	mmol/l	12	1.7	3.3	4.4	3.3	3.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	11	0.005	0.179	0.630	0.110	0.357	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	< 0.001	0.001	0.001	0.001	0.001	I
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.16	0.66	1.38	0.64	1.09	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	< 0.005	0.032	0.096	0.026	0.073	II
Total Phosphorus	mg/l	4	0.04	0.07	0.10	0.07	0.09	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	11	340	407	460	410	460	
Calcium (Ca ²⁺)	mg/l	3	32.5	46.4	59.7	46.9	57.1	
Sulphate (SO ₄ ²⁻)	mg/l	4	10	23	42	21	37	
Magnesium (Mg ²⁺)	mg/l	3	11.4	16.4	22.0	15.7	20.7	
Potassium (K ⁺)	mg/l	4	0.7	1.2	1.9	1.1	1.7	
Sodium (Na ⁺)	mg/l	4	4.1	8.3	12.5	8.4	11.7	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl)	mg/l	4	< 5	10	15	9	14	
Zinc (Zn) - Dissolved	µg/l	4	7.0	8.5	10.0	8.5	9.7	III
Copper (Cu) - Dissolved	µg/l	4	10.0	10.8	11.0	11.0	11.0	III
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l	4	< 1.0	1.0	1.0	1.0	1.0	II
Cadmium (Cd) - Dissolved	µg/l	4	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg) - Dissolved	µg/l	4	< 0.100	0.100	0.100	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	2	< 0.001	< 0.001	< 0.001	0.001	0.001	
Anionic active surfactants	mg/l	4	< 0.010	< 0.010	< 0.010	0.010	0.010	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	10	< 0.015	< 0.015	< 0.015	0.015	0.015	
Lindane	µg/l	6	< 0.050	< 0.050	< 0.050	0.050	0.050	I
pp'DDT	µg/l	6	< 0.100	< 0.100	< 0.100	0.100	0.100	**
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml							
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	/Velika Morava	Catchment	37320	km ²	SCG17
Distance from the mouth [km]	34.8	Altitude	75.09	m	
Location	Ljubicevski Most R				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	11	63.8	180.7	562.0	100.0	348.0	
Temperature	°C	11	0.0	11.8	25.0	12.0	21.5	
Suspended Solids	mg/l	11	< 2	6	31	4	9	
Dissolved Oxygen	mg/l	11	9.7	11.9	15.2	11.6	9.8	I
BOD ₅	mg/l	10	1.4	3.6	6.7	3.1	5.4	III
COD _{Mn}	mg/l	11	3.0	4.2	7.1	3.8	5.5	II
COD _{Cr}	mg/l							
TOC	mg/l							
DOC	mg/l							
pH		11	6.9	7.3	7.7	7.3	7.7	II
Alkalinity	mmol/l	11	3.1	4.0	5.1	3.9	4.8	II
Ammonium-N (NH ₄ ⁺ -N)	mg/l	11	0.016	0.138	0.352	0.160	0.220	II
Nitrite-N (NO ₂ ⁻ -N)	mg/l	11	< 0.001	0.001	0.002	0.001	0.002	I
Nitrate-N (NO ₃ ⁻ -N)	mg/l	11	0.47	1.30	2.56	1.04	2.49	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	11	0.031	0.117	0.203	0.121	0.188	III
Total Phosphorus	mg/l	3	0.12	0.18	0.22	0.19	0.22	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	11	410	499	670	470	595	
Calcium (Ca ²⁺)	mg/l	3	49.0	51.9	54.9	51.7	54.3	
Sulphate (SO ₄ ²⁻)	mg/l	3	12	20	25	22	24	
Magnesium (Mg ²⁺)	mg/l	3	19.3	23.9	32.2	20.1	29.8	
Potassium (K ⁺)	mg/l	3	2.1	2.8	3.8	2.6	3.6	
Sodium (Na ⁺)	mg/l	3	7.2	11.7	14.2	13.8	14.1	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl)	mg/l	2	11	13	15	13	15	
Zinc (Zn) - Dissolved	µg/l	3	10.0	20.7	32.0	20.0	29.6	III
Copper (Cu) - Dissolved	µg/l	3	23.0	32.7	49.0	26.0	44.4	III
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l	3	1.0	4.7	8.0	5.0	7.4	III
Cadmium (Cd) - Dissolved	µg/l	3	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg) - Dissolved	µg/l	3	< 0.100	< 0.100	< 0.100	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	2	< 0.001	< 0.001	< 0.001	0.001	0.001	
Anionic active surfactants	mg/l	3	< 0.010	< 0.010	< 0.010	0.010	0.010	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	11	< 0.015	< 0.015	< 0.015	0.015	0.015	
Lindane	µg/l	5	< 0.050	< 0.050	< 0.050	0.050	0.050	I
pp'DDT	µg/l	5	< 0.100	< 0.100	< 0.100	0.100	0.100	**
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml							
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	570896 km ²	RO01
Distance from the mouth [km]	1071.0	Altitude	70 m	
Location	Bazias L			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	2500.0	5464.4	9700.0	5300.0	8160.0	
Temperature	°C	20	0.8	13.4	26.0	12.8	22.9	
Suspended Solids	mg/l	20	28	51	111	43	74	
Dissolved Oxygen	mg/l	20	5.1	8.6	11.5	8.6	5.8	III
BOD ₅	mg/l	19	2.8	3.8	4.7	3.9	4.4	II
COD _{Mn}	mg/l	20	3.7	6.0	12.8	5.6	7.9	II
COD _{Cr}	mg/l	19	8.1	11.6	20.6	10.6	14.0	II
TOC	mg/l							
DOC	mg/l							
pH		20	7.5	7.9	8.5	7.9	8.1	II
							7.5	II
Alkalinity	mmol/l	20	2.4	2.9	3.6	2.9	3.2	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	20	0.108	0.303	0.710	0.265	0.544	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	20	0.018	0.038	0.060	0.039	0.055	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	20	0.35	1.22	1.91	1.25	1.67	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	20	0.039	0.085	0.185	0.081	0.121	III
Total Phosphorus	mg/l	15	0.05	0.11	0.19	0.10	0.17	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	19	299	372	449	362	429	
Calcium (Ca ²⁺)	mg/l	20	40.0	50.6	62.0	51.3	57.3	
Sulphate (SO ₄ ²⁻)	mg/l	20	23	35	51	36	41	
Magnesium (Mg ²⁺)	mg/l	20	7.7	12.5	22.0	11.6	14.8	
Potassium (K ⁺)	mg/l	10	2.6	3.2	4.0	3.0	4.0	
Sodium (Na ⁺)	mg/l	10	10.0	15.0	19.0	16.0	18.0	
Manganese (Mn)	mg/l	15	0.020	0.427	3.850	0.050	1.064	
Iron (Fe)	mg/l	16	0.034	0.433	1.123	0.318	1.041	
Chloride (Cl)	mg/l	20	15	20	27	19	25	
Zinc (Zn) - Dissolved	µg/l	5	2.0	17.8	57.0	10.0	40.2	III
Copper (Cu) - Dissolved	µg/l	5	1.3	8.3	18.3	5.4	17.1	III
Chromium (Cr) - Dissolved	µg/l	5	0.4	0.7	1.1	0.7	1.0	II
Lead (Pb) - Dissolved	µg/l	1	10.2	10.2	10.2	10.2	10.2	III
Cadmium (Cd) - Dissolved	µg/l	5	0.15	0.32	0.79	0.20	0.60	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	5	0.17	1.00	1.82	1.07	1.80	III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	15	3.0	25.9	72.0	21.3	60.0	II
Copper (Cu)	µg/l	15	1.7	9.8	24.4	6.9	22.0	III
Chromium (Cr) - total	µg/l	15	1.0	3.0	8.3	2.3	5.6	II
Lead (Pb)	µg/l	14	0.9	6.5	13.4	6.8	12.2	IV
Cadmium (Cd)	µg/l	15	0.12	1.82	9.03	0.93	4.04	IV
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	16	0.03	3.09	10.68	2.18	7.34	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	15	0.005	0.013	0.019	0.014	0.016	
Anionic active surfactants	mg/l	11	0.024	0.033	0.074	0.028	0.032	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	1	0.022	0.022	0.022	0.022	0.022	I
pp'DDT	µg/l							
Atrazine	µg/l	3	< 0.060	< 0.060	< 0.060	0.060	0.060	II
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	11	0.700	45.336	320.000	9.200	92.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	11	0.020	2.044	7.000	0.310	7.000	
Faecal Streptococci	10 ³ CFU/100 ml	11	0.000	0.178	0.920	0.031	0.400	
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	570896	km ²	RO01
Distance from the mouth [km]	1071.0	Altitude	70	m	
Location	Bazias M				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	2500.0	5464.4	9700.0	5300.0	8160.0	
Temperature	°C	20	1.0	13.3	25.5	12.4	23.8	
Suspended Solids	mg/l	20	20	44	74	41	67	
Dissolved Oxygen	mg/l	20	5.1	8.7	11.7	8.9	5.5	III
BOD ₅	mg/l	19	2.1	3.4	4.8	3.3	4.5	II
COD _{Mn}	mg/l	20	3.4	5.1	11.7	4.6	6.3	II
COD _{Cr}	mg/l	19	7.3	10.1	19.5	9.5	13.4	II
TOC	mg/l							
DOC	mg/l							
pH		20	7.4	7.9	8.6	7.9	8.1	II
							7.5	II
Alkalinity	mmol/l	20	2.5	3.0	3.5	3.0	3.1	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	20	0.085	0.289	0.675	0.221	0.587	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	20	0.020	0.048	0.210	0.042	0.060	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	20	0.50	1.25	3.12	1.10	1.64	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	20	0.006	0.085	0.228	0.077	0.128	III
Total Phosphorus	mg/l	15	0.06	0.13	0.23	0.12	0.20	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	19	334	376	447	370	423	
Calcium (Ca ²⁺)	mg/l	20	41.3	50.5	64.0	50.1	57.3	
Sulphate (SO ₄ ²⁻)	mg/l	20	22	34	52	34	41	
Magnesium (Mg ²⁺)	mg/l	20	5.8	12.4	21.9	11.6	15.5	
Potassium (K ⁺)	mg/l	10	1.0	2.8	4.0	3.0	3.6	
Sodium (Na ⁺)	mg/l	10	11.0	15.3	18.5	16.9	18.5	
Manganese (Mn)	mg/l	15	0.015	0.375	2.801	0.061	1.204	
Iron (Fe)	mg/l	16	0.026	0.529	2.097	0.284	1.285	
Chloride (Cl)	mg/l	20	18	20	26	20	24	
Zinc (Zn) - Dissolved	µg/l	5	3.9	12.2	25.0	10.0	21.8	III
Copper (Cu) - Dissolved	µg/l	5	1.7	6.4	18.4	3.4	13.6	III
Chromium (Cr) - Dissolved	µg/l	5	0.7	1.2	2.6	0.8	2.0	III
Lead (Pb) - Dissolved	µg/l	1	7.1	7.1	7.1	7.1	7.1	III
Cadmium (Cd) - Dissolved	µg/l	5	0.07	0.15	0.29	0.15	0.24	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	5	0.14	1.44	4.33	1.26	3.11	III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	15	2.7	27.4	140.0	15.0	51.0	II
Copper (Cu)	µg/l	15	1.3	8.8	20.1	6.2	16.8	II
Chromium (Cr) - total	µg/l	15	0.6	2.3	5.9	1.4	4.5	II
Lead (Pb)	µg/l	14	0.5	5.2	9.6	4.9	9.4	III
Cadmium (Cd)	µg/l	15	0.09	1.19	5.01	0.46	3.38	IV
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	16	0.03	4.13	13.59	2.73	10.29	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	15	0.005	0.010	0.019	0.011	0.012	
Anionic active surfactants	mg/l	11	0.025	0.032	0.072	0.028	0.032	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	1	0.073	0.073	0.073	0.073	0.073	II
pp'DDT	µg/l							
Atrazine	µg/l	1	< 0.060	< 0.060	< 0.060	0.060	0.060	II
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	11	0.170	28.134	160.000	5.400	54.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	11	0.000	3.196	23.000	0.640	3.900	
Faecal Streptococci	10 ³ CFU/100 ml	11	0.000	0.268	1.400	0.020	0.610	
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	570896 km ²	RO01
Distance from the mouth [km]	1071.0	Altitude	70 m	
Location	Bazias R			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	2500.0	5464.4	9700.0	5300.0	8160.0	
Temperature	°C	20	1.0	13.3	25.5	12.8	23.1	
Suspended Solids	mg/l	20	24	47	83	45	68	
Dissolved Oxygen	mg/l	20	5.0	8.3	11.1	8.7	5.6	III
BOD ₅	mg/l	19	2.3	3.6	4.9	3.7	4.3	II
COD _{Mn}	mg/l	20	3.8	5.8	13.2	5.3	7.2	II
COD _{Cr}	mg/l	19	8.2	11.1	21.7	10.5	12.9	II
TOC	mg/l							
DOC	mg/l							
pH		20	7.5	7.9	8.5	7.9	8.1	II
							7.6	II
Alkalinity	mmol/l	20	2.6	3.0	3.6	2.9	3.2	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	20	0.101	0.321	0.745	0.237	0.639	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	20	0.021	0.042	0.072	0.040	0.069	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	20	0.61	1.34	2.63	1.20	2.14	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	20	0.060	0.095	0.137	0.088	0.136	III
Total Phosphorus	mg/l	15	0.07	0.13	0.23	0.13	0.17	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	19	330	376	450	365	430	
Calcium (Ca ²⁺)	mg/l	20	40.0	50.3	67.0	49.4	56.1	
Sulphate (SO ₄ ²⁻)	mg/l	20	3	34	56	34	49	
Magnesium (Mg ²⁺)	mg/l	20	7.7	12.5	19.5	12.1	15.8	
Potassium (K ⁺)	mg/l	10	2.0	2.9	3.9	3.0	3.1	
Sodium (Na ⁺)	mg/l	10	11.0	15.1	19.2	15.1	18.2	
Manganese (Mn)	mg/l	15	0.022	0.275	2.830	0.058	0.336	
Iron (Fe)	mg/l	16	0.081	0.431	1.381	0.297	0.984	
Chloride (Cl)	mg/l	20	17	20	25	20	23	
Zinc (Zn) - Dissolved	µg/l	5	2.3	7.5	17.0	6.0	13.0	III
Copper (Cu) - Dissolved	µg/l	5	1.1	7.6	23.1	5.5	16.7	III
Chromium (Cr) - Dissolved	µg/l	5	0.6	1.0	1.7	0.7	1.6	II
Lead (Pb) - Dissolved	µg/l	1	7.0	7.0	7.0	7.0	7.0	III
Cadmium (Cd) - Dissolved	µg/l	5	0.07	0.99	2.72	0.16	2.38	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	5	0.17	1.24	2.56	1.29	2.32	III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	15	2.0	21.1	82.7	14.0	44.2	II
Copper (Cu)	µg/l	15	2.9	8.7	24.1	5.3	17.2	II
Chromium (Cr) - total	µg/l	15	0.6	2.5	7.5	2.2	5.1	II
Lead (Pb)	µg/l	14	1.5	6.4	19.2	6.3	9.3	III
Cadmium (Cd)	µg/l	15	0.16	1.76	7.27	0.92	3.48	IV
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	16	0.02	2.95	7.01	2.48	6.75	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	15	0.005	0.012	0.017	0.013	0.017	
Anionic active surfactants	mg/l	11	0.025	0.034	0.072	0.029	0.041	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	1	0.030	0.030	0.030	0.030	0.030	I
pp'DDT	µg/l							
Atrazine	µg/l	1	< 0.060	< 0.060	< 0.060	0.060	0.060	II
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	11	0.210	20.667	160.000	4.300	35.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	11	0.045	1.477	7.000	0.920	2.600	
Faecal Streptococci	10 ³ CFU/100 ml	11	0.000	0.553	4.500	0.040	0.610	
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	580100 km ²	RO02
Distance from the mouth [km]	834.0	Altitude	31 m	
Location	Pristol/Novo Selo Harbour L			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	2520.0	5421.8	10440.0	5112.0	8325.0	
Temperature	°C	21	1.2	13.0	25.0	12.0	23.8	
Suspended Solids	mg/l	19	37	48	70	46	60	
Dissolved Oxygen	mg/l	21	5.1	8.0	11.1	7.7	5.9	III
BOD ₅	mg/l	20	2.8	3.5	4.8	3.4	4.0	II
COD _{Mn}	mg/l	21	3.7	5.6	11.3	4.9	7.6	II
COD _{Cr}	mg/l	19	7.7	11.3	19.2	10.7	14.9	II
TOC	mg/l							
DOC	mg/l							
pH		21	7.6	7.8	8.1	7.8	7.9	II
							7.6	II
Alkalinity	mmol/l	21	2.6	3.1	3.5	3.1	3.2	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	21	0.070	0.246	0.598	0.209	0.435	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	21	0.016	0.043	0.072	0.039	0.066	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	21	0.45	1.22	2.12	1.13	1.71	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	21	0.030	0.097	0.189	0.088	0.150	III
Total Phosphorus	mg/l	15	0.07	0.11	0.20	0.11	0.17	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	20	323	377	451	368	407	
Calcium (Ca ²⁺)	mg/l	20	32.0	50.4	65.6	51.0	59.9	
Sulphate (SO ₄ ²⁻)	mg/l	21	25	35	48	34	44	
Magnesium (Mg ²⁺)	mg/l	21	9.7	13.7	24.0	13.5	16.5	
Potassium (K ⁺)	mg/l	10	2.0	3.2	4.1	3.0	4.0	
Sodium (Na ⁺)	mg/l	10	11.0	15.5	19.2	16.0	18.3	
Manganese (Mn)	mg/l	17	0.014	0.311	3.370	0.050	0.534	
Iron (Fe)	mg/l	18	0.025	0.345	1.569	0.237	0.664	
Chloride (Cl ⁻)	mg/l	21	16	20	28	19	23	
Zinc (Zn) - Dissolved	µg/l	6	3.0	13.6	34.0	12.3	24.0	III
Copper (Cu) - Dissolved	µg/l	6	0.7	4.4	10.7	3.7	8.7	III
Chromium (Cr) - Dissolved	µg/l	6	0.2	0.6	1.1	0.5	1.1	II
Lead (Pb) - Dissolved	µg/l	3	5.2	8.1	10.1	9.1	9.9	III
Cadmium (Cd) - Dissolved	µg/l	6	0.06	0.43	1.36	0.23	0.98	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	6	0.29	1.64	2.50	1.76	2.34	III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	17	2.0	17.9	86.0	12.0	28.4	II
Copper (Cu)	µg/l	17	2.7	8.9	33.5	6.5	15.7	II
Chromium (Cr) - total	µg/l	17	0.9	2.7	14.1	1.6	5.3	II
Lead (Pb)	µg/l	16	0.9	6.4	15.3	6.9	11.3	IV
Cadmium (Cd)	µg/l	17	0.10	2.43	11.79	1.17	5.93	V
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	17	0.05	2.82	6.78	2.50	6.13	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	16	0.006	0.011	0.015	0.012	0.015	
Anionic active surfactants	mg/l	11	0.016	0.028	0.038	0.028	0.033	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	1	0.021	0.021	0.021	0.021	0.021	I
pp'DDT	µg/l							
Atrazine	µg/l	1	< 0.060	< 0.060	< 0.060	0.060	0.060	II
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	9	0.270	74.042	320.000	7.000	192.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	9	0.061	4.058	28.000	1.200	7.920	
Faecal Streptococci	10 ³ CFU/100 ml	9	0.000	0.121	0.610	0.060	0.282	
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	580100	km ²	RO02
Distance from the mouth [km]	834.0	Altitude	31	m	
Location	Pristol/Novo Selo Harbour M				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	2520.0	5421.8	10440.0	5112.0	8325.0	
Temperature	°C	20	2.2	13.5	24.5	13.5	23.8	
Suspended Solids	mg/l	18	30	42	58	42	56	
Dissolved Oxygen	mg/l	20	5.4	8.2	11.2	8.0	6.2	II
BOD ₅	mg/l	19	2.5	3.2	4.1	3.2	3.9	II
COD _{Mn}	mg/l	20	3.3	4.9	10.9	4.4	6.1	II
COD _{Cr}	mg/l	18	6.6	9.3	16.8	9.2	10.9	II
TOC	mg/l							
DOC	mg/l							
pH		20	7.5	7.8	8.0	7.8	8.0	II
							7.6	II
Alkalinity	mmol/l	20	2.6	3.0	3.5	3.1	3.2	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	20	0.020	0.225	0.480	0.195	0.392	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	20	0.018	0.047	0.087	0.044	0.067	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	20	0.74	1.27	2.25	1.13	1.98	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	20	0.039	0.088	0.169	0.078	0.142	III
Total Phosphorus	mg/l	14	0.05	0.09	0.18	0.09	0.14	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	19	336	374	453	370	399	
Calcium (Ca ²⁺)	mg/l	19	33.6	48.9	64.0	50.6	54.8	
Sulphate (SO ₄ ²⁻)	mg/l	20	25	35	57	33	44	
Magnesium (Mg ²⁺)	mg/l	20	9.7	13.6	19.5	13.1	17.6	
Potassium (K ⁺)	mg/l	9	2.4	3.1	4.0	3.0	3.5	
Sodium (Na ⁺)	mg/l	9	9.0	14.4	19.8	15.0	18.0	
Manganese (Mn)	mg/l	17	0.024	0.342	3.560	0.056	0.632	
Iron (Fe)	mg/l	18	0.020	0.565	4.130	0.288	0.874	
Chloride (Cl ⁻)	mg/l	20	16	20	27	19	23	
Zinc (Zn) - Dissolved	µg/l	6	3.2	13.6	52.0	6.1	30.5	III
Copper (Cu) - Dissolved	µg/l	6	0.8	3.9	12.4	2.5	8.5	III
Chromium (Cr) - Dissolved	µg/l	6	0.3	1.0	2.7	0.7	1.9	III
Lead (Pb) - Dissolved	µg/l	3	6.4	9.4	13.3	8.6	12.3	III
Cadmium (Cd) - Dissolved	µg/l	6	0.08	0.41	1.03	0.31	0.84	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	6	0.20	1.48	2.30	1.59	2.09	III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	17	2.0	19.5	74.0	13.1	41.6	II
Copper (Cu)	µg/l	17	3.1	7.9	18.2	6.8	14.1	II
Chromium (Cr) - total	µg/l	17	0.3	3.0	12.5	1.7	6.8	II
Lead (Pb)	µg/l	16	1.2	5.5	10.0	6.5	9.4	III
Cadmium (Cd)	µg/l	17	0.29	2.32	11.28	1.62	4.78	IV
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	17	0.03	1.98	4.95	1.71	4.42	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	15	0.001	0.008	0.013	0.009	0.012	
Anionic active surfactants	mg/l	10	0.015	0.027	0.045	0.027	0.031	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	2	0.005	0.035	0.064	0.035	0.058	II
pp'DDT	µg/l							
Atrazine	µg/l	1	< 0.060	< 0.060	< 0.060	0.060	0.060	II
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	9	1.300	69.178	320.000	6.200	192.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	9	0.020	4.664	35.000	0.920	8.600	
Faecal Streptococci	10 ³ CFU/100 ml	9	0.000	0.193	0.610	0.093	0.602	
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	580100	km ²	RO02
Distance from the mouth [km]	834.0	Altitude	31	m	
Location	Pristol/Novo Selo Harbour R				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	2520.0	5421.8	10440.0	5112.0	8325.0	
Temperature	°C	20	2.2	13.6	25.0	14.0	23.7	
Suspended Solids	mg/l	18	32	47	68	48	59	
Dissolved Oxygen	mg/l	20	5.2	7.9	11.0	7.6	6.0	III
BOD ₅	mg/l	19	2.8	3.5	4.8	3.5	3.9	II
COD _{Mn}	mg/l	20	3.7	5.8	11.7	5.4	8.5	II
COD _{Cr}	mg/l	18	8.2	11.3	20.2	10.5	14.2	II
TOC	mg/l							
DOC	mg/l							
pH		20	7.6	7.8	8.0	7.8	8.0	II
							7.7	II
Alkalinity	mmol/l	20	2.6	3.0	3.5	3.1	3.2	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	20	0.070	0.251	0.699	0.228	0.396	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	20	0.017	0.044	0.070	0.042	0.069	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	20	0.56	1.45	2.58	1.34	2.31	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	20	0.022	0.105	0.170	0.110	0.160	III
Total Phosphorus	mg/l	14	0.04	0.12	0.18	0.12	0.18	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	19	340	374	455	366	399	
Calcium (Ca ²⁺)	mg/l	19	32.0	49.6	64.0	48.1	58.0	
Sulphate (SO ₄ ²⁻)	mg/l	20	26	35	59	33	42	
Magnesium (Mg ²⁺)	mg/l	20	9.7	13.1	22.0	12.6	15.7	
Potassium (K ⁺)	mg/l	9	2.0	3.0	4.0	3.0	4.0	
Sodium (Na ⁺)	mg/l	9	10.0	14.6	19.1	15.5	18.9	
Manganese (Mn)	mg/l	16	0.005	0.393	2.870	0.050	1.419	
Iron (Fe)	mg/l	16	0.026	0.415	1.806	0.262	0.898	
Chloride (Cl ⁻)	mg/l	20	17	20	27	19	23	
Zinc (Zn) - Dissolved	µg/l	6	6.7	13.2	24.0	12.0	18.8	III
Copper (Cu) - Dissolved	µg/l	6	1.1	3.9	10.1	2.9	7.6	III
Chromium (Cr) - Dissolved	µg/l	6	0.4	1.1	1.8	1.1	1.7	II
Lead (Pb) - Dissolved	µg/l	3	4.2	6.8	10.1	6.2	9.3	III
Cadmium (Cd) - Dissolved	µg/l	6	0.08	0.39	1.12	0.28	0.80	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	6	0.27	1.31	2.32	1.42	1.95	III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	16	2.0	19.0	68.0	13.5	41.0	II
Copper (Cu)	µg/l	16	1.2	10.1	29.5	7.9	21.5	III
Chromium (Cr) - total	µg/l	16	0.4	3.3	12.6	2.1	6.3	II
Lead (Pb)	µg/l	15	1.6	6.4	13.5	6.5	11.2	IV
Cadmium (Cd)	µg/l	15	0.20	0.86	2.43	0.57	2.23	IV
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	16	0.04	3.05	10.71	2.81	5.40	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	15	0.002	0.010	0.015	0.011	0.014	
Anionic active surfactants	mg/l	10	0.016	0.027	0.040	0.027	0.032	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	2	0.020	0.025	0.030	0.025	0.029	I
pp'DDT	µg/l							
Atrazine	µg/l	1	< 0.060	< 0.060	< 0.060	0.060	0.060	II
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	9	0.130	41.127	320.000	3.500	92.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	9	0.020	1.725	4.900	1.200	3.780	
Faecal Streptococci	10 ³ CFU/100 ml	9	0.000	0.189	0.610	0.078	0.442	
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	676150 km ²	RO03
Distance from the mouth [km]	432.0	Altitude	16 m	
Location	us.Arges L			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	3050.0	5858.2	10800.0	5525.0	8865.2	
Temperature	°C	12	3.6	14.5	27.0	15.3	25.6	
Suspended Solids	mg/l	12	71	116	189	111	146	
Dissolved Oxygen	mg/l	12	6.9	9.1	11.2	9.0	7.2	I
BOD ₅	mg/l	11	2.9	3.7	4.4	3.7	4.4	II
COD _{Mn}	mg/l	12	5.0	6.2	8.2	6.1	7.2	II
COD _{Cr}	mg/l	12	5.3	11.2	15.8	11.2	14.2	II
TOC	mg/l							
DOC	mg/l							
pH		11	7.7	7.8	8.0	7.8	7.9	II
							7.8	II
Alkalinity	mmol/l	12	2.8	3.2	3.8	3.2	3.6	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	11	0.090	0.286	0.540	0.270	0.400	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.031	0.050	0.030	0.049	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	11	1.00	1.61	4.80	1.26	1.55	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.080	0.112	0.160	0.110	0.138	III
Total Phosphorus	mg/l	12	0.12	0.19	0.29	0.17	0.27	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	356	395	435	396	430	
Calcium (Ca ²⁺)	mg/l	12	57.6	67.2	78.4	66.4	74.9	
Sulphate (SO ₄ ²⁻)	mg/l	12	71	95	106	98	106	
Magnesium (Mg ²⁺)	mg/l	12	19.0	22.0	24.0	22.0	24.0	
Potassium (K ⁺)	mg/l	11	2.9	3.6	5.7	3.5	4.1	
Sodium (Na ⁺)	mg/l	12	14.4	22.7	30.4	22.4	27.9	
Manganese (Mn)	mg/l	9	0.028	0.365	2.450	0.095	0.665	
Iron (Fe)	mg/l	10	0.061	0.734	1.915	0.478	1.701	
Chloride (Cl ⁻)	mg/l	12	25	37	53	36	46	
Zinc (Zn) - Dissolved	µg/l	4	16.0	21.3	33.0	18.1	28.8	III
Copper (Cu) - Dissolved	µg/l	4	2.1	4.6	10.7	2.9	8.3	III
Chromium (Cr) - Dissolved	µg/l	4	0.4	1.1	1.8	1.1	1.8	II
Lead (Pb) - Dissolved	µg/l	2	7.0	7.7	8.5	7.7	8.3	III
Cadmium (Cd) - Dissolved	µg/l	4	0.08	0.27	0.53	0.23	0.46	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	4	0.23	1.58	2.91	1.59	2.63	III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	10	5.8	29.6	74.0	23.5	62.3	II
Copper (Cu)	µg/l	10	3.0	11.5	28.1	9.9	23.2	III
Chromium (Cr) - total	µg/l	10	0.7	3.8	9.5	3.9	5.8	II
Lead (Pb)	µg/l	9	3.7	8.0	16.4	5.4	12.9	IV
Cadmium (Cd)	µg/l	10	0.28	0.73	1.31	0.78	1.04	III
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	10	0.35	3.53	8.80	3.26	5.07	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	7	0.005	0.008	0.013	0.007	0.012	
Anionic active surfactants	mg/l	4	0.025	0.028	0.033	0.028	0.032	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	3	0.004	0.016	0.024	0.021	0.023	I
pp'DDT	µg/l							
Atrazine	µg/l	1	< 0.060	< 0.060	< 0.060	0.060	0.060	II
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	10	0.920	181.052	320.000	240.000	320.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	10	0.140	88.909	320.000	16.700	320.000	
Faecal Streptococci	10 ³ CFU/100 ml	10	0.000	0.627	3.200	0.200	1.202	
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	676150 km ²	RO03
Distance from the mouth [km]	432.0	Altitude	16 m	
Location	us.Arges M			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	3050.0	5858.2	10800.0	5525.0	8865.2	
Temperature	°C	12	3.0	14.1	26.7	14.9	24.8	
Suspended Solids	mg/l	12	62	93	144	92	107	
Dissolved Oxygen	mg/l	12	7.0	9.3	11.6	9.4	7.1	I
BOD ₅	mg/l	11	2.3	3.1	4.0	3.3	3.7	II
COD _{Mn}	mg/l	12	4.2	5.1	6.2	5.1	6.0	II
COD _{Cr}	mg/l	12	7.8	9.7	11.7	9.9	11.3	II
TOC	mg/l							
DOC	mg/l							
pH		11	7.7	7.7	7.9	7.7	7.8	II
							7.7	II
Alkalinity	mmol/l	12	2.4	2.9	3.2	2.9	3.2	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	11	0.020	0.192	0.300	0.190	0.290	II
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	< 0.005	0.019	0.040	0.020	0.030	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	11	0.86	1.34	3.60	1.11	1.34	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.070	0.090	0.150	0.085	0.109	III
Total Phosphorus	mg/l	12	0.11	0.17	0.29	0.15	0.24	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	328	368	424	360	410	
Calcium (Ca ²⁺)	mg/l	12	52.8	62.2	70.4	61.7	67.2	
Sulphate (SO ₄ ²⁻)	mg/l	12	65	84	97	86	89	
Magnesium (Mg ²⁺)	mg/l	12	14.5	17.2	19.5	17.0	19.2	
Potassium (K ⁺)	mg/l	11	2.1	3.0	4.1	3.0	3.5	
Sodium (Na ⁺)	mg/l	12	11.1	20.3	25.7	21.2	24.2	
Manganese (Mn)	mg/l	10	0.029	0.100	0.180	0.107	0.137	
Iron (Fe)	mg/l	11	0.101	0.759	1.871	0.656	1.207	
Chloride (Cl)	mg/l	12	18	33	43	34	39	
Zinc (Zn) - Dissolved	µg/l	4	10.1	24.7	56.6	16.0	44.4	III
Copper (Cu) - Dissolved	µg/l	4	2.0	9.0	27.6	3.2	20.6	III
Chromium (Cr) - Dissolved	µg/l	4	0.5	0.8	1.3	0.8	1.2	II
Lead (Pb) - Dissolved	µg/l	2	8.1	8.7	9.2	8.7	9.1	III
Cadmium (Cd) - Dissolved	µg/l	4	0.10	0.15	0.23	0.13	0.21	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	4	0.25	3.08	6.44	2.82	5.50	III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	11	5.2	24.5	71.2	23.0	35.2	II
Copper (Cu)	µg/l	11	3.0	10.1	34.2	8.2	13.1	II
Chromium (Cr) - total	µg/l	11	0.6	3.5	7.5	3.0	6.3	II
Lead (Pb)	µg/l	10	2.9	7.6	12.2	6.6	11.4	IV
Cadmium (Cd)	µg/l	11	0.22	1.12	4.95	0.47	2.39	IV
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	11	0.17	3.43	7.22	3.61	6.43	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	7	0.005	0.006	0.009	0.005	0.009	
Anionic active surfactants	mg/l	4	0.026	0.028	0.031	0.028	0.031	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	3	0.008	0.011	0.013	0.012	0.013	I
pp'DDT	µg/l	1	0.004	0.004	0.004	0.004	0.004	II
Atrazine	µg/l	1	< 0.060	< 0.060	< 0.060	0.060	0.060	II
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	10	2.600	170.060	320.000	176.000	320.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	10	0.060	60.548	320.000	4.300	176.000	
Faecal Streptococci	10 ³ CFU/100 ml	10	0.018	1.603	14.000	0.200	1.805	
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	676150 km ²	RO03
Distance from the mouth [km]	432.0	Altitude	16 m	
Location	us.Arges R			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	3050.0	5858.2	10800.0	5525.0	8865.2	
Temperature	°C	12	3.3	14.4	27.1	15.1	25.3	
Suspended Solids	mg/l	12	69	104	156	101	122	
Dissolved Oxygen	mg/l	12	6.8	9.2	11.2	9.2	7.4	I
BOD ₅	mg/l	11	2.7	3.4	4.2	3.5	4.0	II
COD _{Mn}	mg/l	12	4.8	5.8	7.6	5.7	6.6	II
COD _{Cr}	mg/l	12	8.4	10.9	14.1	10.8	12.9	II
TOC	mg/l							
DOC	mg/l							
pH		11	7.7	7.8	7.9	7.8	7.9	II
							7.7	II
Alkalinity	mmol/l	12	2.7	3.1	3.7	3.0	3.6	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	11	0.130	0.236	0.420	0.220	0.340	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.033	0.090	0.030	0.049	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	11	0.91	1.46	4.20	1.19	1.41	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.090	0.108	0.140	0.100	0.129	III
Total Phosphorus	mg/l	12	0.15	0.18	0.26	0.18	0.24	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	334	383	427	380	420	
Calcium (Ca ²⁺)	mg/l	12	56.0	64.9	75.2	64.0	73.2	
Sulphate (SO ₄ ²⁻)	mg/l	12	76	91	102	92	100	
Magnesium (Mg ²⁺)	mg/l	12	14.5	19.2	22.0	19.2	22.0	
Potassium (K ⁺)	mg/l	11	2.3	3.1	4.9	2.9	3.5	
Sodium (Na ⁺)	mg/l	12	12.9	20.4	28.9	19.8	26.0	
Manganese (Mn)	mg/l	9	0.028	0.095	0.218	0.079	0.140	
Iron (Fe)	mg/l	10	0.092	0.936	4.447	0.460	1.760	
Chloride (Cl ⁻)	mg/l	12	21	32	50	28	42	
Zinc (Zn) - Dissolved	µg/l	4	4.9	15.5	24.0	16.5	22.8	III
Copper (Cu) - Dissolved	µg/l	4	2.3	4.7	10.1	3.2	8.3	III
Chromium (Cr) - Dissolved	µg/l	4	0.5	0.8	1.5	0.6	1.3	II
Lead (Pb) - Dissolved	µg/l	2	9.0	9.5	10.1	9.5	10.0	III
Cadmium (Cd) - Dissolved	µg/l	4	0.06	0.20	0.47	0.13	0.38	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	4	0.23	1.20	2.32	1.13	2.10	III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	10	6.6	25.1	92.1	16.5	39.5	II
Copper (Cu)	µg/l	10	3.0	10.5	21.1	8.1	19.7	III
Chromium (Cr) - total	µg/l	10	0.7	6.3	15.5	3.9	12.8	II
Lead (Pb)	µg/l	9	2.8	7.7	19.2	7.1	11.2	IV
Cadmium (Cd)	µg/l	10	0.17	1.12	4.78	0.55	2.08	IV
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	10	0.53	5.03	14.01	4.06	8.71	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	7	0.005	0.007	0.011	0.006	0.011	
Anionic active surfactants	mg/l	4	0.025	0.028	0.034	0.027	0.032	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	1	0.068	0.068	0.068	0.068	0.068	II
pp'DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	10	4.300	150.640	320.000	96.000	320.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	10	0.390	35.685	320.000	2.200	51.800	
Faecal Streptococci	10 ³ CFU/100 ml	10	0.000	0.280	0.600	0.285	0.465	
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	698600 km ²	RO04
Distance from the mouth [km]	375.0	Altitude	13 m	
Location	Chicui/Silistra L			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	3107.0	5919.4	10490.0	5625.0	8802.0	
Temperature	°C	23	2.0	14.5	32.0	16.0	23.4	
Suspended Solids	mg/l	23	2	13	40	8	27	
Dissolved Oxygen	mg/l	23	6.2	9.5	15.2	8.8	7.0	I
BOD ₅	mg/l	20	0.3	2.0	4.8	1.7	3.9	II
COD _{Mn}	mg/l	21	2.4	4.4	11.5	4.0	6.1	II
COD _{Cr}	mg/l	22	8.0	18.0	52.0	16.0	27.9	III
TOC	mg/l							
DOC	mg/l							
pH		22	7.0	7.9	8.3	8.0	8.2	II
							7.6	II
Alkalinity	mmol/l	21	2.5	3.0	3.5	3.1	3.4	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	23	0.192	0.476	1.355	0.420	0.802	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	23	0.008	0.045	0.380	0.028	0.055	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	23	0.59	1.85	2.63	1.95	2.45	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	23	< 0.005	0.024	0.045	0.022	0.037	I
Total Phosphorus	mg/l	21	0.01	0.05	0.12	0.04	0.10	I
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	23	354	443	640	420	528	
Calcium (Ca ²⁺)	mg/l	20	31.1	50.7	68.7	49.5	61.4	
Sulphate (SO ₄ ²⁻)	mg/l	21	12	29	50	30	38	
Magnesium (Mg ²⁺)	mg/l	21	8.9	21.1	38.9	19.0	35.2	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	19	0.019	0.062	0.125	0.055	0.103	
Iron (Fe)	mg/l	18	0.077	0.422	0.872	0.386	0.777	
Chloride (Cl ⁻)	mg/l	23	14	33	50	36	43	
Zinc (Zn) - Dissolved	µg/l	2	7.7	27.4	47.0	27.4	43.1	III
Copper (Cu) - Dissolved	µg/l	2	1.0	2.7	4.3	2.7	4.0	III
Chromium (Cr) - Dissolved	µg/l	2	0.1	0.3	0.4	0.3	0.4	II
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l	2	0.27	0.29	0.31	0.29	0.31	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	2	0.42	0.86	1.29	0.86	1.20	III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	19	2.0	17.8	54.0	12.6	36.9	II
Copper (Cu)	µg/l	18	2.0	7.4	20.6	6.6	11.3	II
Chromium (Cr) - total	µg/l	19	0.5	2.1	5.6	2.0	3.2	II
Lead (Pb)	µg/l	17	1.6	7.2	13.6	6.8	12.3	IV
Cadmium (Cd)	µg/l	19	0.03	1.36	7.48	0.63	2.99	IV
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	17	0.58	4.08	14.25	3.10	7.32	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	2	0.012	0.014	0.016	0.014	0.016	
Anionic active surfactants	mg/l	4	0.036	0.071	0.111	0.069	0.100	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	3	0.012	0.020	0.033	0.014	0.029	I
pp'DDT	µg/l	2	0.003	0.010	0.016	0.010	0.015	III
Atrazine	µg/l	2	< 0.060	< 0.060	< 0.060	0.060	0.060	II
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	16	0.490	90.587	240.000	70.500	170.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	13	0.020	20.004	160.000	0.200	74.220	
Faecal Streptococci	10 ³ CFU/100 ml	16	0.020	1.319	16.000	0.098	1.950	
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	698600 km ²	RO04
Distance from the mouth [km]	375.0	Altitude	13 m	
Location	Chicui/Silistra M			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	3107.0	5919.4	10490.0	5625.0	8802.0	
Temperature	°C	23	2.0	14.2	32.0	16.0	23.3	
Suspended Solids	mg/l	23	3	14	60	9	30	
Dissolved Oxygen	mg/l	23	7.2	9.5	14.9	9.5	7.6	I
BOD ₅	mg/l	19	1.1	1.9	3.2	1.7	3.0	II
COD _{Mn}	mg/l	20	2.1	4.0	7.5	3.9	5.7	II
COD _{Cr}	mg/l	21	7.0	15.7	30.0	15.0	21.0	II
TOC	mg/l							
DOC	mg/l							
pH		22	6.8	7.9	8.3	8.0	8.2	II
							7.5	II
Alkalinity	mmol/l	21	2.5	3.1	3.8	3.1	3.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	23	0.040	0.443	1.050	0.375	0.969	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	23	0.005	0.040	0.380	0.024	0.045	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	23	1.20	1.89	2.71	1.95	2.33	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	23	< 0.005	0.040	0.451	0.019	0.044	I
Total Phosphorus	mg/l	21	0.01	0.06	0.52	0.04	0.09	I
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	23	343	422	530	410	495	
Calcium (Ca ²⁺)	mg/l	20	32.3	51.5	68.8	51.2	63.7	
Sulphate (SO ₄ ²⁻)	mg/l	21	13	28	58	26	41	
Magnesium (Mg ²⁺)	mg/l	21	9.2	19.4	35.2	18.7	28.2	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	20	0.009	0.057	0.113	0.057	0.073	
Iron (Fe)	mg/l	19	0.039	0.570	1.282	0.512	1.036	
Chloride (Cl ⁻)	mg/l	23	21	30	50	29	41	
Zinc (Zn) - Dissolved	µg/l	2	4.5	5.0	5.5	5.0	5.4	III
Copper (Cu) - Dissolved	µg/l	2	2.2	3.0	3.9	3.0	3.7	III
Chromium (Cr) - Dissolved	µg/l	2	0.4	0.5	0.6	0.5	0.6	II
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l	2	0.33	0.34	0.35	0.34	0.34	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	2	0.80	1.06	1.32	1.06	1.27	III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	20	3.0	17.3	39.0	17.4	28.4	II
Copper (Cu)	µg/l	19	0.1	8.4	20.6	7.4	15.2	II
Chromium (Cr) - total	µg/l	20	0.8	2.4	6.6	1.9	4.4	II
Lead (Pb)	µg/l	18	1.6	6.5	11.5	6.3	10.2	IV
Cadmium (Cd)	µg/l	20	0.11	1.82	17.60	0.61	2.64	IV
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	18	0.39	5.80	29.38	3.15	14.45	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	2	0.011	0.012	0.012	0.012	0.012	
Anionic active surfactants	mg/l	4	0.034	0.064	0.114	0.054	0.097	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	4	0.002	0.018	0.028	0.021	0.027	I
pp'DDT	µg/l	2	0.008	0.010	0.011	0.010	0.011	III
Atrazine	µg/l	2	< 0.060	< 0.060	< 0.060	0.060	0.060	II
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	16	3.300	46.581	160.000	16.500	160.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	13	0.020	15.595	160.000	0.200	29.600	
Faecal Streptococci	10 ³ CFU/100 ml	16	0.020	1.462	16.000	0.020	3.250	
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	698600 km ²	RO04
Distance from the mouth [km]	375.0	Altitude	13 m	
Location	Chiciu/Silistra R			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	3107.0	5919.4	10490.0	5625.0	8802.0	
Temperature	°C	23	2.0	14.5	32.0	16.0	23.4	
Suspended Solids	mg/l	23	3	18	100	9	34	
Dissolved Oxygen	mg/l	23	7.1	9.4	14.8	8.9	7.7	I
BOD ₅	mg/l	19	0.9	1.8	4.4	1.6	2.3	I
COD _{Mn}	mg/l	20	2.2	4.0	7.8	3.5	5.7	II
COD _{Cr}	mg/l	21	8.0	15.4	30.0	15.0	21.0	II
TOC	mg/l							
DOC	mg/l							
pH		22	7.0	8.0	8.3	8.0	8.2	II
							7.8	II
Alkalinity	mmol/l	21	2.4	3.0	3.6	2.9	3.4	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	23	0.120	0.398	1.090	0.290	0.936	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	23	0.011	0.031	0.150	0.023	0.048	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	23	1.11	1.90	2.57	1.99	2.39	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	23	< 0.005	0.025	0.061	0.025	0.042	I
Total Phosphorus	mg/l	21	0.01	0.05	0.14	0.03	0.12	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	23	355	413	495	414	468	
Calcium (Ca ²⁺)	mg/l	20	31.1	50.0	64.7	49.5	57.8	
Sulphate (SO ₄ ²⁻)	mg/l	21	11	27	48	28	38	
Magnesium (Mg ²⁺)	mg/l	21	11.1	21.5	35.5	19.6	29.4	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	19	0.019	0.053	0.090	0.052	0.080	
Iron (Fe)	mg/l	18	0.155	0.533	1.154	0.488	0.962	
Chloride (Cl ⁻)	mg/l	23	21	29	44	28	37	
Zinc (Zn) - Dissolved	µg/l	2	4.7	5.1	5.4	5.1	5.3	III
Copper (Cu) - Dissolved	µg/l	2	4.2	6.9	9.6	6.9	9.0	III
Chromium (Cr) - Dissolved	µg/l	2	0.4	0.4	0.5	0.4	0.5	II
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l	2	0.29	0.30	0.31	0.30	0.31	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	2	0.10	0.96	1.81	0.96	1.64	III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	19	2.0	13.5	31.2	12.9	25.8	II
Copper (Cu)	µg/l	18	2.8	10.5	29.9	8.9	17.8	II
Chromium (Cr) - total	µg/l	19	0.8	2.8	11.5	1.8	5.4	II
Lead (Pb)	µg/l	17	1.0	6.8	11.8	7.5	10.8	IV
Cadmium (Cd)	µg/l	19	0.14	0.97	2.78	0.51	2.46	IV
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	17	0.30	3.84	16.24	2.79	8.37	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	2	0.011	0.012	0.012	0.012	0.012	
Anionic active surfactants	mg/l	4	0.028	0.062	0.118	0.051	0.101	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	2	0.008	0.011	0.013	0.011	0.013	I
pp'DDT	µg/l							
Atrazine	µg/l	2	< 0.060	< 0.060	< 0.060	0.060	0.060	II
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	16	0.330	50.246	160.000	14.500	160.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	13	0.020	13.539	160.000	0.200	8.160	
Faecal Streptococci	10 ³ CFU/100 ml	16	0.018	0.651	5.400	0.094	1.850	
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	805700	km ²	RO05
Distance from the mouth [km]	132.0	Altitude	4	m	
Location	Reni - Chilia/Kilia arm L				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	3380.0	6304.3	10600.0	5960.0	9318.0	
Temperature	°C	23	0.5	13.8	27.0	13.5	26.2	
Suspended Solids	mg/l	23	4	20	90	15	28	
Dissolved Oxygen	mg/l	22	5.9	8.7	12.1	8.2	6.6	II
BOD ₅	mg/l	23	0.8	1.5	2.7	1.4	2.2	I
COD _{Mn}	mg/l	23	2.1	3.9	6.7	3.6	5.2	II
COD _{Cr}	mg/l	23	6.0	15.8	28.0	15.0	22.8	II
TOC	mg/l							
DOC	mg/l							
pH		22	7.4	8.0	8.5	8.0	8.5	II
							7.5	II
Alkalinity	mmol/l	21	2.6	3.1	4.8	3.1	3.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	23	0.092	0.346	0.997	0.360	0.556	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	23	0.011	0.043	0.132	0.043	0.061	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	23	1.18	1.85	2.93	1.83	2.65	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	23	0.005	0.025	0.096	0.022	0.038	I
Total Phosphorus	mg/l	21	0.02	0.07	0.20	0.05	0.13	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	23	347	420	584	418	470	
Calcium (Ca ²⁺)	mg/l	20	46.5	56.1	72.1	56.1	65.6	
Sulphate (SO ₄ ²⁻)	mg/l	21	14	27	35	30	34	
Magnesium (Mg ²⁺)	mg/l	21	8.9	17.8	29.1	17.2	23.3	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	19	0.024	0.072	0.354	0.054	0.091	
Iron (Fe)	mg/l	17	0.084	0.502	1.969	0.321	0.858	
Chloride (Cl ⁻)	mg/l	23	21	35	58	29	55	
Zinc (Zn) - Dissolved	µg/l	2	5.4	6.7	7.9	6.7	7.7	III
Copper (Cu) - Dissolved	µg/l	2	2.0	2.4	2.8	2.4	2.7	III
Chromium (Cr) - Dissolved	µg/l	2	0.6	1.1	1.5	1.1	1.5	II
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l	2	0.31	0.31	0.31	0.31	0.31	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	2	0.30	0.48	0.65	0.48	0.62	II
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	19	2.0	16.5	83.0	14.0	31.0	II
Copper (Cu)	µg/l	18	2.0	9.0	16.4	8.6	13.6	II
Chromium (Cr) - total	µg/l	19	0.6	2.3	8.4	1.5	4.7	II
Lead (Pb)	µg/l	16	1.7	6.1	12.4	6.4	8.6	III
Cadmium (Cd)	µg/l	19	0.10	2.20	11.63	0.65	7.15	V
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	17	0.50	3.26	11.12	2.23	7.00	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	1	0.011	0.011	0.011	0.011	0.011	
Anionic active surfactants	mg/l	7	0.029	0.053	0.087	0.052	0.076	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	3	0.007	0.010	0.014	0.009	0.013	I
pp'DDT	µg/l	1	0.002	0.002	0.002	0.002	0.002	II
Atrazine	µg/l	1	< 0.060	< 0.060	< 0.060	0.060	0.060	II
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	14	0.200	22.831	160.000	1.200	80.500	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	11	0.020	4.390	47.000	0.200	0.200	
Faecal Streptococci	10 ³ CFU/100 ml	14	0.020	0.255	2.200	0.045	0.415	
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	805700	km ²	RO05
Distance from the mouth [km]	132.0	Altitude	4	m	
Location	Reni - Chilia/Kilia arm M				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	3380.0	6304.3	10600.0	5960.0	9318.0	
Temperature	°C	23	0.5	13.8	27.0	13.5	26.2	
Suspended Solids	mg/l	23	4	19	46	16	32	
Dissolved Oxygen	mg/l	22	6.1	8.6	12.0	8.3	6.7	II
BOD ₅	mg/l	23	1.0	1.5	2.3	1.5	1.8	I
COD _{Mn}	mg/l	23	2.4	4.1	7.9	3.6	6.3	II
COD _{Cr}	mg/l	23	8.0	16.4	28.0	15.0	24.2	II
TOC	mg/l							
DOC	mg/l							
pH		22	7.5	8.0	8.5	8.1	8.5	II
							7.5	II
Alkalinity	mmol/l	21	2.6	3.1	4.4	3.1	3.4	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	23	0.062	0.338	1.095	0.275	0.612	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	23	0.005	0.042	0.168	0.037	0.064	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	23	0.81	1.79	2.73	1.85	2.34	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	23	0.005	0.029	0.102	0.021	0.066	II
Total Phosphorus	mg/l	21	0.01	0.06	0.19	0.06	0.13	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	23	354	435	547	438	498	
Calcium (Ca ²⁺)	mg/l	20	45.8	56.2	72.1	56.1	65.2	
Sulphate (SO ₄ ²⁻)	mg/l	21	12	28	48	26	41	
Magnesium (Mg ²⁺)	mg/l	21	12.1	17.2	27.2	16.2	23.1	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	19	0.019	0.392	6.076	0.055	0.224	
Iron (Fe)	mg/l	18	0.069	0.777	3.490	0.428	1.720	
Chloride (Cl ⁻)	mg/l	23	21	32	44	29	37	
Zinc (Zn) - Dissolved	µg/l	2	5.9	5.9	5.9	5.9	5.9	III
Copper (Cu) - Dissolved	µg/l	2	2.1	2.5	2.9	2.5	2.8	III
Chromium (Cr) - Dissolved	µg/l	2	0.6	0.7	0.8	0.7	0.8	II
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l	2	0.30	0.30	0.31	0.30	0.31	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	2	0.73	1.14	1.54	1.14	1.46	III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	19	2.0	18.6	74.0	10.8	41.4	II
Copper (Cu)	µg/l	17	1.0	7.4	13.5	7.2	11.1	II
Chromium (Cr) - total	µg/l	19	0.2	1.8	5.8	1.4	3.9	II
Lead (Pb)	µg/l	16	1.2	5.9	12.0	5.6	10.6	IV
Cadmium (Cd)	µg/l	19	0.10	2.56	12.16	0.93	7.06	V
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	17	0.41	3.96	18.64	3.25	5.84	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	1	0.010	0.010	0.010	0.010	0.010	
Anionic active surfactants	mg/l	7	0.025	0.040	0.074	0.028	0.070	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	4	0.002	0.015	0.027	0.016	0.027	I
pp'DDT	µg/l	1	0.005	0.005	0.005	0.005	0.005	II
Atrazine	µg/l	1	< 0.060	< 0.060	< 0.060	0.060	0.060	II
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	14	0.180	29.633	160.000	3.800	128.200	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	11	0.020	3.646	22.000	0.200	16.000	
Faecal Streptococci	10 ³ CFU/100 ml	14	0.020	0.445	5.400	0.043	0.183	
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	805700	km ²	RO05
Distance from the mouth [km]	132.0	Altitude	4	m	
Location	Reni - Chilia/Kilia arm R				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	3380.0	6304.3	10600.0	5960.0	9318.0	
Temperature	°C	23	0.5	13.8	27.0	13.5	26.2	
Suspended Solids	mg/l	23	4	19	80	14	28	
Dissolved Oxygen	mg/l	22	6.2	8.7	11.9	7.9	6.7	II
BOD ₅	mg/l	23	0.9	1.6	2.3	1.6	2.1	I
COD _{Mn}	mg/l	23	2.7	4.1	5.8	3.9	5.6	II
COD _{Cr}	mg/l	23	5.0	15.6	25.0	16.0	21.6	II
TOC	mg/l							
DOC	mg/l							
pH		22	7.0	8.0	8.5	8.1	8.4	II
							7.5	II
Alkalinity	mmol/l	21	2.4	3.1	4.4	3.1	3.6	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	23	0.062	0.356	0.952	0.271	0.722	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	23	0.012	0.040	0.194	0.027	0.074	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	23	1.18	1.85	2.55	1.90	2.34	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	23	0.005	0.030	0.089	0.024	0.057	II
Total Phosphorus	mg/l	21	0.01	0.06	0.18	0.05	0.12	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	23	357	428	545	428	481	
Calcium (Ca ²⁺)	mg/l	20	46.4	55.5	72.1	56.1	64.8	
Sulphate (SO ₄ ²⁻)	mg/l	20	10	27	43	27	40	
Magnesium (Mg ²⁺)	mg/l	21	10.0	17.1	26.9	17.0	22.3	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	18	0.022	0.064	0.173	0.055	0.107	
Iron (Fe)	mg/l	16	0.169	0.827	3.230	0.588	1.364	
Chloride (Cl ⁻)	mg/l	23	18	29	44	28	37	
Zinc (Zn) - Dissolved	µg/l	2	6.6	6.6	6.6	6.6	6.6	III
Copper (Cu) - Dissolved	µg/l	2	2.6	7.9	13.2	7.9	12.1	III
Chromium (Cr) - Dissolved	µg/l	2	0.9	1.0	1.1	1.0	1.1	II
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l	2	0.30	0.53	0.76	0.53	0.71	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	2	0.47	0.70	0.92	0.70	0.88	II
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	18	2.0	14.3	44.0	8.2	30.7	II
Copper (Cu)	µg/l	17	1.3	11.8	77.9	7.2	15.2	II
Chromium (Cr) - total	µg/l	18	0.4	2.4	9.3	1.7	4.1	II
Lead (Pb)	µg/l	16	1.3	6.2	11.6	6.0	10.4	IV
Cadmium (Cd)	µg/l	18	0.11	3.15	18.69	1.05	8.09	V
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	17	0.45	3.76	18.33	1.86	9.15	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	1	0.011	0.011	0.011	0.011	0.011	
Anionic active surfactants	mg/l	7	0.026	0.046	0.092	0.034	0.082	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	4	0.003	0.015	0.027	0.014	0.025	I
pp'DDT	µg/l							
Atrazine	µg/l	1	< 0.060	< 0.060	< 0.060	0.060	0.060	II
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	14	0.140	38.822	160.000	1.200	160.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	11	0.020	0.588	4.900	0.200	0.450	
Faecal Streptococci	10 ³ CFU/100 ml	14	0.020	0.350	2.400	0.069	1.268	
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	817000	km ²	RO06
Distance from the mouth [km]	18.0	Altitude	1	m	
Location	Vilkova - Chilia arm/Kilia arm L				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	1400.0	3207.0	5460.0	3040.0	4780.0	
Temperature	°C	12	0.5	14.2	27.0	14.3	25.6	
Suspended Solids	mg/l	12	8	19	60	16	29	
Dissolved Oxygen	mg/l	11	6.0	8.3	11.2	8.3	6.6	II
BOD ₅	mg/l	10	0.7	1.3	2.1	1.2	1.9	I
COD _{Mn}	mg/l	11	2.9	4.2	7.2	3.6	5.4	II
COD _{Cr}	mg/l	11	6.0	16.2	30.0	17.0	24.0	II
TOC	mg/l							
DOC	mg/l							
pH		12	6.7	7.8	8.5	7.7	8.5	II
							7.4	II
Alkalinity	mmol/l	12	2.5	3.0	3.4	3.0	3.4	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.054	0.351	0.690	0.359	0.650	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	< 0.005	0.045	0.190	0.024	0.112	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.79	1.61	2.62	1.59	2.11	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	< 0.005	0.038	0.165	0.032	0.046	I
Total Phosphorus	mg/l	11	0.01	0.09	0.23	0.05	0.21	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	357	434	508	434	480	
Calcium (Ca ²⁺)	mg/l	12	45.8	56.4	74.9	52.1	73.3	
Sulphate (SO ₄ ²⁻)	mg/l	12	15	29	47	28	38	
Magnesium (Mg ²⁺)	mg/l	12	8.9	15.9	19.6	15.9	19.6	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	10	0.037	0.071	0.188	0.063	0.103	
Iron (Fe)	mg/l	9	0.319	0.767	2.215	0.627	1.237	
Chloride (Cl ⁻)	mg/l	12	22	34	59	32	37	
Zinc (Zn) - Dissolved	µg/l	1	5.6	5.6	5.6	5.6	5.6	III
Copper (Cu) - Dissolved	µg/l	1	2.1	2.1	2.1	2.1	2.1	III
Chromium (Cr) - Dissolved	µg/l	1	0.3	0.3	0.3	0.3	0.3	II
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l	1	0.31	0.31	0.31	0.31	0.31	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	1	1.12	1.12	1.12	1.12	1.12	III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	10	2.0	12.5	30.0	6.6	23.7	II
Copper (Cu)	µg/l	9	4.4	9.0	20.2	7.6	12.2	III
Chromium (Cr) - total	µg/l	10	0.7	2.0	4.2	1.9	3.5	II
Lead (Pb)	µg/l	10	0.2	5.4	10.2	6.2	9.0	IV
Cadmium (Cd)	µg/l	9	0.39	2.98	8.82	2.36	7.02	V
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	9	0.34	4.02	11.60	2.18	10.34	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	1	0.006	0.006	0.006	0.006	0.006	
Anionic active surfactants	mg/l	3	0.025	0.030	0.039	0.025	0.036	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	3	0.004	0.013	0.024	0.011	0.021	I
pp'DDT	µg/l							
Atrazine	µg/l	1	< 0.060	< 0.060	< 0.060	0.060	0.060	II
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	5	0.240	6.668	24.000	1.300	17.200	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	4	0.120	0.280	0.600	0.200	0.480	
Faecal Streptococci	10 ³ CFU/100 ml	5	0.020	0.032	0.078	0.020	0.055	
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	817000	km ²	RO06
Distance from the mouth [km]	18.0	Altitude	1	m	
Location	Vilkova - Chilia arm/Kilia arm M				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	1400.0	3207.0	5460.0	3040.0	4780.0	
Temperature	°C	12	0.5	14.2	27.0	14.3	25.6	
Suspended Solids	mg/l	12	8	27	120	17	38	
Dissolved Oxygen	mg/l	11	6.0	8.4	11.1	8.5	6.8	II
BOD ₅	mg/l	10	1.1	1.5	2.0	1.4	2.0	I
COD _{Mn}	mg/l	11	3.0	4.2	6.3	3.9	5.4	II
COD _{Cr}	mg/l	11	8.0	14.9	24.0	14.0	21.0	II
TOC	mg/l							
DOC	mg/l							
pH		12	6.9	7.8	8.3	7.9	8.3	II
							7.4	II
Alkalinity	mmol/l	12	2.7	3.1	3.4	3.2	3.4	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.139	0.334	0.730	0.268	0.557	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.006	0.049	0.147	0.028	0.123	IV
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.07	1.72	2.68	1.77	2.27	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	< 0.005	0.042	0.175	0.037	0.068	II
Total Phosphorus	mg/l	11	0.01	0.09	0.29	0.05	0.20	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	368	436	507	435	492	
Calcium (Ca ²⁺)	mg/l	12	46.4	55.2	63.0	56.1	60.6	
Sulphate (SO ₄ ²⁻)	mg/l	12	11	28	48	27	46	
Magnesium (Mg ²⁺)	mg/l	12	11.6	16.4	27.2	15.9	19.4	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	11	0.030	0.082	0.221	0.054	0.157	
Iron (Fe)	mg/l	10	0.331	0.811	2.498	0.475	1.441	
Chloride (Cl ⁻)	mg/l	12	28	33	43	36	37	
Zinc (Zn) - Dissolved	µg/l	1	5.4	5.4	5.4	5.4	5.4	III
Copper (Cu) - Dissolved	µg/l	1	1.6	1.6	1.6	1.6	1.6	II
Chromium (Cr) - Dissolved	µg/l	1	0.6	0.6	0.6	0.6	0.6	II
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l	1	0.32	0.32	0.32	0.32	0.32	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	1	0.56	0.56	0.56	0.56	0.56	II
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	11	2.0	17.4	85.8	10.5	21.9	II
Copper (Cu)	µg/l	10	5.0	7.3	13.3	6.8	9.6	II
Chromium (Cr) - total	µg/l	11	0.3	4.0	15.4	2.5	8.0	II
Lead (Pb)	µg/l	11	0.3	6.2	10.9	6.6	9.3	III
Cadmium (Cd)	µg/l	10	0.34	2.30	7.10	1.95	5.06	V
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	10	0.13	3.15	10.99	2.71	7.12	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	1	0.005	0.005	0.005	0.005	0.005	
Anionic active surfactants	mg/l	3	0.024	0.027	0.032	0.026	0.031	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	3	0.006	0.007	0.009	0.006	0.008	I
pp'DDT	µg/l							
Atrazine	µg/l	1	< 0.060	< 0.060	< 0.060	0.060	0.060	II
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	5	1.300	10.860	24.000	8.400	20.800	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	4	0.200	1.150	3.600	0.400	2.700	
Faecal Streptococci	10 ³ CFU/100 ml	5	0.020	0.464	2.200	0.020	1.344	
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	817000	km ²	RO06
Distance from the mouth [km]	18.0	Altitude	1	m	
Location	Vilkova - Chilia arm/Kilia arm R				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	1400.0	3207.0	5460.0	3040.0	4780.0	
Temperature	°C	12	0.5	14.2	27.0	14.3	25.6	
Suspended Solids	mg/l	12	8	29	110	21	49	
Dissolved Oxygen	mg/l	11	6.7	8.5	11.4	8.3	7.1	I
BOD ₅	mg/l	10	1.1	1.5	1.9	1.4	1.8	I
COD _{Mn}	mg/l	11	2.7	4.4	9.4	4.0	5.4	II
COD _{Cr}	mg/l	11	9.0	18.0	29.0	16.0	28.0	III
TOC	mg/l							
DOC	mg/l							
pH		12	6.8	7.8	8.5	8.0	8.3	II
							6.9	II
Alkalinity	mmol/l	12	2.5	2.9	3.4	3.0	3.2	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.048	0.414	0.980	0.338	0.779	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.005	0.039	0.133	0.028	0.080	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.15	1.72	2.74	1.60	2.35	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.005	0.025	0.058	0.022	0.048	I
Total Phosphorus	mg/l	11	0.01	0.09	0.24	0.06	0.22	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	372	434	514	434	479	
Calcium (Ca ²⁺)	mg/l	12	46.4	55.5	74.9	55.3	60.6	
Sulphate (SO ₄ ²⁻)	mg/l	12	14	31	54	30	47	
Magnesium (Mg ²⁺)	mg/l	12	9.4	18.5	36.9	16.9	22.8	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	10	0.034	0.068	0.232	0.054	0.078	
Iron (Fe)	mg/l	9	0.028	0.664	3.068	0.339	1.188	
Chloride (Cl ⁻)	mg/l	12	21	33	51	36	37	
Zinc (Zn) - Dissolved	µg/l	1	5.8	5.8	5.8	5.8	5.8	III
Copper (Cu) - Dissolved	µg/l	1	1.3	1.3	1.3	1.3	1.3	II
Chromium (Cr) - Dissolved	µg/l	1	0.4	0.4	0.4	0.4	0.4	II
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l	1	0.29	0.29	0.29	0.29	0.29	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	1	0.49	0.49	0.49	0.49	0.49	II
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	10	2.0	10.5	29.0	6.5	24.5	II
Copper (Cu)	µg/l	10	3.4	7.4	14.3	6.5	12.1	II
Chromium (Cr) - total	µg/l	10	0.8	3.9	14.4	2.1	10.7	II
Lead (Pb)	µg/l	10	0.2	5.2	10.5	5.2	10.0	IV
Cadmium (Cd)	µg/l	9	0.17	3.25	6.30	3.30	6.05	V
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	9	0.52	4.49	15.00	2.93	11.56	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	1	0.008	0.008	0.008	0.008	0.008	
Anionic active surfactants	mg/l	3	0.026	0.033	0.038	0.034	0.037	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	3	0.003	0.006	0.008	0.008	0.008	I
pp'DDT	µg/l							
Atrazine	µg/l	1	< 0.060	< 0.060	< 0.060	0.060	0.060	II
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	5	0.480	8.596	35.000	2.300	22.400	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	4	0.020	0.380	1.100	0.200	0.830	
Faecal Streptococci	10 ³ CFU/100 ml	5	0.018	0.028	0.060	0.020	0.044	
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	817000	km ²	RO07
Distance from the mouth [km]	0.0	Altitude	1	m	
Location	Sulina - Sulina arm L				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	435.0	1300.2	2230.0	1280.0	1830.0	
Temperature	°C	11	0.5	13.1	26.5	13.5	22.5	
Suspended Solids	mg/l	12	9	25	120	13	41	
Dissolved Oxygen	mg/l	11	6.7	8.5	10.7	8.5	7.0	I
BOD ₅	mg/l	10	0.8	1.5	2.0	1.3	2.0	I
COD _{Mn}	mg/l	11	2.2	4.3	7.3	4.3	5.0	I
COD _{Cr}	mg/l	11	6.0	17.5	32.0	18.0	20.0	II
TOC	mg/l							
DOC	mg/l							
pH		12	7.1	7.7	8.5	7.7	8.3	II
							7.1	II
Alkalinity	mmol/l	12	2.5	3.1	3.7	3.4	3.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.140	0.452	1.330	0.365	0.942	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.011	0.092	0.443	0.044	0.185	IV
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.73	1.53	2.54	1.52	2.07	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.005	0.026	0.062	0.024	0.057	II
Total Phosphorus	mg/l	11	0.02	0.07	0.20	0.06	0.17	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	361	433	498	433	490	
Calcium (Ca ²⁺)	mg/l	12	44.9	54.3	64.7	54.8	62.0	
Sulphate (SO ₄ ²⁻)	mg/l	12	17	30	45	31	45	
Magnesium (Mg ²⁺)	mg/l	12	11.6	17.4	27.2	17.0	21.1	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	10	0.015	0.049	0.114	0.047	0.078	
Iron (Fe)	mg/l	9	0.221	0.548	1.214	0.480	0.949	
Chloride (Cl ⁻)	mg/l	12	21	32	44	29	37	
Zinc (Zn) - Dissolved	µg/l	1	5.5	5.5	5.5	5.5	5.5	III
Copper (Cu) - Dissolved	µg/l	1	1.8	1.8	1.8	1.8	1.8	II
Chromium (Cr) - Dissolved	µg/l	1	0.3	0.3	0.3	0.3	0.3	II
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l	1	0.30	0.30	0.30	0.30	0.30	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	1	0.78	0.78	0.78	0.78	0.78	II
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	10	2.0	12.7	32.1	11.7	22.1	II
Copper (Cu)	µg/l	10	1.6	9.5	16.1	9.5	14.4	II
Chromium (Cr) - total	µg/l	10	0.5	1.4	2.5	1.2	2.2	II
Lead (Pb)	µg/l	10	0.7	5.1	9.1	5.9	8.9	III
Cadmium (Cd)	µg/l	9	0.43	3.20	11.17	2.20	6.23	V
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	9	0.10	2.70	6.53	2.41	6.43	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	1	0.015	0.015	0.015	0.015	0.015	
Anionic active surfactants	mg/l	3	0.025	0.042	0.068	0.034	0.061	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	3	0.002	0.007	0.011	0.009	0.011	I
pp'DDT	µg/l							
Atrazine	µg/l	1	< 0.060	< 0.060	< 0.060	0.060	0.060	II
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	5	0.170	9.106	16.000	13.000	16.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	4	0.061	0.910	3.300	0.139	2.370	
Faecal Streptococci	10 ³ CFU/100 ml	5	0.020	0.035	0.078	0.020	0.062	
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	817000	km ²	RO07
Distance from the mouth [km]	0.0	Altitude	1	m	
Location	Sulina - Sulina arm M				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	435.0	1300.2	2230.0	1280.0	1830.0	
Temperature	°C	11	0.5	13.1	26.5	13.5	22.5	
Suspended Solids	mg/l	12	5	24	110	15	40	
Dissolved Oxygen	mg/l	11	6.8	8.4	11.2	8.4	6.9	II
BOD ₅	mg/l	10	1.2	1.8	2.9	1.6	2.3	I
COD _{Mn}	mg/l	11	2.8	4.5	7.8	4.2	5.5	II
COD _{Cr}	mg/l	11	8.0	16.7	27.0	16.0	26.0	III
TOC	mg/l							
DOC	mg/l							
pH		12	7.3	7.7	8.4	7.7	8.3	II
							7.3	II
Alkalinity	mmol/l	12	2.5	3.0	3.6	3.1	3.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.120	0.390	0.820	0.365	0.545	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.009	0.047	0.104	0.038	0.093	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.03	1.68	2.45	1.63	2.32	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.005	0.032	0.105	0.029	0.050	I
Total Phosphorus	mg/l	11	0.01	0.08	0.22	0.06	0.20	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	356	434	494	433	484	
Calcium (Ca ²⁺)	mg/l	12	44.5	54.0	60.7	55.4	60.1	
Sulphate (SO ₄ ²⁻)	mg/l	12	11	28	42	30	33	
Magnesium (Mg ²⁺)	mg/l	12	11.6	17.4	26.9	16.5	23.3	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	11	0.029	0.065	0.160	0.043	0.143	
Iron (Fe)	mg/l	10	0.192	0.641	1.728	0.518	1.301	
Chloride (Cl ⁻)	mg/l	12	22	34	44	36	43	
Zinc (Zn) - Dissolved	µg/l	1	7.0	7.0	7.0	7.0	7.0	III
Copper (Cu) - Dissolved	µg/l	1	2.4	2.4	2.4	2.4	2.4	III
Chromium (Cr) - Dissolved	µg/l	1	0.8	0.8	0.8	0.8	0.8	II
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l	1	0.30	0.30	0.30	0.30	0.30	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	1	0.88	0.88	0.88	0.88	0.88	II
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	11	2.2	25.1	128.2	14.0	29.8	II
Copper (Cu)	µg/l	11	4.2	8.3	16.6	7.0	14.2	II
Chromium (Cr) - total	µg/l	11	1.1	2.4	7.5	2.1	3.4	II
Lead (Pb)	µg/l	11	0.4	5.4	9.1	5.9	8.9	III
Cadmium (Cd)	µg/l	10	0.34	2.64	10.79	1.34	6.59	V
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	10	0.23	2.29	4.41	2.33	3.38	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	1	0.011	0.011	0.011	0.011	0.011	
Anionic active surfactants	mg/l	3	0.032	0.058	0.091	0.051	0.083	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	3	0.007	0.009	0.013	0.007	0.012	I
pp'DDT	µg/l							
Atrazine	µg/l	1	< 0.060	< 0.060	< 0.060	0.060	0.060	II
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	5	0.200	3.360	8.100	3.300	6.260	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	4	0.200	0.505	1.400	0.210	1.046	
Faecal Streptococci	10 ³ CFU/100 ml	5	0.020	0.032	0.060	0.020	0.052	
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	817000	km ²	RO07
Distance from the mouth [km]	0.0	Altitude	1	m	
Location	Sulina - Sulina arm R				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	435.0	1300.2	2230.0	1280.0	1830.0	
Temperature	°C	11	0.5	13.1	26.5	13.5	22.5	
Suspended Solids	mg/l	12	8	37	170	20	64	
Dissolved Oxygen	mg/l	11	6.8	8.5	11.0	8.4	6.9	II
BOD ₅	mg/l	10	0.7	1.4	2.0	1.5	1.8	I
COD _{Mn}	mg/l	11	2.5	7.6	42.7	4.2	6.7	II
COD _{Cr}	mg/l	11	5.0	21.3	59.0	16.0	34.0	III
TOC	mg/l							
DOC	mg/l							
pH		12	7.1	7.7	8.4	7.7	8.3	II
							7.3	II
Alkalinity	mmol/l	12	2.3	3.0	3.7	3.2	3.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.138	0.475	2.120	0.221	0.899	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.011	0.058	0.222	0.040	0.091	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.13	1.62	2.31	1.58	1.96	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.005	0.031	0.073	0.026	0.052	II
Total Phosphorus	mg/l	11	0.02	0.09	0.25	0.06	0.22	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	359	434	493	434	480	
Calcium (Ca ²⁺)	mg/l	12	42.8	52.7	62.2	55.2	60.0	
Sulphate (SO ₄ ²⁻)	mg/l	12	4	26	38	27	36	
Magnesium (Mg ²⁺)	mg/l	12	11.6	18.8	36.2	17.1	23.0	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	10	0.034	0.062	0.158	0.047	0.086	
Iron (Fe)	mg/l	9	0.159	0.593	1.641	0.455	1.019	
Chloride (Cl ⁻)	mg/l	12	21	34	44	36	37	
Zinc (Zn) - Dissolved	µg/l	1	7.4	7.4	7.4	7.4	7.4	III
Copper (Cu) - Dissolved	µg/l	1	2.2	2.2	2.2	2.2	2.2	III
Chromium (Cr) - Dissolved	µg/l	1	0.4	0.4	0.4	0.4	0.4	II
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l	1	0.30	0.30	0.30	0.30	0.30	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	1	2.11	2.11	2.11	2.11	2.11	
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	10	2.0	14.9	42.0	10.8	36.8	II
Copper (Cu)	µg/l	10	6.1	7.3	9.5	7.0	8.4	II
Chromium (Cr) - total	µg/l	10	0.5	1.4	2.1	1.4	2.1	II
Lead (Pb)	µg/l	10	0.1	4.3	6.9	5.0	6.5	III
Cadmium (Cd)	µg/l	9	0.56	3.44	8.19	2.58	6.93	V
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	9	0.38	2.29	4.77	2.47	4.19	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	1	0.018	0.018	0.018	0.018	0.018	
Anionic active surfactants	mg/l	3	< 0.025	0.042	0.057	0.045	0.055	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	2	0.005	0.007	0.009	0.007	0.009	I
pp'DDT	µg/l							
Atrazine	µg/l	1	< 0.060	< 0.060	< 0.060	0.060	0.060	II
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	5	0.400	2.100	3.900	2.100	3.300	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	4	0.040	0.368	0.680	0.375	0.641	
Faecal Streptococci	10 ³ CFU/100 ml	5	0.020	0.059	0.130	0.045	0.109	
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	817000	km ²	RO08
Distance from the mouth [km]	0.0	Altitude	1	m	
Location	Sf.Gheorghe - Ghorghie arm L				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	830.0	1614.3	2560.0	1540.0	2300.0	
Temperature	°C	12	0.5	14.2	26.5	14.0	26.1	
Suspended Solids	mg/l	12	8	31	130	17	52	
Dissolved Oxygen	mg/l	11	6.6	8.6	11.1	8.3	6.8	II
BOD ₅	mg/l	10	0.9	1.4	2.0	1.4	1.8	I
COD _{Mn}	mg/l	11	3.4	4.4	6.8	4.1	5.4	II
COD _{Cr}	mg/l	11	8.0	17.1	35.0	16.0	21.0	II
TOC	mg/l							
DOC	mg/l							
pH		12	6.9	7.8	8.4	7.8	8.3	II
							7.1	II
Alkalinity	mmol/l	12	2.5	3.0	3.6	3.0	3.4	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.130	0.399	0.890	0.344	0.698	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.005	0.033	0.156	0.019	0.053	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.56	1.70	2.46	1.73	2.40	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	< 0.005	0.029	0.085	0.021	0.055	II
Total Phosphorus	mg/l	11	0.02	0.06	0.11	0.07	0.11	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	365	433	490	440	483	
Calcium (Ca ²⁺)	mg/l	12	45.8	53.3	60.7	53.3	60.6	
Sulphate (SO ₄ ²⁻)	mg/l	12	13	28	54	29	37	
Magnesium (Mg ²⁺)	mg/l	12	11.6	17.4	27.7	15.8	26.6	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	10	0.029	0.065	0.202	0.051	0.093	
Iron (Fe)	mg/l	9	0.264	0.660	1.791	0.515	1.177	
Chloride (Cl)	mg/l	12	21	33	43	36	37	
Zinc (Zn) - Dissolved	µg/l	1	6.2	6.2	6.2	6.2	6.2	III
Copper (Cu) - Dissolved	µg/l	1	1.2	1.2	1.2	1.2	1.2	II
Chromium (Cr) - Dissolved	µg/l	1	0.2	0.2	0.2	0.2	0.2	II
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l	1	0.30	0.30	0.30	0.30	0.30	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	1	0.25	0.25	0.25	0.25	0.25	II
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	10	2.0	9.1	22.9	7.8	20.3	II
Copper (Cu)	µg/l	10	1.9	7.0	13.7	7.2	9.8	II
Chromium (Cr) - total	µg/l	10	0.6	1.8	4.2	1.7	2.4	II
Lead (Pb)	µg/l	10	0.1	3.8	7.1	3.9	6.5	III
Cadmium (Cd)	µg/l	9	0.42	3.20	8.65	3.43	5.43	V
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	9	0.52	3.10	9.78	2.11	5.63	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	1	0.018	0.018	0.018	0.018	0.018	
Anionic active surfactants	mg/l	3	< 0.025	0.038	0.052	0.037	0.049	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	2	0.005	0.006	0.007	0.006	0.007	I
pp'DDT	µg/l	1	0.001	0.001	0.001	0.001	0.001	I
Atrazine	µg/l	1	< 0.060	< 0.060	< 0.060	0.060	0.060	II
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	5	0.200	3.840	16.000	0.700	10.280	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	4	0.045	0.386	1.100	0.200	0.830	
Faecal Streptococci	10 ³ CFU/100 ml	5	0.018	0.025	0.045	0.020	0.035	
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	817000	km ²	RO08
Distance from the mouth [km]	0.0	Altitude	1	m	
Location	Sf.Gheorghe - Ghorghie arm M				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	830.0	1614.3	2560.0	1540.0	2300.0	
Temperature	°C	12	0.5	14.2	26.5	14.0	26.1	
Suspended Solids	mg/l	12	7	24	80	19	43	
Dissolved Oxygen	mg/l	11	6.9	8.6	11.1	8.4	7.1	I
BOD ₅	mg/l	10	0.7	1.4	2.1	1.5	2.0	I
COD _{Mn}	mg/l	11	3.4	4.4	7.2	4.2	5.0	I
COD _{Cr}	mg/l	11	6.0	14.7	22.0	16.0	19.0	II
TOC	mg/l							
DOC	mg/l							
pH		12	6.9	7.8	8.5	7.9	8.3	II
							7.1	II
Alkalinity	mmol/l	12	2.7	3.0	3.4	3.1	3.4	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.061	0.330	0.790	0.277	0.504	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	< 0.005	0.061	0.184	0.043	0.163	IV
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.99	1.70	2.59	1.68	2.38	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	< 0.005	0.030	0.085	0.018	0.082	II
Total Phosphorus	mg/l	11	0.01	0.07	0.15	0.08	0.12	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	358	433	486	436	481	
Calcium (Ca ²⁺)	mg/l	12	46.4	56.2	70.5	55.5	62.1	
Sulphate (SO ₄ ²⁻)	mg/l	12	12	28	54	26	41	
Magnesium (Mg ²⁺)	mg/l	12	9.4	17.0	26.9	14.7	25.4	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	11	0.032	0.080	0.231	0.063	0.136	
Iron (Fe)	mg/l	10	0.202	0.752	2.765	0.360	1.736	
Chloride (Cl ⁻)	mg/l	12	28	34	37	36	37	
Zinc (Zn) - Dissolved	µg/l	1	5.1	5.1	5.1	5.1	5.1	III
Copper (Cu) - Dissolved	µg/l	1	1.6	1.6	1.6	1.6	1.6	II
Chromium (Cr) - Dissolved	µg/l	1	0.5	0.5	0.5	0.5	0.5	II
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l	1	0.30	0.30	0.30	0.30	0.30	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	1	0.61	0.61	0.61	0.61	0.61	II
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	11	2.0	17.1	84.5	8.0	30.0	II
Copper (Cu)	µg/l	11	1.7	6.3	9.7	6.1	8.2	II
Chromium (Cr) - total	µg/l	11	0.8	5.9	27.4	2.5	11.3	II
Lead (Pb)	µg/l	11	0.4	3.6	6.8	4.1	5.9	III
Cadmium (Cd)	µg/l	10	0.40	2.22	8.81	1.37	3.91	V
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	10	0.40	1.99	3.27	2.14	2.99	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	1	0.017	0.017	0.017	0.017	0.017	
Anionic active surfactants	mg/l	3	< 0.025	0.052	0.068	0.063	0.067	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	3	0.002	0.009	0.018	0.008	0.016	I
pp'DDT	µg/l	1	0.005	0.005	0.005	0.005	0.005	II
Atrazine	µg/l	1	< 0.060	< 0.060	< 0.060	0.060	0.060	II
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	5	0.200	8.340	17.000	5.400	16.600	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	4	0.020	0.938	3.400	0.165	2.440	
Faecal Streptococci	10 ³ CFU/100 ml	5	0.020	0.055	0.170	0.020	0.120	
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	817000	km ²	RO08
Distance from the mouth [km]	0.0	Altitude	1	m	
Location	Sf.Gheorghe - Ghorghie arm R				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	830.0	1614.3	2560.0	1540.0	2300.0	
Temperature	°C	12	0.5	14.2	26.5	14.0	26.1	
Suspended Solids	mg/l	12	7	25	70	18	61	
Dissolved Oxygen	mg/l	11	6.9	8.5	11.3	8.1	7.0	I
BOD ₅	mg/l	10	1.2	1.8	3.2	1.6	2.9	II
COD _{Mn}	mg/l	11	2.9	5.0	7.8	4.7	7.2	II
COD _{Cr}	mg/l	11	8.0	19.8	30.0	19.0	29.0	III
TOC	mg/l							
DOC	mg/l							
pH		12	7.0	7.8	8.5	7.8	8.3	II
							7.4	II
Alkalinity	mmol/l	12	2.3	2.9	3.4	3.0	3.4	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.190	0.520	1.690	0.331	0.853	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.012	0.060	0.280	0.025	0.157	IV
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.20	1.50	2.43	1.55	2.35	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.005	0.030	0.070	0.017	0.066	II
Total Phosphorus	mg/l	11	0.01	0.07	0.19	0.04	0.16	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	359	432	488	435	481	
Calcium (Ca ²⁺)	mg/l	12	46.4	53.9	60.7	53.5	59.9	
Sulphate (SO ₄ ²⁻)	mg/l	12	10	26	40	27	36	
Magnesium (Mg ²⁺)	mg/l	12	9.4	18.5	34.2	18.4	23.2	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	10	0.033	0.065	0.195	0.055	0.084	
Iron (Fe)	mg/l	9	0.205	0.592	2.730	0.330	0.957	
Chloride (Cl ⁻)	mg/l	12	21	34	44	36	43	
Zinc (Zn) - Dissolved	µg/l	1	4.9	4.9	4.9	4.9	4.9	II
Copper (Cu) - Dissolved	µg/l	1	1.7	1.7	1.7	1.7	1.7	II
Chromium (Cr) - Dissolved	µg/l	1	0.3	0.3	0.3	0.3	0.3	II
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l	1	0.29	0.29	0.29	0.29	0.29	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	1	0.65	0.65	0.65	0.65	0.65	II
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	10	1.0	14.6	76.0	6.1	31.4	II
Copper (Cu)	µg/l	10	3.3	6.7	13.2	5.9	8.6	II
Chromium (Cr) - total	µg/l	9	0.7	2.9	7.1	1.9	5.7	II
Lead (Pb)	µg/l	10	0.2	3.8	8.3	2.8	8.2	III
Cadmium (Cd)	µg/l	9	0.31	2.66	8.99	1.57	6.00	V
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	9	0.39	3.40	15.05	1.79	7.87	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	1	0.022	0.022	0.022	0.022	0.022	
Anionic active surfactants	mg/l	3	< 0.025	0.044	0.071	0.035	0.064	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	3	0.010	0.012	0.014	0.011	0.013	I
pp'DDT	µg/l							
Atrazine	µg/l	1	< 0.060	< 0.060	< 0.060	0.060	0.060	II
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	5	0.040	5.008	22.000	1.400	13.760	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	4	0.078	0.315	0.780	0.200	0.606	
Faecal Streptococci	10 ³ CFU/100 ml	5	0.020	0.102	0.330	0.060	0.229	
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	/Arges	Catchment	12550	km ²	RO09
Distance from the mouth [km]	0.0	Altitude	14	m	
Location	Conf. Danube M				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	6.6	15.8	113.0	11.6	28.5	
Temperature	°C	12	4.0	15.5	29.0	16.3	26.7	
Suspended Solids	mg/l	12	128	206	496	166	359	
Dissolved Oxygen	mg/l	12	4.5	8.0	10.6	8.0	5.8	III
BOD ₅	mg/l	11	4.3	5.8	8.5	5.8	6.9	III
COD _{Mn}	mg/l	12	6.8	9.7	16.6	8.6	14.2	III
COD _{Cr}	mg/l	12	13.1	17.7	30.9	15.3	22.6	II
TOC	mg/l							
DOC	mg/l							
pH		12	7.8	8.0	8.2	8.0	8.2	II
							7.9	II
Alkalinity	mmol/l	12	3.3	4.1	5.5	4.0	4.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	11	0.960	2.302	5.400	1.780	4.180	V
Nitrite-N (NO ₂ ⁻ -N)	mg/l	11	0.040	0.060	0.080	0.060	0.080	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	11	1.40	2.78	4.20	2.45	3.75	III
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.120	0.167	0.240	0.155	0.236	IV
Total Phosphorus	mg/l	12	0.17	0.25	0.31	0.25	0.30	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	453	549	729	518	677	
Calcium (Ca ²⁺)	mg/l	12	67.2	82.6	110.4	80.0	90.0	
Sulphate (SO ₄ ²⁻)	mg/l	12	97	110	132	108	122	
Magnesium (Mg ²⁺)	mg/l	12	22.0	25.3	29.1	24.5	28.6	
Potassium (K ⁺)	mg/l	12	3.9	6.2	8.1	6.2	7.7	
Sodium (Na ⁺)	mg/l	12	12.6	32.7	45.8	33.3	40.1	
Manganese (Mn)	mg/l	10	0.041	0.145	0.349	0.117	0.246	
Iron (Fe)	mg/l	11	0.072	0.869	2.660	0.543	2.028	
Chloride (Cl ⁻)	mg/l	12	42	60	78	59	71	
Zinc (Zn) - Dissolved	µg/l	4	10.4	21.2	28.0	23.3	27.0	III
Copper (Cu) - Dissolved	µg/l	4	0.9	5.4	8.8	6.0	8.6	III
Chromium (Cr) - Dissolved	µg/l	4	0.4	1.1	2.2	0.9	1.9	III
Lead (Pb) - Dissolved	µg/l	2	7.6	7.6	7.7	7.6	7.6	III
Cadmium (Cd) - Dissolved	µg/l	4	0.10	0.16	0.24	0.16	0.22	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	3	1.46	2.48	3.97	2.02	3.58	III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	11	10.0	35.4	89.6	22.0	61.0	II
Copper (Cu)	µg/l	11	4.5	9.9	21.6	9.8	14.6	II
Chromium (Cr) - total	µg/l	11	0.5	2.1	3.5	1.9	3.2	II
Lead (Pb)	µg/l	10	1.7	7.1	9.7	7.6	9.6	III
Cadmium (Cd)	µg/l	11	0.37	1.20	3.04	0.88	2.97	IV
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	11	0.29	3.83	11.04	3.58	8.28	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	7	0.005	0.015	0.023	0.017	0.022	
Anionic active surfactants	mg/l	3	0.029	0.033	0.038	0.031	0.037	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	3	0.001	0.036	0.105	0.003	0.085	III
pp'DDT	µg/l							
Atrazine	µg/l	1	< 0.060	< 0.060	< 0.060	0.060	0.060	II
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	10	0.160	196.816	320.000	240.000	320.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	10	0.390	66.951	320.000	4.000	320.000	
Faecal Streptococci	10 ³ CFU/100 ml	10	0.060	1.393	5.600	0.920	2.450	
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	/Siret	Catchment	42890	km ²	RO10
Distance from the mouth [km]	0.0	Altitude	4	m	
Location	Conf. Danube Sendreni M				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	47.5	119.2	479.0	105.0	197.6	
Temperature	°C	12	0.0	12.4	25.0	15.0	23.6	
Suspended Solids	mg/l	12	12	46	138	28	114	
Dissolved Oxygen	mg/l	12	4.8	9.4	12.8	10.6	5.9	III
BOD ₅	mg/l	11	1.4	3.2	5.6	2.8	5.0	II
COD _{Mn}	mg/l	11	4.1	6.5	10.8	6.2	9.4	II
COD _{Cr}	mg/l	11	13.0	27.8	38.0	30.0	37.0	III
TOC	mg/l							
DOC	mg/l							
pH		12	6.7	8.0	8.8	8.2	8.5	III
							7.1	II
Alkalinity	mmol/l	12	2.6	3.5	4.6	3.5	4.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.240	0.760	1.610	0.665	1.297	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.012	0.083	0.400	0.052	0.132	IV
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.64	3.04	7.62	2.71	3.78	III
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.005	0.037	0.149	0.027	0.059	II
Total Phosphorus	mg/l	11	0.01	0.07	0.17	0.07	0.17	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	460	683	974	664	894	
Calcium (Ca ²⁺)	mg/l	12	23.3	57.7	83.8	61.5	72.6	
Sulphate (SO ₄ ²⁻)	mg/l	12	35	52	72	52	66	
Magnesium (Mg ²⁺)	mg/l	12	9.4	21.0	43.7	19.0	29.0	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	11	0.023	0.127	0.368	0.072	0.311	
Iron (Fe)	mg/l	10	0.138	0.962	3.498	0.591	2.177	
Chloride (Cl)	mg/l	12	37	77	137	66	119	
Zinc (Zn) - Dissolved	µg/l	1	7.4	7.4	7.4	7.4	7.4	III
Copper (Cu) - Dissolved	µg/l	1	7.2	7.2	7.2	7.2	7.2	III
Chromium (Cr) - Dissolved	µg/l	1	0.3	0.3	0.3	0.3	0.3	II
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l	1	0.32	0.32	0.32	0.32	0.32	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	1	0.20	0.20	0.20	0.20	0.20	II
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	11	2.2	20.8	62.0	17.6	39.4	II
Copper (Cu)	µg/l	11	1.8	15.5	86.9	10.0	16.1	II
Chromium (Cr) - total	µg/l	11	0.3	2.5	9.6	1.8	3.2	II
Lead (Pb)	µg/l	10	1.6	6.1	12.4	6.7	9.5	IV
Cadmium (Cd)	µg/l	11	0.10	0.94	5.24	0.36	2.19	IV
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	10	0.92	3.10	7.07	2.56	5.01	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	1	0.018	0.018	0.018	0.018	0.018	
Anionic active surfactants	mg/l	2	0.032	0.037	0.041	0.037	0.040	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	3	0.003	0.008	0.017	0.003	0.014	I
pp'DDT	µg/l	1	0.056	0.056	0.056	0.056	0.056	V
Atrazine	µg/l	1	< 0.060	< 0.060	< 0.060	0.060	0.060	II
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	5	3.500	42.900	160.000	16.000	105.600	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	4	0.020	0.213	0.610	0.110	0.487	
Faecal Streptococci	10 ³ CFU/100 ml	5	0.120	5.192	16.000	0.330	13.280	
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	/Prut	Catchment	27480	km ²	RO11
Distance from the mouth [km]	0.0	Altitude	5	m	
Location	Conf.Danube Giurgiulesti M				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	43.8	92.9	202.0	82.3	149.0	
Temperature	°C	12	0.0	12.8	25.0	15.5	23.6	
Suspended Solids	mg/l	12	9	38	134	22	102	
Dissolved Oxygen	mg/l	12	4.6	9.3	15.4	8.7	6.5	II
BOD ₅	mg/l	11	1.3	2.9	6.8	2.2	5.2	III
COD _{Mn}	mg/l	11	4.3	7.9	27.0	5.2	10.3	III
COD _{Cr}	mg/l	11	16.0	24.8	42.0	24.0	33.0	III
TOC	mg/l							
DOC	mg/l							
pH		12	7.0	8.1	8.6	8.1	8.5	III
							7.8	II
Alkalinity	mmol/l	12	2.9	3.8	4.8	3.8	4.2	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.270	0.620	1.410	0.525	0.985	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.005	0.046	0.120	0.048	0.069	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.13	2.25	4.81	1.97	3.32	III
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	< 0.005	0.028	0.137	0.018	0.036	I
Total Phosphorus	mg/l	11	0.01	0.08	0.27	0.04	0.17	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	458	710	982	690	953	
Calcium (Ca ²⁺)	mg/l	12	19.4	53.6	76.3	55.6	69.9	
Sulphate (SO ₄ ²⁻)	mg/l	12	55	102	143	103	126	
Magnesium (Mg ²⁺)	mg/l	12	7.1	27.9	51.0	24.7	43.9	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	11	0.034	0.119	0.222	0.095	0.208	
Iron (Fe)	mg/l	10	0.171	0.934	2.962	0.797	1.601	
Chloride (Cl ⁻)	mg/l	12	36	50	59	50	58	
Zinc (Zn) - Dissolved	µg/l	1	5.7	5.7	5.7	5.7	5.7	III
Copper (Cu) - Dissolved	µg/l	1	2.7	2.7	2.7	2.7	2.7	III
Chromium (Cr) - Dissolved	µg/l	1	0.4	0.4	0.4	0.4	0.4	II
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l	1	0.35	0.35	0.35	0.35	0.35	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	1	1.74	1.74	1.74	1.74	1.74	III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	11	2.0	19.6	58.0	13.9	45.1	II
Copper (Cu)	µg/l	11	2.3	7.3	13.5	7.0	11.6	II
Chromium (Cr) - total	µg/l	11	0.4	1.6	3.2	1.5	3.1	II
Lead (Pb)	µg/l	10	1.4	6.8	10.4	7.2	10.0	IV
Cadmium (Cd)	µg/l	11	0.04	0.39	1.22	0.18	0.68	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	10	0.50	2.72	6.38	1.67	5.91	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	1	0.015	0.015	0.015	0.015	0.015	
Anionic active surfactants	mg/l	2	0.028	0.031	0.034	0.031	0.033	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	3	0.004	0.017	0.027	0.019	0.025	I
pp'DDT	µg/l	1	0.045	0.045	0.045	0.045	0.045	IV
Atrazine	µg/l	1	< 0.060	< 0.060	< 0.060	0.060	0.060	II
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	5	0.220	4.184	13.000	2.100	9.760	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	4	0.020	0.160	0.220	0.200	0.214	
Faecal Streptococci	10 ³ CFU/100 ml	5	0.020	0.092	0.140	0.110	0.136	
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	580100 km ²	BG01
Distance from the mouth [km]	834.0	Altitude	35 m	
Location	Novo Selo Harbour/ Pristol L			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	12	3.4	15.0	25.7	15.7	25.0	
Suspended Solids	mg/l	12	20	45	66	44	64	
Dissolved Oxygen	mg/l	12	5.3	7.2	10.5	6.8	5.4	III
BOD ₅	mg/l	12	1.4	2.3	4.0	2.1	2.8	I
COD _{Mn}	mg/l	12	1.8	2.9	4.0	2.9	3.3	I
COD _{Cr}	mg/l	12	9.8	15.0	20.4	14.7	19.9	II
TOC	mg/l							
DOC	mg/l	8	< 0.1	0.9	2.5	0.9	1.7	
pH		12	7.4	7.9	8.5	7.9	8.2	II
							7.7	II
Alkalinity	mmol/l	12	2.7	3.2	4.1	3.2	3.4	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.053	0.154	0.399	0.111	0.314	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.021	0.032	0.069	0.027	0.041	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.68	1.52	2.88	1.34	2.35	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.028	0.072	0.149	0.073	0.085	II
Total Phosphorus	mg/l	12	0.07	0.13	0.38	0.10	0.20	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	12	0.3	3.4	9.5	2.4	8.9	I
Conductivity @ 20°C	µS/cm	12	342	410	599	385	523	
Calcium (Ca ²⁺)	mg/l	12	40.1	50.6	64.4	51.5	55.9	
Sulphate (SO ₄ ²⁻)	mg/l	12	21	28	38	28	30	
Magnesium (Mg ²⁺)	mg/l	12	12.8	15.8	26.7	14.6	19.1	
Potassium (K ⁺)	mg/l	12	1.6	2.4	3.5	2.4	3.2	
Sodium (Na ⁺)	mg/l	12	6.6	9.8	16.5	9.4	12.4	
Manganese (Mn)	mg/l	12	< 0.010	0.014	0.032	0.011	0.019	
Iron (Fe)	mg/l	12	0.035	0.198	0.403	0.185	0.273	
Chloride (Cl)	mg/l	12	19	21	25	21	23	
Zinc (Zn) - Dissolved	µg/l							
Copper (Cu) - Dissolved	µg/l							
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l							
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	12	15.0	20.1	32.0	18.0	26.7	II
Copper (Cu)	µg/l	12	< 1.0	4.3	7.0	4.5	6.8	II
Chromium (Cr) - total	µg/l	12	< 3.0	9.2	45.0	6.0	11.7	II
Lead (Pb)	µg/l	12	< 1.0	3.0	8.0	2.0	4.9	II
Cadmium (Cd)	µg/l	12	< 1.00	1.17	3.00	1.00	1.00	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	12	1.50	3.04	7.10	2.20	6.72	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	< 0.002	< 0.002	< 0.002	0.002	0.002	
Anionic active surfactants	mg/l	12	< 0.050	0.119	0.320	0.050	0.300	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	< 0.100	0.308	2.100	0.100	0.290	
Lindane	µg/l							
pp'DDT	µg/l	12	< 0.010	< 0.010	< 0.010	0.010	0.010	II
Atrazine	µg/l							
Chloroform	µg/l	1	0.04	0.04	0.04	0.04	0.04	II
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	11	0.000	0.316	0.690	0.370	0.520	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml	10	0.003	0.376	0.880	0.220	0.772	
Salmonella sp.	in 1 litre	10	0.0	0.0	0.0	0.0	0.0	

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	580100 km ²	BG01
Distance from the mouth [km]	834.0	Altitude	35 m	
Location	Novo Selo Harbour/ Pristol M			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	12	3.1	14.9	25.9	15.6	25.3	
Suspended Solids	mg/l	12	20	43	66	43	64	
Dissolved Oxygen	mg/l	12	5.3	7.0	10.0	6.8	5.3	III
BOD ₅	mg/l	12	1.2	2.1	3.5	2.0	2.8	I
COD _{Mn}	mg/l	12	1.3	2.6	3.3	2.7	3.2	I
COD _{Cr}	mg/l	12	10.0	14.9	22.5	15.1	16.9	II
TOC	mg/l							
DOC	mg/l	8	< 0.1	1.0	1.9	1.3	1.8	
pH		12	7.5	7.9	8.5	7.9	8.2	II
							7.5	II
Alkalinity	mmol/l	12	2.7	3.2	3.9	3.2	3.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.053	0.152	0.391	0.110	0.276	II
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.021	0.032	0.070	0.027	0.048	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.83	1.51	2.32	1.32	2.23	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.021	0.077	0.144	0.074	0.117	III
Total Phosphorus	mg/l	12	0.07	0.11	0.20	0.11	0.16	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	12	1.1	3.1	5.9	2.3	5.9	I
Conductivity @ 20°C	µS/cm	12	337	410	608	385	530	
Calcium (Ca ²⁺)	mg/l	12	42.1	50.5	56.8	50.2	56.1	
Sulphate (SO ₄ ²⁻)	mg/l	12	21	28	39	26	32	
Magnesium (Mg ²⁺)	mg/l	12	12.2	15.6	18.8	14.9	18.5	
Potassium (K ⁺)	mg/l	12	1.3	2.3	3.0	2.5	3.0	
Sodium (Na ⁺)	mg/l	12	6.5	9.7	16.5	9.2	12.4	
Manganese (Mn)	mg/l	12	< 0.010	0.012	0.018	0.011	0.018	
Iron (Fe)	mg/l	12	0.040	0.201	0.400	0.204	0.251	
Chloride (Cl ⁻)	mg/l	12	18	21	24	21	23	
Zinc (Zn) - Dissolved	µg/l							
Copper (Cu) - Dissolved	µg/l							
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l							
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	12	13.0	20.7	34.0	19.0	28.6	II
Copper (Cu)	µg/l	12	< 1.0	3.8	5.0	4.0	5.0	II
Chromium (Cr) - total	µg/l	12	< 3.0	8.7	43.0	6.0	8.9	II
Lead (Pb)	µg/l	12	< 1.0	3.8	16.0	3.0	4.9	II
Cadmium (Cd)	µg/l	12	< 1.00	1.08	2.00	1.00	1.00	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	12	1.50	2.63	7.30	2.10	3.25	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	< 0.002	< 0.002	< 0.002	0.002	0.002	
Anionic active surfactants	mg/l	12	< 0.050	0.121	0.330	0.050	0.299	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	< 0.100	0.221	0.400	0.175	0.400	
Lindane	µg/l							
pp'DDT	µg/l	12	< 0.010	< 0.010	< 0.010	0.010	0.010	II
Atrazine	µg/l							
Chloroform	µg/l	1	0.06	0.06	0.06	0.06	0.06	II
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	0.000	0.412	0.990	0.310	0.951	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml	11	0.020	0.508	1.120	0.255	1.100	
Salmonella sp.	in 1 litre	11	0.0	0.0	0.0	0.0	0.0	

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	580100 km ²	BG01
Distance from the mouth [km]	834.0	Altitude	35 m	
Location	Novo Selo Harbour/ Pristol R			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	12	2.8	14.9	25.9	15.7	25.1	
Suspended Solids	mg/l	12	24	48	70	46	68	
Dissolved Oxygen	mg/l	12	5.5	7.0	10.1	6.6	5.5	III
BOD ₅	mg/l	12	1.1	2.4	4.1	2.2	3.5	II
COD _{Mn}	mg/l	12	2.0	3.1	4.2	3.0	3.6	I
COD _{Cr}	mg/l	12	12.4	15.4	18.8	15.4	16.9	II
TOC	mg/l							
DOC	mg/l	8	< 0.1	1.1	2.0	1.0	1.8	
pH		12	7.5	7.9	8.5	7.9	8.1	II
							7.7	II
Alkalinity	mmol/l	12	2.7	3.1	3.7	3.2	3.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.051	0.167	0.398	0.135	0.305	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.021	0.033	0.068	0.028	0.044	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.99	1.64	2.61	1.47	2.50	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.026	0.087	0.240	0.077	0.113	III
Total Phosphorus	mg/l	12	0.07	0.15	0.28	0.12	0.24	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	11	0.3	4.3	6.8	4.6	5.9	I
Conductivity @ 20°C	µS/cm	12	343	417	619	388	548	
Calcium (Ca ²⁺)	mg/l	12	40.1	49.8	58.1	51.7	56.0	
Sulphate (SO ₄ ²⁻)	mg/l	12	20	30	50	28	34	
Magnesium (Mg ²⁺)	mg/l	12	13.4	15.7	21.0	14.9	19.3	
Potassium (K ⁺)	mg/l	12	1.3	2.3	3.4	2.5	3.1	
Sodium (Na ⁺)	mg/l	12	6.5	10.0	16.3	9.4	12.4	
Manganese (Mn)	mg/l	12	< 0.010	0.014	0.023	0.014	0.018	
Iron (Fe)	mg/l	12	0.053	0.203	0.405	0.202	0.324	
Chloride (Cl)	mg/l	12	18	21	24	21	23	
Zinc (Zn) - Dissolved	µg/l							
Copper (Cu) - Dissolved	µg/l							
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l							
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	12	12.0	21.3	33.0	20.5	28.8	II
Copper (Cu)	µg/l	12	2.0	6.2	12.0	6.0	10.7	II
Chromium (Cr) - total	µg/l	12	< 3.0	9.5	47.0	6.0	11.8	II
Lead (Pb)	µg/l	12	< 1.0	5.3	22.0	3.5	7.7	III
Cadmium (Cd)	µg/l	12	< 1.00	1.17	3.00	1.00	1.00	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	12	1.60	3.04	9.20	2.45	4.48	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	< 0.002	< 0.002	< 0.002	0.002	0.002	
Anionic active surfactants	mg/l	12	< 0.050	0.154	0.560	0.051	0.341	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	0.100	0.354	1.500	0.175	0.940	
Lindane	µg/l							
pp'DDT	µg/l	12	< 0.010	< 0.010	< 0.010	0.010	0.010	II
Atrazine	µg/l							
Chloroform	µg/l	1	0.08	0.08	0.08	0.08	0.08	II
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	11	0.000	0.499	1.600	0.450	0.750	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml	10	0.004	0.413	1.050	0.210	0.816	
Salmonella sp.	in 1 litre	1	0.0	0.0	0.0	0.0	0.0	

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	608820 km ²	BG02
Distance from the mouth [km]	641.0	Altitude	20 m	
Location	us.Iskar-Bajkal R			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	12	4.6	14.1	26.3	14.7	21.9	
Suspended Solids	mg/l	12	8	18	25	20	23	
Dissolved Oxygen	mg/l	12	6.6	9.7	13.0	9.6	7.1	I
BOD ₅	mg/l	12	1.1	2.2	4.2	2.0	3.3	II
COD _{Mn}	mg/l	12	2.4	4.5	7.7	4.2	7.2	II
COD _{Cr}	mg/l	12	6.0	11.3	22.0	11.2	15.0	II
TOC	mg/l							
DOC	mg/l							
pH		12	7.0	7.7	8.4	7.6	8.0	II
							7.4	II
Alkalinity	mmol/l	12	2.8	3.7	4.9	3.6	4.3	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	< 0.010	0.126	0.400	0.080	0.290	II
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	< 0.002	0.024	0.042	0.026	0.034	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.05	0.72	1.99	0.54	1.89	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	< 0.020	0.288	1.000	0.175	0.682	V
Total Phosphorus	mg/l	12	0.07	0.13	0.30	0.11	0.21	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	312	415	727	372	605	
Calcium (Ca ²⁺)	mg/l	12	46.4	63.4	82.4	62.4	73.9	
Sulphate (SO ₄ ²⁻)	mg/l	12	17	27	35	27	34	
Magnesium (Mg ²⁺)	mg/l	12	9.8	18.1	30.6	18.1	23.7	
Potassium (K ⁺)	mg/l	12	2.0	3.1	7.4	2.8	3.5	
Sodium (Na ⁺)	mg/l	12	9.7	12.3	15.8	12.2	14.3	
Manganese (Mn)	mg/l	12	0.010	0.024	0.070	0.017	0.057	
Iron (Fe)	mg/l	12	0.020	0.144	0.260	0.145	0.246	
Chloride (Cl)	mg/l	12	< 10	23	34	25	32	
Zinc (Zn) - Dissolved	µg/l							
Copper (Cu) - Dissolved	µg/l							
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l							
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	12	16.0	56.4	112.0	56.0	81.4	II
Copper (Cu)	µg/l	12	4.0	16.3	42.0	10.0	30.9	III
Chromium (Cr) - total	µg/l	12	< 10.0	< 10.0	< 10.0	10.0	10.0	II
Lead (Pb)	µg/l	12	1.0	4.5	20.0	3.5	6.7	III
Cadmium (Cd)	µg/l	12	< 1.00	2.75	13.00	1.00	6.70	V
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	12	1.40	2.75	4.60	2.50	4.05	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	< 0.002	< 0.002	< 0.002	0.002	0.002	
Anionic active surfactants	mg/l	12	< 0.050	0.065	0.180	0.050	0.087	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	< 0.100	0.100	0.100	0.100	0.100	
Lindane	µg/l	12	< 0.010	< 0.010	< 0.010	0.010	0.010	I
pp'DDT	µg/l	12	< 0.010	0.010	0.010	0.010	0.010	II
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l	5	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l	5	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml							
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	650340 km ²	BG03
Distance from the mouth [km]	554.0	Altitude	16 m	
Location	Downstream Svishtov M			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	7	6.8	18.4	26.4	21.1	26.1	
Suspended Solids	mg/l	7	14	31	64	22	52	
Dissolved Oxygen	mg/l	7	5.4	7.4	10.1	6.7	5.7	III
BOD ₅	mg/l	7	1.0	1.4	1.8	1.5	1.7	I
COD _{Mn}	mg/l	7	2.5	3.1	3.9	3.1	3.7	I
COD _{Cr}	mg/l							
TOC	mg/l							
DOC	mg/l							
pH		7	7.9	8.0	8.1	8.0	8.1	II
							7.9	II
Alkalinity	mmol/l	6	1.4	2.5	3.2	2.7	3.1	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	7	0.010	0.053	0.100	0.040	0.094	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	7	0.014	0.034	0.109	0.025	0.060	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	7	0.60	1.27	2.10	1.05	1.92	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	7	0.130	0.183	0.290	0.150	0.284	IV
Total Phosphorus	mg/l	6	0.07	0.12	0.15	0.13	0.15	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	6	2.7	4.3	6.0	4.0	6.0	I
Conductivity @ 20°C	µS/cm	7	325	360	424	360	399	
Calcium (Ca ²⁺)	mg/l	6	36.0	48.2	61.0	46.0	60.5	
Sulphate (SO ₄ ²⁻)	mg/l	7	26	39	49	41	45	
Magnesium (Mg ²⁺)	mg/l	6	13.4	20.3	29.2	19.0	26.7	
Potassium (K ⁺)	mg/l	7	2.0	2.5	2.8	2.5	2.8	
Sodium (Na ⁺)	mg/l	7	10.5	11.8	13.7	12.2	13.2	
Manganese (Mn)	mg/l	7	< 0.010	< 0.010	< 0.010	0.010	0.010	
Iron (Fe)	mg/l	7	0.100	0.191	0.600	0.120	0.348	
Chloride (Cl)	mg/l	6	11	19	26	19	24	
Zinc (Zn) - Dissolved	µg/l							
Copper (Cu) - Dissolved	µg/l							
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l							
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	7	28.0	76.9	110.0	89.0	104.0	III
Copper (Cu)	µg/l	7	7.0	13.1	24.0	13.0	21.6	III
Chromium (Cr) - total	µg/l	7	< 10.0	< 10.0	< 10.0	10.0	10.0	II
Lead (Pb)	µg/l	7	1.0	2.6	3.0	3.0	3.0	II
Cadmium (Cd)	µg/l	7	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	7	1.00	2.83	4.60	2.50	4.30	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l							
Anionic active surfactants	mg/l							
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l							
pp'DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml							
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	650340 km ²	BG03
Distance from the mouth [km]	554.0	Altitude	16 m	
Location	Downstream Svishtov R			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	6	1.0	9.5	21.3	7.3	19.3	
Suspended Solids	mg/l	6	8	23	62	17	42	
Dissolved Oxygen	mg/l	6	8.0	9.9	12.5	9.6	8.1	I
BOD ₅	mg/l	6	1.5	2.7	4.1	2.6	3.7	II
COD _{Mn}	mg/l	6	2.5	3.4	4.4	3.3	4.3	I
COD _{Cr}	mg/l							
TOC	mg/l							
DOC	mg/l							
pH		6	7.8	8.1	8.3	8.1	8.2	II
							7.9	II
Alkalinity	mmol/l	5	2.6	3.2	4.0	3.0	3.8	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	6	< 0.010	0.102	0.230	0.100	0.190	II
Nitrite-N (NO ₂ ⁻ -N)	mg/l	6	0.015	0.024	0.039	0.021	0.037	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	6	0.69	1.44	2.04	1.47	2.00	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	6	0.120	0.208	0.260	0.220	0.260	IV
Total Phosphorus	mg/l	4	0.08	0.20	0.46	0.12	0.36	IV
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	5	2.0	12.2	21.0	14.2	19.7	I
Conductivity @ 20°C	µS/cm	6	359	420	485	428	469	
Calcium (Ca ²⁺)	mg/l	5	44.0	81.9	112.0	91.4	108.0	
Sulphate (SO ₄ ²⁻)	mg/l	6	17	36	59	34	54	
Magnesium (Mg ²⁺)	mg/l	5	17.7	22.6	29.2	19.4	28.4	
Potassium (K ⁺)	mg/l	6	2.5	3.0	3.6	2.9	3.4	
Sodium (Na ⁺)	mg/l	6	10.9	14.2	20.5	13.7	17.4	
Manganese (Mn)	mg/l	6	< 0.010	< 0.010	< 0.010	0.010	0.010	
Iron (Fe)	mg/l	6	0.060	0.135	0.180	0.145	0.180	
Chloride (Cl ⁻)	mg/l	5	17	30	53	29	44	
Zinc (Zn) - Dissolved	µg/l							
Copper (Cu) - Dissolved	µg/l							
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l							
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	6	54.0	77.2	119.0	64.5	111.0	III
Copper (Cu)	µg/l	6	8.0	15.7	28.0	14.0	24.0	III
Chromium (Cr) - total	µg/l	6	< 10.0	< 10.0	< 10.0	10.0	10.0	II
Lead (Pb)	µg/l	6	1.0	2.0	3.0	2.0	2.5	II
Cadmium (Cd)	µg/l	6	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	6	2.00	3.50	5.80	3.00	5.15	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l							
Anionic active surfactants	mg/l							
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l							
pp'DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml							
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	669900 km ²	BG04
Distance from the mouth [km]	503.0	Altitude	12 m	
Location	us. Russe R			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	12	3.7	14.0	27.2	13.2	25.1	
Suspended Solids	mg/l	12	8	17	36	14	25	
Dissolved Oxygen	mg/l	12	5.5	7.7	10.6	7.5	5.7	III
BOD ₅	mg/l	12	1.2	2.1	3.6	2.2	2.8	I
COD _{Mn}	mg/l	12	3.5	3.9	4.7	3.9	4.3	I
COD _{Cr}	mg/l	12	7.0	9.9	12.0	10.3	11.1	II
TOC	mg/l							
DOC	mg/l	2	3.2	4.7	6.2	4.7	5.9	
pH		12	7.8	8.0	8.2	8.0	8.2	II
							8.0	II
Alkalinity	mmol/l	12	1.4	1.7	2.0	1.7	1.9	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	< 0.010	0.050	0.098	0.058	0.094	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.007	0.021	0.044	0.020	0.027	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.70	1.62	3.40	1.47	2.01	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.167	0.259	0.359	0.241	0.336	IV
Total Phosphorus	mg/l	12	0.12	0.16	0.23	0.16	0.18	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	12	0.4	1.5	2.7	1.5	2.5	I
Conductivity @ 20°C	µS/cm	11	317	388	478	377	444	
Calcium (Ca ²⁺)	mg/l	12	41.9	52.8	65.9	51.0	62.1	
Sulphate (SO ₄ ²⁻)	mg/l	12	22	32	40	33	38	
Magnesium (Mg ²⁺)	mg/l	12	13.0	15.7	21.4	15.0	20.0	
Potassium (K ⁺)	mg/l	12	1.6	2.3	2.6	2.3	2.5	
Sodium (Na ⁺)	mg/l	12	10.8	11.8	12.2	12.0	12.2	
Manganese (Mn)	mg/l	12	0.022	0.060	0.250	0.044	0.060	
Iron (Fe)	mg/l	12	0.068	0.710	1.280	0.687	1.122	
Chloride (Cl)	mg/l	12	22	24	30	23	27	
Zinc (Zn) - Dissolved	µg/l							
Copper (Cu) - Dissolved	µg/l							
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l							
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	12	20.0	89.7	196.0	77.5	174.0	III
Copper (Cu)	µg/l	12	5.0	30.3	68.0	27.5	53.9	IV
Chromium (Cr) - total	µg/l	12	< 10.0	< 10.0	< 10.0	10.0	10.0	II
Lead (Pb)	µg/l	12	< 1.0	< 1.0	< 1.0	1.0	1.0	II
Cadmium (Cd)	µg/l	12	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	12	< 1.00	1.00	1.00	1.00	1.00	II
Arsenic (As)	µg/l	12	1.0	5.5	10.0	7.5	10.0	III
Aluminium (Al)	µg/l	11	< 20.0	25.7	38.0	26.0	32.0	
Phenol index	mg/l	11	< 0.002	< 0.002	< 0.002	0.002	0.002	
Anionic active surfactants	mg/l	12	< 0.050	0.050	0.050	0.050	0.050	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	< 0.100	0.100	0.105	0.100	0.100	
Lindane	µg/l	10	< 0.010	< 0.010	< 0.010	0.010	0.010	I
pp'DDT	µg/l	10	< 0.010	< 0.010	< 0.010	0.010	0.010	II
Atrazine	µg/l	10	< 0.100	0.410	0.870	0.374	0.780	V
Chloroform	µg/l	3	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Carbon tetrachloride	µg/l	3	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Trichloroethylene	µg/l	3	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Tetrachloroethylene	µg/l	3	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	0.000	0.622	1.430	0.465	1.235	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml	12	0.018	0.503	1.300	0.233	1.172	
Salmonella sp.	in 1 litre	12	0.0	0.0	0.0	0.0	0.0	

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	698600 km ²	BG05
Distance from the mouth [km]	375.0	Altitude	7 m	
Location	Siliistra/Chiciu L			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	12	3.5	14.4	25.5	14.3	24.6	
Suspended Solids	mg/l	12	12	21	32	22	28	
Dissolved Oxygen	mg/l	12	5.5	7.9	10.6	7.5	6.1	II
BOD ₅	mg/l	12	1.6	2.2	2.8	2.3	2.7	I
COD _{Mn}	mg/l	12	3.2	4.7	10.8	4.2	5.7	II
COD _{Cr}	mg/l	12	8.8	11.8	16.3	10.8	15.7	II
TOC	mg/l							
DOC	mg/l	2	4.1	5.3	6.5	5.3	6.2	
pH		12	7.7	8.0	8.2	7.9	8.1	II
							7.8	II
Alkalinity	mmol/l	12	1.4	1.6	1.8	1.6	1.8	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.071	0.112	0.228	0.105	0.144	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.011	0.025	0.036	0.028	0.035	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.75	1.37	1.83	1.41	1.80	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.131	0.234	0.298	0.256	0.286	IV
Total Phosphorus	mg/l	12	0.10	0.18	0.46	0.17	0.20	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	12	0.7	4.9	19.0	3.9	7.3	I
Conductivity @ 20°C	µS/cm	12	347	421	752	380	460	
Calcium (Ca ²⁺)	mg/l	12	43.9	55.3	72.4	55.7	62.7	
Sulphate (SO ₄ ²⁻)	mg/l	12	20	33	41	34	38	
Magnesium (Mg ²⁺)	mg/l	12	12.1	17.0	22.1	17.1	19.9	
Potassium (K ⁺)	mg/l	12	1.8	2.3	3.1	2.1	2.9	
Sodium (Na ⁺)	mg/l	12	10.8	12.3	13.7	12.4	13.4	
Manganese (Mn)	mg/l	12	0.015	0.037	0.069	0.039	0.051	
Iron (Fe)	mg/l	12	0.447	1.179	1.850	1.205	1.396	
Chloride (Cl)	mg/l	12	25	31	39	33	35	
Zinc (Zn) - Dissolved	µg/l							
Copper (Cu) - Dissolved	µg/l							
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l							
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	12	21.0	108.8	324.0	61.0	247.0	IV
Copper (Cu)	µg/l	12	8.0	26.0	62.0	17.0	52.8	IV
Chromium (Cr) - total	µg/l	12	< 10.0	< 10.0	< 10.0	10.0	10.0	II
Lead (Pb)	µg/l	12	< 1.0	< 1.0	< 1.0	1.0	1.0	II
Cadmium (Cd)	µg/l	12	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	12	< 1.00	< 1.0	< 1.0	1.00	1.00	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l	11	< 20.0	37.9	77.0	32.0	64.0	
Phenol index	mg/l	12	< 0.002	< 0.002	< 0.002	0.002	0.002	
Anionic active surfactants	mg/l	12	< 0.050	0.050	0.050	0.050	0.050	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	< 0.100	0.129	0.315	0.100	0.176	
Lindane	µg/l	10	< 0.010	< 0.010	< 0.010	0.010	0.010	I
pp'DDT	µg/l	10	< 0.010	< 0.010	< 0.010	0.010	0.010	II
Atrazine	µg/l	10	< 0.100	0.623	1.285	0.630	1.182	V
Chloroform	µg/l	3	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Carbon tetrachloride	µg/l	3	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Trichloroethylene	µg/l	3	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Tetrachloroethylene	µg/l	3	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	9	0.002	1.315	6.800	0.740	2.640	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml	9	0.185	0.663	1.270	0.480	1.182	
Salmonella sp.	in 1 litre	10	0.0	0.0	0.0	0.0	0.0	

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	698600 km ²	BG05
Distance from the mouth [km]	375.0	Altitude	7 m	
Location	Silistra/Chiciu M			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	12	3.5	14.2	25.5	14.1	24.2	
Suspended Solids	mg/l	12	10	20	36	18	30	
Dissolved Oxygen	mg/l	12	5.4	7.8	10.7	7.3	6.0	II
BOD ₅	mg/l	12	1.4	2.1	2.6	2.1	2.5	I
COD _{Mn}	mg/l	12	3.3	3.9	4.6	3.9	4.4	I
COD _{Cr}	mg/l	12	9.3	10.6	14.1	10.3	12.2	II
TOC	mg/l							
DOC	mg/l	2	3.8	5.2	6.6	5.2	6.3	
pH		12	7.7	8.0	8.2	7.9	8.2	II
							7.8	II
Alkalinity	mmol/l	12	1.4	1.6	1.9	1.6	1.8	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.026	0.056	0.130	0.050	0.077	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.019	0.035	0.019	0.028	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.75	1.33	2.03	1.35	1.81	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.172	0.238	0.311	0.248	0.281	IV
Total Phosphorus	mg/l	12	0.10	0.18	0.42	0.15	0.20	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	12	0.1	5.2	15.7	3.5	13.8	I
Conductivity @ 20°C	µS/cm	12	327	384	452	368	439	
Calcium (Ca ²⁺)	mg/l	12	39.6	54.3	68.9	53.5	67.4	
Sulphate (SO ₄ ²⁻)	mg/l	12	19	32	39	33	38	
Magnesium (Mg ²⁺)	mg/l	12	14.8	17.2	20.3	17.2	19.8	
Potassium (K ⁺)	mg/l	12	1.7	2.2	2.9	2.3	2.7	
Sodium (Na ⁺)	mg/l	12	10.5	12.0	13.2	12.0	13.0	
Manganese (Mn)	mg/l	12	< 0.010	0.033	0.054	0.034	0.050	
Iron (Fe)	mg/l	12	0.456	0.997	1.380	1.011	1.346	
Chloride (Cl)	mg/l	12	23	29	35	29	34	
Zinc (Zn) - Dissolved	µg/l							
Copper (Cu) - Dissolved	µg/l							
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l							
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	12	16.0	77.8	180.0	64.5	135.2	III
Copper (Cu)	µg/l	12	10.0	26.2	59.0	21.0	46.7	IV
Chromium (Cr) - total	µg/l	12	< 10.0	< 10.0	< 10.0	10.0	10.0	II
Lead (Pb)	µg/l	12	< 1.0	< 1.0	< 1.0	1.0	1.0	II
Cadmium (Cd)	µg/l	12	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	11	< 1.00	6.73	10.00	8.00	10.00	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l	11	< 20.0	37.5	91.0	21.0	81.0	
Phenol index	mg/l	12	< 0.002	< 0.002	< 0.002	0.002	0.002	
Anionic active surfactants	mg/l	12	< 0.050	0.050	0.050	0.050	0.050	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	< 0.100	0.112	0.149	0.100	0.144	
Lindane	µg/l	10	< 0.010	< 0.010	< 0.010	0.010	0.010	I
pp'DDT	µg/l	10	< 0.010	< 0.010	< 0.010	0.010	0.010	II
Atrazine	µg/l	10	< 0.100	0.713	1.380	0.645	1.270	V
Chloroform	µg/l	3	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Carbon tetrachloride	µg/l	3	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Trichloroethylene	µg/l	3	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Tetrachloroethylene	µg/l	3	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	9	0.000	1.173	5.100	0.970	1.980	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml	9	0.210	0.557	0.980	0.470	0.924	
Salmonella sp.	in 1 litre	9	0.0	0.0	0.0	0.0	0.0	

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	Danube	Catchment	698600 km ²	BG05
Distance from the mouth [km]	375.0	Altitude	7 m	
Location	Silistra/Chiciu R			2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	12	3.5	14.5	25.5	14.4	24.1	
Suspended Solids	mg/l	12	12	23	36	22	30	
Dissolved Oxygen	mg/l	12	5.4	7.7	11.0	7.1	5.8	III
BOD ₅	mg/l	12	1.2	2.1	2.6	2.2	2.4	I
COD _{Mn}	mg/l	12	3.4	4.1	4.8	4.2	4.6	I
COD _{Cr}	mg/l	12	9.9	12.1	15.2	12.3	13.5	II
TOC	mg/l							
DOC	mg/l	2	4.9	5.1	5.4	5.1	5.4	
pH		12	7.7	8.0	8.2	8.0	8.2	II
							7.8	II
Alkalinity	mmol/l	12	1.4	1.6	1.9	1.6	1.8	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	< 0.010	0.060	0.135	0.052	0.085	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.020	0.035	0.020	0.029	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.72	1.43	2.01	1.36	1.92	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.147	0.242	0.314	0.259	0.288	IV
Total Phosphorus	mg/l	12	0.10	0.19	0.57	0.16	0.21	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	12	0.1	2.9	8.4	2.1	5.1	I
Conductivity @ 20°C	µS/cm	12	327	382	451	372	435	
Calcium (Ca ²⁺)	mg/l	12	41.9	52.9	62.3	53.1	59.5	
Sulphate (SO ₄ ²⁻)	mg/l	12	20	32	39	32	38	
Magnesium (Mg ²⁺)	mg/l	12	14.3	18.0	26.8	17.3	21.7	
Potassium (K ⁺)	mg/l	12	1.9	2.3	3.0	2.2	2.8	
Sodium (Na ⁺)	mg/l	12	10.9	12.2	13.3	12.3	13.3	
Manganese (Mn)	mg/l	12	< 0.010	0.030	0.050	0.032	0.040	
Iron (Fe)	mg/l	12	0.422	1.060	1.500	1.095	1.390	
Chloride (Cl)	mg/l	12	23	28	32	28	32	
Zinc (Zn) - Dissolved	µg/l							
Copper (Cu) - Dissolved	µg/l							
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l							
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	12	19.0	73.3	224.0	56.5	121.1	III
Copper (Cu)	µg/l	12	7.0	25.4	60.0	22.0	44.5	IV
Chromium (Cr) - total	µg/l	12	< 10.0	< 10.0	< 10.0	10.0	10.0	II
Lead (Pb)	µg/l	12	< 1.0	< 1.0	< 1.0	1.0	1.0	II
Cadmium (Cd)	µg/l	12	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	12	< 1.00	6.25	10.00	8.00	10.00	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l	11	< 20.0	37.6	85.0	30.0	55.0	
Phenol index	mg/l	12	< 0.002	< 0.002	< 0.002	0.002	0.002	
Anionic active surfactants	mg/l	12	< 0.050	0.050	0.050	0.050	0.050	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	< 0.100	0.130	0.178	0.112	0.175	
Lindane	µg/l	10	< 0.010	< 0.010	< 0.010	0.010	0.010	I
pp'DDT	µg/l	10	< 0.010	< 0.010	< 0.010	0.010	0.010	II
Atrazine	µg/l	10	< 0.100	0.799	1.840	0.832	1.300	V
Chloroform	µg/l	3	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Carbon tetrachloride	µg/l	3	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Trichloroethylene	µg/l	3	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Tetrachloroethylene	µg/l	3	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	9	0.002	1.019	3.700	0.770	1.932	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml	9	0.197	0.560	1.250	0.600	0.802	
Salmonella sp.	in 1 litre	9	0.0	0.0	0.0	0.0	0.0	

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	/Iskar	Catchment	8370	km ²	BG06
Distance from the mouth [km]	28.0	Altitude	31	m	
Location	Orechovitzta M				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	12	13.3	20.2	40.3	16.8	29.0	
Temperature	°C	12	2.6	13.7	26.4	13.9	24.9	
Suspended Solids	mg/l	12	10	21	30	21	30	
Dissolved Oxygen	mg/l	12	7.1	9.6	13.5	9.0	7.5	I
BOD ₅	mg/l	12	1.9	3.2	6.3	2.7	5.3	III
COD _{Mn}	mg/l	12	4.0	7.1	13.6	6.7	11.0	III
COD _{Cr}	mg/l	12	7.0	16.7	26.0	17.0	23.0	II
TOC	mg/l							
DOC	mg/l							
pH		12	7.4	7.9	9.0	7.8	8.5	II
							7.5	II
Alkalinity	mmol/l	12	3.1	3.7	4.4	3.7	4.2	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	< 0.010	0.262	1.000	0.100	0.776	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.016	0.055	0.162	0.044	0.085	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.19	1.76	3.29	1.56	3.10	III
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.580	1.481	3.360	1.180	2.134	V
Total Phosphorus	mg/l	12	0.30	0.70	1.58	0.60	1.24	V
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	368	500	737	479	618	
Calcium (Ca ²⁺)	mg/l	12	50.0	57.3	65.2	58.0	63.8	
Sulphate (SO ₄ ²⁻)	mg/l	12	38	53	86	52	63	
Magnesium (Mg ²⁺)	mg/l	12	12.4	20.0	35.0	19.9	24.5	
Potassium (K ⁺)	mg/l	12	3.6	5.5	6.6	5.6	6.5	
Sodium (Na ⁺)	mg/l	12	16.1	29.6	52.3	29.1	35.9	
Manganese (Mn)	mg/l	12	0.021	0.043	0.093	0.033	0.082	
Iron (Fe)	mg/l	12	0.060	0.173	0.530	0.115	0.401	
Chloride (Cl)	mg/l	12	23	37	68	35	41	
Zinc (Zn) - Dissolved	µg/l							
Copper (Cu) - Dissolved	µg/l							
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l							
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	12	18.0	110.1	301.0	70.0	251.6	IV
Copper (Cu)	µg/l	12	2.0	15.0	37.0	12.0	27.9	III
Chromium (Cr) - total	µg/l	12	< 10.0	< 10.0	< 10.0	10.0	10.0	II
Lead (Pb)	µg/l	12	2.0	6.6	25.0	3.5	12.8	IV
Cadmium (Cd)	µg/l	12	< 1.00	5.50	34.00	1.00	11.60	V
Mercury (Hg)	µg/l	12	2.000	2.833	5.000	3.000	3.900	V
Nickel (Ni)	µg/l	12	4.90	36.71	76.20	36.05	60.57	III
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l							
Anionic active surfactants	mg/l	12	< 0.050	< 0.050	< 0.050	0.050	0.050	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	< 0.100	0.105	0.160	0.100	0.100	
Lindane	µg/l	12	< 0.010	0.011	0.014	0.010	0.012	I
pp'DDT	µg/l	12	< 0.010	0.010	0.011	0.010	0.010	II
Atrazine	µg/l							
Chloroform	µg/l	5	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Carbon tetrachloride	µg/l	5	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml							
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	/Jantra	Catchment	6860	km ²	BG07
Distance from the mouth [km]	12.0	Altitude	32	m	
Location	Karantzi M				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	10	6.1	10.1	12.7	10.0	12.3	
Temperature	°C	11	0.0	14.6	28.0	17.0	28.0	
Suspended Solids	mg/l	11	10	19	32	16	32	
Dissolved Oxygen	mg/l	11	5.0	8.7	12.0	8.8	6.0	II
BOD ₅	mg/l	11	1.4	5.6	12.2	3.9	12.0	IV
COD _{Mn}	mg/l	11	4.3	7.0	10.0	7.2	9.6	II
COD _{Cr}	mg/l							
TOC	mg/l							
DOC	mg/l							
pH		11	7.7	8.3	9.1	8.2	9.0	III
							7.8	II
Alkalinity	mmol/l	11	2.2	4.3	5.8	4.4	5.0	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	11	< 0.010	0.428	1.350	0.180	1.240	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	11	< 0.002	0.061	0.120	0.057	0.110	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	11	0.05	1.02	2.23	1.20	2.00	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	11	0.250	0.673	1.010	0.590	0.970	V
Total Phosphorus	mg/l	8	0.22	0.33	0.41	0.36	0.40	IV
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	10	1.2	17.3	53.0	10.5	41.3	III
Conductivity @ 20°C	µS/cm	11	437	557	673	557	658	
Calcium (Ca ²⁺)	mg/l	11	48.0	91.5	195.5	72.0	152.0	
Sulphate (SO ₄ ²⁻)	mg/l	11	41	57	86	55	69	
Magnesium (Mg ²⁺)	mg/l	11	12.1	27.2	58.3	25.5	36.4	
Potassium (K ⁺)	mg/l	11	5.2	9.2	15.8	8.5	13.1	
Sodium (Na ⁺)	mg/l	11	17.9	23.6	27.2	24.2	26.9	
Manganese (Mn)	mg/l	11	0.010	0.037	0.099	0.030	0.071	
Iron (Fe)	mg/l	11	0.100	0.293	0.610	0.280	0.580	
Chloride (Cl)	mg/l	11	20	30	53	30	36	
Zinc (Zn) - Dissolved	µg/l							
Copper (Cu) - Dissolved	µg/l							
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l							
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	11	21.0	42.5	74.0	40.0	71.0	II
Copper (Cu)	µg/l	11	4.0	7.7	14.0	7.0	11.0	II
Chromium (Cr) - total	µg/l	11	< 10.0	< 10.0	< 10.0	10.0	10.0	II
Lead (Pb)	µg/l	11	1.0	1.9	4.0	2.0	3.0	II
Cadmium (Cd)	µg/l	11	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	11	< 1.00	2.15	5.10	1.50	3.60	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l							
Anionic active surfactants	mg/l							
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
Lindane	µg/l	9	< 0.010	< 0.010	< 0.010	0.010	0.010	I
pp'DDT	µg/l	9	< 0.010	< 0.010	< 0.010	0.010	0.010	II
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml							
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	/Russ. Lom	Catchment	2800	km ²	BG08
Distance from the mouth [km]	13.0	Altitude	22	m	
Location	Basarbovo M				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	12	1.7	2.6	3.6	2.5	3.5	
Temperature	°C	12	2.8	13.0	26.0	12.2	21.9	
Suspended Solids	mg/l	12	20	41	92	36	59	
Dissolved Oxygen	mg/l	12	5.0	7.6	11.6	7.3	5.1	III
BOD ₅	mg/l	12	2.8	4.9	6.6	4.9	6.3	III
COD _{Mn}	mg/l	12	5.9	7.5	9.8	7.1	8.7	II
COD _{Cr}	mg/l	12	14.3	20.1	31.9	19.4	28.3	III
TOC	mg/l							
DOC	mg/l	2	6.3	7.7	9.2	7.7	8.9	
pH		12	8.1	8.3	8.5	8.3	8.4	II
							8.2	II
Alkalinity	mmol/l	12	3.3	3.7	4.7	3.7	3.9	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.047	0.094	0.150	0.091	0.139	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.012	0.040	0.076	0.039	0.068	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.40	6.05	10.80	5.95	9.90	IV
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.731	0.993	1.290	1.021	1.180	V
Total Phosphorus	mg/l	12	0.35	0.47	0.59	0.48	0.56	IV
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	12	3.3	16.2	32.6	17.8	31.1	II
Conductivity @ 20°C	µS/cm	11	644	815	885	827	880	
Calcium (Ca ²⁺)	mg/l	12	39.5	84.6	105.0	87.4	95.1	
Sulphate (SO ₄ ²⁻)	mg/l	12	35	54	73	54	63	
Magnesium (Mg ²⁺)	mg/l	12	35.5	51.6	76.0	49.5	58.0	
Potassium (K ⁺)	mg/l	12	2.1	3.3	4.6	3.1	4.5	
Sodium (Na ⁺)	mg/l	12	17.5	24.2	33.5	24.7	30.3	
Manganese (Mn)	mg/l	12	0.055	0.098	0.145	0.094	0.124	
Iron (Fe)	mg/l	12	1.280	2.453	4.330	2.200	3.590	
Chloride (Cl)	mg/l	12	30	35	43	35	38	
Zinc (Zn) - Dissolved	µg/l							
Copper (Cu) - Dissolved	µg/l							
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l							
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	12	22.0	145.6	225.0	163.0	224.5	IV
Copper (Cu)	µg/l	12	7.0	31.7	81.0	27.0	56.6	IV
Chromium (Cr) - total	µg/l	12	< 10.0	< 10.0	< 10.0	10.0	10.0	II
Lead (Pb)	µg/l	12	< 1.00	< 1.00	< 1.00	1.0	1.0	II
Cadmium (Cd)	µg/l	12	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	12	< 1.00	< 1.0	< 1.0	1.00	1.00	II
Arsenic (As)	µg/l	12	< 0.3	5.2	10.0	7.5	10.0	III
Aluminium (Al)	µg/l	11	31.0	75.0	224.0	63.0	88.0	
Phenol index	mg/l	12	< 0.002	0.002	0.007	0.002	0.002	
Anionic active surfactants	mg/l	12	< 0.050	0.050	0.050	0.050	0.050	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	0.100	0.168	0.315	0.157	0.240	
Lindane	µg/l	10	< 0.010	< 0.010	< 0.010	0.010	0.010	I
pp'DDT	µg/l	10	< 0.010	< 0.010	< 0.010	0.010	0.010	II
Atrazine	µg/l	10	< 0.010	0.036	0.123	0.029	0.066	III
Chloroform	µg/l	3	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Carbon tetrachloride	µg/l	3	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Trichloroethylene	µg/l	3	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Tetrachloroethylene	µg/l	3	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	0.000	0.713	1.600	0.515	1.516	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml	12	0.028	0.762	2.220	0.545	1.760	
Salmonella sp.	in 1 litre	12	0.0	0.0	0.0	0.0	0.0	

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	/Prut	Catchment	8750	km ²	MD01
Distance from the mouth [km]	658.0	Altitude	100	m	
Location	Lipcani L				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	2	17.6	25.8	34.0	25.8	32.4	
Temperature	°C	2	0.1	7.9	15.6	7.9	14.1	
Suspended Solids	mg/l	2	30	35	40	35	39	
Dissolved Oxygen	mg/l	2	11.1	12.0	12.9	12.0	11.3	I
BOD ₅	mg/l	2	2.6	3.0	3.3	3.0	3.2	II
COD _{Mn}	mg/l							
COD _{Cr}	mg/l	2	23.5	24.8	26.0	24.8	25.8	III
TOC	mg/l							
DOC	mg/l							
pH		2	8.1	8.2	8.3	8.2	8.3	II
Alkalinity	mmol/l	2	2.7	3.2	3.7	3.2	3.6	II
Ammonium-N (NH ₄ ⁺ -N)	mg/l	2	0.630	0.645	0.660	0.645	0.657	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	2	0.023	0.028	0.033	0.028	0.032	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	2	0.84	0.84	0.84	0.84	0.84	I
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	2	0.009	0.021	0.032	0.021	0.030	I
Total Phosphorus	mg/l	2	0.02	0.06	0.09	0.06	0.09	I
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm							
Calcium (Ca ²⁺)	mg/l	2	48.1	76.1	104.0	76.1	98.4	
Sulphate (SO ₄ ²⁻)	mg/l	2	65	110	154	110	145	
Magnesium (Mg ²⁺)	mg/l	2	11.2	15.4	19.5	15.4	18.7	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l	2	0.020	0.050	0.080	0.050	0.074	
Chloride (Cl ⁻)	mg/l	2	28	39	50	39	48	
Zinc (Zn) - Dissolved	µg/l	2	12.0	13.0	14.0	13.0	13.8	III
Copper (Cu) - Dissolved	µg/l	1	10.0	10.0	10.0	10.0	10.0	III
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l							
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	2	< 3.00	< 3.00	< 3.00	3.00	3.00	**
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	2	< 0.001	0.001	0.001	0.001	0.001	
Anionic active surfactants	mg/l	2	0.020	0.035	0.050	0.035	0.047	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	2	0.060	0.095	0.130	0.095	0.123	
Lindane	µg/l	2	< 0.050	< 0.050	< 0.050	0.050	0.050	I
pp'DDT	µg/l	2	< 0.050	< 0.050	< 0.050	0.050	0.050	**
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml							
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	/Prut	Catchment	27480	km ²	MD03
Distance from the mouth [km]	0.0	Altitude	5	m	
Location	Conf.Danube-Giurgulesti L				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	3	44.3	130.4	192.0	155.0	184.6	
Temperature	°C	3	8.4	14.4	20.1	14.6	19.0	
Suspended Solids	mg/l	3	10	40	70	40	64	
Dissolved Oxygen	mg/l	3	6.9	8.3	9.1	8.7	7.3	II
BOD ₅	mg/l	2	2.6	3.1	3.6	3.1	3.5	II
COD _{Mn}	mg/l							
COD _{Cr}	mg/l	3	15.7	22.4	26.0	25.5	25.9	III
TOC	mg/l							
DOC	mg/l							
pH		3	8.1	8.1	8.2	8.1	8.2	II
Alkalinity	mmol/l	3	2.6	3.2	3.7	3.2	3.6	II
Ammonium-N (NH ₄ ⁺ -N)	mg/l	3	0.430	0.630	0.750	0.710	0.742	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	3	0.023	0.030	0.036	0.032	0.035	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	3	0.67	0.98	1.26	1.01	1.21	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	3	0.024	0.030	0.039	0.026	0.036	I
Total Phosphorus	mg/l	3	0.04	0.07	0.11	0.05	0.10	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm							
Calcium (Ca ²⁺)	mg/l	3	56.1	58.5	61.3	58.1	60.7	
Sulphate (SO ₄ ²⁻)	mg/l	3	78	105	148	88	136	
Magnesium (Mg ²⁺)	mg/l	3	7.5	18.8	31.6	17.3	28.7	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l	3	0.060	0.080	0.100	0.080	0.096	
Chloride (Cl ⁻)	mg/l	3	24	31	41	27	38	
Zinc (Zn) - Dissolved	µg/l	3	< 3.0	9.7	14.0	12.0	13.6	III
Copper (Cu) - Dissolved	µg/l	3	5.0	9.0	14.0	8.0	12.8	III
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l							
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	3	< 3.00	< 3.00	< 3.00	3.00	3.00	**
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	3	< 0.001	0.001	0.001	0.001	0.001	
Anionic active surfactants	mg/l	3	< 0.010	0.050	0.120	0.020	0.100	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	3	< 0.050	0.050	0.050	0.050	0.050	
Lindane	µg/l	3	< 0.050	< 0.050	< 0.050	0.050	0.050	I
pp'DDT	µg/l	3	< 0.050	< 0.050	< 0.050	0.050	0.050	**
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml							
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II

River	/Prut	Catchment	23400	km ²	MD04
Distance from the mouth [km]	216.0	Altitude	14	m	
Location	Leova L				2001

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	4	37.2	101.3	147.0	110.5	143.4	
Temperature	°C	4	7.8	16.7	24.2	17.4	22.7	
Suspended Solids	mg/l	4	20	78	140	75	125	
Dissolved Oxygen	mg/l	4	6.8	8.1	9.2	8.1	7.0	II
BOD ₅	mg/l	4	2.0	2.9	4.3	2.6	3.8	II
COD _{Mn}	mg/l							
COD _{Cr}	mg/l	4	17.0	21.5	25.5	21.8	25.5	III
TOC	mg/l							
DOC	mg/l							
pH		4	8.1	8.1	8.1	8.1	8.1	II
								II
Alkalinity	mmol/l	4	2.1	3.0	4.1	3.0	3.8	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	4	0.300	0.373	0.430	0.380	0.430	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	4	0.019	0.047	0.083	0.043	0.075	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	4	0.88	0.97	1.07	0.96	1.05	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	4	0.034	0.065	0.123	0.051	0.105	III
Total Phosphorus	mg/l	4	0.04	0.07	0.12	0.07	0.11	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm							
Calcium (Ca ²⁺)	mg/l	4	48.1	56.8	72.1	53.4	67.6	
Sulphate (SO ₄ ²⁻)	mg/l	4	71	94	154	75	131	
Magnesium (Mg ²⁺)	mg/l	4	15.2	21.5	34.0	18.5	29.7	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l	4	0.060	0.105	0.160	0.100	0.142	
Chloride (Cl ⁻)	mg/l	4	27	34	41	33	39	
Zinc (Zn) - Dissolved	µg/l	4	< 3.0	6.0	11.0	5.0	9.5	III
Copper (Cu) - Dissolved	µg/l	4	5.0	8.8	14.0	8.0	12.8	III
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l							
Cadmium (Cd) - Dissolved	µg/l							
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	4	< 3.00	< 3.00	< 3.00	3.00	3.00	**
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	4	< 0.001	0.002	0.002	0.002	0.002	
Anionic active surfactants	mg/l	4	< 0.020	0.030	0.040	0.030	0.037	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	4	< 0.050	0.053	0.060	0.050	0.057	
Lindane	µg/l	4	< 0.050	< 0.050	< 0.050	0.050	0.050	I
pp'DDT	µg/l	4	< 0.050	< 0.050	< 0.050	0.050	0.050	**
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml							
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml							
Salmonella sp.	in 1 litre							

* in case of dissolved oxygen and the lower pH value C10 was calculated

** not classified because the limit of detection is higher than the limit value of class II