

River	Danube	Catchment	8107	km ²	D01
Distance from the mouth [km]	2581.0	Altitude	460	m	
Location	Neu-Ulm L				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	116.5	238.1	947.3	203.7	396.7	
Temperature	°C	25	2.0	11.0	19.0	10.3	17.7	
Suspended Solids	mg/l	25	< 3	20	93	9	56	
Dissolved Oxygen	mg/l	25	8.2	10.7	12.7	10.8	8.9	I
BOD ₅	mg/l	25	< 1.0	1.3	2.8	1.2	1.8	I
COD _{Mn}	mg/l	25	1.0	3.0	6.4	2.6	4.4	I
COD _{Cr}	mg/l							
TOC	mg/l	25	1.8	3.4	6.2	3.3	4.7	
DOC	mg/l							
pH		25	7.9	8.1	8.3	8.2	8.2	II
							8.1	II
Alkalinity	mmol/l	4	3.9	4.6	4.9	4.7	4.9	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	25	< 0.020	0.059	0.140	0.050	0.110	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l							
Nitrate-N (NO ₃ ⁻ -N)	mg/l	25	2.00	3.11	4.90	3.00	3.86	III
Total Nitrogen	mg/l	24	1.90	3.02	4.10	3.05	3.50	II
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	25	0.029	0.049	0.071	0.051	0.063	II
Total Phosphorus	mg/l	25	0.06	0.10	0.18	0.09	0.15	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	14	1.0	8.7	25.0	8.0	17.9	I
Conductivity @ 20°C	µS/cm	25	370	474	553	473	527	
Calcium (Ca ²⁺)	mg/l	4	52.0	69.3	91.0	67.0	84.4	
Sulphate (SO ₄ ²⁻)	mg/l	5	18	18	19	18	19	
Magnesium (Mg ²⁺)	mg/l	4	15.0	23.0	29.0	24.0	28.1	
Potassium (K ⁺)	mg/l	4	2.0	2.3	2.7	2.3	2.6	
Sodium (Na ⁺)	mg/l	4	9.0	10.8	14.6	9.9	13.3	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl ⁻)	mg/l	25	11	19	31	19	24	
Zinc (Zn) - Dissolved	µg/l	2	< 10.0	< 10.0	< 10.0			**
Copper (Cu) - Dissolved	µg/l	2	< 1.00	1.50	2.00			II
Chromium (Cr) - Dissolved	µg/l	2	< 1.00	< 1.00	< 1.00			II
Lead (Pb) - Dissolved	µg/l	2	< 1.00	< 1.00	< 1.00			II
Cadmium (Cd) - Dissolved	µg/l	2	< 0.10	< 0.10	< 0.10			II
Mercury (Hg) - Dissolved	µg/l	2	< 0.100	< 0.100	< 0.100			II
Nickel (Ni) - Dissolved	µg/l	2	< 1.00	< 1.00	< 1.00			II
Arsenic (As) - Dissolved	µg/l	2	< 1.00	< 1.00	< 1.00			II
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	25	< 10.0	10.1	13.0	10.0	10.0	II
Copper (Cu)	µg/l	25	< 1.00	3.56	19.00	2.00	5.00	II
Chromium (Cr) - total	µg/l	25	< 1.00	1.16	2.00	1.00	2.00	II
Lead (Pb)	µg/l	25	< 1.00	1.16	2.00	1.00	2.00	II
Cadmium (Cd)	µg/l	25	< 0.10	< 0.10	< 0.10	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	1.32	4.00	1.00	2.00	II
Arsenic (As)	µg/l	25	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Aluminium (Al)	µg/l							
Phenol index	mg/l							
Anionic active surfactants	mg/l							
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l							
pp DDT	µg/l							
Atrazine	µg/l	15	< 0.010	0.013	0.020	0.010	0.020	I
Chloroform	µg/l	14	< 0.01	0.01	0.02	0.01	0.02	I
Carbon tetrachloride	µg/l	15	< 0.01	0.01	0.02	0.01	0.01	I
Trichloroethylene	µg/l	15	< 0.01	0.01	0.02	0.01	0.02	I
Tetrachloroethylene	µg/l	15	< 0.01	0.04	0.12	0.03	0.09	II
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 of II. quality class

River	Danube	Catchment	77086	km ²	D02
Distance from the mouth [km]	2204.0	Altitude	290	m	
Location	Jochenstein M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	851.2	1813.9	7281.5	1622.5	2539.3	
Temperature	°C	25	0.3	11.0	19.5	10.2	18.3	
Suspended Solids	mg/l	25	5	20	111	12	36	
Dissolved Oxygen	mg/l	25	8.4	10.9	13.8	11.3	9.0	I
BOD ₅	mg/l	25	< 1.0	2.0	3.5	2.0	2.9	I
COD _{Mn}	mg/l	13	1.5	2.7	4.3	2.4	3.6	I
COD _{Cr}	mg/l	13	4.0	11.0	19.0	12.0	13.0	II
TOC	mg/l	25	1.6	3.2	4.8	3.0	4.5	
DOC	mg/l	13	1.9	2.9	4.1	2.9	3.8	
pH		25	7.7	8.0	8.4	8.0	8.2	II
							7.9	II
Alkalinity	mmol/l	14	2.5	3.1	3.6	3.1	3.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	25	0.020	0.076	0.260	0.060	0.154	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l							
Nitrate-N (NO ₃ ⁻ -N)	mg/l	25	1.20	2.00	3.10	1.80	2.90	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	25	< 0.005	0.033	0.064	0.036	0.053	II
Total Phosphorus	mg/l	25	0.04	0.08	0.16	0.07	0.10	II
Total Phosphorus - Dissolved	mg/l	12	0.01	0.04	0.07	0.04	0.06	
Chlorophyll-a	µg/l	19	< 1.0	7.1	34.0	2.0	17.8	I
Conductivity @ 20°C	µS/cm	25	260	328	410	340	372	
Calcium (Ca ²⁺)	mg/l	12	46.4	56.2	71.7	55.6	65.6	
Sulphate (SO ₄ ²⁻)	mg/l	12	20	25	31	25	30	
Magnesium (Mg ²⁺)	mg/l	12	11.0	12.4	15.0	12.0	15.0	
Potassium (K ⁺)	mg/l	12	1.6	2.3	2.8	2.4	2.8	
Sodium (Na ⁺)	mg/l	12	6.4	9.3	15.0	8.9	12.8	
Manganese (Mn)	mg/l	12	0.016	0.030	0.088	0.024	0.038	
Iron (Fe)	mg/l	12	0.090	0.374	0.880	0.330	0.665	
Chloride (Cl ⁻)	mg/l	25	10	13	23	12	18	
Zinc (Zn) - Dissolved	µg/l	2	< 10.0	15.0	20.0			**
Copper (Cu) - Dissolved	µg/l	2	2.00	2.50	3.00			II
Chromium (Cr) - Dissolved	µg/l	2	< 1.00	< 1.00	< 1.00			II
Lead (Pb) - Dissolved	µg/l	2	< 1.00	< 1.00	< 1.00			II
Cadmium (Cd) - Dissolved	µg/l	2	< 0.10	< 0.10	< 0.10			II
Mercury (Hg) - Dissolved	µg/l	2	< 0.100	0.100	0.100			II
Nickel (Ni) - Dissolved	µg/l	2	< 1.00	1.00	1.00			II
Arsenic (As) - Dissolved	µg/l	2	1.00	1.00	1.00			II
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	25	< 10.0	19.6	40.0	20.0	30.0	II
Copper (Cu)	µg/l	25	< 1.00	2.72	7.00	2.00	4.60	II
Chromium (Cr) - total	µg/l	25	< 1.00	1.00	1.00	1.00	1.00	II
Lead (Pb)	µg/l	25	< 1.00	1.08	2.00	1.00	1.00	II
Cadmium (Cd)	µg/l	25	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg)	µg/l	23	< 0.100	0.122	0.600	0.100	0.100	II
Nickel (Ni)	µg/l	25	< 1.00	1.52	5.00	1.00	3.00	II
Arsenic (As)	µg/l	25	< 1.00	1.04	2.00	1.00	1.00	II
Aluminium (Al)	µg/l							
Phenol index	mg/l	13	< 0.020	< 0.020	< 0.020	0.020	0.020	
Anionic active surfactants	mg/l	12	< 0.100	0.100	0.100	0.100	0.100	
AOX	µg/l	13	< 10.0	< 10.0	< 10.0	10.0	10.0	I
Petroleum hydrocarbons	mg/l	13	< 0.100	< 0.100	< 0.100	0.100	0.100	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l							
pp DDT	µg/l							
Atrazine	µg/l	15	< 0.010	0.011	0.020	0.010	0.016	I
Chloroform	µg/l	14	< 0.01	0.04	0.16	0.02	0.10	II
Carbon tetrachloride	µg/l	14	< 0.01	0.01	0.02	0.01	0.01	I
Trichloroethylene	µg/l	14	< 0.01	0.03	0.11	0.02	0.06	II
Tetrachloroethylene	µg/l	14	< 0.01	0.07	0.30	0.04	0.14	II
Macrozoobenthos	sapr.index	1	2.21	2.21	2.21			II
Macrozoobenthos	no of taxa	1	93	93	93			
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 of II. quality class

River	/Inn	Catchment	9905	km ²	D03
Distance from the mouth [km]	195.0	Altitude	452	m	
Location	Kirchdorf M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	38.4	281.9	949.5	243.8	513.1	
Temperature	°C	26	0.2	8.5	14.5	8.1	13.9	
Suspended Solids	mg/l	24	< 3	170	3211	9	114	
Dissolved Oxygen	mg/l	26	9.4	10.7	13.2	10.6	9.8	I
BOD ₅	mg/l	25	< 1.0	1.2	2.6	1.0	1.6	I
COD _{Mn}	mg/l	13	0.7	1.4	3.4	1.3	1.9	I
COD _{Cr}	mg/l	13	< 5.0	< 5.0	< 5.0	5.0	5.0	I
TOC	mg/l	26	< 0.5	1.6	6.6	1.4	2.4	
DOC	mg/l							
pH		26	7.8	8.2	8.4	8.2	8.4	II
							8.1	II
Alkalinity	mmol/l	4	1.4	2.0	2.5	2.0	2.4	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	< 0.020	0.045	0.250	0.025	0.075	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l							
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	0.30	0.55	0.80	0.55	0.70	I
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	< 0.005	0.006	0.014	0.005	0.011	I
Total Phosphorus	mg/l	26	0.01	0.12	1.80	0.03	0.17	II
Total Phosphorus - Dissolved	mg/l	14	< 0.01	0.01	0.03	0.01	0.02	
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	26	140	217	345	193	315	
Calcium (Ca ²⁺)	mg/l	4	23.6	34.8	46.5	34.5	43.4	
Sulphate (SO ₄ ²⁻)	mg/l	2	21	22	23			
Magnesium (Mg ²⁺)	mg/l	4	5.6	9.9	13.3	10.4	12.6	
Potassium (K ⁺)	mg/l	3	1.1	1.5	2.1			
Sodium (Na ⁺)	mg/l	4	2.1	3.5	6.1	2.9	5.3	
Manganese (Mn)	mg/l	25	0.005	0.022	0.180	0.009	0.046	
Iron (Fe)	mg/l	25	0.010	0.688	4.000	0.130	2.700	
Chloride (Cl ⁻)	mg/l	26	< 0.5	4	8	3	7	
Zinc (Zn) - Dissolved	µg/l	1	40.0	40.0	40.0			II
Copper (Cu) - Dissolved	µg/l	1	2.00	2.00	2.00			II
Chromium (Cr) - Dissolved	µg/l	1	< 1.00	< 1.00	< 1.00			II
Lead (Pb) - Dissolved	µg/l	1	< 1.00	< 1.00	< 1.00			II
Cadmium (Cd) - Dissolved	µg/l	1	0.10	0.10	0.10			II
Mercury (Hg) - Dissolved	µg/l	1	0.400	0.400	0.400			II
Nickel (Ni) - Dissolved	µg/l	1	1.00	1.00	1.00			II
Arsenic (As) - Dissolved	µg/l	1	2.00	2.00	2.00			II
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	25	< 10.0	10.8	20.0	10.0	10.0	II
Copper (Cu)	µg/l	25	1.00	2.72	10.00	2.00	4.60	II
Chromium (Cr) - total	µg/l	25	< 1.00	1.44	4.00	1.00	3.00	II
Lead (Pb)	µg/l	25	< 1.00	1.44	5.00	1.00	2.60	II
Cadmium (Cd)	µg/l	25	< 0.10	0.10	0.10	0.10	0.10	II
Mercury (Hg)	µg/l	24	< 0.100	0.475	0.800	0.500	0.700	V
Nickel (Ni)	µg/l	25	< 1.00	2.40	10.00	1.00	5.00	II
Arsenic (As)	µg/l	24	< 1.00	1.83	5.00	2.00	2.00	II
Aluminium (Al)	µg/l							
Phenol index	mg/l							
Anionic active surfactants	mg/l							
AOX	µg/l	14	< 10.0	10.0	10.0	10.0	10.0	I
Petroleum hydrocarbons	mg/l							
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l							
pp DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l	13	< 0.01	0.03	0.24	0.01	0.02	I
Carbon tetrachloride	µg/l	13	< 0.01	0.03	0.22	0.01	0.08	II
Trichloroethylene	µg/l	13	< 0.01	0.01	0.02	0.01	0.01	I
Tetrachloroethylene	µg/l	13	< 0.01	0.02	0.05	0.01	0.05	II
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 of II. quality class

River	/Inn/Salzach	Catchment	6113	km ²	D04
Distance from the mouth [km]	47.0	Altitude	390	m	
Location	Laufen L				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	81.7	279.9	2116.0	246.7	410.3	
Temperature	°C	26	1.2	8.1	14.2	7.9	12.9	
Suspended Solids	mg/l	26	< 3	72	732	9	205	
Dissolved Oxygen	mg/l	26	9.2	11.1	12.6	11.1	10.1	I
BOD ₅	mg/l	26	< 1.0	1.9	3.3	2.0	2.7	I
COD _{Mn}	mg/l	13	1.4	2.8	9.1	2.1	3.9	I
COD _{Cr}	mg/l							
TOC	mg/l	26	0.6	2.6	10.0	1.8	5.0	
DOC	mg/l	13	1.1	1.8	3.4	1.7	2.5	
pH		26	7.7	8.1	8.4	8.1	8.2	II
							8.0	II
Alkalinity	mmol/l	13	1.9	2.6	3.1	2.7	2.9	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	< 0.020	0.037	0.120	0.025	0.070	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l							
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	0.43	0.67	1.00	0.68	0.89	I
Total Nitrogen	mg/l	26	0.50	0.80	1.50	0.80	1.00	I
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	< 0.005	0.011	0.036	0.007	0.027	I
Total Phosphorus	mg/l	26	0.02	0.07	0.41	0.04	0.13	II
Total Phosphorus - Dissolved	mg/l	24	0.01	0.02	0.04	0.01	0.03	
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	26	149	233	320	219	294	
Calcium (Ca ²⁺)	mg/l	13	28.5	43.4	55.0	43.2	51.8	
Sulphate (SO ₄ ²⁻)	mg/l	14	13	20	28	19	27	
Magnesium (Mg ²⁺)	mg/l	13	6.0	9.3	12.2	9.7	11.2	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	26	0.011	0.085	0.800	0.029	0.174	
Iron (Fe)	mg/l	26	0.070	1.789	19.000	0.370	3.350	
Chloride (Cl ⁻)	mg/l	26	3	7	21	6	11	
Zinc (Zn) - Dissolved	µg/l	3	10.0	16.7	30.0			II
Copper (Cu) - Dissolved	µg/l	4	1.00	1.25	2.00	1.00	1.70	II
Chromium (Cr) - Dissolved	µg/l	4	< 1.00	1.00	1.00	1.00	1.00	II
Lead (Pb) - Dissolved	µg/l	4	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Cadmium (Cd) - Dissolved	µg/l	4	< 0.10	0.10	0.10	0.10	0.10	II
Mercury (Hg) - Dissolved	µg/l	3	< 0.100	< 0.100	< 0.100			II
Nickel (Ni) - Dissolved	µg/l	3	1.00	2.00	4.00			II
Arsenic (As) - Dissolved	µg/l	4	< 1.00	1.00	1.00	1.00	1.00	II
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	25	< 10.0	16.0	50.0	10.0	36.0	II
Copper (Cu)	µg/l	26	1.00	6.85	80.00	2.00	8.50	II
Chromium (Cr) - total	µg/l	26	1.00	2.15	13.00	1.00	4.50	II
Lead (Pb)	µg/l	26	< 1.00	4.31	20.00	3.00	8.50	III
Cadmium (Cd)	µg/l	26	< 0.10	0.15	0.50	0.10	0.20	II
Mercury (Hg)	µg/l	26	< 0.100	0.142	0.500	0.100	0.200	III
Nickel (Ni)	µg/l	26	1.00	4.00	25.00	2.00	9.00	II
Arsenic (As)	µg/l	26	1.00	2.04	15.00	1.00	3.50	II
Aluminium (Al)	µg/l							
Phenol index	mg/l							
Anionic active surfactants	mg/l							
AOX	µg/l	16	< 10.0	10.0	10.0	10.0	10.0	I
Petroleum hydrocarbons	mg/l							
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l							
pp DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l	13	< 0.01	0.03	0.24	0.01	0.03	II
Carbon tetrachloride	µg/l	13	< 0.01	0.01	0.02	0.01	0.01	I
Trichloroethylene	µg/l	13	< 0.01	0.01	0.01	0.01	0.01	I
Tetrachloroethylene	µg/l	13	< 0.01	0.02	0.05	0.01	0.03	II
Macrozoobenthos	sapr.index	1	1.50	1.50	1.50			I
Macrozoobenthos	no of taxa	1	31	31	31			
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 of II. quality class

River	Danube	Catchment	77086	km ²	A01
Distance from the mouth [km]	2204.0	Altitude	290	m	
Location	Jochensteim M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	808.9	1793.9	5748.5	1612.6	2553.7	
Temperature	°C	12	0.3	10.4	18.5	9.7	18.2	
Suspended Solids	mg/l	12	< 0.5	18	50	14	38	
Dissolved Oxygen	mg/l	12	8.2	11.0	14.5	11.3	8.9	I
BOD ₅	mg/l	12	0.8	1.2	1.8	1.0	1.8	I
COD _{Mn}	mg/l	12	1.2	1.9	2.8	1.6	2.7	I
COD _{Cr}	mg/l	12	3.0	8.0	12.5	8.3	10.3	II
TOC	mg/l	12	1.4	2.6	3.8	2.5	3.7	
DOC	mg/l	12	1.3	2.4	3.7	2.4	3.4	
pH		12	8.0	8.1	8.3	8.1	8.2	II
							8.0	II
Alkalinity	mmol/l	12	2.6	3.1	3.7	3.1	3.6	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	< 0.004	0.045	0.126	0.041	0.071	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.008	0.015	0.024	0.014	0.023	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.58	2.43	3.34	2.28	3.26	III
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.007	0.040	0.072	0.043	0.055	II
Total Phosphorus	mg/l	12	0.02	0.09	0.25	0.07	0.15	II
Total Phosphorus - Dissolved	mg/l	12	0.01	0.05	0.08	0.05	0.06	
Chlorophyll-a	µg/l	12	0.3	4.5	24.1	1.6	8.0	I
Conductivity @ 20°C	µS/cm	12	297	349	425	352	398	
Calcium (Ca ²⁺)	mg/l	12	46.0	54.1	68.1	53.2	61.6	
Sulphate (SO ₄ ²⁻)	mg/l	12	21	25	31	25	30	
Magnesium (Mg ²⁺)	mg/l	12	10.4	12.0	15.7	11.5	13.7	
Potassium (K ⁺)	mg/l	12	1.8	2.3	3.1	2.1	2.9	
Sodium (Na ⁺)	mg/l	12	6.6	8.4	13.3	7.6	11.7	
Manganese (Mn)	mg/l	12	< 0.006	0.033	0.130	0.023	0.040	
Iron (Fe)	mg/l	12	< 0.007	0.422	1.100	0.305	0.838	
Chloride (Cl ⁻)	mg/l	12	11	14	25	11	20	
Zinc (Zn) - Dissolved	µg/l	12	< 0.8	3.5	7.0	3.0	5.8	III
Copper (Cu) - Dissolved	µg/l	12	< 0.70	2.37	6.00	2.00	4.90	III
Chromium (Cr) - Dissolved	µg/l	12	< 0.60	< 0.60	< 0.60	0.60	0.60	II
Lead (Pb) - Dissolved	µg/l	12	< 0.80	< 0.80	< 0.80	0.80	0.80	II
Cadmium (Cd) - Dissolved	µg/l	12	< 0.10	0.16	0.40	0.10	0.30	III
Mercury (Hg) - Dissolved	µg/l	12	< 0.100	< 0.100	< 0.100	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l	12	< 0.70	0.91	2.00	0.70	1.00	II
Arsenic (As) - Dissolved	µg/l	12	< 0.70	0.78	1.00	0.70	1.00	II
Aluminium (Al) - Dissolved	µg/l	12	< 7.0	27.0	100.0	20.0	49.0	
Zinc (Zn)	µg/l	12	< 0.8	3.9	7.0	3.0	6.0	II
Copper (Cu)	µg/l	12	< 0.70	3.14	12.00	2.00	5.80	II
Chromium (Cr) - total	µg/l	12	< 0.60	0.67	1.00	0.60	0.96	II
Lead (Pb)	µg/l	12	< 0.80	0.95	2.00	0.80	1.00	II
Cadmium (Cd)	µg/l	12	< 0.10	0.18	0.50	0.10	0.39	II
Mercury (Hg)	µg/l	12	< 0.100	< 0.100	< 0.100	0.100	0.100	II
Nickel (Ni)	µg/l	12	< 0.70	1.07	2.00	1.00	1.90	II
Arsenic (As)	µg/l	12	< 0.70	0.90	2.00	0.70	1.18	II
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	< 0.003	< 0.003	< 0.003	0.003	0.003	
Anionic active surfactants	mg/l	12	< 0.006	0.015	0.031	0.014	0.029	
AOX	µg/l	12	4.7	7.6	11.7	7.7	9.7	I
Petroleum hydrocarbons	mg/l	12	< 0.040	< 0.040	< 0.040	0.040	0.040	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l							
pp DDT	µg/l							
Atrazine	µg/l	12	< 0.025	< 0.025	< 0.025	0.025	0.025	II
Chloroform	µg/l	12	< 0.05	< 0.05	< 0.05	0.05	0.05	II
Carbon tetrachloride	µg/l	12	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Trichloroethylene	µg/l	12	< 0.03	0.03	0.05	0.03	0.03	II
Tetrachloroethylene	µg/l	12	< 0.08	0.09	0.21	0.08	0.08	II
Macrozoobenthos	sapr.index	2	2.23	2.24	2.24			II
Macrozoobenthos	no of taxa	2	46	64	82			
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	0.350	3.804	10.000	2.650	8.240	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	12	0.250	1.871	4.600	1.800	3.060	
Faecal Streptococci	10 ³ CFU/100 ml	12	0.002	0.093	0.600	0.043	0.109	
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 of II. quality class

River	Danube	Catchment	83992	km ²	A02
Distance from the mouth [km]	2120.0	Altitude	251	m	
Location	Abwinden-Asten R				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	903.6	1996.5	7461.7	1796.2	2792.3	
Temperature	°C	12	0.5	10.9	19.0	10.2	18.4	
Suspended Solids	mg/l	12	2	34	191	13	69	
Dissolved Oxygen	mg/l	12	9.0	11.2	13.0	11.6	9.3	I
BOD ₅	mg/l	12	< 0.5	1.3	1.8	1.2	1.8	I
COD _{Mn}	mg/l							
COD _{Cr}	mg/l	12	3.1	8.5	13.1	8.6	11.8	II
TOC	mg/l	12	1.5	2.8	5.1	2.6	3.6	
DOC	mg/l	12	1.3	2.3	3.1	2.4	3.1	
pH		12	8.0	8.1	8.3	8.1	8.2	II
							8.1	II
Alkalinity	mmol/l	12	2.6	3.0	3.6	3.0	3.4	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.011	0.049	0.137	0.042	0.077	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.009	0.015	0.024	0.013	0.021	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.48	2.23	3.18	2.00	3.04	III
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.006	0.033	0.057	0.034	0.049	I
Total Phosphorus	mg/l	12	0.02	0.07	0.12	0.06	0.10	I
Total Phosphorus - Dissolved	mg/l	12	0.01	0.04	0.06	0.04	0.06	
Chlorophyll-a	µg/l	11	0.3	5.2	26.1	3.6	8.9	I
Conductivity @ 20°C	µS/cm	12	299	355	427	355	395	
Calcium (Ca ²⁺)	mg/l	12	45.5	54.9	66.5	54.8	62.2	
Sulphate (SO ₄ ²⁻)	mg/l	12	20	26	31	26	30	
Magnesium (Mg ²⁺)	mg/l	12	8.4	11.0	15.0	10.8	12.3	
Potassium (K ⁺)	mg/l	12	1.9	2.4	3.3	2.3	3.0	
Sodium (Na ⁺)	mg/l	12	8.1	10.0	14.0	9.5	13.6	
Manganese (Mn)	mg/l	12	0.010	0.036	0.150	0.021	0.059	
Iron (Fe)	mg/l	12	0.130	0.568	2.500	0.255	0.946	
Chloride (Cl ⁻)	mg/l	12	14	20	30	17	27	
Zinc (Zn) - Dissolved	µg/l	12	2.0	5.6	19.0	3.0	10.8	III
Copper (Cu) - Dissolved	µg/l	12	1.00	2.42	6.00	2.00	4.90	III
Chromium (Cr) - Dissolved	µg/l	12	< 0.60	< 0.60	< 0.60	0.60	0.60	II
Lead (Pb) - Dissolved	µg/l	12	< 0.80	< 0.80	< 0.80	0.80	0.80	II
Cadmium (Cd) - Dissolved	µg/l	12	< 0.10	0.13	0.30	0.10	0.19	III
Mercury (Hg) - Dissolved	µg/l	12	< 0.100	< 0.100	< 0.100	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l	12	< 0.70	1.02	2.00	0.85	1.90	III
Arsenic (As) - Dissolved	µg/l	12	< 0.70	0.73	1.00	0.70	0.70	II
Aluminium (Al) - Dissolved	µg/l	12	< 7.0	25.6	70.0	20.0	58.0	
Zinc (Zn)	µg/l	12	2.0	6.4	19.0	4.5	10.8	II
Copper (Cu)	µg/l	12	1.00	3.50	11.00	2.50	6.80	II
Chromium (Cr) - total	µg/l	12	< 0.60	0.75	2.00	0.60	0.96	II
Lead (Pb)	µg/l	12	< 0.80	1.50	4.00	1.00	2.90	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	< 0.70	1.43	4.00	1.00	2.00	II
Arsenic (As)	µg/l	12	< 0.70	0.80	1.30	0.70	1.00	II
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	< 0.003	< 0.003	< 0.003	0.003	0.003	
Anionic active surfactants	mg/l	12	< 0.006	0.017	0.035	0.014	0.029	
AOX	µg/l	12	5.6	7.7	10.4	7.7	9.5	I
Petroleum hydrocarbons	mg/l	12	< 0.040	< 0.040	< 0.040	0.040	0.040	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l							
pp'DDT	µg/l							
Atrazine	µg/l	12	< 0.025	< 0.025	< 0.025	0.025	0.025	II
Chloroform	µg/l	12	< 0.05	< 0.05	< 0.05	0.05	0.05	II
Carbon tetrachloride	µg/l	12	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Trichloroethylene	µg/l	12	< 0.03	< 0.03	< 0.03	0.03	0.03	II
Tetrachloroethylene	µg/l	12	< 0.08	< 0.08	< 0.08	0.08	0.08	II
Macrozoobenthos	sapr.index	2	2.12	2.16	2.19			II
Macrozoobenthos	no of taxa	2	17	29	40			
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	0.200	5.108	14.000	3.400	13.490	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	12	0.150	2.442	8.800	1.850	4.490	
Faecal Streptococci	10 ³ CFU/100 ml	12	0.001	0.156	1.100	0.034	0.424	
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 of II. quality class

River	Danube	Catchment	101700 km ²	A03
Distance from the mouth [km]	1935.0	Altitude	159 m	
Location	Wien-Nussdorf R			2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	1059.2	2479.1	8989.2	2168.9	3558.8	
Temperature	°C	12	1.0	11.0	20.2	10.0	19.7	
Suspended Solids	mg/l	12	6	38	138	20	105	
Dissolved Oxygen	mg/l	12	9.2	11.5	14.0	11.8	9.3	I
BOD ₅	mg/l	12	0.7	1.3	2.0	1.2	1.8	I
COD _{Mn}	mg/l							
COD _{Cr}	mg/l	12	1.9	8.8	17.3	8.9	12.0	II
TOC	mg/l	12	1.3	2.6	4.7	2.6	3.9	
DOC	mg/l	12	1.2	2.3	3.8	2.3	3.3	
pH		12	8.1	8.2	8.4	8.1	8.4	II
Alkalinity	mmol/l	12	2.6	3.0	3.5	2.9	3.2	II
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	< 0.004	0.041	0.155	0.035	0.055	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.006	0.016	0.030	0.014	0.025	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.37	2.25	3.28	2.01	3.04	III
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	< 0.003	0.035	0.063	0.037	0.051	II
Total Phosphorus	mg/l	12	0.02	0.06	0.14	0.06	0.09	I
Total Phosphorus - Dissolved	mg/l	12	0.01	0.04	0.06	0.04	0.06	
Chlorophyll-a	µg/l	12	0.3	6.3	33.7	3.0	9.0	I
Conductivity @ 20°C	µS/cm	12	300	340	421	332	374	
Calcium (Ca ²⁺)	mg/l	12	46.5	53.3	66.2	52.5	56.6	
Sulphate (SO ₄ ²⁻)	mg/l	12	19	25	31	26	28	
Magnesium (Mg ²⁺)	mg/l	12	8.8	11.4	14.7	11.3	12.6	
Potassium (K ⁺)	mg/l	12	1.8	2.3	3.2	2.2	2.9	
Sodium (Na ⁺)	mg/l	12	6.7	8.9	14.9	8.1	11.2	
Manganese (Mn)	mg/l	12	0.015	0.040	0.140	0.027	0.076	
Iron (Fe)	mg/l	12	0.170	0.719	3.000	0.350	1.538	
Chloride (Cl ⁻)	mg/l	12	11	15	27	13	22	
Zinc (Zn) - Dissolved	µg/l	12	2.0	6.2	25.0	3.0	13.3	III
Copper (Cu) - Dissolved	µg/l	12	1.00	2.25	4.00	2.00	3.90	III
Chromium (Cr) - Dissolved	µg/l	12	< 0.60	< 0.60	< 0.60	0.60	0.60	II
Lead (Pb) - Dissolved	µg/l	12	< 0.80	< 0.80	< 0.80	0.80	0.80	II
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	12	< 0.70	0.93	2.00	0.85	1.00	II
Arsenic (As) - Dissolved	µg/l	12	< 0.70	< 0.70	< 0.70	0.70	0.70	II
Aluminium (Al) - Dissolved	µg/l	12	10.0	29.2	70.0	25.0	48.0	
Zinc (Zn)	µg/l	12	2.0	7.0	25.0	5.0	13.3	II
Copper (Cu)	µg/l	12	2.00	3.50	11.00	2.00	4.90	II
Chromium (Cr) - total	µg/l	12	< 0.60	0.92	3.00	0.60	1.86	II
Lead (Pb)	µg/l	12	< 0.80	1.38	4.00	0.80	2.90	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	< 0.70	1.62	5.00	1.00	2.90	II
Arsenic (As)	µg/l	12	< 0.70	1.00	3.00	0.70	1.63	II
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	< 0.003	< 0.003	< 0.003	0.003	0.003	
Anionic active surfactants	mg/l	12	< 0.006	0.013	0.032	0.011	0.028	
AOX	µg/l	12	4.0	8.4	16.6	7.4	12.2	II
Petroleum hydrocarbons	mg/l	12	< 0.040	0.042	0.060	0.040	0.040	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l							
pp'DDT	µg/l							
Atrazine	µg/l	12	< 0.025	< 0.025	< 0.025	0.025	0.025	II
Chloroform	µg/l	12	< 0.05	< 0.05	< 0.05	0.05	0.05	II
Carbon tetrachloride	µg/l	12	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Trichloroethylene	µg/l	12	< 0.03	< 0.03	< 0.03	0.03	0.03	II
Tetrachloroethylene	µg/l	12	< 0.08	0.08	0.13	0.08	0.08	II
Macrozoobenthos	sapr.index	2	2.06	2.10	2.14			II
Macrozoobenthos	no of taxa	2	22	28	34			
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	0.250	3.663	12.000	3.200	6.380	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	12	0.250	2.125	4.900	1.500	4.820	
Faecal Streptococci	10 ³ CFU/100 ml	12	0.005	0.136	0.730	0.031	0.520	
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 of II. quality class

River	Danube	Catchment	131411	km ²	A04
Distance from the mouth [km]	1874.0	Altitude	140	m	
Location	Wolfsthal R				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	1150.0	2669.9	11658.0	2375.0	3679.2	
Temperature	°C	24	0.6	11.3	20.5	9.7	19.2	
Suspended Solids	mg/l	24	2	27	96	19	63	
Dissolved Oxygen	mg/l	24	8.1	11.0	13.3	11.5	8.5	I
BOD ₅	mg/l	24	< 0.5	1.7	3.0	1.8	2.6	I
COD _{Mn}	mg/l	23	0.9	1.6	2.8	1.4	2.3	I
COD _{Cr}	mg/l	24	4.0	9.5	14.8	9.5	12.9	II
TOC	mg/l	24	1.4	2.6	7.2	2.2	3.3	
DOC	mg/l	24	0.9	2.4	7.0	2.2	3.0	
pH		24	8.0	8.1	8.4	8.1	8.2	II
Alkalinity	mmol/l	24	2.6	3.0	3.7	3.0	3.3	II
Ammonium-N (NH ₄ ⁺ -N)	mg/l	24	< 0.004	0.079	0.297	0.066	0.128	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	24	0.014	0.025	0.044	0.022	0.038	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	24	1.42	2.25	3.18	2.20	3.06	III
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	24	0.007	0.036	0.077	0.036	0.057	II
Total Phosphorus	mg/l	24	0.03	0.08	0.49	0.06	0.10	I
Total Phosphorus - Dissolved	mg/l	24	0.02	0.05	0.08	0.04	0.07	
Chlorophyll-a	µg/l	24	0.2	11.2	38.9	3.8	35.0	II
Conductivity @ 20°C	µS/cm	24	305	352	433	351	400	
Calcium (Ca ²⁺)	mg/l	24	44.9	54.2	68.7	54.6	59.5	
Sulphate (SO ₄ ²⁻)	mg/l	24	21	28	37	27	33	
Magnesium (Mg ²⁺)	mg/l	24	9.0	12.0	16.3	11.8	13.7	
Potassium (K ⁺)	mg/l	24	2.0	2.5	3.8	2.4	3.1	
Sodium (Na ⁺)	mg/l	24	6.4	9.0	16.6	8.4	11.8	
Manganese (Mn)	mg/l	24	< 0.006	0.024	0.070	0.020	0.040	
Iron (Fe)	mg/l	24	0.086	0.364	0.960	0.285	0.739	
Chloride (Cl ⁻)	mg/l	24	11	16	30	13	23	
Zinc (Zn) - Dissolved	µg/l	24	< 0.8	4.3	17.0	3.0	7.7	III
Copper (Cu) - Dissolved	µg/l	24	< 0.70	2.36	5.00	2.00	4.70	III
Chromium (Cr) - Dissolved	µg/l	24	< 0.60	< 0.60	< 0.60	0.60	0.60	II
Lead (Pb) - Dissolved	µg/l	24	< 0.80	< 0.80	< 0.80	0.80	0.80	II
Cadmium (Cd) - Dissolved	µg/l	24	< 0.10	0.10	0.20	0.10	0.10	II
Mercury (Hg) - Dissolved	µg/l	24	< 0.100	< 0.100	< 0.100	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l	24	< 0.70	1.15	3.00	1.00	2.00	III
Arsenic (As) - Dissolved	µg/l	24	< 0.70	0.76	1.00	0.70	1.00	II
Aluminium (Al) - Dissolved	µg/l	24	10.0	26.7	80.0	20.0	47.0	
Zinc (Zn)	µg/l	24	< 0.8	5.1	17.0	5.0	7.7	II
Copper (Cu)	µg/l	24	1.00	2.92	6.00	2.00	5.00	II
Chromium (Cr) - total	µg/l	24	< 0.60	0.62	1.00	0.60	0.60	II
Lead (Pb)	µg/l	24	< 0.80	0.86	1.00	0.80	1.00	II
Cadmium (Cd)	µg/l	24	< 0.10	0.13	0.40	0.10	0.20	II
Mercury (Hg)	µg/l	24	< 0.100	< 0.100	< 0.100	0.100	0.100	II
Nickel (Ni)	µg/l	24	< 0.70	1.61	8.00	1.00	2.00	II
Arsenic (As)	µg/l	24	< 0.70	0.88	2.00	0.70	1.21	II
Aluminium (Al)	µg/l							
Phenol index	mg/l	24	< 0.003	< 0.003	< 0.003	0.003	0.003	
Anionic active surfactants	mg/l	24	< 0.006	0.014	0.050	0.012	0.029	
AOX	µg/l	24	4.3	8.2	17.1	7.4	11.8	II
Petroleum hydrocarbons	mg/l	24	< 0.040	< 0.040	< 0.040	0.040	0.040	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l							
pp'DDT	µg/l							
Atrazine	µg/l	24	< 0.025	< 0.025	< 0.025	0.025	0.025	II
Chloroform	µg/l	24	< 0.05	< 0.05	< 0.05	0.05	0.05	II
Carbon tetrachloride	µg/l	24	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Trichloroethylene	µg/l	24	< 0.03	< 0.03	< 0.03	0.03	0.03	II
Tetrachloroethylene	µg/l	24	< 0.08	0.08	0.18	0.08	0.08	II
Macrozoobenthos	sapr.index	3	2.04	2.12	2.25			II
Macrozoobenthos	no of taxa	3	9	11	13			
Total Coliforms (37°C)	10 ³ CFU/100 ml	24	2.700	15.108	150.000	5.650	30.700	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	24	0.270	4.940	62.000	2.200	4.970	
Faecal Streptococci	10 ³ CFU/100 ml	24	0.034	0.225	1.100	0.120	0.521	
Salmonella sp.	in 1 litre	21	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 of II. quality class

River	/Morava	Catchment	9725	km ²	CZ01
Distance from the mouth [km]	79.0	Altitude	150	m	
Location	Lanzhot M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	13.7	68.5	375.5	49.8	146.6	
Temperature	°C	12	0.1	11.9	25.3	9.3	22.8	
Suspended Solids	mg/l	12	4	24	87	19	35	
Dissolved Oxygen	mg/l	12	8.3	11.0	14.2	11.4	8.9	I
BOD ₅	mg/l	12	1.9	3.9	7.5	3.2	5.8	III
COD _{Mn}	mg/l	12	4.9	6.1	7.7	5.9	7.6	II
COD _{Cr}	mg/l	12	10.9	16.4	26.2	15.0	20.7	II
TOC	mg/l	12	2.4	4.3	6.2	4.4	5.3	
DOC	mg/l	12	2.2	3.6	5.6	3.6	4.7	
pH		12	7.8	8.1	8.5	8.0	8.4	II
							7.9	II
Alkalinity	mmol/l	12	1.6	2.4	3.1	2.5	2.8	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	< 0.030	0.187	1.000	0.124	0.247	II
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.019	0.038	0.067	0.036	0.054	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.85	2.60	3.61	2.77	3.24	III
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l	12	0.50	0.90	1.32	0.84	1.31	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.077	0.126	0.225	0.124	0.164	III
Total Phosphorus	mg/l	12	0.15	0.27	0.49	0.24	0.45	IV
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	12	< 2.5	44.4	154.0	17.2	121.9	IV
Conductivity @ 20°C	µS/cm	12	311	441	576	448	532	
Calcium (Ca ²⁺)	mg/l	12	37.8	49.8	61.4	50.7	57.3	
Sulphate (SO ₄ ²⁻)	mg/l	12	45	65	86	67	80	
Magnesium (Mg ²⁺)	mg/l	12	5.9	8.9	11.1	8.6	11.1	
Potassium (K ⁺)	mg/l	12	3.0	4.8	7.1	4.5	6.7	
Sodium (Na ⁺)	mg/l	12	10.9	17.9	29.5	16.6	24.8	
Manganese (Mn)	mg/l	12	0.025	0.087	0.218	0.072	0.150	
Iron (Fe)	mg/l	12	0.119	0.276	0.676	0.229	0.457	
Chloride (Cl ⁻)	mg/l	12	12	22	34	20	33	
Zinc (Zn) - Dissolved	µg/l	12	< 5.0	6.9	17.6	5.0	9.7	III
Copper (Cu) - Dissolved	µg/l	12	1.00	2.02	3.94	1.61	3.34	III
Chromium (Cr) - Dissolved	µg/l	12	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Lead (Pb) - Dissolved	µg/l	12	< 1.00	1.12	2.38	1.00	1.00	II
Cadmium (Cd) - Dissolved	µg/l	12	< 0.10	0.11	0.22	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	12	< 1.00	2.15	6.10	1.79	3.43	III
Arsenic (As) - Dissolved	µg/l	12	< 1.00	1.11	2.07	1.00	1.11	III
Aluminium (Al) - Dissolved	µg/l	12	< 5.0	25.3	179.0	9.6	23.2	
Zinc (Zn)	µg/l	12	< 5.0	9.1	18.3	6.7	16.2	II
Copper (Cu)	µg/l	12	< 1.00	2.87	6.05	2.36	4.99	II
Chromium (Cr) - total	µg/l	12	< 1.00	1.10	2.06	1.00	1.12	II
Lead (Pb)	µg/l	12	< 1.00	1.80	4.09	1.20	3.28	II
Cadmium (Cd)	µg/l	12	< 0.10	0.13	0.22	0.10	0.20	II
Mercury (Hg)	µg/l	12	< 0.100	0.105	0.140	0.100	0.110	III
Nickel (Ni)	µg/l	12	< 1.00	2.57	8.13	1.79	4.59	II
Arsenic (As)	µg/l	12	< 1.00	1.17	2.18	1.00	1.51	II
Aluminium (Al)	µg/l	12	41.2	214.2	504.0	118.5	458.9	
Phenol index	mg/l	12	< 0.001	0.001	0.003	0.001	0.002	
Anionic active surfactants	mg/l	12	< 0.050	0.056	0.080	0.050	0.073	
AOX	µg/l	12	9.1	18.9	32.6	18.0	30.7	II
Petroleum hydrocarbons	mg/l	12	< 0.030	0.034	0.080	0.030	0.030	
PAH (sum of 6)	µg/l	12	0.009	0.028	0.089	0.024	0.037	
PCB (sum of 7)	µg/l	12	< 0.002	0.013	0.025	0.015	0.024	
Lindane	µg/l	12	< 0.002	0.009	0.025	0.004	0.024	I
pp DDT	µg/l	12	< 0.002	0.005	0.016	0.003	0.012	III
Atrazine	µg/l	12	< 0.100	< 0.100	< 0.100	0.100	0.100	II
Chloroform	µg/l	12	< 0.03	< 0.03	< 0.03	0.03	0.03	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	2.13	2.13	2.13			
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	0.400	5.883	9.000	6.100	8.720	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	12	0.000	2.283	4.800	1.950	4.080	
Faecal Streptococci	10 ³ CFU/100 ml	12	0.200	1.583	2.800	1.400	2.560	
Salmonella sp.	in 1 litre	12	0.0	0.7	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 of II. quality class

River	/Morava/Dyje	Catchment	12540	km ²	CZ02
Distance from the mouth [km]	17.0	Altitude	155	m	
Location	Pohansko M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	12.0	52.2	278.6	37.3	100.7	
Temperature	°C	12	1.9	12.5	24.4	9.4	22.9	
Suspended Solids	mg/l	12	5	15	25	15	24	
Dissolved Oxygen	mg/l	12	6.5	10.3	13.1	11.0	7.5	I
BOD ₅	mg/l	12	1.7	3.3	5.7	3.3	4.7	II
COD _{Mn}	mg/l	12	5.7	7.9	10.3	7.8	9.2	II
COD _{Cr}	mg/l	12	19.7	25.4	36.3	24.1	31.4	III
TOC	mg/l	12	6.1	7.7	10.7	7.3	9.2	
DOC	mg/l	12	5.6	7.2	10.0	6.7	9.1	
pH		12	7.8	8.0	8.7	8.0	8.2	II
							7.8	II
Alkalinity	mmol/l	12	1.6	2.2	2.8	2.1	2.7	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.056	0.224	1.067	0.131	0.418	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.037	0.057	0.101	0.050	0.090	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.74	4.16	6.35	4.79	5.96	III
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l	12	0.79	1.16	1.81	1.08	1.51	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.080	0.185	0.472	0.148	0.241	IV
Total Phosphorus	mg/l	12	0.16	0.34	0.74	0.26	0.63	IV
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	12	< 2.5	26.0	84.0	15.1	54.5	III
Conductivity @ 20°C	µS/cm	12	429	558	689	568	599	
Calcium (Ca ²⁺)	mg/l	12	39.7	47.4	55.9	48.1	51.8	
Sulphate (SO ₄ ²⁻)	mg/l	12	68	95	108	95	104	
Magnesium (Mg ²⁺)	mg/l	12	12.6	17.2	20.1	17.7	20.0	
Potassium (K ⁺)	mg/l	12	6.4	8.2	10.6	8.0	10.0	
Sodium (Na ⁺)	mg/l	12	16.9	24.4	32.8	23.7	30.0	
Manganese (Mn)	mg/l	12	0.048	0.094	0.171	0.096	0.118	
Iron (Fe)	mg/l	12	0.076	0.176	0.261	0.169	0.259	
Chloride (Cl ⁻)	mg/l	12	23	35	51	33	42	
Zinc (Zn) - Dissolved	µg/l	12	< 5.0	6.5	15.8	5.0	8.6	III
Copper (Cu) - Dissolved	µg/l	12	1.77	2.66	3.77	2.57	3.55	III
Chromium (Cr) - Dissolved	µg/l	12	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Lead (Pb) - Dissolved	µg/l	12	< 1.00	1.16	2.37	1.00	1.30	III
Cadmium (Cd) - Dissolved	µg/l	12	< 0.10	0.11	0.21	0.10	0.12	III
Mercury (Hg) - Dissolved	µg/l	12	< 0.100	0.100	0.100	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l	12	1.45	3.20	7.74	2.76	4.12	III
Arsenic (As) - Dissolved	µg/l	12	< 1.00	1.45	3.57	1.06	1.99	III
Aluminium (Al) - Dissolved	µg/l	12	< 5.0	14.1	30.4	10.5	29.9	
Zinc (Zn)	µg/l	12	< 5.0	7.2	15.8	5.0	10.7	II
Copper (Cu)	µg/l	12	1.81	3.08	3.87	3.20	3.82	II
Chromium (Cr) - total	µg/l	12	< 1.00	1.01	1.11	1.00	1.00	II
Lead (Pb)	µg/l	12	< 1.00	1.50	3.18	1.25	2.15	II
Cadmium (Cd)	µg/l	12	< 0.10	0.16	0.50	0.10	0.30	II
Mercury (Hg)	µg/l	12	< 0.100	0.203	1.180	0.100	0.202	IV
Nickel (Ni)	µg/l	12	1.45	3.46	7.74	3.28	4.12	II
Arsenic (As)	µg/l	12	< 1.00	1.57	3.57	1.30	2.18	II
Aluminium (Al)	µg/l	12	33.7	153.4	597.0	119.5	204.4	
Phenol index	mg/l	12	< 0.001	0.002	0.005	0.001	0.004	
Anionic active surfactants	mg/l	12	0.050	0.058	0.089	0.050	0.081	
AOX	µg/l	12	15.3	26.1	42.1	24.4	39.5	II
Petroleum hydrocarbons	mg/l	12	< 0.030	0.033	0.070	0.030	0.030	
PAH (sum of 6)	µg/l	12	0.009	0.021	0.041	0.019	0.033	
PCB (sum of 7)	µg/l	12	< 0.002	0.010	0.022	0.009	0.018	
Lindane	µg/l	12	< 0.002	0.007	0.026	0.002	0.024	I
pp DDT	µg/l	12	< 0.002	0.005	0.016	0.003	0.013	III
Atrazine	µg/l	12	< 0.100	< 0.100	< 0.100	0.100	0.100	II
Chloroform	µg/l	12	< 0.03	< 0.03	< 0.03	0.03	0.03	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	2.10	2.16	2.22			
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	1.800	6.092	15.800	4.450	10.940	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	12	0.300	2.258	6.600	1.250	5.140	
Faecal Streptococci	10 ³ CFU/100 ml	12	0.200	1.433	3.400	0.900	3.140	
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 of II. quality class

River	Danube	Catchment	131329 km ²	SK01
Distance from the mouth [km]	1869.0	Altitude	128 m	
Location	Bratislava M			2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	1182.0	2683.0	10170.0	2378.0	3716.2	
Temperature	°C	25	4.2	11.7	20.2	10.2	19.7	
Suspended Solids	mg/l	25	8	33	101	30	50	
Dissolved Oxygen	mg/l	25	7.8	10.2	12.2	10.6	8.5	I
BOD ₅	mg/l	25	1.1	2.1	3.5	2.0	2.7	I
COD _{Mn}	mg/l	25	3.6	4.6	9.1	4.4	5.7	II
COD _{Cr}	mg/l	25	8.0	12.4	20.2	12.1	15.6	II
TOC	mg/l	25	2.0	2.9	4.7	2.8	3.6	
DOC	mg/l							
pH		25	7.9	8.2	8.5	8.2	8.4	II
							8.0	II
Alkalinity	mmol/l	25	2.5	3.0	3.6	3.1	3.4	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	25	< 0.040	0.084	0.300	0.080	0.120	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	25	0.003	0.019	0.034	0.017	0.029	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	25	1.31	2.20	3.44	2.12	3.17	III
Total Nitrogen	mg/l	25	1.66	2.64	3.92	2.52	3.72	II
Organic Nitrogen	mg/l	25	0.14	0.34	0.51	0.33	0.49	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	25	< 0.016	0.043	0.068	0.042	0.060	II
Total Phosphorus	mg/l	25	0.06	0.10	0.20	0.10	0.12	II
Total Phosphorus - Dissolved	mg/l	12	< 0.05	0.07	0.10	0.07	0.08	
Chlorophyll-a	µg/l	25	1.4	13.2	50.1	6.2	35.7	II
Conductivity @ 20°C	µS/cm	25	294	370	451	367	417	
Calcium (Ca ²⁺)	mg/l	25	46.0	55.6	67.1	56.1	62.1	
Sulphate (SO ₄ ²⁻)	mg/l	25	20	28	43	27	32	
Magnesium (Mg ²⁺)	mg/l	25	7.9	12.7	16.4	13.4	14.6	
Potassium (K ⁺)	mg/l	25	1.5	2.4	3.2	2.4	2.9	
Sodium (Na ⁺)	mg/l	25	6.3	9.0	15.0	9.0	11.6	
Manganese (Mn)	mg/l	25	< 0.050	0.054	0.130	0.050	0.050	
Iron (Fe)	mg/l	25	0.170	0.440	1.110	0.390	0.610	
Chloride (Cl ⁻)	mg/l	25	11	16	25	14	21	
Zinc (Zn) - Dissolved	µg/l	12	< 20.0	< 20.0	< 20.0	20.0	20.0	**
Copper (Cu) - Dissolved	µg/l	12	0.50	1.73	2.96	1.70	2.65	III
Chromium (Cr) - Dissolved	µg/l	12	< 0.20	0.56	1.20	0.51	1.14	II
Lead (Pb) - Dissolved	µg/l	12	< 1.00	1.08	1.90	1.00	1.00	II
Cadmium (Cd) - Dissolved	µg/l	12	< 0.05	0.05	0.06	0.05	0.05	II
Mercury (Hg) - Dissolved	µg/l	12	< 0.100	0.120	0.340	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l	12	< 1.00	1.28	2.40	1.00	1.68	III
Arsenic (As) - Dissolved	µg/l	12	< 1.00	1.01	1.15	1.00	1.01	III
Aluminium (Al) - Dissolved	µg/l	12	12.3	29.1	62.0	27.9	49.7	
Zinc (Zn)	µg/l	12	< 20.0	50.0	380.0	20.0	20.0	II
Copper (Cu)	µg/l	12	1.80	3.26	12.40	2.35	3.30	II
Chromium (Cr) - total	µg/l	12	< 0.20	0.99	2.00	0.92	1.57	II
Lead (Pb)	µg/l	12	< 1.00	1.55	2.90	1.00	2.67	II
Cadmium (Cd)	µg/l	12	< 0.05	0.29	2.90	0.05	0.05	II
Mercury (Hg)	µg/l	12	< 0.100	0.184	1.100	0.100	0.109	III
Nickel (Ni)	µg/l	12	< 1.00	2.17	5.61	1.70	4.20	II
Arsenic (As)	µg/l	12	< 1.00	1.07	1.48	1.00	1.21	II
Aluminium (Al)	µg/l	12	21.8	570.6	2450.0	278.5	1536.0	
Phenol index	mg/l	25	< 0.002	0.003	0.007	0.003	0.006	
Anionic active surfactants	mg/l	25	< 0.050	0.050	0.060	0.050	0.050	
AOX	µg/l	25	< 9.0	38.8	168.0	26.0	75.2	III
Petroleum hydrocarbons	mg/l	25	< 0.010	0.019	0.040	0.020	0.030	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l	4	< 0.005	< 0.005	< 0.005	0.005	0.005	
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	4	< 0.070	< 0.070	< 0.070	0.070	0.070	II
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	2.07	2.08	2.09			II
Macrozoobenthos	no of taxa	3	6	10	12			
Total Coliforms (37°C)	10 ³ CFU/100 ml	25	1.300	20.192	105.000	11.000	45.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	25	0.700	4.968	21.000	2.100	15.200	
Faecal Streptococci	10 ³ CFU/100 ml	25	0.000	0.680	4.200	0.400	1.520	
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 of II. quality class

River	Danube	Catchment	132168	km ²	SK02
Distance from the mouth [km]	1806.0	Altitude	108	m	
Location	Medvedov/Medve M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	1111.0	2572.9	9067.0	2307.0	3710.8	
Temperature	°C	12	1.7	11.6	21.0	9.8	20.9	
Suspended Solids	mg/l	12	8	24	80	19	31	
Dissolved Oxygen	mg/l	12	8.5	10.1	11.6	10.5	8.7	I
BOD ₅	mg/l	12	1.1	1.6	2.6	1.4	2.2	I
COD _{Mn}	mg/l	12	2.9	4.0	6.3	3.9	4.5	I
COD _{Cr}	mg/l	12	8.1	11.5	17.5	11.9	13.3	II
TOC	mg/l	12	2.2	2.9	3.7	2.8	3.4	
DOC	mg/l							
pH		12	7.9	8.2	8.4	8.2	8.3	II
							8.0	II
Alkalinity	mmol/l	12	2.6	3.1	3.6	3.0	3.4	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	< 0.040	0.083	0.310	0.060	0.099	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.003	0.019	0.037	0.019	0.034	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.42	2.16	3.12	2.18	2.99	II
Total Nitrogen	mg/l	12	1.71	2.63	3.54	2.75	3.47	II
Organic Nitrogen	mg/l	12	0.11	0.38	0.60	0.37	0.51	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	< 0.016	0.040	0.067	0.043	0.060	II
Total Phosphorus	mg/l	12	0.06	0.10	0.16	0.10	0.12	II
Total Phosphorus - Dissolved	mg/l	12	< 0.05	0.06	0.09	0.06	0.09	
Chlorophyll-a	µg/l	12	1.1	9.0	35.6	8.0	14.9	I
Conductivity @ 20°C	µS/cm	12	303	375	444	367	427	
Calcium (Ca ²⁺)	mg/l	12	47.1	56.8	68.1	57.1	63.1	
Sulphate (SO ₄ ²⁻)	mg/l	12	22	26	31	25	29	
Magnesium (Mg ²⁺)	mg/l	12	9.7	12.2	15.8	12.2	13.9	
Potassium (K ⁺)	mg/l	12	1.1	2.3	2.6	2.4	2.6	
Sodium (Na ⁺)	mg/l	12	6.5	8.7	13.6	8.1	11.4	
Manganese (Mn)	mg/l	12	< 0.050	0.050	0.050	0.050	0.050	
Iron (Fe)	mg/l	12	0.140	0.327	0.680	0.295	0.574	
Chloride (Cl ⁻)	mg/l	12	12	16	24	15	21	
Zinc (Zn) - Dissolved	µg/l	12	< 20.0	< 20.0	< 20.0	20.0	20.0	**
Copper (Cu) - Dissolved	µg/l	12	0.70	1.55	2.40	1.40	2.20	III
Chromium (Cr) - Dissolved	µg/l	12	< 0.20	0.56	1.50	0.37	1.17	II
Lead (Pb) - Dissolved	µg/l	12	< 1.00	1.00	1.00	1.00	1.00	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	0.115	0.277	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l	12	< 1.00	1.24	2.40	1.14	1.37	III
Arsenic (As) - Dissolved	µg/l	12	< 1.00	1.10	1.80	1.00	1.26	III
Aluminium (Al) - Dissolved	µg/l	12	7.9	21.4	43.5	21.0	31.7	
Zinc (Zn)	µg/l	12	< 20.0	< 20.0	< 20.0	20.0	20.0	II
Copper (Cu)	µg/l	12	0.80	2.27	4.20	2.20	2.80	II
Chromium (Cr) - total	µg/l	12	0.40	1.04	2.50	0.87	1.64	II
Lead (Pb)	µg/l	12	< 1.00	1.40	5.50	1.00	1.27	II
Cadmium (Cd)	µg/l	12	< 0.05	< 0.05	< 0.05	0.05	0.05	II
Mercury (Hg)	µg/l	12	< 0.100	0.125	0.404	0.100	0.100	II
Nickel (Ni)	µg/l	12	< 1.00	1.74	3.40	1.52	2.94	II
Arsenic (As)	µg/l	12	< 1.00	1.16	1.89	1.04	1.36	II
Aluminium (Al)	µg/l	12	127.0	460.3	1400.0	201.4	1136.8	
Phenol index	mg/l	12	< 0.002	0.003	0.005	0.003	0.005	
Anionic active surfactants	mg/l	12	< 0.050	0.050	0.050	0.050	0.050	
AOX	µg/l	12	14.0	42.4	75.0	44.5	64.4	III
Petroleum hydrocarbons	mg/l	12	0.010	0.016	0.030	0.015	0.020	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l	4	< 0.005	0.005	0.005	0.005	0.005	
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	4	< 0.070	< 0.070	< 0.070	0.070	0.070	II
Chloroform	µg/l	4	< 0.50	3.00	10.30	0.60	7.42	V
Carbon tetrachloride	µg/l	4	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Trichloroethylene	µg/l	4	< 0.10	0.53	1.80	0.10	1.29	III
Tetrachloroethylene	µg/l	4	< 0.10	0.15	0.30	0.10	0.24	II
Macrozoobenthos	sapr.index	3	2.17	2.20	2.23			II
Macrozoobenthos	no of taxa	3	8	10	11			
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	0.600	5.908	13.000	5.500	10.900	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	12	0.200	1.308	3.500	0.950	2.980	
Faecal Streptococci	10 ³ CFU/100 ml	12	0.000	0.117	0.500	0.100	0.280	
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 of II. quality class

River	Danube	Catchment	151961	km ²	SK03
Distance from the mouth [km]	1768.0	Altitude	103	m	
Location	Komarno/Komarom M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	1145.0	2626.9	8749.0	2371.0	3638.4	
Temperature	°C	12	1.2	11.7	21.4	9.9	21.2	
Suspended Solids	mg/l	12	15	23	49	20	33	
Dissolved Oxygen	mg/l	12	8.3	10.1	11.6	10.5	8.4	I
BOD ₅	mg/l	12	1.2	1.7	3.1	1.6	2.2	I
COD _{Mn}	mg/l	12	3.2	4.2	6.0	4.2	4.9	I
COD _{Cr}	mg/l	12	7.1	12.0	16.9	12.4	15.4	II
TOC	mg/l	12	2.2	3.1	4.4	3.1	3.7	
DOC	mg/l							
pH		12	7.9	8.2	8.5	8.2	8.3	II
							8.0	II
Alkalinity	mmol/l	12	2.7	3.1	3.6	3.1	3.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	< 0.040	0.098	0.390	0.050	0.173	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.003	0.021	0.042	0.019	0.038	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.38	2.24	3.28	2.13	3.12	III
Total Nitrogen	mg/l	12	1.64	2.70	3.79	2.65	3.74	II
Organic Nitrogen	mg/l	12	0.18	0.37	0.66	0.39	0.45	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	< 0.016	0.041	0.070	0.044	0.065	II
Total Phosphorus	mg/l	12	0.07	0.11	0.15	0.11	0.14	II
Total Phosphorus - Dissolved	mg/l	12	< 0.05	0.07	0.10	0.07	0.09	
Chlorophyll-a	µg/l	12	1.6	12.1	47.7	8.7	21.5	I
Conductivity @ 20°C	µS/cm	12	319	382	462	374	431	
Calcium (Ca ²⁺)	mg/l	12	48.1	56.5	70.1	55.1	62.1	
Sulphate (SO ₄ ²⁻)	mg/l	12	25	28	35	27	33	
Magnesium (Mg ²⁺)	mg/l	12	10.9	12.6	14.6	12.5	13.9	
Potassium (K ⁺)	mg/l	12	0.9	2.4	3.0	2.6	2.9	
Sodium (Na ⁺)	mg/l	12	6.5	9.1	14.1	8.7	11.6	
Manganese (Mn)	mg/l	12	< 0.050	0.053	0.070	0.050	0.068	
Iron (Fe)	mg/l	12	0.160	0.344	0.580	0.330	0.521	
Chloride (Cl ⁻)	mg/l	12	12	17	26	16	22	
Zinc (Zn) - Dissolved	µg/l	12	< 20.0	< 20.0	< 20.0	20.0	20.0	**
Copper (Cu) - Dissolved	µg/l	12	< 0.50	1.59	2.90	1.50	2.46	III
Chromium (Cr) - Dissolved	µg/l	12	< 0.20	0.55	1.30	0.43	1.17	II
Lead (Pb) - Dissolved	µg/l	12	< 1.00	< 1.00	< 1.00	1.00	1.00	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	0.133	0.497	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l	12	< 1.00	1.15	1.60	1.10	1.41	III
Arsenic (As) - Dissolved	µg/l	12	< 1.00	1.05	1.35	1.00	1.14	III
Aluminium (Al) - Dissolved	µg/l	12	< 2.0	25.1	59.4	19.8	43.0	
Zinc (Zn)	µg/l	12	< 20.0	< 20.0	< 20.0	20.0	20.0	II
Copper (Cu)	µg/l	12	0.60	2.35	3.90	2.35	3.28	II
Chromium (Cr) - total	µg/l	12	< 0.20	0.85	1.50	0.83	1.22	II
Lead (Pb)	µg/l	12	< 1.00	1.13	1.90	1.00	1.54	II
Cadmium (Cd)	µg/l	12	< 0.05	< 0.05	< 0.05	0.05	0.05	II
Mercury (Hg)	µg/l	12	< 0.100	0.165	0.875	0.100	0.100	II
Nickel (Ni)	µg/l	12	< 1.00	1.70	3.90	1.47	2.20	II
Arsenic (As)	µg/l	12	< 1.00	1.23	1.91	1.13	1.58	II
Aluminium (Al)	µg/l	12	16.0	371.1	1610.0	259.0	562.2	
Phenol index	mg/l	12	< 0.002	0.004	0.006	0.003	0.006	
Anionic active surfactants	mg/l	12	< 0.050	< 0.050	< 0.050	0.050	0.050	
AOX	µg/l	12	< 9.0	48.4	135.0	37.0	90.3	III
Petroleum hydrocarbons	mg/l	12	0.010	0.018	0.030	0.020	0.029	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l	4	< 0.005	< 0.005	< 0.005	0.005	0.005	
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	4	< 0.070	< 0.070	< 0.070	0.070	0.070	II
Chloroform	µg/l	4	< 0.50	4.18	15.20	0.50	10.79	V
Carbon tetrachloride	µg/l	4	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Trichloroethylene	µg/l	4	< 0.10	0.18	0.30	0.15	0.27	II
Tetrachloroethylene	µg/l	4	< 0.10	0.15	0.20	0.15	0.20	II
Macrozoobenthos	sapr.index	3	2.04	2.09	2.15			II
Macrozoobenthos	no of taxa	3	8	10	12			
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	2.000	20.167	80.000	15.250	28.500	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	12	1.500	3.142	6.900	2.550	5.950	
Faecal Streptococci	10 ³ CFU/100 ml	12	0.000	0.383	1.500	0.200	0.890	
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 of II. quality class

River	/Vah	Catchment	19661	km ²	SK04
Distance from the mouth [km]	1.0	Altitude	106	m	
Location	Komarno M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	12	1.0	11.9	24.0	9.8	21.9	
Suspended Solids	mg/l	12	6	18	40	15	28	
Dissolved Oxygen	mg/l	12	6.3	9.5	11.7	9.4	7.1	I
BOD ₅	mg/l	12	1.3	2.7	4.7	2.6	3.9	II
COD _{Mn}	mg/l	12	3.7	4.6	5.6	4.3	5.5	II
COD _{Cr}	mg/l	12	11.1	13.3	17.1	13.0	15.8	II
TOC	mg/l	12	2.8	3.4	4.2	3.3	4.0	
DOC	mg/l							
pH		12	7.5	8.1	8.3	8.1	8.3	II
							7.8	II
Alkalinity	mmol/l	12	2.2	3.2	3.7	3.2	3.7	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.050	0.251	0.980	0.225	0.290	II
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.005	0.035	0.124	0.030	0.036	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.86	1.78	2.60	1.77	2.51	II
Total Nitrogen	mg/l	12	1.45	2.58	3.65	2.50	3.33	II
Organic Nitrogen	mg/l	12	0.11	0.52	1.01	0.43	0.96	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	< 0.016	0.084	0.165	0.082	0.137	III
Total Phosphorus	mg/l	12	0.13	0.16	0.22	0.15	0.21	III
Total Phosphorus - Dissolved	mg/l	12	0.08	0.11	0.20	0.11	0.14	
Chlorophyll-a	µg/l	12	2.6	22.8	93.6	7.5	62.5	III
Conductivity @ 20°C	µS/cm	12	363	451	704	412	559	
Calcium (Ca ²⁺)	mg/l	12	51.1	61.0	71.1	61.6	68.8	
Sulphate (SO ₄ ²⁻)	mg/l	12	35	38	45	38	42	
Magnesium (Mg ²⁺)	mg/l	12	10.3	13.0	15.2	13.1	14.6	
Potassium (K ⁺)	mg/l	12	1.9	3.1	3.5	3.3	3.5	
Sodium (Na ⁺)	mg/l	12	10.4	12.1	18.0	11.4	13.0	
Manganese (Mn)	mg/l	12	< 0.050	0.055	0.110	0.050	0.050	
Iron (Fe)	mg/l	12	0.150	0.286	0.870	0.220	0.396	
Chloride (Cl ⁻)	mg/l	12	12	18	27	17	22	
Zinc (Zn) - Dissolved	µg/l	12	< 20.0	< 20.0	< 20.0	20.0	20.0	**
Copper (Cu) - Dissolved	µg/l	12	< 0.50	1.18	2.50	1.15	1.49	II
Chromium (Cr) - Dissolved	µg/l	12	< 0.20	0.64	1.60	0.49	1.36	II
Lead (Pb) - Dissolved	µg/l	12	< 1.00	< 1.00	< 1.00	1.00	1.00	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	1.20	1.80	1.10	1.57	III
Arsenic (As) - Dissolved	µg/l	12	1.00	2.33	4.43	2.15	3.30	III
Aluminium (Al) - Dissolved	µg/l	12	< 2.0	16.2	59.5	12.1	28.7	
Zinc (Zn)	µg/l	12	< 20.0	< 20.0	< 20.0	20.0	20.0	II
Copper (Cu)	µg/l	12	0.90	1.92	2.70	2.00	2.49	II
Chromium (Cr) - total	µg/l	12	< 0.20	0.88	2.00	0.85	1.56	II
Lead (Pb)	µg/l	12	< 1.00	1.10	1.80	1.00	1.36	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	1.58	3.30	1.39	2.07	II
Arsenic (As)	µg/l	12	1.14	2.59	4.58	2.44	3.66	II
Aluminium (Al)	µg/l	12	86.8	339.6	1530.0	151.5	857.3	
Phenol index	mg/l	12	< 0.002	0.004	0.008	0.003	0.006	
Anionic active surfactants	mg/l	12	< 0.050	0.052	0.070	0.050	0.050	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	0.010	0.028	0.060	0.020	0.048	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l	4	< 0.005	0.012	0.031	0.005	0.023	
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	4	< 0.070	< 0.070	< 0.070	0.070	0.070	II
Chloroform	µg/l	4	< 0.50	1.33	3.80	0.50	2.81	V
Carbon tetrachloride	µg/l	4	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Trichloroethylene	µg/l	4	< 0.10	0.20	0.40	0.15	0.34	II
Tetrachloroethylene	µg/l	4	< 0.10	0.10	0.10	0.10	0.10	II
Macrozoobenthos	sapr.index	3	2.43	2.62	2.94			IV
Macrozoobenthos	no of taxa	3	5	9	13			
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	35.000	140.417	380.000	110.000	232.500	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	12	7.000	34.375	110.000	24.000	59.850	
Faecal Streptococci	10 ³ CFU/100 ml	12	1.300	3.408	14.000	2.150	5.150	
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 of II. quality class

River	Danube	Catchment	131605	km ²	H01
Distance from the mouth [km]	1806.0	Altitude	108	m	
Location	Medve/Medvedov M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	1080.0	2501.0	10100.0	2220.0	3590.0	
Temperature	°C	27	0.0	11.3	22.7	10.4	20.6	
Suspended Solids	mg/l	23	13	32	81	30	44	
Dissolved Oxygen	mg/l	27	7.7	10.4	13.1	10.6	8.5	I
BOD ₅	mg/l	27	0.9	2.7	7.1	2.5	4.3	II
COD _{Mn}	mg/l	27	1.6	3.5	5.8	3.1	4.9	I
COD _{Cr}	mg/l	27	5.0	10.3	16.0	10.0	13.4	II
TOC	mg/l	27	3.0	4.6	8.0	4.5	5.9	
DOC	mg/l							
pH		27	7.7	8.1	8.6	8.1	8.4	II
							7.8	II
Alkalinity	mmol/l	13	2.5	3.2	3.8	3.2	3.6	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	27	0.020	0.059	0.210	0.040	0.144	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	27	0.002	0.028	0.122	0.023	0.047	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	27	1.00	2.06	3.13	1.86	2.85	II
Total Nitrogen	mg/l	27	2.04	3.60	5.25	3.66	4.43	III
Organic Nitrogen	mg/l	27	0.39	1.45	2.24	1.39	2.09	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	27	0.010	0.047	0.098	0.049	0.072	II
Total Phosphorus	mg/l	27	0.06	0.15	0.38	0.13	0.26	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	27	1.2	11.8	46.2	7.1	28.9	II
Conductivity @ 20°C	µS/cm	27	298	366	447	369	421	
Calcium (Ca ²⁺)	mg/l	13	44.0	55.2	68.0	56.0	63.6	
Sulphate (SO ₄ ²⁻)	mg/l	13	28	34	38	34	37	
Magnesium (Mg ²⁺)	mg/l	13	6.1	13.7	19.4	14.6	18.9	
Potassium (K ⁺)	mg/l	13	1.8	2.4	2.8	2.4	2.8	
Sodium (Na ⁺)	mg/l	13	8.5	12.3	17.6	10.8	17.3	
Manganese (Mn)	mg/l	6	0.070	0.108	0.240	0.080	0.175	
Iron (Fe)	mg/l	6	0.180	0.252	0.450	0.220	0.345	
Chloride (Cl ⁻)	mg/l	13	16	22	33	19	30	
Zinc (Zn) - Dissolved	µg/l	24	< 5.0	13.8	42.0	10.0	28.5	III
Copper (Cu) - Dissolved	µg/l	24	1.60	5.32	20.40	4.90	7.66	III
Chromium (Cr) - Dissolved	µg/l	24	0.28	1.25	2.00	1.48	1.90	II
Lead (Pb) - Dissolved	µg/l	24	< 0.20	0.91	2.00	0.80	1.77	III
Cadmium (Cd) - Dissolved	µg/l	24	< 0.02	0.28	1.30	0.14	0.57	III
Mercury (Hg) - Dissolved	µg/l	24	< 0.030	0.193	0.500	0.070	0.500	III
Nickel (Ni) - Dissolved	µg/l	24	0.80	1.29	1.94	1.23	1.70	III
Arsenic (As) - Dissolved	µg/l	12	0.27	0.76	1.27	0.69	1.04	III
Aluminium (Al) - Dissolved	µg/l	24	7.5	90.7	450.0	75.6	106.9	
Zinc (Zn)	µg/l	12	10.0	40.7	246.0	25.5	31.0	II
Copper (Cu)	µg/l	12	1.61	5.47	20.90	3.79	8.38	II
Chromium (Cr) - total	µg/l	12	0.55	1.69	3.40	1.64	2.34	II
Lead (Pb)	µg/l	12	0.34	1.59	3.44	1.49	2.69	II
Cadmium (Cd)	µg/l	12	< 0.02	0.04	0.10	0.02	0.08	II
Mercury (Hg)	µg/l	12	< 0.030	0.081	0.220	0.080	0.127	III
Nickel (Ni)	µg/l	12	1.33	2.39	5.44	2.10	3.56	II
Arsenic (As)	µg/l	12	0.57	1.08	1.63	1.08	1.56	II
Aluminium (Al)	µg/l	12	88.8	1441.6	11000.0	508.0	1004.0	
Phenol index	mg/l	19	0.002	0.002	0.002	0.002	0.002	
Anionic active surfactants	mg/l	27	0.040	0.041	0.050	0.040	0.040	
AOX	µg/l	11	< 10.0	15.4	59.7	10.0	17.0	II
Petroleum hydrocarbons	mg/l	28	< 0.020	0.028	0.050	0.020	0.040	
PAH (sum of 6)	µg/l	6	0.001	0.004	0.007	0.004	0.006	
PCB (sum of 7)	µg/l	6	0.005	0.005	0.005	0.005	0.005	
Lindane	µg/l	12	< 0.001	< 0.001	< 0.001	0.001	0.001	I
pp DDT	µg/l	12	< 0.005	< 0.005	< 0.005	0.005	0.005	II
Atrazine	µg/l	12	0.005	0.020	0.067	0.013	0.042	II
Chloroform	µg/l	18	< 0.10	0.15	0.70	0.10	0.20	II
Carbon tetrachloride	µg/l	18	< 0.10	0.10	0.10	0.10	0.10	II
Trichloroethylene	µg/l	17	< 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							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	26	0.200	3.545	24.000	1.950	8.100	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	11	0.170	3.045	24.000	0.400	3.500	
Faecal Streptococci	10 ³ CFU/100 ml	11	0.000	0.158	0.800	0.040	0.600	
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 of II. quality class

River	Danube	Catchment	150820	km ²	H02
Distance from the mouth [km]	1768.0	Altitude	101	m	
Location	Komarom/Komarno L				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	138.0	2622.0	8820.0	2390.0	3845.4	
Temperature	°C	26	0.0	11.7	22.0	10.5	21.0	
Suspended Solids	mg/l	12	10	41	135	32	61	
Dissolved Oxygen	mg/l	26	7.1	10.3	13.9	10.5	8.0	I
BOD ₅	mg/l	26	0.7	2.6	5.9	2.8	3.5	II
COD _{Mn}	mg/l	26	1.5	3.7	6.7	3.5	4.6	I
COD _{Cr}	mg/l	26	7.0	11.0	18.0	11.0	15.0	II
TOC	mg/l	26	3.8	5.3	8.9	5.1	6.6	
DOC	mg/l							
pH		26	7.7	8.1	8.6	8.1	8.5	II
							7.9	II
Alkalinity	mmol/l	12	2.5	3.1	3.8	3.1	3.8	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	0.020	0.069	0.300	0.050	0.150	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	26	0.002	0.029	0.122	0.026	0.049	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	1.16	2.19	3.23	2.18	3.13	III
Total Nitrogen	mg/l	26	2.22	3.87	6.11	3.88	4.70	III
Organic Nitrogen	mg/l	26	0.68	1.58	3.18	1.45	2.45	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	0.010	0.049	0.095	0.049	0.075	II
Total Phosphorus	mg/l	26	0.07	0.15	0.27	0.14	0.21	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	26	1.2	15.2	52.1	11.8	38.5	II
Conductivity @ 20°C	µS/cm	26	298	373	469	378	423	
Calcium (Ca ²⁺)	mg/l	12	46.0	55.0	64.0	55.0	61.8	
Sulphate (SO ₄ ²⁻)	mg/l	12	26	37	49	36	39	
Magnesium (Mg ²⁺)	mg/l	12	7.3	13.9	21.9	13.4	19.2	
Potassium (K ⁺)	mg/l	12	2.0	2.6	3.2	2.6	3.2	
Sodium (Na ⁺)	mg/l	12	9.0	12.4	19.5	11.6	15.9	
Manganese (Mn)	mg/l	1	0.070	0.070	0.070			
Iron (Fe)	mg/l							
Chloride (Cl ⁻)	mg/l	12	18	23	33	22	28	
Zinc (Zn) - Dissolved	µg/l	12	9.0	20.5	81.0	15.0	20.0	III
Copper (Cu) - Dissolved	µg/l	12	2.00	5.90	8.30	6.25	7.50	III
Chromium (Cr) - Dissolved	µg/l	12	1.70	2.61	9.70	1.70	3.73	III
Lead (Pb) - Dissolved	µg/l	12	0.80	1.55	2.50	1.55	2.00	III
Cadmium (Cd) - Dissolved	µg/l	12	0.20	0.47	1.20	0.35	0.69	III
Mercury (Hg) - Dissolved	µg/l	12	0.070	0.321	0.500	0.500	0.500	III
Nickel (Ni) - Dissolved	µg/l	12	0.70	1.00	1.80	0.90	1.20	III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l	12	50.0	68.5	93.0	69.0	89.7	
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	0.002	0.002	0.002	
Anionic active surfactants	mg/l	24	0.040	0.041	0.050	0.040	0.040	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	0.020	0.036	0.060	0.030	0.050	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/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	26	0.640	13.775	160.000	5.400	19.500	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	5	0.170	3.334	9.200	2.400	6.920	
Faecal Streptococci	10 ³ CFU/100 ml	5	0.020	0.202	0.410	0.210	0.370	
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 of II. quality class

River	Danube	Catchment	150820	km ²	H02
Distance from the mouth [km]	1768.0	Altitude	101	m	
Location	Komarom/Komarno M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	138.0	2622.0	8820.0	2390.0	3845.4	
Temperature	°C	27	0.0	11.3	22.3	10.2	20.9	
Suspended Solids	mg/l	21	11	36	91	29	57	
Dissolved Oxygen	mg/l	27	6.9	10.3	13.9	10.6	7.3	I
BOD ₅	mg/l	27	0.8	2.6	4.1	2.9	3.6	II
COD _{Mn}	mg/l	27	1.9	3.7	6.3	3.6	4.7	I
COD _{Cr}	mg/l	27	6.0	10.9	16.0	10.0	15.0	II
TOC	mg/l	27	3.3	5.2	8.0	4.8	6.6	
DOC	mg/l							
pH		27	7.8	8.1	8.6	8.1	8.4	II
							7.9	II
Alkalinity	mmol/l	13	2.6	3.2	3.8	3.2	3.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	27	0.020	0.080	0.310	0.050	0.194	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	27	0.002	0.029	0.125	0.021	0.045	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	27	1.29	2.19	3.19	2.19	3.05	III
Total Nitrogen	mg/l	27	2.06	3.87	5.84	3.88	4.91	III
Organic Nitrogen	mg/l	27	0.42	1.58	3.00	1.46	2.44	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	27	0.010	0.045	0.101	0.042	0.068	II
Total Phosphorus	mg/l	27	0.08	0.15	0.24	0.14	0.20	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	27	1.2	15.0	49.7	8.3	39.3	II
Conductivity @ 20°C	µS/cm	27	300	376	469	376	439	
Calcium (Ca ²⁺)	mg/l	13	44.0	53.8	62.0	54.0	60.0	
Sulphate (SO ₄ ²⁻)	mg/l	13	29	37	45	38	43	
Magnesium (Mg ²⁺)	mg/l	13	9.7	16.4	24.3	17.0	20.4	
Potassium (K ⁺)	mg/l	13	1.8	2.5	3.2	2.4	3.2	
Sodium (Na ⁺)	mg/l	13	8.5	12.7	18.4	12.5	17.8	
Manganese (Mn)	mg/l	6	0.040	0.068	0.100	0.065	0.095	
Iron (Fe)	mg/l	6	0.200	0.263	0.340	0.270	0.315	
Chloride (Cl ⁻)	mg/l	13	16	23	33	22	32	
Zinc (Zn) - Dissolved	µg/l	24	< 5.0	9.8	36.0	9.0	15.8	III
Copper (Cu) - Dissolved	µg/l	24	1.24	3.98	7.30	3.85	6.31	III
Chromium (Cr) - Dissolved	µg/l	24	0.34	1.30	4.40	1.51	1.70	II
Lead (Pb) - Dissolved	µg/l	24	< 0.20	0.69	2.00	0.70	1.46	III
Cadmium (Cd) - Dissolved	µg/l	24	< 0.02	0.18	1.50	0.12	0.27	III
Mercury (Hg) - Dissolved	µg/l	24	< 0.030	0.178	0.500	0.065	0.500	III
Nickel (Ni) - Dissolved	µg/l	24	0.70	1.15	2.33	1.03	1.83	III
Arsenic (As) - Dissolved	µg/l	12	0.37	0.75	1.16	0.69	1.10	III
Aluminium (Al) - Dissolved	µg/l	24	6.0	54.4	202.0	48.0	81.0	
Zinc (Zn)	µg/l	12	12.0	42.6	272.0	20.0	41.8	II
Copper (Cu)	µg/l	12	1.75	4.01	6.28	3.80	5.54	II
Chromium (Cr) - total	µg/l	12	0.47	1.81	3.17	1.70	2.98	II
Lead (Pb)	µg/l	12	0.62	1.60	2.87	1.53	2.57	II
Cadmium (Cd)	µg/l	12	< 0.02	0.04	0.15	0.02	0.08	II
Mercury (Hg)	µg/l	12	< 0.030	0.088	0.190	0.080	0.159	III
Nickel (Ni)	µg/l	12	1.42	5.04	30.40	2.60	5.18	II
Arsenic (As)	µg/l	12	0.49	1.14	2.43	1.10	1.50	II
Aluminium (Al)	µg/l	12	93.5	636.3	1083.0	517.5	1069.4	
Phenol index	mg/l	19	0.002	0.002	0.002	0.002	0.002	
Anionic active surfactants	mg/l	27	0.040	0.041	0.064	0.040	0.040	
AOX	µg/l	12	< 10.0	11.8	23.0	10.0	13.9	II
Petroleum hydrocarbons	mg/l	30	< 0.020	0.029	0.060	0.020	0.050	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	12	< 0.001	< 0.001	< 0.001	0.001	0.001	I
pp DDT	µg/l	12	< 0.005	< 0.005	< 0.005	0.005	0.005	II
Atrazine	µg/l	12	0.006	0.021	0.044	0.017	0.044	II
Chloroform	µg/l	12	< 0.10	0.23	0.90	0.10	0.39	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							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	26	0.790	9.019	24.000	7.550	17.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	5	0.560	3.472	9.200	1.100	7.680	
Faecal Streptococci	10 ³ CFU/100 ml	5	0.020	0.190	0.400	0.110	0.372	
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 of II. quality class

River	Danube	Catchment	150820	km ²	H02
Distance from the mouth [km]	1768.0	Altitude	101	m	
Location	Komarom/Komarno R				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	138.0	2622.0	8820.0	2390.0	3845.4	
Temperature	°C	26	0.0	11.6	22.4	10.4	20.9	
Suspended Solids	mg/l	13	10	44	185	29	60	
Dissolved Oxygen	mg/l	26	7.1	10.4	14.0	10.5	8.0	I
BOD ₅	mg/l	26	1.0	2.7	5.6	2.9	3.9	II
COD _{Mn}	mg/l	26	1.5	3.7	6.5	3.6	4.8	I
COD _{Cr}	mg/l	26	7.0	10.8	16.0	10.5	13.5	II
TOC	mg/l	26	3.8	5.2	8.3	5.1	6.7	
DOC	mg/l							
pH		26	7.0	8.1	8.6	8.1	8.4	II
							7.9	II
Alkalinity	mmol/l	12	2.5	3.2	4.3	3.2	3.8	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	0.020	0.070	0.300	0.045	0.130	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	26	0.002	0.028	0.128	0.021	0.045	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	1.25	2.15	3.88	1.96	2.96	II
Total Nitrogen	mg/l	26	1.52	3.79	5.69	3.85	5.08	III
Organic Nitrogen	mg/l	26	0.23	1.54	2.55	1.49	2.26	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	0.010	0.048	0.104	0.048	0.074	II
Total Phosphorus	mg/l	26	0.08	0.15	0.26	0.14	0.21	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	26	1.2	15.6	52.1	11.3	36.7	II
Conductivity @ 20°C	µS/cm	26	309	374	468	375	422	
Calcium (Ca ²⁺)	mg/l	12	44.0	55.7	72.0	54.0	63.8	
Sulphate (SO ₄ ²⁻)	mg/l	12	26	36	42	38	41	
Magnesium (Mg ²⁺)	mg/l	12	7.3	14.9	26.7	15.2	19.4	
Potassium (K ⁺)	mg/l	12	2.0	3.5	13.0	2.8	3.2	
Sodium (Na ⁺)	mg/l	12	9.0	12.6	18.4	12.5	16.3	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl ⁻)	mg/l	12	3	21	34	21	27	
Zinc (Zn) - Dissolved	µg/l	12	9.0	12.9	20.0	12.5	16.0	III
Copper (Cu) - Dissolved	µg/l	12	4.60	6.18	7.90	6.15	7.75	III
Chromium (Cr) - Dissolved	µg/l	12	1.70	1.97	3.20	1.70	2.55	III
Lead (Pb) - Dissolved	µg/l	12	0.80	1.68	3.60	1.65	2.09	III
Cadmium (Cd) - Dissolved	µg/l	12	0.20	0.52	1.80	0.35	0.88	III
Mercury (Hg) - Dissolved	µg/l	12	0.070	0.323	0.500	0.500	0.500	III
Nickel (Ni) - Dissolved	µg/l	12	0.70	1.10	1.90	1.00	1.57	III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l	12	49.0	71.2	91.0	73.0	89.2	
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	0.002	0.002	0.002	
Anionic active surfactants	mg/l	23	0.040	0.041	0.050	0.040	0.045	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	10	0.020	0.034	0.050	0.035	0.041	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/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	26	1.100	8.446	35.000	5.400	16.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	5	1.700	4.440	9.200	3.500	7.680	
Faecal Streptococci	10 ³ CFU/100 ml	5	0.070	0.200	0.340	0.200	0.288	
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 of II. quality class

River	Danube	Catchment	183350	km ²	H03
Distance from the mouth [km]	1708.0	Altitude	100	m	
Location	Szob L				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	1360.0	2855.6	8870.0	2570.0	4112.0	
Temperature	°C	26	0.0	11.9	24.1	11.0	22.5	
Suspended Solids	mg/l	25	5	17	37	16	25	
Dissolved Oxygen	mg/l	26	5.9	9.7	12.0	9.9	7.3	I
BOD ₅	mg/l	26	2.0	3.2	5.8	3.2	3.9	II
COD _{Mn}	mg/l	26	2.8	4.1	6.6	4.0	4.9	I
COD _{Cr}	mg/l	26	11.0	16.3	28.0	15.5	21.0	II
TOC	mg/l	25	2.5	4.9	12.6	4.5	7.1	
DOC	mg/l							
pH		26	7.7	8.2	8.6	8.2	8.5	II
							8.0	II
Alkalinity	mmol/l	26	2.2	3.1	4.0	3.1	3.3	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	0.050	0.140	0.570	0.105	0.205	II
Nitrite-N (NO ₂ ⁻ -N)	mg/l	26	0.009	0.023	0.036	0.023	0.034	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	1.13	2.15	2.94	2.26	2.77	II
Total Nitrogen	mg/l	26	1.35	2.44	3.97	2.44	3.50	II
Organic Nitrogen	mg/l	26	0.01	0.13	1.25	0.05	0.25	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	0.007	0.090	0.217	0.090	0.144	III
Total Phosphorus	mg/l	26	0.02	0.12	0.28	0.12	0.21	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	26	1.0	9.1	33.2	5.3	26.1	II
Conductivity @ 20°C	µS/cm	26	280	387	530	385	450	
Calcium (Ca ²⁺)	mg/l	26	43.5	54.8	67.0	53.3	62.4	
Sulphate (SO ₄ ²⁻)	mg/l	26	26	37	79	35	47	
Magnesium (Mg ²⁺)	mg/l	26	8.2	12.0	20.8	11.5	14.5	
Potassium (K ⁺)	mg/l	26	1.8	3.9	9.9	3.6	4.8	
Sodium (Na ⁺)	mg/l	26	9.2	13.5	23.0	13.1	16.6	
Manganese (Mn)	mg/l	26	0.020	0.071	0.220	0.050	0.180	
Iron (Fe)	mg/l	26	0.060	0.167	0.420	0.140	0.290	
Chloride (Cl ⁻)	mg/l	26	14	19	32	19	23	
Zinc (Zn) - Dissolved	µg/l	12	10.0	14.6	28.0	10.0	20.9	III
Copper (Cu) - Dissolved	µg/l	12	1.30	2.26	5.60	1.90	2.80	III
Chromium (Cr) - Dissolved	µg/l	12	0.50	0.58	1.40	0.50	0.50	II
Lead (Pb) - Dissolved	µg/l	12	1.00	1.23	2.60	1.00	1.67	III
Cadmium (Cd) - Dissolved	µg/l	12	0.50	0.50	0.50	0.50	0.50	III
Mercury (Hg) - Dissolved	µg/l	11	0.050	0.077	0.180	0.060	0.100	II
Nickel (Ni) - Dissolved	µg/l	12	0.60	0.93	1.80	0.75	1.29	III
Arsenic (As) - Dissolved	µg/l	12	2.00	3.28	4.60	3.30	4.40	III
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	0.004	0.002	0.003	
Anionic active surfactants	mg/l	26	0.062	0.090	0.292	0.077	0.112	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	26	0.030	0.063	0.113	0.059	0.087	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/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	24	0.500	2.319	6.100	1.900	3.870	
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 of II. quality class

River	Danube	Catchment	183350	km ²	H03
Distance from the mouth [km]	1708.0	Altitude	100	m	
Location	Szob M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	1360.0	2855.6	8870.0	2570.0	4112.0	
Temperature	°C	24	1.2	12.2	24.5	10.3	22.0	
Suspended Solids	mg/l	24	6	19	110	14	25	
Dissolved Oxygen	mg/l	24	7.5	10.0	13.3	9.8	8.2	I
BOD ₅	mg/l	24	1.4	2.8	4.6	2.8	4.0	II
COD _{Mn}	mg/l	24	2.5	3.5	5.0	3.5	4.0	I
COD _{Cr}	mg/l	24	10.0	14.1	24.0	13.5	17.1	II
TOC	mg/l	24	2.3	4.3	13.8	3.7	5.6	
DOC	mg/l							
pH		24	7.6	8.3	8.6	8.3	8.5	III
							8.1	II
Alkalinity	mmol/l	24	2.6	3.0	3.8	3.1	3.4	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	24	0.020	0.091	0.250	0.085	0.127	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	24	0.006	0.018	0.043	0.017	0.029	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	24	1.24	2.22	3.28	2.26	3.16	III
Total Nitrogen	mg/l	24	1.42	2.43	3.48	2.50	3.40	II
Organic Nitrogen	mg/l	24	0.01	0.10	1.04	0.05	0.16	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	24	0.007	0.042	0.095	0.046	0.065	II
Total Phosphorus	mg/l	24	0.02	0.06	0.13	0.06	0.10	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	24	1.0	10.0	31.0	5.9	24.1	I
Conductivity @ 20°C	µS/cm	24	290	372	480	380	417	
Calcium (Ca ²⁺)	mg/l	24	45.0	55.7	70.0	55.2	60.9	
Sulphate (SO ₄ ²⁻)	mg/l	24	21	30	47	27	40	
Magnesium (Mg ²⁺)	mg/l	24	8.2	11.2	15.6	11.0	14.1	
Potassium (K ⁺)	mg/l	24	1.5	2.5	4.0	2.4	3.1	
Sodium (Na ⁺)	mg/l	24	8.6	10.7	15.4	10.3	13.0	
Manganese (Mn)	mg/l	24	< 0.001	0.047	0.180	0.030	0.114	
Iron (Fe)	mg/l	24	0.050	0.109	0.260	0.085	0.204	
Chloride (Cl ⁻)	mg/l	24	15	19	31	18	23	
Zinc (Zn) - Dissolved	µg/l	23	< 5.0	14.2	42.0	10.0	22.4	III
Copper (Cu) - Dissolved	µg/l	23	1.00	2.56	7.50	2.30	3.59	III
Chromium (Cr) - Dissolved	µg/l	23	0.28	1.05	7.90	0.60	1.25	II
Lead (Pb) - Dissolved	µg/l	23	< 0.20	0.96	3.71	1.00	1.49	III
Cadmium (Cd) - Dissolved	µg/l	23	< 0.02	0.25	0.50	0.06	0.50	III
Mercury (Hg) - Dissolved	µg/l	22	< 0.030	0.049	0.150	0.050	0.070	II
Nickel (Ni) - Dissolved	µg/l	23	0.60	1.31	2.38	1.20	1.87	III
Arsenic (As) - Dissolved	µg/l	23	0.49	1.49	2.08	2.00	2.00	III
Aluminium (Al) - Dissolved	µg/l	12	8.3	119.3	570.0	82.0	186.6	
Zinc (Zn)	µg/l	12	14.0	39.9	80.0	41.0	54.6	II
Copper (Cu)	µg/l	12	2.31	3.97	6.65	3.96	5.06	II
Chromium (Cr) - total	µg/l	12	0.72	2.04	3.71	2.05	3.22	II
Lead (Pb)	µg/l	12	0.72	1.89	3.74	1.65	3.38	II
Cadmium (Cd)	µg/l	12	< 0.02	0.04	0.13	0.03	0.06	II
Mercury (Hg)	µg/l	12	< 0.030	0.063	0.160	0.050	0.117	III
Nickel (Ni)	µg/l	12	1.38	2.00	2.94	1.98	2.61	II
Arsenic (As)	µg/l	12	0.74	1.62	3.61	1.48	2.62	II
Aluminium (Al)	µg/l	12	190.0	733.4	1710.0	549.0	1242.0	
Phenol index	mg/l	24	0.001	0.002	0.003	0.002	0.002	
Anionic active surfactants	mg/l	24	0.062	0.089	0.257	0.077	0.119	
AOX	µg/l	12	< 10.0	12.9	21.4	10.8	20.3	II
Petroleum hydrocarbons	mg/l	36	< 0.020	0.043	0.086	0.047	0.066	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	12	< 0.001	< 0.001	< 0.001	0.001	0.001	I
pp DDT	µg/l	12	< 0.005	< 0.005	< 0.005	0.005	0.005	II
Atrazine	µg/l	12	< 0.001	0.013	0.032	0.010	0.031	II
Chloroform	µg/l	12	< 0.10	0.26	1.00	0.15	0.57	II
Carbon tetrachloride	µg/l	12	< 0.10	0.11	0.20	0.10	0.10	II
Trichloroethylene	µg/l	12	< 0.10	0.13	0.40	0.10	0.10	II
Tetrachloroethylene	µg/l	12	< 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	0.350	3.354	15.000	1.800	6.900	
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 of II. quality class

River	Danube	Catchment	183350	km ²	H03
Distance from the mouth [km]	1708.0	Altitude	100	m	
Location	Szob R				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	1360.0	2855.6	8870.0	2570.0	4112.0	
Temperature	°C	25	0.0	11.6	22.7	10.4	21.6	
Suspended Solids	mg/l	24	4	16	41	14	25	
Dissolved Oxygen	mg/l	25	7.5	10.1	13.1	10.2	8.1	I
BOD ₅	mg/l	25	1.6	2.8	4.6	3.0	3.7	II
COD _{Mn}	mg/l	25	2.5	3.6	4.6	3.6	4.2	I
COD _{Cr}	mg/l	25	10.0	14.3	21.0	14.0	17.6	II
TOC	mg/l	25	2.2	4.6	13.2	4.0	5.7	
DOC	mg/l							
pH		25	7.3	8.2	8.7	8.3	8.5	III
							8.0	II
Alkalinity	mmol/l	25	2.7	3.1	3.9	3.1	3.4	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	25	0.040	0.104	0.270	0.090	0.150	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	25	0.007	0.019	0.043	0.018	0.033	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	25	1.24	2.22	3.16	2.26	3.05	III
Total Nitrogen	mg/l	25	1.44	2.46	3.57	2.47	3.39	II
Organic Nitrogen	mg/l	25	0.01	0.12	1.09	0.05	0.16	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	25	0.007	0.043	0.092	0.046	0.072	II
Total Phosphorus	mg/l	25	0.02	0.06	0.15	0.06	0.11	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	25	1.0	9.6	34.2	3.8	25.0	I
Conductivity @ 20°C	µS/cm	25	300	378	470	390	426	
Calcium (Ca ²⁺)	mg/l	25	46.5	56.3	77.0	55.8	61.8	
Sulphate (SO ₄ ²⁻)	mg/l	25	19	31	54	28	41	
Magnesium (Mg ²⁺)	mg/l	25	5.2	11.3	20.8	10.9	14.4	
Potassium (K ⁺)	mg/l	25	1.6	2.7	3.5	2.7	3.3	
Sodium (Na ⁺)	mg/l	25	8.4	11.2	20.2	10.7	14.0	
Manganese (Mn)	mg/l	25	< 0.001	0.044	0.130	0.030	0.096	
Iron (Fe)	mg/l	25	0.050	0.128	0.400	0.090	0.196	
Chloride (Cl ⁻)	mg/l	25	15	20	31	18	24	
Zinc (Zn) - Dissolved	µg/l	12	10.0	12.9	20.0	10.0	19.8	III
Copper (Cu) - Dissolved	µg/l	12	1.30	3.21	6.90	2.40	5.67	III
Chromium (Cr) - Dissolved	µg/l	12	0.50	0.84	3.80	0.55	0.70	II
Lead (Pb) - Dissolved	µg/l	12	1.00	1.05	1.60	1.00	1.00	II
Cadmium (Cd) - Dissolved	µg/l	12	0.50	0.50	0.50	0.50	0.50	III
Mercury (Hg) - Dissolved	µg/l	11	0.050	0.074	0.120	0.070	0.120	III
Nickel (Ni) - Dissolved	µg/l	12	0.70	1.23	2.90	1.05	1.85	III
Arsenic (As) - Dissolved	µg/l	12	2.00	2.00	2.00	2.00	2.00	III
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	0.003	0.002	0.002	
Anionic active surfactants	mg/l	25	0.062	0.081	0.147	0.074	0.096	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	25	0.030	0.055	0.091	0.052	0.076	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/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	24	0.680	4.703	20.000	2.700	10.100	
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 of II. quality class

River	Danube	Catchment	188700	km ²	H04
Distance from the mouth [km]	1560.0	Altitude	89	m	
Location	Dunafoldvar L				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	1290.0	2767.5	7810.0	2470.0	4106.0	
Temperature	°C	25	0.0	12.2	24.0	11.3	21.9	
Suspended Solids	mg/l	13	15	32	70	29	49	
Dissolved Oxygen	mg/l	25	8.2	11.0	13.7	11.1	8.8	I
BOD ₅	mg/l	24	1.0	3.4	8.7	3.3	5.2	III
COD _{Mn}	mg/l	25	3.4	4.6	6.4	4.6	5.3	II
COD _{Cr}	mg/l	25	13.0	17.1	22.0	17.0	19.0	II
TOC	mg/l	5	4.3	5.4	6.3	5.4	6.1	
DOC	mg/l							
pH		25	8.0	8.3	9.0	8.2	8.8	III
							8.0	II
Alkalinity	mmol/l	13	2.5	2.9	3.3	2.8	3.3	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	25	0.020	0.093	0.430	0.040	0.188	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	25	0.012	0.028	0.103	0.021	0.047	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	25	0.70	2.00	3.07	1.85	2.93	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	25	0.007	0.047	0.108	0.042	0.091	II
Total Phosphorus	mg/l	25	0.11	0.16	0.23	0.16	0.20	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	25	1.0	30.0	118.0	16.0	74.6	III
Conductivity @ 20°C	µS/cm	25	250	362	464	372	406	
Calcium (Ca ²⁺)	mg/l	13	41.1	50.4	61.0	50.0	55.8	
Sulphate (SO ₄ ²⁻)	mg/l	13	30	34	42	33	38	
Magnesium (Mg ²⁺)	mg/l	13	9.2	12.1	13.8	12.6	13.4	
Potassium (K ⁺)	mg/l	13	2.0	2.5	3.0	2.7	2.9	
Sodium (Na ⁺)	mg/l	13	9.2	10.8	15.6	10.0	13.2	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl ⁻)	mg/l	13	12	16	26	14	22	
Zinc (Zn) - Dissolved	µg/l	13	3.0	8.5	37.0	4.0	26.8	III
Copper (Cu) - Dissolved	µg/l	13	1.60	4.57	18.30	2.60	9.04	III
Chromium (Cr) - Dissolved	µg/l	13	0.20	0.53	1.00	0.50	0.86	II
Lead (Pb) - Dissolved	µg/l	13	0.60	0.75	1.60	0.60	1.10	III
Cadmium (Cd) - Dissolved	µg/l	13	0.05	0.05	0.05	0.05	0.05	II
Mercury (Hg) - Dissolved	µg/l	13	0.100	0.106	0.110	0.110	0.110	III
Nickel (Ni) - Dissolved	µg/l	13	1.00	1.00	1.00	1.00	1.00	II
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l	13	5.0	27.2	65.0	19.0	56.6	
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	13	0.003	0.003	0.004	0.003	0.003	
Anionic active surfactants	mg/l	25	0.050	0.050	0.061	0.050	0.050	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	13	0.020	0.038	0.050	0.050	0.050	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/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	25	0.500	9.470	22.000	8.000	18.600	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	6	0.030	2.005	6.000	1.300	4.600	
Faecal Streptococci	10 ³ CFU/100 ml	6	0.020	0.533	1.200	0.510	1.050	
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 of II. quality class

River	Danube	Catchment	188700	km ²	H04
Distance from the mouth [km]	1560.0	Altitude	89	m	
Location	Dunafoldvar M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	1290.0	2767.5	7810.0	2470.0	4106.0	
Temperature	°C	25	0.2	12.7	23.9	11.2	21.8	
Suspended Solids	mg/l	13	20	36	79	34	52	
Dissolved Oxygen	mg/l	25	8.4	11.1	13.9	11.2	9.1	I
BOD ₅	mg/l	25	1.4	3.4	6.8	3.2	5.1	III
COD _{Mn}	mg/l	25	3.3	4.5	6.3	4.3	5.3	II
COD _{Cr}	mg/l	25	12.0	16.6	22.0	17.0	20.2	II
TOC	mg/l	5	4.6	6.0	7.1	6.1	6.9	
DOC	mg/l							
pH		25	7.9	8.3	8.8	8.2	8.7	III
							8.0	II
Alkalinity	mmol/l	13	2.2	2.9	3.3	2.9	3.3	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	25	0.010	0.082	0.360	0.030	0.152	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	25	0.009	0.024	0.085	0.018	0.038	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	25	0.68	1.95	3.28	1.88	2.71	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	25	0.007	0.042	0.104	0.042	0.077	II
Total Phosphorus	mg/l	25	0.10	0.15	0.24	0.14	0.19	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	25	1.0	31.5	107.0	12.1	82.2	III
Conductivity @ 20°C	µS/cm	25	256	363	474	370	414	
Calcium (Ca ²⁺)	mg/l	13	33.5	49.4	61.0	51.0	55.4	
Sulphate (SO ₄ ²⁻)	mg/l	13	30	34	41	33	39	
Magnesium (Mg ²⁺)	mg/l	13	10.0	12.9	15.7	12.9	14.8	
Potassium (K ⁺)	mg/l	13	1.9	2.5	3.0	2.6	2.9	
Sodium (Na ⁺)	mg/l	13	9.1	10.6	15.5	9.8	13.3	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl ⁻)	mg/l	13	12	17	25	14	23	
Zinc (Zn) - Dissolved	µg/l	25	< 3.0	10.6	70.0	5.0	20.4	III
Copper (Cu) - Dissolved	µg/l	25	1.64	2.87	5.50	2.60	4.56	III
Chromium (Cr) - Dissolved	µg/l	25	< 0.10	0.53	1.35	0.50	0.82	II
Lead (Pb) - Dissolved	µg/l	25	< 0.20	0.50	1.50	0.60	0.90	II
Cadmium (Cd) - Dissolved	µg/l	25	< 0.02	0.04	0.05	0.05	0.05	II
Mercury (Hg) - Dissolved	µg/l	25	< 0.030	0.072	0.120	0.100	0.110	III
Nickel (Ni) - Dissolved	µg/l	25	1.00	1.28	3.34	1.00	1.61	III
Arsenic (As) - Dissolved	µg/l	12	0.38	0.88	1.49	0.83	1.44	III
Aluminium (Al) - Dissolved	µg/l	25	6.3	36.8	192.0	20.7	70.6	
Zinc (Zn)	µg/l	12	11.0	39.7	131.0	17.0	80.4	II
Copper (Cu)	µg/l	12	2.04	3.76	5.01	4.06	4.67	II
Chromium (Cr) - total	µg/l	12	1.01	2.24	5.38	2.05	3.19	II
Lead (Pb)	µg/l	12	0.54	1.84	3.38	1.44	3.35	II
Cadmium (Cd)	µg/l	12	< 0.02	0.03	0.05	0.03	0.05	II
Mercury (Hg)	µg/l	12	< 0.030	0.064	0.170	0.045	0.143	III
Nickel (Ni)	µg/l	12	1.22	2.22	3.77	2.20	2.95	II
Arsenic (As)	µg/l	12	0.66	1.38	2.58	1.36	2.00	II
Aluminium (Al)	µg/l	12	27.0	740.3	1611.0	585.5	1577.9	
Phenol index	mg/l	13	0.003	0.003	0.005	0.003	0.004	
Anionic active surfactants	mg/l	25	0.050	0.055	0.166	0.050	0.050	
AOX	µg/l	12	< 10.0	11.7	17.0	10.0	14.9	II
Petroleum hydrocarbons	mg/l	25	< 0.020	0.034	0.050	0.020	0.050	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	12	< 0.001	< 0.001	< 0.001	0.001	0.001	I
pp DDT	µg/l	12	< 0.005	< 0.005	< 0.005	0.005	0.005	II
Atrazine	µg/l	12	< 0.001	0.012	0.044	0.009	0.022	II
Chloroform	µg/l	12	< 0.10	0.16	0.30	0.15	0.20	II
Carbon tetrachloride	µg/l	12	< 0.10	0.12	0.20	0.10	0.19	II
Trichloroethylene	µg/l	12	< 0.10	0.13	0.50	0.10	0.10	II
Tetrachloroethylene	µg/l	12	< 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	0.400	10.240	32.000	7.000	18.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	6	0.050	1.362	4.000	0.960	2.700	
Faecal Streptococci	10 ³ CFU/100 ml	6	0.000	1.083	5.000	0.370	2.850	
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 of II. quality class

River	Danube	Catchment	188700	km ²	H04
Distance from the mouth [km]	1560.0	Altitude	89	m	
Location	Dunafoldvar R				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	1290.0	2767.5	7810.0	2470.0	4106.0	
Temperature	°C	25	0.2	12.7	24.2	11.3	21.8	
Suspended Solids	mg/l	13	13	34	72	34	50	
Dissolved Oxygen	mg/l	25	8.5	11.2	14.1	11.2	9.1	I
BOD ₅	mg/l	24	1.6	3.6	6.7	3.6	5.5	III
COD _{Mn}	mg/l	25	3.4	4.3	6.2	4.1	5.3	II
COD _{Cr}	mg/l	25	10.0	16.2	22.0	17.0	19.0	II
TOC	mg/l	5	3.9	4.9	6.2	4.8	5.7	
DOC	mg/l							
pH		25	8.0	8.3	8.8	8.2	8.6	III
							8.0	II
Alkalinity	mmol/l	13	2.1	2.9	3.4	2.9	3.3	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	25	0.020	0.086	0.360	0.050	0.156	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	25	0.012	0.026	0.070	0.021	0.046	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	25	0.77	2.03	3.28	2.10	2.98	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	25	0.007	0.046	0.134	0.052	0.085	II
Total Phosphorus	mg/l	25	0.10	0.15	0.24	0.13	0.20	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	25	1.0	32.7	121.0	10.4	79.2	III
Conductivity @ 20°C	µS/cm	25	260	370	478	384	424	
Calcium (Ca ²⁺)	mg/l	13	31.2	49.0	61.0	50.0	55.8	
Sulphate (SO ₄ ²⁻)	mg/l	13	30	33	40	33	36	
Magnesium (Mg ²⁺)	mg/l	13	10.0	12.2	14.4	12.6	13.8	
Potassium (K ⁺)	mg/l	13	2.0	2.6	3.4	2.8	3.1	
Sodium (Na ⁺)	mg/l	13	9.3	11.0	16.7	10.1	13.6	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl ⁻)	mg/l	13	12	17	25	15	22	
Zinc (Zn) - Dissolved	µg/l	13	3.0	8.5	49.0	5.0	12.6	III
Copper (Cu) - Dissolved	µg/l	13	2.00	3.80	8.30	3.50	6.06	III
Chromium (Cr) - Dissolved	µg/l	12	0.20	0.46	0.80	0.40	0.60	II
Lead (Pb) - Dissolved	µg/l	13	0.60	0.77	2.10	0.60	0.88	II
Cadmium (Cd) - Dissolved	µg/l	13	0.05	0.05	0.05	0.05	0.05	II
Mercury (Hg) - Dissolved	µg/l	13	0.100	0.109	0.140	0.110	0.110	III
Nickel (Ni) - Dissolved	µg/l	13	1.00	1.00	1.00	1.00	1.00	II
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l	13	6.0	28.5	69.0	19.0	59.6	
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	13	0.003	0.003	0.004	0.003	0.004	
Anionic active surfactants	mg/l	25	0.050	0.050	0.050	0.050	0.050	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	13	0.050	0.050	0.050	0.050	0.050	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/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	25	0.300	9.111	25.000	9.000	16.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	6	0.070	2.507	11.000	0.855	6.500	
Faecal Streptococci	10 ³ CFU/100 ml	6	0.000	1.583	8.000	0.400	4.200	
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 of II. quality class

River	Danube	Catchment	211503	km ²	H05
Distance from the mouth [km]	1435.0	Altitude	79	m	
Location	Hercegszanto M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	1410.0	2824.9	7590.0	2520.0	4114.0	
Temperature	°C	36	0.6	12.7	24.0	11.3	21.7	
Suspended Solids	mg/l	26	11	30	61	27	46	
Dissolved Oxygen	mg/l	36	7.7	11.1	15.0	11.2	9.2	I
BOD ₅	mg/l	36	1.6	4.0	7.1	3.7	6.8	III
COD _{Mn}	mg/l	36	3.0	4.3	5.8	4.2	5.2	II
COD _{Cr}	mg/l	36	10.0	15.4	20.0	15.0	18.5	II
TOC	mg/l	11	4.0	5.2	6.4	5.4	6.2	
DOC	mg/l							
pH		36	8.0	8.2	8.7	8.2	8.6	III
							8.0	II
Alkalinity	mmol/l	26	2.3	2.9	3.5	2.9	3.4	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	36	0.020	0.083	0.410	0.050	0.145	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	36	0.009	0.024	0.055	0.021	0.040	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	36	0.68	1.98	3.07	2.00	2.87	II
Total Nitrogen	mg/l	24	1.00	2.53	3.61	2.50	3.49	II
Organic Nitrogen	mg/l	24	0.15	0.41	0.83	0.39	0.69	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	36	0.007	0.047	0.101	0.052	0.078	II
Total Phosphorus	mg/l	36	0.06	0.14	0.23	0.14	0.18	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	36	1.0	29.4	123.0	9.1	72.5	III
Conductivity @ 20°C	µS/cm	36	268	367	464	376	423	
Calcium (Ca ²⁺)	mg/l	26	36.5	50.0	61.0	51.0	57.0	
Sulphate (SO ₄ ²⁻)	mg/l	26	21	33	40	33	38	
Magnesium (Mg ²⁺)	mg/l	26	9.1	12.9	17.1	12.9	14.8	
Potassium (K ⁺)	mg/l	26	2.0	2.5	3.2	2.6	2.9	
Sodium (Na ⁺)	mg/l	26	6.6	11.1	18.6	10.5	13.8	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl ⁻)	mg/l	26	13	17	27	15	23	
Zinc (Zn) - Dissolved	µg/l	38	< 3.0	9.0	37.0	4.0	22.3	III
Copper (Cu) - Dissolved	µg/l	38	1.78	3.56	8.40	2.85	7.12	III
Chromium (Cr) - Dissolved	µg/l	38	0.20	0.51	1.20	0.50	0.82	II
Lead (Pb) - Dissolved	µg/l	38	< 0.20	0.75	2.02	0.60	1.60	III
Cadmium (Cd) - Dissolved	µg/l	38	< 0.02	0.04	0.05	0.05	0.05	II
Mercury (Hg) - Dissolved	µg/l	37	< 0.030	0.082	0.110	0.100	0.110	III
Nickel (Ni) - Dissolved	µg/l	38	1.00	1.21	2.63	1.00	1.72	III
Arsenic (As) - Dissolved	µg/l	35	0.46	1.21	2.30	1.20	1.46	III
Aluminium (Al) - Dissolved	µg/l	26	5.2	94.4	885.0	28.0	76.7	
Zinc (Zn)	µg/l	12	15.0	33.3	74.0	26.0	51.2	II
Copper (Cu)	µg/l	12	1.87	3.60	7.98	3.21	5.03	II
Chromium (Cr) - total	µg/l	12	0.67	2.63	11.30	1.80	3.66	II
Lead (Pb)	µg/l	12	0.78	2.08	6.18	1.72	3.42	II
Cadmium (Cd)	µg/l	12	< 0.02	0.04	0.13	0.02	0.10	II
Mercury (Hg)	µg/l	12	< 0.030	0.049	0.140	0.035	0.079	II
Nickel (Ni)	µg/l	12	1.32	2.45	7.22	2.05	3.40	II
Arsenic (As)	µg/l	12	0.47	1.90	4.31	1.68	3.55	II
Aluminium (Al)	µg/l	12	176.0	2454.8	10620.0	683.0	9880.0	
Phenol index	mg/l	26	0.003	0.003	0.005	0.003	0.004	
Anionic active surfactants	mg/l	36	0.050	0.050	0.057	0.050	0.050	
AOX	µg/l	12	< 10.0	12.8	23.1	10.6	16.0	II
Petroleum hydrocarbons	mg/l	38	< 0.020	0.036	0.100	0.020	0.050	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	30	< 0.001	0.007	0.020	0.010	0.010	I
pp DDT	µg/l	30	< 0.005	0.013	0.030	0.010	0.020	III
Atrazine	µg/l	12	< 0.001	0.012	0.067	0.009	0.013	I
Chloroform	µg/l	12	< 0.10	0.18	0.30	0.20	0.29	II
Carbon tetrachloride	µg/l	12	< 0.10	0.10	0.10	0.10	0.10	II
Trichloroethylene	µg/l	12	< 0.10	0.14	0.30	0.10	0.29	II
Tetrachloroethylene	µg/l	12	< 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	33	0.300	6.501	17.000	5.000	14.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	7	0.120	0.843	3.000	0.700	1.740	
Faecal Streptococci	10 ³ CFU/100 ml	7	0.000	0.299	1.200	0.050	0.810	
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 of II. quality class

River	/Sio	Catchment	14693	km ²	H06
Distance from the mouth [km]	13.0	Altitude	85	m	
Location	Szekszard-Palank M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	1.4	6.5	20.6	6.1	11.3	
Temperature	°C	26	0.0	14.8	32.4	12.5	28.9	
Suspended Solids	mg/l	12	9	51	96	52	83	
Dissolved Oxygen	mg/l	26	4.0	11.1	26.3	9.7	7.4	I
BOD ₅	mg/l	26	2.1	6.0	11.7	5.6	9.3	III
COD _{Mn}	mg/l	26	6.2	10.8	19.6	10.4	15.5	III
COD _{Cr}	mg/l	26	14.0	30.9	59.0	28.5	49.0	III
TOC	mg/l	26	6.9	10.9	16.7	10.4	13.8	
DOC	mg/l							
pH		26	7.8	8.3	8.7	8.4	8.5	II
							8.1	II
Alkalinity	mmol/l	12	6.6	8.0	9.0	8.2	8.9	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	0.020	0.397	2.020	0.190	0.885	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	26	0.042	0.108	0.334	0.105	0.163	IV
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	1.06	3.94	6.49	3.82	5.64	III
Total Nitrogen	mg/l	26	3.04	5.88	9.78	5.70	7.93	III
Organic Nitrogen	mg/l	26	0.39	1.44	2.50	1.36	2.12	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	0.066	0.351	0.727	0.346	0.480	IV
Total Phosphorus	mg/l	26	0.35	0.70	1.61	0.57	1.26	V
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	12	11.8	101.1	243.0	80.7	197.2	IV
Conductivity @ 20°C	µS/cm	26	735	954	1,092	961	1,045	
Calcium (Ca ²⁺)	mg/l	12	72.2	90.6	108.0	92.9	101.9	
Sulphate (SO ₄ ²⁻)	mg/l	12	102	149	200	144	192	
Magnesium (Mg ²⁺)	mg/l	12	51.7	61.2	72.4	62.1	65.0	
Potassium (K ⁺)	mg/l	12	7.3	9.3	12.0	8.9	11.4	
Sodium (Na ⁺)	mg/l	12	43.6	55.4	70.0	55.0	68.0	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl ⁻)	mg/l	12	30	51	67	55	59	
Zinc (Zn) - Dissolved	µg/l	24	< 5.0	15.7	43.0	20.0	24.2	III
Copper (Cu) - Dissolved	µg/l	24	1.28	4.47	13.00	4.00	8.13	III
Chromium (Cr) - Dissolved	µg/l	24	0.30	1.35	7.60	1.00	1.90	II
Lead (Pb) - Dissolved	µg/l	24	< 0.20	0.74	1.93	1.00	1.00	II
Cadmium (Cd) - Dissolved	µg/l	24	< 0.02	0.11	0.20	0.15	0.20	III
Mercury (Hg) - Dissolved	µg/l	24	< 0.030	0.051	0.110	0.050	0.070	II
Nickel (Ni) - Dissolved	µg/l	24	1.72	2.82	6.11	2.76	3.81	III
Arsenic (As) - Dissolved	µg/l	16	0.41	3.42	5.15	3.21	5.03	III
Aluminium (Al) - Dissolved	µg/l	24	2.7	57.6	306.0	49.8	105.6	
Zinc (Zn)	µg/l	12	16.0	34.3	56.0	34.0	51.3	II
Copper (Cu)	µg/l	12	2.06	4.56	12.60	3.93	5.64	II
Chromium (Cr) - total	µg/l	12	1.13	5.57	13.40	5.83	8.22	II
Lead (Pb)	µg/l	12	0.25	2.08	4.45	1.70	3.46	II
Cadmium (Cd)	µg/l	12	0.04	0.09	0.17	0.08	0.12	II
Mercury (Hg)	µg/l	12	< 0.030	0.112	0.370	0.070	0.218	IV
Nickel (Ni)	µg/l	12	1.72	4.09	7.40	3.00	7.05	II
Arsenic (As)	µg/l	12	0.43	4.63	10.10	3.91	7.86	III
Aluminium (Al)	µg/l	12	152.0	1897.8	5180.0	1240.0	4324.0	
Phenol index	mg/l	12	0.002	0.002	0.003	0.002	0.002	
Anionic active surfactants	mg/l	26	0.010	0.023	0.126	0.014	0.038	
AOX	µg/l	24	16.4	80.4	251.0	69.5	141.2	IV
Petroleum hydrocarbons	mg/l	23	< 0.010	0.024	0.084	0.016	0.048	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	18	< 0.001	0.007	0.020	0.001	0.020	I
pp DDT	µg/l	12	< 0.005	< 0.005	< 0.005	0.005	0.005	II
Atrazine	µg/l	18	0.006	0.426	2.480	0.054	1.802	V
Chloroform	µg/l	12	< 0.10	0.36	2.40	0.20	0.30	II
Carbon tetrachloride	µg/l	12	< 0.10	0.15	0.60	0.10	0.19	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							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	7	1.200	13.514	54.000	7.000	31.200	
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 of II. quality class

River	/Drava	Catchment	35764	km ²	H07
Distance from the mouth [km]	78.0	Altitude	92	m	
Location	Dravaszabolcs M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	181.0	442.5	1230.0	422.0	679.2	
Temperature	°C	24	0.2	13.6	25.2	13.3	24.0	
Suspended Solids	mg/l	12	8	13	20	12	18	
Dissolved Oxygen	mg/l	24	7.9	9.8	12.5	9.4	8.5	I
BOD ₅	mg/l	24	0.7	2.3	5.3	1.9	4.6	II
COD _{Mn}	mg/l	24	1.9	3.1	5.1	3.0	4.2	I
COD _{Cr}	mg/l	24	2.0	7.1	11.0	7.0	10.0	I
TOC	mg/l	20	2.1	3.2	4.5	3.2	3.9	
DOC	mg/l							
pH		24	7.9	8.1	8.8	8.0	8.4	II
							7.9	II
Alkalinity	mmol/l	12	2.2	2.9	3.7	2.7	3.7	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	24	0.010	0.076	0.230	0.045	0.170	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	24	0.003	0.020	0.065	0.018	0.034	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	24	0.57	1.19	2.31	1.10	1.74	II
Total Nitrogen	mg/l	8	1.09	1.70	2.84	1.40	2.58	II
Organic Nitrogen	mg/l	8	0.24	0.53	0.93	0.51	0.83	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	24	0.010	0.040	0.101	0.039	0.059	II
Total Phosphorus	mg/l	24	0.05	0.10	0.16	0.09	0.16	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	24	0.5	9.5	43.0	5.3	23.0	I
Conductivity @ 20°C	µS/cm	24	250	320	410	303	399	
Calcium (Ca ²⁺)	mg/l	12	38.4	47.1	59.2	44.3	58.2	
Sulphate (SO ₄ ²⁻)	mg/l	12	23	35	48	34	46	
Magnesium (Mg ²⁺)	mg/l	12	7.8	12.9	23.0	12.5	15.4	
Potassium (K ⁺)	mg/l	12	1.5	2.7	10.0	2.1	2.6	
Sodium (Na ⁺)	mg/l	12	4.5	8.7	13.0	7.4	12.5	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl ⁻)	mg/l	12	8	12	18	12	17	
Zinc (Zn) - Dissolved	µg/l	24	< 5.0	10.9	22.0	10.0	19.1	III
Copper (Cu) - Dissolved	µg/l	25	0.50	1.56	5.00	1.40	2.02	III
Chromium (Cr) - Dissolved	µg/l	25	0.10	0.52	2.64	0.40	0.84	II
Lead (Pb) - Dissolved	µg/l	25	< 0.20	0.98	11.00	0.50	1.40	III
Cadmium (Cd) - Dissolved	µg/l	24	< 0.02	0.06	0.30	0.05	0.13	III
Mercury (Hg) - Dissolved	µg/l	25	< 0.030	0.044	0.070	0.050	0.056	II
Nickel (Ni) - Dissolved	µg/l	25	0.20	1.30	6.10	1.05	2.10	III
Arsenic (As) - Dissolved	µg/l	12	0.74	1.26	2.38	1.15	1.46	III
Aluminium (Al) - Dissolved	µg/l	25	3.5	37.3	132.0	23.0	102.1	
Zinc (Zn)	µg/l	12	12.0	28.3	155.0	17.0	22.8	II
Copper (Cu)	µg/l	12	1.50	5.50	41.72	1.98	4.32	II
Chromium (Cr) - total	µg/l	12	0.81	1.80	5.55	1.33	3.06	II
Lead (Pb)	µg/l	12	0.82	1.91	4.57	1.31	3.41	II
Cadmium (Cd)	µg/l	12	< 0.02	0.03	0.06	0.03	0.05	II
Mercury (Hg)	µg/l	12	< 0.030	0.054	0.120	0.045	0.080	II
Nickel (Ni)	µg/l	12	0.89	1.42	2.40	1.44	1.89	II
Arsenic (As)	µg/l	12	1.11	2.00	2.78	2.05	2.74	II
Aluminium (Al)	µg/l	12	91.3	357.1	1170.0	180.0	925.2	
Phenol index	mg/l	14	0.001	0.003	0.008	0.002	0.006	
Anionic active surfactants	mg/l	24	0.040	0.048	0.098	0.040	0.079	
AOX	µg/l	12	< 10.0	11.9	15.4	10.5	14.9	II
Petroleum hydrocarbons	mg/l	24	< 0.010	0.030	0.100	0.010	0.077	
PAH (sum of 6)	µg/l	4	0.010	0.010	0.010	0.010	0.010	
PCB (sum of 7)	µg/l							
Lindane	µg/l	16	< 0.001	0.026	0.100	0.001	0.100	II
pp DDT	µg/l	15	< 0.005	0.024	0.100	0.005	0.100	V
Atrazine	µg/l	16	< 0.001	0.030	0.100	0.006	0.100	II
Chloroform	µg/l	14	< 0.10	0.62	6.00	0.10	0.82	III
Carbon tetrachloride	µg/l	14	< 0.10	0.25	1.00	0.10	0.82	II
Trichloroethylene	µg/l	14	< 0.10	0.23	1.00	0.10	0.73	II
Tetrachloroethylene	µg/l	14	< 0.10	0.23	1.00	0.10	0.73	II
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	22	0.260	26.413	160.000	5.950	92.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	22	0.020	0.396	2.200	0.145	1.069	
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 of II. quality class

River	/Tisza	Catchment	138498	km ²	H08
Distance from the mouth [km]	163.0	Altitude	74	m	
Location	Tizsasziget L				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	122.0	798.5	1830.0	708.0	1604.1	
Temperature	°C	26	0.5	13.2	28.1	11.7	24.8	
Suspended Solids	mg/l	12	8	66	398	32	84	
Dissolved Oxygen	mg/l	26	4.8	9.5	12.2	10.3	6.7	II
BOD ₅	mg/l	26	0.8	1.9	3.4	1.9	3.0	I
COD _{Mn}	mg/l	26	1.7	4.5	13.0	3.6	7.2	II
COD _{Cr}	mg/l	26	12.0	20.5	38.0	18.0	30.5	III
TOC	mg/l	25	5.1	8.4	29.2	6.5	12.4	
DOC	mg/l							
pH		26	7.5	7.9	8.2	8.0	8.2	II
							7.7	II
Alkalinity	mmol/l	12	1.9	2.5	3.2	2.5	2.7	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	0.030	0.091	0.450	0.055	0.190	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	26	0.006	0.014	0.033	0.014	0.021	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	0.27	1.06	1.51	1.10	1.39	II
Total Nitrogen	mg/l	26	0.55	1.40	2.20	1.50	1.78	II
Organic Nitrogen	mg/l	26	0.14	0.23	0.37	0.21	0.35	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	0.016	0.051	0.134	0.049	0.085	II
Total Phosphorus	mg/l	26	0.07	0.23	0.54	0.23	0.33	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	26	1.0	16.2	110.0	6.8	29.0	II
Conductivity @ 20°C	µS/cm	26	265	388	630	383	500	
Calcium (Ca ²⁺)	mg/l	12	34.9	48.1	61.0	47.4	57.4	
Sulphate (SO ₄ ²⁻)	mg/l	12	29	44	56	44	51	
Magnesium (Mg ²⁺)	mg/l	12	6.0	8.6	11.6	8.5	11.2	
Potassium (K ⁺)	mg/l	12	2.3	3.2	4.0	3.2	4.0	
Sodium (Na ⁺)	mg/l	12	13.2	24.9	37.8	23.4	36.9	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl ⁻)	mg/l	12	15	39	70	36	62	
Zinc (Zn) - Dissolved	µg/l	12	5.0	8.1	20.0	6.0	11.9	III
Copper (Cu) - Dissolved	µg/l	12	3.00	7.54	14.00	6.25	13.80	III
Chromium (Cr) - Dissolved	µg/l	12	0.50	3.21	6.50	3.50	5.50	III
Lead (Pb) - Dissolved	µg/l	12	0.50	1.67	5.00	1.25	3.75	III
Cadmium (Cd) - Dissolved	µg/l	12	0.10	0.20	0.70	0.10	0.30	III
Mercury (Hg) - Dissolved	µg/l	12	0.100	0.100	0.100	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l	12	1.50	7.08	23.00	4.75	14.60	III
Arsenic (As) - Dissolved	µg/l	4	2.00	3.25	5.00	3.00	4.70	III
Aluminium (Al) - Dissolved	µg/l	12	13.0	20.6	44.0	17.0	25.9	
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	0.002	0.003	0.006	0.002	0.005	
Anionic active surfactants	mg/l	26	0.040	0.040	0.050	0.040	0.040	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	0.010	0.026	0.070	0.020	0.058	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/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	25	0.800	12.592	100.000	3.500	30.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	26	0.000	4.627	41.000	1.100	12.250	
Faecal Streptococci	10 ³ CFU/100 ml	26	0.040	0.395	1.400	0.300	0.950	
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 of II. quality class

River	/Tisza	Catchment	138498	km ²	H08
Distance from the mouth [km]	163.0	Altitude	74	m	
Location	Tizasziget M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	122.0	798.5	1830.0	708.0	1604.1	
Temperature	°C	24	1.8	14.3	28.4	13.3	25.0	
Suspended Solids	mg/l	11	12	73	389	24	145	
Dissolved Oxygen	mg/l	24	4.9	9.3	11.9	9.8	6.8	II
BOD ₅	mg/l	24	0.8	1.7	3.6	1.6	2.3	I
COD _{Mn}	mg/l	24	1.5	4.1	10.6	3.3	7.8	II
COD _{Cr}	mg/l	24	11.0	19.4	32.0	18.0	30.0	III
TOC	mg/l	24	4.2	8.1	24.4	6.8	12.6	
DOC	mg/l							
pH		24	7.7	8.0	8.3	8.0	8.2	II
							7.8	II
Alkalinity	mmol/l	11	1.9	2.4	2.7	2.4	2.6	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	24	0.030	0.061	0.190	0.050	0.094	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	24	0.006	0.012	0.018	0.012	0.018	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	24	0.25	1.01	1.33	1.11	1.29	II
Total Nitrogen	mg/l	24	0.54	1.31	1.97	1.39	1.60	II
Organic Nitrogen	mg/l	24	0.10	0.22	0.52	0.21	0.32	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	24	0.016	0.050	0.108	0.044	0.085	II
Total Phosphorus	mg/l	24	0.07	0.20	0.54	0.18	0.25	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	24	1.2	17.8	100.0	8.8	41.5	II
Conductivity @ 20°C	µS/cm	24	250	362	540	356	441	
Calcium (Ca ²⁺)	mg/l	11	34.2	46.8	58.0	45.9	52.0	
Sulphate (SO ₄ ²⁻)	mg/l	11	31	42	48	41	46	
Magnesium (Mg ²⁺)	mg/l	11	5.6	8.6	11.8	8.8	10.0	
Potassium (K ⁺)	mg/l	11	2.3	3.1	3.9	3.1	3.7	
Sodium (Na ⁺)	mg/l	11	11.7	23.5	38.3	22.0	36.9	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl ⁻)	mg/l	11	13	35	65	31	65	
Zinc (Zn) - Dissolved	µg/l	23	< 5.0	13.3	63.0	5.0	23.4	III
Copper (Cu) - Dissolved	µg/l	23	1.00	5.43	20.00	4.00	10.96	III
Chromium (Cr) - Dissolved	µg/l	23	0.23	2.26	7.00	1.85	6.50	III
Lead (Pb) - Dissolved	µg/l	23	< 0.20	1.35	11.60	0.50	2.00	III
Cadmium (Cd) - Dissolved	µg/l	23	< 0.02	0.12	0.70	0.10	0.28	III
Mercury (Hg) - Dissolved	µg/l	23	< 0.030	0.070	0.100	0.070	0.100	II
Nickel (Ni) - Dissolved	µg/l	23	0.96	4.49	20.00	2.50	11.90	III
Arsenic (As) - Dissolved	µg/l	17	1.30	2.45	5.00	2.30	3.53	III
Aluminium (Al) - Dissolved	µg/l	23	5.9	26.5	73.8	19.0	64.6	
Zinc (Zn)	µg/l	12	14.0	72.0	124.0	65.5	124.0	III
Copper (Cu)	µg/l	12	3.74	6.34	12.10	5.44	9.25	II
Chromium (Cr) - total	µg/l	12	1.45	5.08	12.80	2.80	10.70	II
Lead (Pb)	µg/l	12	0.85	3.79	13.00	2.54	6.90	III
Cadmium (Cd)	µg/l	12	0.06	0.13	0.27	0.13	0.20	II
Mercury (Hg)	µg/l	12	< 0.030	0.072	0.200	0.065	0.080	II
Nickel (Ni)	µg/l	12	1.47	3.66	11.60	2.08	9.40	II
Arsenic (As)	µg/l	12	1.31	3.09	5.43	2.79	4.35	II
Aluminium (Al)	µg/l	12	141.0	1162.2	4001.0	851.5	1736.9	
Phenol index	mg/l	11	0.002	0.003	0.007	0.002	0.006	
Anionic active surfactants	mg/l	24	0.040	0.040	0.050	0.040	0.040	
AOX	µg/l	12	< 10.0	17.2	30.5	15.3	29.7	II
Petroleum hydrocarbons	mg/l	23	< 0.010	0.017	0.060	0.010	0.030	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	12	< 0.001	< 0.001	< 0.001	0.001	0.001	I
pp DDT	µg/l	12	< 0.005	< 0.005	< 0.005	0.005	0.005	II
Atrazine	µg/l	12	0.002	0.010	0.018	0.010	0.014	I
Chloroform	µg/l	12	< 0.10	0.18	0.50	0.20	0.20	II
Carbon tetrachloride	µg/l	12	< 0.10	0.13	0.40	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							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	23	0.600	9.861	46.000	4.000	30.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	24	0.000	4.096	43.000	1.750	3.880	
Faecal Streptococci	10 ³ CFU/100 ml	24	0.030	0.391	1.600	0.250	0.800	
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 of II. quality class

River	/Tisza	Catchment	138498	km ²	H08
Distance from the mouth [km]	163.0	Altitude	74	m	
Location	Tizasziget R				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	122.0	798.5	1830.0	708.0	1604.1	
Temperature	°C	24	1.4	14.3	28.6	13.4	25.1	
Suspended Solids	mg/l	11	10	69	394	30	86	
Dissolved Oxygen	mg/l	24	4.1	9.2	12.3	9.7	6.5	II
BOD ₅	mg/l	24	1.0	2.1	4.1	1.9	3.0	II
COD _{Mn}	mg/l	24	1.3	4.2	12.2	3.5	6.6	II
COD _{Cr}	mg/l	24	12.0	19.2	32.0	17.0	29.0	III
TOC	mg/l	24	3.3	8.3	24.4	6.9	13.5	
DOC	mg/l							
pH		24	7.7	8.0	8.3	8.0	8.2	II
							7.9	II
Alkalinity	mmol/l	11	1.9	2.4	2.7	2.4	2.6	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	24	0.030	0.092	0.260	0.070	0.160	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	24	0.006	0.014	0.027	0.015	0.018	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	24	0.27	0.99	1.40	1.08	1.27	II
Total Nitrogen	mg/l	24	0.65	1.31	1.84	1.40	1.67	II
Organic Nitrogen	mg/l	24	0.12	0.21	0.40	0.21	0.28	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	24	0.016	0.061	0.137	0.051	0.095	II
Total Phosphorus	mg/l	24	0.07	0.20	0.40	0.19	0.33	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	24	1.2	17.1	120.0	7.7	25.1	II
Conductivity @ 20°C	µS/cm	24	245	357	540	345	441	
Calcium (Ca ²⁺)	mg/l	11	33.6	46.2	57.0	45.9	51.0	
Sulphate (SO ₄ ²⁻)	mg/l	11	34	43	48	43	48	
Magnesium (Mg ²⁺)	mg/l	11	6.6	8.7	11.8	8.6	11.4	
Potassium (K ⁺)	mg/l	11	2.3	3.1	4.0	3.0	3.8	
Sodium (Na ⁺)	mg/l	11	11.3	23.3	38.4	21.5	37.9	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl ⁻)	mg/l	11	11	34	71	29	66	
Zinc (Zn) - Dissolved	µg/l	11	5.0	7.3	15.0	5.0	13.0	III
Copper (Cu) - Dissolved	µg/l	11	3.00	10.18	22.00	9.00	22.00	III
Chromium (Cr) - Dissolved	µg/l	11	0.50	2.64	6.50	2.00	5.00	III
Lead (Pb) - Dissolved	µg/l	11	0.50	1.45	3.00	1.50	2.50	III
Cadmium (Cd) - Dissolved	µg/l	11	0.10	0.22	0.80	0.10	0.40	III
Mercury (Hg) - Dissolved	µg/l	11	0.100	0.100	0.100	0.100	0.100	II
Nickel (Ni) - Dissolved	µg/l	11	1.30	9.98	27.00	7.00	20.00	III
Arsenic (As) - Dissolved	µg/l	4	2.00	3.38	5.00	3.25	4.70	III
Aluminium (Al) - Dissolved	µg/l	11	14.0	24.4	40.0	23.0	38.0	
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	0.003	0.006	0.002	0.005	
Anionic active surfactants	mg/l	24	0.040	0.043	0.100	0.040	0.040	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	11	0.010	0.021	0.040	0.020	0.040	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/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	23	8.000	64.283	180.000	45.000	136.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	24	3.300	20.979	60.000	18.750	40.000	
Faecal Streptococci	10 ³ CFU/100 ml	24	0.300	1.779	8.500	1.150	3.500	
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 of II. quality class

River	/Tisza/Sajo	Catchment	3224	km ²	H09
Distance from the mouth [km]	124.0	Altitude	148	m	
Location	Sajopuspoki M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	4.4	16.4	157.8	12.1	25.5	
Temperature	°C	52	0.0	10.9	23.2	10.5	19.7	
Suspended Solids	mg/l	12	6	40	222	16	83	
Dissolved Oxygen	mg/l	52	7.1	10.4	14.0	10.3	8.0	I
BOD ₅	mg/l	52	1.0	3.8	8.2	3.7	5.8	III
COD _{Mn}	mg/l	52	2.2	4.9	19.2	3.7	7.9	II
COD _{Cr}	mg/l	52	8.0	16.4	55.0	13.5	26.7	III
TOC	mg/l	52	3.0	5.6	23.8	4.4	9.8	
DOC	mg/l	52	2.4	3.8	8.0	3.4	5.5	
pH		52	7.6	7.9	8.1	7.9	8.1	II
							7.7	II
Alkalinity	mmol/l	12	2.3	2.9	3.5	2.9	3.4	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	52	0.050	0.204	0.680	0.170	0.327	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	52	0.015	0.036	0.103	0.030	0.066	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	52	1.04	1.83	2.80	1.78	2.19	II
Total Nitrogen	mg/l	52	1.58	2.70	5.42	2.60	3.26	II
Organic Nitrogen	mg/l	52	0.09	0.63	2.94	0.61	1.00	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	52	0.020	0.087	0.179	0.078	0.140	III
Total Phosphorus	mg/l	52	0.07	0.18	0.67	0.16	0.28	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	52	1.0	6.0	30.0	4.1	12.6	I
Conductivity @ 20°C	µS/cm	52	248	365	457	370	407	
Calcium (Ca ²⁺)	mg/l	12	45.8	55.4	69.7	54.4	61.3	
Sulphate (SO ₄ ²⁻)	mg/l	12	43	56	75	56	66	
Magnesium (Mg ²⁺)	mg/l	12	8.2	13.4	18.9	12.6	18.5	
Potassium (K ⁺)	mg/l	12	3.4	4.2	6.1	3.8	4.9	
Sodium (Na ⁺)	mg/l	12	8.4	9.9	12.1	9.5	11.8	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl ⁻)	mg/l	12	10	14	20	14	17	
Zinc (Zn) - Dissolved	µg/l	23	< 5.0	42.0	117.0	47.0	67.6	III
Copper (Cu) - Dissolved	µg/l	23	0.84	3.77	9.80	3.70	6.34	III
Chromium (Cr) - Dissolved	µg/l	23	< 0.10	0.82	1.85	0.50	1.70	II
Lead (Pb) - Dissolved	µg/l	23	< 0.20	1.58	10.80	1.30	2.30	III
Cadmium (Cd) - Dissolved	µg/l	23	< 0.02	0.09	0.40	0.10	0.20	III
Mercury (Hg) - Dissolved	µg/l	23	< 0.030	0.060	0.400	0.040	0.076	II
Nickel (Ni) - Dissolved	µg/l	23	0.81	2.88	17.60	1.70	4.83	III
Arsenic (As) - Dissolved	µg/l	15	0.41	1.35	2.67	1.27	2.24	III
Aluminium (Al) - Dissolved	µg/l	23	4.9	96.0	542.0	54.0	260.8	
Zinc (Zn)	µg/l	11	12.3	38.8	66.0	30.0	63.0	II
Copper (Cu)	µg/l	11	1.64	5.74	23.00	4.22	6.59	II
Chromium (Cr) - total	µg/l	11	0.27	2.06	6.53	2.03	3.34	II
Lead (Pb)	µg/l	11	0.34	3.14	12.30	1.91	5.84	III
Cadmium (Cd)	µg/l	11	< 0.02	0.07	0.18	0.05	0.11	II
Mercury (Hg)	µg/l	11	< 0.030	0.063	0.120	0.070	0.090	II
Nickel (Ni)	µg/l	11	0.99	2.63	6.50	1.74	4.00	II
Arsenic (As)	µg/l	11	1.47	2.55	4.45	1.95	4.33	II
Aluminium (Al)	µg/l	11	19.9	1047.1	4500.0	397.0	2790.0	
Phenol index	mg/l	12	0.002	0.002	0.002	0.002	0.002	
Anionic active surfactants	mg/l	52	0.020	0.023	0.037	0.020	0.029	
AOX	µg/l	11	< 10.0	14.6	22.0	14.6	22.0	II
Petroleum hydrocarbons	mg/l	23	< 0.020	0.027	0.070	0.020	0.043	
PAH (sum of 6)	µg/l	4	0.005	0.005	0.005	0.005	0.005	
PCB (sum of 7)	µg/l	4	0.010	0.010	0.010	0.010	0.010	
Lindane	µg/l	15	< 0.001	0.027	0.100	0.001	0.100	II
pp DDT	µg/l	11	< 0.005	< 0.005	< 0.005	0.005	0.005	II
Atrazine	µg/l	15	< 0.001	0.038	0.100	0.008	0.100	II
Chloroform	µg/l	15	0.10	0.30	0.50	0.20	0.50	II
Carbon tetrachloride	µg/l	15	< 0.10	0.21	0.50	0.10	0.50	II
Trichloroethylene	µg/l	15	< 0.10	0.23	0.50	0.10	0.50	II
Tetrachloroethylene	µg/l	15	< 0.10	0.21	0.50	0.10	0.50	II
Macrozoobenthos	sapr.index							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	23	8.000	34.565	180.000	17.000	76.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	6	1.200	3.483	10.000	2.200	6.800	
Faecal Streptococci	10 ³ CFU/100 ml	6	0.000	0.500	2.200	0.230	1.270	
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 of II. quality class

River	/Drava	Catchment	15356	km ²	SI01
Distance from the mouth [km]	300.0	Altitude	192	m	
Location	Ormoz L				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	23.0	269.3	1239.0	241.0	413.4	
Temperature	°C	24	0.5	11.3	21.1	11.2	19.6	
Suspended Solids	mg/l	24	2	19	129	9	47	
Dissolved Oxygen	mg/l	24	8.1	11.4	14.2	11.5	9.0	I
BOD ₅	mg/l	24	1.2	2.4	3.7	2.3	3.7	II
COD _{Mn}	mg/l	24	1.3	2.2	4.9	2.0	2.7	I
COD _{Cr}	mg/l	24	3.0	7.7	15.0	8.0	11.4	II
TOC	mg/l	10	1.2	2.1	3.6	1.9	2.7	
DOC	mg/l							
pH		24	7.9	8.1	8.3	8.1	8.3	II
							7.9	II
Alkalinity	mmol/l	24	1.6	2.2	2.7	2.2	2.6	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	24	< 0.016	0.048	0.109	0.043	0.084	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	24	0.006	0.011	0.047	0.009	0.014	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	24	0.62	0.89	1.40	0.79	1.26	II
Total Nitrogen	mg/l	16	0.80	1.28	1.80	1.20	1.75	II
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	24	< 0.003	0.013	0.038	0.011	0.023	I
Total Phosphorus	mg/l							
Total Phosphorus - Dissolved	mg/l	24	0.01	0.02	0.04	0.02	0.03	
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	24	186	250	307	253	299	
Calcium (Ca ²⁺)	mg/l	24	28.3	37.9	45.8	37.7	45.2	
Sulphate (SO ₄ ²⁻)	mg/l	24	16	24	32	24	31	
Magnesium (Mg ²⁺)	mg/l	24	6.0	9.9	13.5	10.0	12.1	
Potassium (K ⁺)	mg/l	24	1.3	1.5	1.8	1.6	1.7	
Sodium (Na ⁺)	mg/l	24	3.1	5.2	8.2	4.8	7.1	
Manganese (Mn)	mg/l	24	< 0.002	0.017	0.079	0.014	0.024	
Iron (Fe)	mg/l	24	0.020	0.043	0.130	0.030	0.080	
Chloride (Cl ⁻)	mg/l	24	2	4	8	4	7	
Zinc (Zn) - Dissolved	µg/l	24	< 2.1	9.8	60.0	3.0	23.3	III
Copper (Cu) - Dissolved	µg/l	24	< 0.10	0.82	3.71	0.45	1.84	II
Chromium (Cr) - Dissolved	µg/l	24	< 0.10	0.72	4.84	0.30	1.44	II
Lead (Pb) - Dissolved	µg/l	24	< 0.04	0.50	5.95	0.07	1.08	III
Cadmium (Cd) - Dissolved	µg/l	24	< 0.04	0.04	0.09	0.04	0.06	II
Mercury (Hg) - Dissolved	µg/l							**
Nickel (Ni) - Dissolved	µg/l	24	< 0.08	0.76	3.10	0.58	1.73	III
Arsenic (As) - Dissolved	µg/l	24	0.85	1.69	6.90	1.32	2.92	III
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	24	< 2.1	13.3	60.0	8.4	27.9	II
Copper (Cu)	µg/l	24	< 0.10	1.75	8.83	0.57	4.19	II
Chromium (Cr) - total	µg/l	24	< 0.04	0.92	5.77	0.30	1.99	II
Lead (Pb)	µg/l	24	0.15	3.15	12.85	2.98	4.12	II
Cadmium (Cd)	µg/l	24	< 0.01	0.04	0.09	0.03	0.09	II
Mercury (Hg)	µg/l							**
Nickel (Ni)	µg/l	24	< 0.08	0.79	3.10	0.58	1.73	II
Arsenic (As)	µg/l	24	< 0.03	0.26	1.70	0.19	0.42	II
Aluminium (Al)	µg/l	24	< 10.0	27.5	100.0	20.0	47.0	
Phenol index	mg/l	24	0.001	0.004	0.014	0.004	0.006	
Anionic active surfactants	mg/l							
AOX	µg/l	2	5.0	8.0	11.0			II
Petroleum hydrocarbons	mg/l	15	< 0.005	0.006	0.012	0.005	0.008	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l	2	< 0.010	< 0.010	< 0.010			I
Lindane	µg/l	2	< 0.002	< 0.002	< 0.002			I
pp DDT	µg/l	2	< 0.004	< 0.004	< 0.004			II
Atrazine	µg/l	2	< 0.030	< 0.030	< 0.030			II
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index	3	2.12	2.28	2.38			III
Macrozoobenthos	no of taxa	3	7	12	15			
Total Coliforms (37°C)	10 ³ CFU/100 ml	23	0.800	79.313	560.000	30.000	207.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	23	0.100	2.671	18.000	1.700	6.320	
Faecal Streptococci	10 ³ CFU/100 ml	23	0.000	0.345	1.500	0.230	0.860	
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 of II. quality class

River	/Sava	Catchment	10878	km ²	SI02
Distance from the mouth [km]	729.0	Altitude	135	m	
Location	Jesenice R				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	68.0	236.4	1170.0	168.0	474.6	
Temperature	°C	24	3.7	13.4	23.1	12.6	20.2	
Suspended Solids	mg/l	24	3	12	44	6	34	
Dissolved Oxygen	mg/l	24	7.1	10.0	13.1	10.1	8.1	I
BOD ₅	mg/l	24	1.3	3.1	5.5	2.9	4.5	II
COD _{Mn}	mg/l	24	2.6	4.6	9.8	4.7	5.9	II
COD _{Cr}	mg/l	24	9.0	14.4	28.0	12.5	17.7	II
TOC	mg/l	11	1.9	3.3	4.5	3.5	4.2	
DOC	mg/l							
pH		24	7.6	7.9	8.1	7.9	8.0	II
							7.8	II
Alkalinity	mmol/l	24	2.7	3.7	4.2	3.7	4.0	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	24	< 0.016	0.036	0.109	0.020	0.086	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	24	0.008	0.025	0.057	0.026	0.040	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	24	1.08	1.51	2.05	1.45	1.82	II
Total Nitrogen	mg/l	18	1.60	2.01	2.70	1.95	2.49	II
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	24	0.022	0.053	0.165	0.049	0.072	II
Total Phosphorus	mg/l							
Total Phosphorus - Dissolved	mg/l	24	0.04	0.07	0.20	0.07	0.09	
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	24	287	365	425	372	395	
Calcium (Ca ²⁺)	mg/l	24	44.0	61.1	73.8	61.1	67.5	
Sulphate (SO ₄ ²⁻)	mg/l	24	11	18	28	17	24	
Magnesium (Mg ²⁺)	mg/l	24	10.4	14.0	16.9	14.0	16.5	
Potassium (K ⁺)	mg/l	24	0.8	1.3	1.8	1.3	1.7	
Sodium (Na ⁺)	mg/l	24	3.4	5.9	9.7	6.1	8.0	
Manganese (Mn)	mg/l	24	< 0.002	0.017	0.160	0.004	0.056	
Iron (Fe)	mg/l	24	0.030	0.051	0.110	0.045	0.077	
Chloride (Cl ⁻)	mg/l	24	4	7	11	7	10	
Zinc (Zn) - Dissolved	µg/l	24	< 2.1	9.7	84.0	3.5	10.1	III
Copper (Cu) - Dissolved	µg/l	24	< 0.10	0.84	3.02	0.79	1.18	II
Chromium (Cr) - Dissolved	µg/l	24	< 0.10	1.17	7.29	0.76	2.44	III
Lead (Pb) - Dissolved	µg/l	24	< 0.04	0.29	3.59	0.04	0.08	II
Cadmium (Cd) - Dissolved	µg/l	24	< 0.04	0.05	0.12	0.04	0.04	II
Mercury (Hg) - Dissolved	µg/l							**
Nickel (Ni) - Dissolved	µg/l	24	0.27	1.09	3.56	0.97	1.59	III
Arsenic (As) - Dissolved	µg/l	24	0.23	0.49	1.40	0.43	0.72	II
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	24	< 2.1	14.8	113.0	5.3	47.4	II
Copper (Cu)	µg/l	24	< 0.10	1.37	5.46	1.00	2.63	II
Chromium (Cr) - total	µg/l	24	< 0.04	1.98	10.70	0.80	5.73	II
Lead (Pb)	µg/l	24	< 0.04	1.90	27.00	0.29	3.21	II
Cadmium (Cd)	µg/l	24	< 0.01	0.06	0.57	0.01	0.07	II
Mercury (Hg)	µg/l							**
Nickel (Ni)	µg/l	24	0.43	1.32	3.56	1.10	2.57	II
Arsenic (As)	µg/l	24	< 0.03	0.21	2.35	0.04	0.54	II
Aluminium (Al)	µg/l	24	10.0	35.0	80.0	30.0	60.0	
Phenol index	mg/l	24	0.002	0.008	0.017	0.008	0.015	
Anionic active surfactants	mg/l							
AOX	µg/l	2	94.0	117.0	140.0			IV
Petroleum hydrocarbons	mg/l	12	0.007	0.027	0.126	0.019	0.031	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l	2	< 0.010	< 0.010	< 0.010			
Lindane	µg/l	2	< 0.002	< 0.002	< 0.002			I
pp DDT	µg/l	2	< 0.004	< 0.004	< 0.004			II
Atrazine	µg/l	2	< 0.030	0.130	0.230			IV
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos	sapr.index	2	2.25	2.26	2.26			II
Macrozoobenthos	no of taxa	2	19	23	26			
Total Coliforms (37°C)	10 ³ CFU/100 ml	24	0.800	69.992	350.000	29.350	185.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	24	0.100	3.138	17.000	1.150	8.500	
Faecal Streptococci	10 ³ CFU/100 ml	24	0.000	0.404	2.500	0.085	1.064	
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 of II. quality class

River	Danube	Catchment	210250	km ²	HR01
Distance from the mouth [km]	1429.0	Altitude	86	m	
Location	Batina M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	12	0.1	12.9	23.4	11.4	23.1	
Suspended Solids	mg/l	12	18	35	61	29	55	
Dissolved Oxygen	mg/l	12	9.0	11.6	15.0	11.3	9.8	I
BOD ₅	mg/l	12	3.0	5.1	7.7	5.1	6.9	III
COD _{Mn}	mg/l	12	2.6	4.1	5.4	4.1	5.0	I
COD _{Cr}	mg/l	12	14.0	16.7	22.0	16.5	18.9	II
TOC	mg/l							
DOC	mg/l							
pH		12	7.7	8.1	8.7	8.0	8.7	III
							7.7	II
Alkalinity	mmol/l	12	2.5	3.0	3.6	3.0	3.4	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.020	0.108	0.300	0.085	0.286	II
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.011	0.031	0.070	0.030	0.040	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.08	2.31	3.39	2.38	3.15	III
Total Nitrogen	mg/l	12	1.36	2.86	4.42	3.00	3.77	II
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.010	0.062	0.110	0.070	0.098	II
Total Phosphorus	mg/l	12	0.11	0.13	0.17	0.13	0.15	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	239	343	408	351	404	
Calcium (Ca ²⁺)	mg/l	12	40.0	52.1	60.0	55.5	59.0	
Sulphate (SO ₄ ²⁻)	mg/l	12	22	31	37	33	36	
Magnesium (Mg ²⁺)	mg/l	12	11.0	15.1	23.0	14.0	20.6	
Potassium (K ⁺)	mg/l	12	2.0	2.6	3.1	2.6	2.9	
Sodium (Na ⁺)	mg/l	12	7.9	11.6	15.0	11.0	14.9	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl ⁻)	mg/l	12	13	18	24	17	23	
Zinc (Zn) - Dissolved	µg/l	12	< 0.8	5.1	21.0	3.5	8.6	III
Copper (Cu) - Dissolved	µg/l	12	1.40	2.73	7.00	2.45	3.28	III
Chromium (Cr) - Dissolved	µg/l	12	< 0.15	0.52	1.20	0.50	0.70	II
Lead (Pb) - Dissolved	µg/l	12	< 0.10	0.61	1.50	0.60	1.08	III
Cadmium (Cd) - Dissolved	µg/l	12	< 0.02	0.04	0.06	0.05	0.05	II
Mercury (Hg) - Dissolved	µg/l	12	< 0.02	0.091	0.160	0.100	0.119	III
Nickel (Ni) - Dissolved	µg/l	12	< 0.60	1.06	1.50	1.00	1.37	III
Arsenic (As) - Dissolved	µg/l	12	< 0.10	1.05	1.80	1.15	1.47	III
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	0.005	0.003	0.004	
Anionic active surfactants	mg/l	12	0.024	0.040	0.070	0.037	0.063	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	0.010	0.030	0.080	0.024	0.050	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	12	< 0.010	0.055	< 0.100	0.055	0.100	II
pp DDT	µg/l	12	< 0.02	0.060	< 0.100	0.060	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	12	0.100	3.808	11.000	1.200	10.840	
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 of II. quality class

River	Danube	Catchment	243147 km ²	HR02
Distance from the mouth [km]	1337.0	Altitude	89 m	
Location	Borovo R			2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	26	0.1	12.1	25.0	12.0	21.5	
Suspended Solids	mg/l	26	25	55	117	48	91	
Dissolved Oxygen	mg/l	26	6.6	10.7	14.6	10.9	8.7	I
BOD ₅	mg/l	26	1.2	4.1	9.9	3.8	6.3	III
COD _{Mn}	mg/l	26	2.7	3.9	5.5	3.8	5.3	II
COD _{Cr}	mg/l	26	3.3	12.0	20.3	12.6	17.6	II
TOC	mg/l							
DOC	mg/l							
pH		26	7.3	7.9	8.3	7.9	8.2	II
							7.6	II
Alkalinity	mmol/l	26	1.2	1.6	2.0	1.7	1.9	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	0.070	0.222	0.380	0.290	0.290	II
Nitrite-N (NO ₂ ⁻ -N)	mg/l	26	0.010	0.025	0.165	0.020	0.030	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	1.36	2.61	3.62	2.71	3.28	III
Total Nitrogen	mg/l	26	1.78	3.15	4.15	3.25	4.04	III
Organic Nitrogen	mg/l	26	0.02	0.28	0.56	0.24	0.45	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	0.011	0.032	0.068	0.026	0.060	II
Total Phosphorus	mg/l	26	0.05	0.25	1.62	0.18	0.36	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	26	209	301	427	297	379	
Calcium (Ca ²⁺)	mg/l	12	33.4	49.9	64.9	53.8	59.9	
Sulphate (SO ₄ ²⁻)	mg/l							
Magnesium (Mg ²⁺)	mg/l	12	9.9	11.3	14.2	11.0	13.0	
Potassium (K ⁺)	mg/l	12	2.4	2.9	3.4	2.7	3.4	
Sodium (Na ⁺)	mg/l	12	1.8	13.4	51.8	9.7	14.6	
Manganese (Mn)	mg/l	12	0.005	0.020	0.047	0.017	0.029	
Iron (Fe)	mg/l	12	0.022	0.298	1.968	0.118	0.293	
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	3.3	10.3	43.0	8.0	10.0	II
Copper (Cu)	µg/l	12	0.88	1.72	3.00	1.49	2.87	II
Chromium (Cr) - total	µg/l	12	0.10	0.88	3.53	0.48	2.68	II
Lead (Pb)	µg/l	12	< 0.05	0.88	5.24	0.49	1.07	II
Cadmium (Cd)	µg/l	12	0.02	0.05	0.15	0.03	0.10	II
Mercury (Hg)	µg/l	12	0.010	0.045	0.080	0.050	0.079	II
Nickel (Ni)	µg/l	12	< 0.10	1.89	12.10	0.98	2.02	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	< 0.001	0.001	0.004	0.001	0.001	
Anionic active surfactants	mg/l	12	< 0.010	0.039	0.090	0.040	0.069	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	< 0.005	0.036	0.297	0.009	0.040	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
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							
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	0.017	0.436	1.100	0.350	0.864	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	12	0.000	0.098	0.800	0.000	0.316	
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 of II. quality class

River	/Drava	Catchment	15616	km ²	HR03
Distance from the mouth [km]	288.0	Altitude	169	m	
Location	Varazdin M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	12	1.2	12.1	20.5	12.0	19.1	
Suspended Solids	mg/l	12	5	24	112	14	43	
Dissolved Oxygen	mg/l	12	7.8	10.0	13.6	9.2	8.1	I
BOD ₅	mg/l	12	0.6	1.9	4.5	1.6	2.9	I
COD _{Mn}	mg/l	12	1.3	2.5	3.4	2.5	3.3	I
COD _{Cr}	mg/l	12	3.6	6.7	9.2	6.7	9.2	I
TOC	mg/l							
DOC	mg/l							
pH		12	7.6	7.9	8.3	7.9	8.1	II
							7.8	II
Alkalinity	mmol/l	12	0.8	1.3	2.1	1.3	1.8	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	10	0.010	0.034	0.120	0.026	0.048	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.007	0.012	0.019	0.012	0.016	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.52	0.93	1.45	0.90	1.34	II
Total Nitrogen	mg/l	12	0.77	1.36	2.29	1.19	2.18	II
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	11	0.010	0.010	0.010	0.010	0.010	I
Total Phosphorus	mg/l	12	0.03	0.06	0.13	0.05	0.11	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	207	262	328	258	325	
Calcium (Ca ²⁺)	mg/l	12	28.0	39.5	57.0	39.0	47.8	
Sulphate (SO ₄ ²⁻)	mg/l	12	16	26	34	28	33	
Magnesium (Mg ²⁺)	mg/l	12	4.0	8.4	14.0	8.0	12.7	
Potassium (K ⁺)	mg/l	12	1.1	1.6	2.9	1.6	1.8	
Sodium (Na ⁺)	mg/l	12	2.1	4.6	8.1	4.4	6.8	
Manganese (Mn)	mg/l	12	0.002	0.007	0.009	0.007	0.008	
Iron (Fe)	mg/l	12	0.012	0.016	0.028	0.016	0.020	
Chloride (Cl ⁻)	mg/l	12	3	6	9	5	9	
Zinc (Zn) - Dissolved	µg/l	12	2.0	8.1	16.0	7.0	15.8	III
Copper (Cu) - Dissolved	µg/l	12	0.80	2.53	3.80	2.40	3.40	III
Chromium (Cr) - Dissolved	µg/l	12	0.10	0.62	1.30	0.65	1.28	II
Lead (Pb) - Dissolved	µg/l	12	0.50	4.69	7.10	5.15	6.68	III
Cadmium (Cd) - Dissolved	µg/l	12	0.05	0.26	0.40	0.33	0.39	III
Mercury (Hg) - Dissolved	µg/l	12	< 0.010	< 0.010	< 0.010	0.010	0.010	II
Nickel (Ni) - Dissolved	µg/l	12	0.50	3.18	5.70	3.45	5.60	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	11	0.001	0.002	0.007	0.001	0.002	
Anionic active surfactants	mg/l	3	0.020	0.020	0.020			
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	0.040	0.073	0.109	0.069	0.103	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/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	12	0.230	5.149	24.000	3.350	10.360	
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 of II. quality class

River	/Drava	Catchment	31038	km ²	HR04
Distance from the mouth [km]	227.0	Altitude	123	m	
Location	Botovo M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	12	2.0	12.2	22.5	10.7	19.4	
Suspended Solids	mg/l	12	9	23	80	18	34	
Dissolved Oxygen	mg/l	12	7.0	9.4	12.1	9.4	7.5	I
BOD ₅	mg/l	12	0.7	1.9	4.6	1.8	2.7	I
COD _{Mn}	mg/l	12	2.3	3.6	6.1	3.8	4.4	I
COD _{Cr}	mg/l	12	5.0	8.3	13.0	8.4	11.7	II
TOC	mg/l							
DOC	mg/l							
pH		12	7.7	8.0	8.3	7.9	8.1	II
							7.8	II
Alkalinity	mmol/l	12	1.0	1.3	1.7	1.2	1.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.010	0.059	0.250	0.045	0.079	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.022	0.052	0.020	0.032	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.69	1.18	1.90	1.06	1.86	II
Total Nitrogen	mg/l	12	0.98	1.70	2.82	1.65	2.55	II
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.013	0.022	0.030	0.020	0.030	I
Total Phosphorus	mg/l	12	0.06	0.09	0.18	0.08	0.11	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	245	307	403	298	366	
Calcium (Ca ²⁺)	mg/l	12	35.0	44.1	57.6	42.8	53.7	
Sulphate (SO ₄ ²⁻)	mg/l	12	18	31	54	28	37	
Magnesium (Mg ²⁺)	mg/l	12	7.3	10.3	14.0	10.3	12.0	
Potassium (K ⁺)	mg/l	12	1.4	2.0	2.6	2.0	2.2	
Sodium (Na ⁺)	mg/l	12	4.2	8.2	12.8	7.9	12.6	
Manganese (Mn)	mg/l	12	0.005	0.015	0.040	0.010	0.023	
Iron (Fe)	mg/l	12	0.009	0.025	0.050	0.020	0.039	
Chloride (Cl ⁻)	mg/l	12	6	10	16	9	13	
Zinc (Zn) - Dissolved	µg/l	12	5.0	11.4	20.0	11.5	18.5	III
Copper (Cu) - Dissolved	µg/l	12	0.90	1.88	3.30	1.65	3.07	III
Chromium (Cr) - Dissolved	µg/l	12	0.10	0.51	1.30	0.40	0.98	II
Lead (Pb) - Dissolved	µg/l	12	< 0.05	2.23	6.30	0.50	6.08	III
Cadmium (Cd) - Dissolved	µg/l	12	< 0.05	0.18	0.64	0.08	0.35	III
Mercury (Hg) - Dissolved	µg/l	12	< 0.010	0.024	0.050	0.010	0.050	II
Nickel (Ni) - Dissolved	µg/l	12	< 0.20	1.98	7.20	1.30	4.86	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	12	0.001	0.003	0.005	0.003	0.004	
Anionic active surfactants	mg/l	9	0.010	0.031	0.052	0.021	0.050	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	0.037	0.068	0.094	0.068	0.092	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/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	8	0.230	5.258	11.000	3.500	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 of II. quality class

River	/Drava	Catchment	37142	km ²	HR05
Distance from the mouth [km]	78.0	Altitude	92	m	
Location	D. Miholjac R				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	11	0.9	13.4	25.4	10.7	22.6	
Suspended Solids	mg/l	12	10	17	26	18	23	
Dissolved Oxygen	mg/l	12	7.4	9.9	12.8	9.6	8.4	I
BOD ₅	mg/l	12	0.9	2.0	5.0	1.8	3.0	I
COD _{Mn}	mg/l	12	2.5	3.1	3.5	3.1	3.5	I
COD _{Cr}	mg/l	12	5.1	8.0	10.4	8.5	10.0	I
TOC	mg/l							
DOC	mg/l							
pH		12	7.9	8.1	8.4	8.0	8.4	II
							7.9	II
Alkalinity	mmol/l	12	1.0	1.3	1.8	1.3	1.6	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	10	0.010	0.067	0.250	0.035	0.187	II
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.007	0.017	0.033	0.016	0.026	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.45	1.04	1.63	0.99	1.60	II
Total Nitrogen	mg/l	12	0.72	1.52	2.36	1.38	2.26	II
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.013	0.023	0.030	0.025	0.030	I
Total Phosphorus	mg/l	12	0.05	0.08	0.12	0.08	0.10	I
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	246	310	408	300	396	
Calcium (Ca ²⁺)	mg/l	12	34.0	45.4	59.2	44.0	57.7	
Sulphate (SO ₄ ²⁻)	mg/l	12	24	33	45	30	44	
Magnesium (Mg ²⁺)	mg/l	12	7.6	10.5	14.9	10.8	13.7	
Potassium (K ⁺)	mg/l	12	1.5	1.9	2.6	1.9	2.4	
Sodium (Na ⁺)	mg/l	12	4.2	7.9	12.6	7.1	10.9	
Manganese (Mn)	mg/l	12	0.004	0.029	0.200	0.010	0.030	
Iron (Fe)	mg/l	12	0.006	0.024	0.040	0.025	0.035	
Chloride (Cl ⁻)	mg/l	12	6	9	16	9	13	
Zinc (Zn) - Dissolved	µg/l	12	6.0	11.4	23.0	10.5	16.9	III
Copper (Cu) - Dissolved	µg/l	12	1.00	2.06	2.60	2.20	2.59	III
Chromium (Cr) - Dissolved	µg/l	12	0.20	0.52	0.90	0.55	0.70	II
Lead (Pb) - Dissolved	µg/l	12	< 0.05	2.01	6.70	0.50	6.31	III
Cadmium (Cd) - Dissolved	µg/l	12	< 0.05	0.17	0.81	0.10	0.39	III
Mercury (Hg) - Dissolved	µg/l	12	< 0.010	0.023	< 0.050	0.010	0.050	II
Nickel (Ni) - Dissolved	µg/l	12	< 0.50	2.01	6.50	1.45	3.91	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	11	0.001	0.003	0.006	0.002	0.004	
Anionic active surfactants	mg/l	10	0.010	0.026	0.055	0.020	0.052	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	0.015	0.065	0.107	0.064	0.105	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/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	8	0.150	4.351	24.000	1.215	10.420	
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 of II. quality class

River	/Sava	Catchment	10834	km ²	HR06
Distance from the mouth [km]	729.0	Altitude	135	m	
Location	Jesenice L				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	26	4.1	13.7	23.2	12.5	21.5	
Suspended Solids	mg/l	26	1	28	550	4	21	
Dissolved Oxygen	mg/l	26	6.4	8.8	11.0	9.1	6.6	II
BOD ₅	mg/l	26	1.1	2.6	5.6	2.2	4.3	II
COD _{Mn}	mg/l	26	2.2	5.6	34.0	4.8	6.1	II
COD _{Cr}	mg/l	26	5.2	16.0	73.1	14.2	21.8	II
TOC	mg/l							
DOC	mg/l	12	2.0	3.0	4.6	2.8	3.5	
pH		26	7.4	7.8	8.1	7.9	8.0	II
							7.6	II
Alkalinity	mmol/l	26	1.6	2.1	2.3	2.1	2.2	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	0.010	0.054	0.140	0.045	0.110	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	26	0.015	0.033	0.100	0.030	0.046	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	1.00	2.00	3.10	1.95	2.75	II
Total Nitrogen	mg/l	26	1.11	2.28	3.23	2.27	2.99	II
Organic Nitrogen	mg/l	26	0.02	0.20	0.72	0.08	0.51	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	0.013	0.024	0.055	0.021	0.038	I
Total Phosphorus	mg/l	26	0.07	0.16	0.31	0.14	0.27	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	26	272	388	485	390	468	
Calcium (Ca ²⁺)	mg/l	12	44.4	58.7	68.8	59.5	66.7	
Sulphate (SO ₄ ²⁻)	mg/l	12	15	21	27	21	26	
Magnesium (Mg ²⁺)	mg/l	12	11.2	15.1	19.4	15.3	18.4	
Potassium (K ⁺)	mg/l	12	0.9	1.6	3.5	1.5	2.5	
Sodium (Na ⁺)	mg/l	12	3.5	5.4	9.8	5.2	7.0	
Manganese (Mn)	mg/l	12	< 0.020	0.083	0.241	0.048	0.189	
Iron (Fe)	mg/l	12	0.060	0.142	0.389	0.100	0.288	
Chloride (Cl ⁻)	mg/l	12	5	11	21	9	17	
Zinc (Zn) - Dissolved	µg/l	12	4.0	16.1	37.0	15.5	29.0	III
Copper (Cu) - Dissolved	µg/l	12	2.20	3.33	4.30	3.35	4.09	III
Chromium (Cr) - Dissolved	µg/l	12	< 0.10	1.12	2.10	1.10	2.08	III
Lead (Pb) - Dissolved	µg/l	12	3.40	6.02	8.90	5.70	7.65	III
Cadmium (Cd) - Dissolved	µg/l	12	< 0.05	0.25	0.56	0.22	0.46	III
Mercury (Hg) - Dissolved	µg/l	12	< 0.010	0.010	0.013	0.010	0.010	II
Nickel (Ni) - Dissolved	µg/l	12	0.20	4.26	9.30	4.05	5.78	III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	12	8.0	25.5	86.0	21.5	33.6	II
Copper (Cu)	µg/l	12	3.80	8.36	19.60	5.65	17.03	II
Chromium (Cr) - total	µg/l	12	0.10	1.66	2.70	1.75	2.39	II
Lead (Pb)	µg/l	12	4.00	7.57	10.80	7.20	10.24	IV
Cadmium (Cd)	µg/l	12	< 0.05	0.42	1.05	0.44	0.64	II
Mercury (Hg)	µg/l	12	< 0.010	0.020	0.042	0.013	0.040	II
Nickel (Ni)	µg/l	12	2.30	5.51	10.20	5.50	6.97	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	< 0.001	0.003	0.007	0.001	0.007	
Anionic active surfactants	mg/l	12	< 0.010	0.033	0.100	0.015	0.095	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	26	0.020	0.090	0.300	0.075	0.155	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/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	4	2.14	2.15	2.15	2.15	2.15	II
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	26	0.910	29.070	460.000	4.300	46.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	26	0.036	5.751	110.000	0.435	4.600	
Faecal Streptococci	10 ³ CFU/100 ml	26	0.023	2.241	14.000	0.235	9.300	
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 of II. quality class

River	/Sava	Catchment	29585	km ²	HR07
Distance from the mouth [km]	525.0	Altitude	87	m	
Location	us. Una Jasenovac L				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	23	5.0	14.7	26.0	13.2	23.6	
Suspended Solids	mg/l	23	5	18	84	10	41	
Dissolved Oxygen	mg/l	23	5.2	7.8	10.9	7.7	5.7	III
BOD ₅	mg/l	23	0.4	2.8	4.8	2.5	4.5	II
COD _{Mn}	mg/l	23	3.0	4.9	8.0	4.4	6.9	II
COD _{Cr}	mg/l	23	3.2	11.0	24.3	10.5	21.4	II
TOC	mg/l							
DOC	mg/l							
pH		23	7.5	7.9	8.4	7.9	8.2	II
							7.6	II
Alkalinity	mmol/l	23	1.7	2.9	4.0	3.0	3.9	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	23	0.030	0.163	0.480	0.140	0.250	II
Nitrite-N (NO ₂ ⁻ -N)	mg/l	23	0.017	0.048	0.291	0.036	0.062	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	23	0.37	1.19	1.80	1.20	1.68	II
Total Nitrogen	mg/l	23	0.98	1.81	2.93	1.73	2.32	II
Organic Nitrogen	mg/l	23	0.02	0.41	0.77	0.42	0.68	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	23	0.013	0.038	0.101	0.036	0.057	II
Total Phosphorus	mg/l	23	0.08	0.22	0.64	0.20	0.39	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	23	301	376	473	374	418	
Calcium (Ca ²⁺)	mg/l	12	52.8	61.5	74.1	61.1	69.7	
Sulphate (SO ₄ ²⁻)	mg/l	12	14	20	27	20	25	
Magnesium (Mg ²⁺)	mg/l	12	9.7	15.2	20.9	14.6	20.4	
Potassium (K ⁺)	mg/l	12	1.4	1.9	3.3	1.7	2.8	
Sodium (Na ⁺)	mg/l	12	4.0	6.7	9.1	6.5	8.6	
Manganese (Mn)	mg/l	5	0.023	0.169	0.339	0.173	0.309	
Iron (Fe)	mg/l	12	0.143	0.485	1.850	0.402	0.566	
Chloride (Cl ⁻)	mg/l	12	5	10	12	9	12	
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	5	< 0.010	< 0.010	< 0.010	0.010	0.010	II
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	12	< 1.0	6.7	20.0	1.0	18.5	II
Copper (Cu)	µg/l	12	< 2.00	6.46	20.00	4.61	12.33	II
Chromium (Cr) - total	µg/l	12	< 0.80	2.08	5.60	1.80	2.99	II
Lead (Pb)	µg/l	12	< 2.00	5.54	12.90	2.17	10.48	IV
Cadmium (Cd)	µg/l	12	< 0.17	0.31	0.63	0.25	0.48	II
Mercury (Hg)	µg/l	12	< 0.010	0.026	0.075	0.020	0.043	II
Nickel (Ni)	µg/l	12	< 2.50	4.12	13.90	2.50	5.33	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	< 0.001	0.003	0.006	0.003	0.006	
Anionic active surfactants	mg/l	12	0.010	0.055	0.125	0.063	0.110	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	23	0.008	0.038	0.060	0.037	0.060	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/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	4	2.08	2.11	2.14	2.12	2.14	II
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	23	0.430	9.414	46.000	2.400	26.400	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	23	0.000	1.508	11.000	0.360	4.540	
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 of II. quality class

River	/Sava	Catchment	62890	km ²	HR08
Distance from the mouth [km]	254.0	Altitude	85	m	
Location	ds. Zupanja R				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	24	2.0	14.3	28.0	12.4	25.0	
Suspended Solids	mg/l	24	8	28	88	20	69	
Dissolved Oxygen	mg/l	24	6.0	8.5	11.5	7.9	6.8	II
BOD ₅	mg/l	24	1.5	2.7	4.6	2.6	4.0	II
COD _{Mn}	mg/l	24	2.7	4.1	6.3	3.7	6.2	II
COD _{Cr}	mg/l	24	9.4	15.0	23.3	14.1	20.7	II
TOC	mg/l							
DOC	mg/l							
pH		24	7.6	7.9	8.2	7.9	8.1	II
							7.8	II
Alkalinity	mmol/l	24	1.5	1.9	2.2	1.9	2.1	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	24	0.013	0.065	0.218	0.040	0.115	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	24	0.007	0.019	0.042	0.018	0.029	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	24	0.40	1.08	1.90	1.06	1.42	II
Total Nitrogen	mg/l	24	1.11	1.92	3.03	1.99	2.56	II
Organic Nitrogen	mg/l	24	0.03	0.76	1.67	0.88	1.51	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	24	0.010	0.023	0.039	0.023	0.034	I
Total Phosphorus	mg/l	24	0.03	0.16	0.30	0.14	0.25	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	24	305	407	524	409	479	
Calcium (Ca ²⁺)	mg/l	12	49.6	64.5	85.0	62.6	74.9	
Sulphate (SO ₄ ²⁻)	mg/l	12	16	24	32	24	31	
Magnesium (Mg ²⁺)	mg/l	12	4.8	13.5	20.6	14.0	19.0	
Potassium (K ⁺)	mg/l	12	0.1	1.6	2.9	1.6	2.1	
Sodium (Na ⁺)	mg/l	12	1.4	8.4	15.7	8.3	13.1	
Manganese (Mn)	mg/l	5	0.023	0.228	0.518	0.149	0.450	
Iron (Fe)	mg/l	12	0.100	0.823	4.710	0.355	1.468	
Chloride (Cl ⁻)	mg/l	12	6	14	26	13	19	
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	4	0.010	0.010	0.010	0.010	0.010	II
Nickel (Ni) - Dissolved	µg/l							
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	12	< 0.8	142.6	570.0	25.0	462.0	IV
Copper (Cu)	µg/l	12	< 0.02	19.56	90.00	14.45	29.30	III
Chromium (Cr) - total	µg/l	12	< 0.10	1.31	5.60	0.10	2.69	II
Lead (Pb)	µg/l	12	< 0.05	4.82	15.10	0.05	12.38	IV
Cadmium (Cd)	µg/l	12	< 0.05	0.16	0.55	0.05	0.42	II
Mercury (Hg)	µg/l	12	< 0.010	0.085	0.400	0.010	0.198	III
Nickel (Ni)	µg/l	12	< 0.50	2.77	9.40	0.50	6.49	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	< 0.001	0.002	0.003	0.001	0.003	
Anionic active surfactants	mg/l	12	0.010	0.011	0.020	0.010	0.010	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	24	0.021	0.054	0.385	0.040	0.059	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/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	4	2.16	2.21	2.35	2.17	2.30	III
Macrozoobenthos	no of taxa							
Total Coliforms (37°C)	10 ³ CFU/100 ml	24	0.300	9.191	110.000	4.300	9.300	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	24	0.091	1.367	4.600	0.750	4.480	
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 of II. quality class

River	Danube	Catchment	210250 km ²	SCG01
Distance from the mouth [km]	1427.0	Altitude	83.15 m	
Location	Bezdan L			2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	12	1535.0	2663.7	4326.0	2382.0	3824.2	
Temperature	°C	12	1.0	12.7	24.4	11.1	21.0	
Suspended Solids	mg/l	12	8	28	73	21	45	
Dissolved Oxygen	mg/l	12	7.5	10.8	13.9	11.0	8.9	I
BOD ₅	mg/l	11	1.3	2.9	7.0	2.6	3.6	II
COD _{Mn}	mg/l	12	3.4	5.2	7.3	5.1	7.1	II
COD _{Cr}	mg/l	12	8.0	13.3	20.0	12.5	18.8	II
TOC	mg/l							
DOC	mg/l							
pH		12	7.8	8.1	8.6	8.1	8.4	II
							7.9	II
Alkalinity	mmol/l	12	2.4	3.1	3.5	3.1	3.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.070	0.161	0.260	0.170	0.228	II
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.012	0.027	0.057	0.024	0.038	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.65	2.07	3.30	2.02	3.16	III
Total Nitrogen	mg/l	11	1.68	2.67	3.90	2.59	3.54	II
Organic Nitrogen	mg/l	11	0.11	0.22	0.43	0.21	0.30	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.006	0.048	0.107	0.053	0.076	II
Total Phosphorus	mg/l	12	0.09	0.13	0.16	0.13	0.16	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	287	370	468	380	419	
Calcium (Ca ²⁺)	mg/l	12	42.3	54.1	67.7	56.2	61.8	
Sulphate (SO ₄ ²⁻)	mg/l	12	25	35	43	35	41	
Magnesium (Mg ²⁺)	mg/l	12	7.4	12.5	19.1	12.4	15.5	
Potassium (K ⁺)	mg/l	12	1.5	2.3	3.3	2.3	2.9	
Sodium (Na ⁺)	mg/l	12	10.3	13.7	19.9	13.7	14.5	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl ⁻)	mg/l	12	14	19	29	18	23	
Zinc (Zn) - Dissolved	µg/l	9	10.0	24.8	44.0	21.0	35.2	III
Copper (Cu) - Dissolved	µg/l	9	1.00	23.78	62.00	14.00	55.60	III
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l	9	< 1.00	4.44	16.00	3.00	8.80	III
Cadmium (Cd) - Dissolved	µg/l	9	< 0.10	0.11	0.20	0.10	0.12	III
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	0.004	0.001	0.003	
Anionic active surfactants	mg/l	12	< 0.010	0.020	0.038	0.019	0.034	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	9	< 0.005	0.007	0.016	0.005	0.013	
PAH (sum of 6)	µg/l	1	< 0.100	< 0.100	< 0.100			
PCB (sum of 7)	µg/l							
Lindane	µg/l	9	< 0.002	< 0.002	< 0.002	0.002	0.002	I
pp'DDT	µg/l	9	< 0.002	< 0.002	< 0.002	0.002	0.002	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 of II. quality class

River	Danube	Catchment	251253	km ²	SCG02
Distance from the mouth [km]	1367.0	Altitude	80.41	m	
Location	Bogojevo L				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	12	2177.0	2976.3	5332.0	2629.0	4434.6	
Temperature	°C	12	2.6	14.0	24.2	11.5	23.8	
Suspended Solids	mg/l	12	6	31	65	24	60	
Dissolved Oxygen	mg/l	12	6.8	10.5	12.5	10.5	9.0	I
BOD ₅	mg/l	12	1.3	2.7	4.5	2.7	3.7	II
COD _{Mn}	mg/l	12	2.3	4.7	6.3	4.7	6.0	II
COD _{Cr}	mg/l							
TOC	mg/l							
DOC	mg/l							
pH		12	7.8	8.1	8.6	8.1	8.5	II
							7.9	II
Alkalinity	mmol/l	12	2.6	3.2	3.7	3.3	3.6	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.089	0.182	0.380	0.145	0.304	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.008	0.022	0.048	0.020	0.032	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.79	1.92	3.09	1.97	2.88	II
Total Nitrogen	mg/l	1	2.45	2.45	2.45			II
Organic Nitrogen	mg/l	1	0.15	0.15	0.15			
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.005	0.043	0.070	0.052	0.069	II
Total Phosphorus	mg/l	12	0.09	0.12	0.16	0.12	0.14	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	289	370	457	376	450	
Calcium (Ca ²⁺)	mg/l	12	41.5	55.9	67.3	57.0	63.7	
Sulphate (SO ₄ ²⁻)	mg/l	12	35	39	45	41	43	
Magnesium (Mg ²⁺)	mg/l	12	9.3	13.5	16.7	13.8	15.9	
Potassium (K ⁺)	mg/l	12	1.5	2.2	3.2	2.1	2.9	
Sodium (Na ⁺)	mg/l	12	10.6	13.3	17.9	13.1	15.2	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl ⁻)	mg/l	12	16	19	26	18	21	
Zinc (Zn) - Dissolved	µg/l	5	23.0	30.2	39.0	30.0	37.0	III
Copper (Cu) - Dissolved	µg/l	5	11.00	62.40	141.00	44.00	126.60	III
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l	5	< 1.00	4.60	10.00	4.00	8.00	III
Cadmium (Cd) - Dissolved	µg/l	5	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg) - Dissolved	µg/l	12	< 0.100	0.108	0.200	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	0.002	0.002	
Anionic active surfactants	mg/l	12	< 0.010	0.018	0.055	0.011	0.032	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	3	< 0.005	< 0.005	< 0.005			
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	2	< 0.002	< 0.002	< 0.002			I
pp DDT	µg/l	2	< 0.002	< 0.002	< 0.002			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 of II. quality class

River	Danube	Catchment	254085 km ²	SCG03
Distance from the mouth [km]	1258.0	Altitude	74.52 m	
Location	Novi Sad L			2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	12	0.8	12.7	24.6	11.0	23.8	
Suspended Solids	mg/l	12	6	31	61	31	55	
Dissolved Oxygen	mg/l	12	5.3	9.5	12.5	9.5	6.3	II
BOD ₅	mg/l	12	1.9	3.3	5.3	3.2	4.9	II
COD _{Mn}	mg/l	12	2.9	4.6	6.8	4.6	6.0	II
COD _{Cr}	mg/l							
TOC	mg/l							
DOC	mg/l							
pH		11	7.8	8.0	8.2	8.0	8.2	II
							7.8	II
Alkalinity	mmol/l	12	2.4	3.1	3.6	3.1	3.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.114	0.319	0.570	0.355	0.517	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.013	0.030	0.061	0.029	0.041	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.54	1.84	3.09	2.02	2.64	II
Total Nitrogen	mg/l	1	2.37	2.37	2.37			II
Organic Nitrogen	mg/l	1	0.17	0.17	0.17			
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.022	0.049	0.100	0.053	0.064	II
Total Phosphorus	mg/l	12	0.10	0.15	0.19	0.15	0.18	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	262	364	463	377	457	
Calcium (Ca ²⁺)	mg/l	12	42.3	53.9	64.3	56.1	63.0	
Sulphate (SO ₄ ²⁻)	mg/l	12	28	39	54	39	44	
Magnesium (Mg ²⁺)	mg/l	12	8.1	12.8	18.4	13.6	14.7	
Potassium (K ⁺)	mg/l	12	1.4	2.3	2.9	2.4	2.9	
Sodium (Na ⁺)	mg/l	12	10.4	14.0	18.9	14.0	17.6	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl ⁻)	mg/l	12	12	18	28	17	22	
Zinc (Zn) - Dissolved	µg/l	5	22.0	28.8	38.0	28.0	34.8	III
Copper (Cu) - Dissolved	µg/l	5	9.00	77.20	303.00	13.00	201.40	III
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l	5	< 1.00	3.40	10.00	2.00	7.20	III
Cadmium (Cd) - Dissolved	µg/l	5	< 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	12	0.001	0.002	0.003	0.002	0.003	
Anionic active surfactants	mg/l	12	< 0.010	0.023	0.071	0.018	0.034	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	1	< 0.005	< 0.005	< 0.005			
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	2	< 0.002	< 0.002	< 0.002			I
pp DDT	µg/l	2	< 0.002	< 0.002	< 0.002			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 of II. quality class

River	Danube	Catchment	412762 km ²	SCG04
Distance from the mouth [km]	1174.0	Altitude	70.76 m	
Location	Zemun R			2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	12	2.8	13.8	25.0	12.6	22.9	
Suspended Solids	mg/l	12	3	16	78	9	26	
Dissolved Oxygen	mg/l	12	6.1	9.1	11.4	9.2	7.7	I
BOD ₅	mg/l	12	1.2	2.5	4.8	2.3	3.8	II
COD _{Mn}	mg/l	12	3.3	3.8	4.4	3.8	4.1	I
COD _{Cr}	mg/l							
TOC	mg/l							
DOC	mg/l							
pH		12	7.7	7.9	8.1	7.9	8.1	II
							7.8	II
Alkalinity	mmol/l	12	2.7	3.2	3.7	3.2	3.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.040	0.170	0.940	0.100	0.149	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	< 0.003	0.035	0.124	0.017	0.098	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.81	2.15	7.20	1.57	2.93	II
Total Nitrogen	mg/l	12	0.80	2.99	8.04	2.53	3.77	II
Organic Nitrogen	mg/l	12	< 0.10	0.67	1.12	0.69	0.93	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.027	0.061	0.096	0.063	0.082	II
Total Phosphorus	mg/l	11	0.09	0.10	0.12	0.10	0.12	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	270	369	430	370	420	
Calcium (Ca ²⁺)	mg/l	12	37.0	54.3	70.4	54.4	64.8	
Sulphate (SO ₄ ²⁻)	mg/l	11	17	25	37	25	32	
Magnesium (Mg ²⁺)	mg/l	12	3.6	11.2	22.4	11.0	14.9	
Potassium (K ⁺)	mg/l	12	1.6	2.2	2.9	2.2	2.6	
Sodium (Na ⁺)	mg/l	8	8.6	11.2	13.7	11.2	12.8	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl ⁻)	mg/l	12	11	16	20	16	19	
Zinc (Zn) - Dissolved	µg/l	9	7.0	21.1	38.0	18.0	37.2	III
Copper (Cu) - Dissolved	µg/l	9	4.00	8.56	13.00	7.00	13.00	III
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l	9	< 1.00	4.11	22.00	1.00	8.40	III
Cadmium (Cd) - Dissolved	µg/l	9	< 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	12	< 0.001	0.001	0.002	0.001	0.001	
Anionic active surfactants	mg/l	11	< 0.010	0.010	0.014	0.010	0.011	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	9	< 0.005	0.007	0.022	0.005	0.008	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	3	< 0.002	< 0.002	< 0.002			I
pp DDT	µg/l	3	< 0.002	< 0.002	< 0.002			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 of II. quality class

River	Danube	Catchment	525009 km ²	SCG05
Distance from the mouth [km]	1154.8	Altitude	70.14 m	
Location	Pancevo L			2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	10	2695.0	4983.3	7689.0	5090.5	6573.9	
Temperature	°C	10	3.0	15.3	24.6	15.7	23.9	
Suspended Solids	mg/l	10	5	28	55	24	51	
Dissolved Oxygen	mg/l	10	7.0	9.4	12.5	9.2	7.8	I
BOD ₅	mg/l	10	1.3	2.8	4.2	3.1	3.8	II
COD _{Mn}	mg/l	10	3.8	4.5	5.8	4.4	5.4	II
COD _{Cr}	mg/l							
TOC	mg/l							
DOC	mg/l							
pH		10	7.8	8.0	8.4	8.0	8.1	II
							7.9	II
Alkalinity	mmol/l	10	2.6	2.9	3.4	2.7	3.3	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	10	0.130	0.268	0.670	0.223	0.427	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	10	0.015	0.025	0.036	0.024	0.032	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	10	0.51	1.45	3.14	1.45	1.91	III
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	10	0.023	0.049	0.071	0.049	0.067	II
Total Phosphorus	mg/l	10	0.09	0.11	0.15	0.11	0.12	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	10	319	363	477	350	397	
Calcium (Ca ²⁺)	mg/l	10	42.3	51.3	62.5	49.2	59.0	
Sulphate (SO ₄ ²⁻)	mg/l	10	32	39	52	38	43	
Magnesium (Mg ²⁺)	mg/l	10	8.5	11.9	17.6	10.6	15.4	
Potassium (K ⁺)	mg/l	10	1.8	2.4	3.7	2.4	2.8	
Sodium (Na ⁺)	mg/l	10	11.4	18.5	24.7	18.7	22.5	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl ⁻)	mg/l	10	18	24	35	23	29	
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	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	0.002	0.004	0.003	0.004	
Anionic active surfactants	mg/l	10	< 0.010	0.022	0.046	0.018	0.044	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAH (sum of 6)	µg/l	1	< 0.100	< 0.100	< 0.100			
PCB (sum of 7)	µg/l							
Lindane	µg/l	1	< 0.002	< 0.002	< 0.002			I
pp DDT	µg/l	1	< 0.002	< 0.002	< 0.002			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 of II. quality class

River	Danube	Catchment	568648 km ²	SCG06
Distance from the mouth [km]	1076.6	Altitude	68.58 m	
Location	Banatska Palanka L			2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	11	2.0	15.1	28.2	14.3	21.5	
Suspended Solids	mg/l	11	2	18	52	10	43	
Dissolved Oxygen	mg/l	11	5.6	8.6	12.1	9.1	6.5	II
BOD ₅	mg/l	11	1.0	2.1	3.3	2.1	2.8	I
COD _{Mn}	mg/l	11	3.8	5.8	9.1	5.4	7.1	II
COD _{Cr}	mg/l	10	9.0	13.5	36.0	11.5	15.3	III
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	11	2.5	3.0	3.6	3.0	3.3	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	11	0.110	0.262	0.430	0.280	0.380	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	11	0.018	0.031	0.090	0.020	0.050	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	11	0.61	1.43	2.35	1.34	2.17	II
Total Nitrogen	mg/l	9	1.06	1.87	2.62	1.79	2.46	II
Organic Nitrogen	mg/l	9	< 0.10	0.21	0.33	0.24	0.31	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	11	0.036	0.058	0.082	0.057	0.072	II
Total Phosphorus	mg/l	11	0.07	0.12	0.16	0.12	0.15	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	11	293	350	448	348	381	
Calcium (Ca ²⁺)	mg/l	11	37.4	52.2	63.9	54.5	57.8	
Sulphate (SO ₄ ²⁻)	mg/l	11	30	36	41	36	40	
Magnesium (Mg ²⁺)	mg/l	11	8.3	12.2	15.1	11.9	14.9	
Potassium (K ⁺)	mg/l	11	1.4	2.1	3.0	1.9	2.7	
Sodium (Na ⁺)	mg/l	11	10.0	14.2	22.3	13.9	17.4	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl ⁻)	mg/l	11	11	18	28	18	20	
Zinc (Zn) - Dissolved	µg/l	6	15.0	25.2	30.0	27.0	29.5	III
Copper (Cu) - Dissolved	µg/l	6	2.00	28.33	79.00	25.50	56.50	III
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l	6	2.00	3.17	6.00	2.50	5.00	III
Cadmium (Cd) - Dissolved	µg/l	6	< 0.10	0.15	0.40	0.10	0.25	III
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	11	0.001	0.002	0.006	0.002	0.004	
Anionic active surfactants	mg/l	11	< 0.010	0.012	0.023	0.010	0.017	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	6	< 0.005	< 0.005	< 0.005	0.005	0.005	
PAH (sum of 6)	µg/l	1	< 0.100	< 0.100	< 0.100			
PCB (sum of 7)	µg/l							
Lindane	µg/l	4	< 0.002	< 0.002	< 0.002	0.002	0.002	I
pp'DDT	µg/l	4	< 0.002	< 0.002	< 0.002	0.002	0.002	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 of II. quality class

River	Danube	Catchment	574307 km ²	SCG07
Distance from the mouth [km]	954.6	Altitude	m	
Location	Tekija R			2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	9	7.2	17.0	25.3	19.2	24.9	
Suspended Solids	mg/l	9	1	12	40	7	34	
Dissolved Oxygen	mg/l	9	5.6	8.8	12.9	8.0	6.7	III
BOD ₅	mg/l	9	1.4	2.2	3.5	2.3	3.0	II
COD _{Mn}	mg/l	9	2.6	3.5	4.7	3.4	4.5	I
COD _{Cr}	mg/l							
TOC	mg/l							
DOC	mg/l							
pH		7	7.3	7.7	8.0	7.7	7.9	II
							7.4	II
Alkalinity	mmol/l	9	2.5	3.1	3.5	3.1	3.4	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	9	0.040	0.061	0.100	0.050	0.100	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	9	< 0.003	0.021	0.165	0.003	0.035	IV
Nitrate-N (NO ₃ ⁻ -N)	mg/l	9	1.08	1.56	2.00	1.55	1.94	II
Total Nitrogen	mg/l	4	2.14	2.69	3.53	2.55	3.35	II
Organic Nitrogen	mg/l	4	0.64	0.98	1.43	0.92	1.28	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	9	0.039	0.065	0.097	0.057	0.093	II
Total Phosphorus	mg/l	7	0.08	0.10	0.14	0.10	0.13	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	7	310	352	433	345	389	
Calcium (Ca ²⁺)	mg/l	7	37.4	51.6	63.2	51.4	61.6	
Sulphate (SO ₄ ²⁻)	mg/l	7	14	25	36	26	32	
Magnesium (Mg ²⁺)	mg/l	7	2.9	9.8	12.2	10.9	12.0	
Potassium (K ⁺)	mg/l	6	1.1	1.7	2.0	1.9	2.0	
Sodium (Na ⁺)	mg/l	6	7.6	10.8	12.5	10.9	12.3	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl ⁻)	mg/l	7	11	15	17	15	17	
Zinc (Zn) - Dissolved	µg/l	2	10.0	10.5	11.0			III
Copper (Cu) - Dissolved	µg/l	2	1.00	5.50	10.00			III
Chromium (Cr) - Dissolved	µg/l							III
Lead (Pb) - Dissolved	µg/l	2	2.00	4.00	6.00			III
Cadmium (Cd) - Dissolved	µg/l	2	< 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	7	< 0.010	0.010	0.010	0.010	0.010	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	1	< 0.005	< 0.005	< 0.005			
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	3	< 0.002	< 0.002	< 0.002			I
pp DDT	µg/l	3	< 0.002	< 0.002	< 0.002			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 of II. quality class

River	Danube	Catchment	253737 km ²	SCG09
Distance from the mouth [km]	1287.0	Altitude	m	
Location	Backa Palanka L			2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	6	2.6	15.4	24.6	16.7	23.6	
Suspended Solids	mg/l	6	5	18	35	14	35	
Dissolved Oxygen	mg/l	6	6.0	8.9	11.9	8.9	6.9	II
BOD ₅	mg/l	6	1.3	3.0	5.7	2.5	5.0	III
COD _{Mn}	mg/l	6	3.7	4.8	5.8	4.8	5.6	II
COD _{Cr}	mg/l							
TOC	mg/l							
DOC	mg/l							
pH		6	7.7	8.0	8.1	8.0	8.1	II
							7.9	II
Alkalinity	mmol/l	6	2.7	3.2	3.6	3.3	3.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	6	< 0.010	0.196	0.330	0.233	0.300	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	6	0.020	0.025	0.028	0.026	0.028	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	6	0.89	1.75	2.61	1.75	2.37	II
Total Nitrogen	mg/l	1	2.32	2.32	2.32			II
Organic Nitrogen	mg/l	1	0.12	0.12	0.12			
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	6	0.029	0.085	0.200	0.064	0.145	III
Total Phosphorus	mg/l	6	0.10	0.16	0.27	0.13	0.24	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	6	308	368	461	361	422	
Calcium (Ca ²⁺)	mg/l	6	44.2	55.5	63.6	56.7	61.5	
Sulphate (SO ₄ ²⁻)	mg/l	6	32	37	42	37	41	
Magnesium (Mg ²⁺)	mg/l	6	11.1	13.0	14.2	13.4	14.1	
Potassium (K ⁺)	mg/l	6	2.1	2.5	3.1	2.3	3.1	
Sodium (Na ⁺)	mg/l	6	10.1	13.5	16.9	13.4	16.2	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl)	mg/l	6	15	17	19	17	18	
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	6	< 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	5	0.001	0.002	0.004	0.001	0.004	
Anionic active surfactants	mg/l	6	< 0.010	0.014	0.022	0.011	0.021	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	2	< 0.005	< 0.005	< 0.005			
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	1	< 0.002	< 0.002	< 0.002			I
pp DDT	µg/l	1	< 0.002	< 0.002	< 0.002			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 of II. quality class

River	/Tisa	Catchment	140130 km ²	SCG10
Distance from the mouth [km]	152.0	Altitude	75.54 m	
Location	Martonos R			2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	12	342.0	884.8	1665.0	706.0	1579.4	
Temperature	°C	12	2.1	14.4	29.2	13.4	24.6	
Suspended Solids	mg/l	12	6	76	397	24	189	
Dissolved Oxygen	mg/l	12	3.9	9.4	12.3	10.1	6.7	II
BOD ₅	mg/l	12	1.2	2.5	3.9	2.4	3.4	II
COD _{Mn}	mg/l	12	3.4	4.9	9.2	4.4	6.8	II
COD _{Cr}	mg/l	12	8.0	16.0	47.0	12.5	21.6	II
TOC	mg/l							
DOC	mg/l							
pH		11	7.4	7.8	8.3	7.7	8.0	II
							7.5	II
Alkalinity	mmol/l	12	1.8	2.4	2.8	2.4	2.6	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.030	0.223	0.530	0.175	0.385	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.006	0.024	0.051	0.021	0.044	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.33	1.11	1.55	1.22	1.48	II
Total Nitrogen	mg/l	11	1.04	1.62	2.21	1.59	2.02	II
Organic Nitrogen	mg/l	11	0.11	0.26	0.68	0.18	0.38	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.008	0.062	0.096	0.071	0.096	II
Total Phosphorus	mg/l	12	0.07	0.12	0.17	0.12	0.15	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	266	372	475	368	439	
Calcium (Ca ²⁺)	mg/l	12	38.5	47.1	55.1	48.1	54.2	
Sulphate (SO ₄ ²⁻)	mg/l	12	37	44	60	45	49	
Magnesium (Mg ²⁺)	mg/l	12	7.4	10.7	16.7	9.8	14.0	
Potassium (K ⁺)	mg/l	12	2.0	3.2	4.4	3.0	4.2	
Sodium (Na ⁺)	mg/l	12	14.0	26.4	37.3	26.2	33.7	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl ⁻)	mg/l	12	19	37	67	33	61	
Zinc (Zn) - Dissolved	µg/l	9	25.0	34.7	45.0	35.0	41.8	III
Copper (Cu) - Dissolved	µg/l	9	10.00	40.67	86.00	31.00	82.00	III
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l	9	< 1.00	2.56	9.00	1.00	5.00	III
Cadmium (Cd) - Dissolved	µg/l	9	< 0.10	0.13	0.40	0.10	0.16	III
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	11	0.001	0.002	0.006	0.001	0.003	
Anionic active surfactants	mg/l	12	< 0.010	0.018	0.059	0.011	0.031	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	7	< 0.005	< 0.005	< 0.005	0.005	0.005	
PAH (sum of 6)	µg/l	1	< 0.100	< 0.100	< 0.100			
PCB (sum of 7)	µg/l							
Lindane	µg/l	8	< 0.002	< 0.002	< 0.002	0.002	0.002	I
pp'DDT	µg/l	8	< 0.002	< 0.002	< 0.002	0.002	0.002	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 of II. quality class

River	/Tisa	Catchment	145415 km ²	SCG11
Distance from the mouth [km]	66.0	Altitude	74.03 m	
Location	Novi Becej L			2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	12	1.6	13.9	29.8	12.7	22.9	
Suspended Solids	mg/l	12	5	72	324	39	134	
Dissolved Oxygen	mg/l	12	4.5	9.1	12.4	9.6	5.7	III
BOD ₅	mg/l	11	1.1	3.0	4.4	3.1	3.8	II
COD _{Mn}	mg/l	12	3.2	5.1	7.1	5.0	6.8	II
COD _{Cr}	mg/l							
TOC	mg/l							
DOC	mg/l							
pH		11	7.3	7.7	8.3	7.7	8.0	II
							7.5	II
Alkalinity	mmol/l	12	1.8	2.4	3.1	2.3	2.8	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	< 0.010	0.372	0.590	0.370	0.588	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	< 0.003	0.028	0.060	0.027	0.043	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.37	1.10	1.67	1.25	1.52	II
Total Nitrogen	mg/l	1	1.93	1.93	1.93			II
Organic Nitrogen	mg/l	1	0.30	0.30	0.30			
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.007	0.070	0.132	0.066	0.102	III
Total Phosphorus	mg/l	12	0.08	0.15	0.21	0.15	0.18	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	293	381	499	372	477	
Calcium (Ca ²⁺)	mg/l	12	37.7	44.7	56.3	42.9	53.0	
Sulphate (SO ₄ ²⁻)	mg/l	12	33	46	61	44	53	
Magnesium (Mg ²⁺)	mg/l	12	6.5	10.5	16.4	9.5	14.2	
Potassium (K ⁺)	mg/l	12	2.0	3.5	5.9	3.4	4.3	
Sodium (Na ⁺)	mg/l	12	14.5	27.5	41.2	28.7	35.8	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl ⁻)	mg/l	12	19	37	59	38	53	
Zinc (Zn) - Dissolved	µg/l	6	25.0	33.7	42.0	34.0	40.0	III
Copper (Cu) - Dissolved	µg/l	6	10.00	67.50	185.00	57.00	125.00	III
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l	6	< 1.00	2.83	7.00	2.00	5.50	III
Cadmium (Cd) - Dissolved	µg/l	6	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg) - Dissolved	µg/l	12	< 0.100	0.108	0.200	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	0.005	0.002	0.003	
Anionic active surfactants	mg/l	12	< 0.010	0.020	0.046	0.015	0.034	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	2	< 0.005	< 0.005	< 0.005			
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	2	< 0.002	< 0.002	< 0.002			I
pp DDT	µg/l	2	< 0.002	< 0.002	< 0.002			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 of II. quality class

River	/Tisa	Catchment	157147	km ²	SCG12
Distance from the mouth [km]	8.9	Altitude	72.55	m	
Location	Titel M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	11	4.0	15.6	27.6	16.3	27.2	
Suspended Solids	mg/l	11	9	46	185	25	81	
Dissolved Oxygen	mg/l	11	5.5	8.3	11.4	8.0	5.6	III
BOD ₅	mg/l	10	1.4	2.1	4.0	2.0	2.7	II
COD _{Mn}	mg/l	11	3.1	4.7	9.8	4.1	5.9	II
COD _{Cr}	mg/l							
TOC	mg/l							
DOC	mg/l							
pH		11	7.4	7.7	7.9	7.8	7.9	II
							7.6	II
Alkalinity	mmol/l	11	1.9	2.4	2.6	2.4	2.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	11	0.201	0.314	0.450	0.310	0.450	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	11	0.004	0.026	0.046	0.025	0.036	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	11	0.60	1.10	1.68	1.09	1.53	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	11	0.033	0.068	0.139	0.048	0.106	III
Total Phosphorus	mg/l	11	0.07	0.13	0.21	0.12	0.17	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	11	269	370	457	376	426	
Calcium (Ca ²⁺)	mg/l	11	36.0	44.9	49.2	45.9	48.4	
Sulphate (SO ₄ ²⁻)	mg/l	11	26	40	45	42	44	
Magnesium (Mg ²⁺)	mg/l	11	7.1	8.6	11.3	8.7	10.0	
Potassium (K ⁺)	mg/l	11	2.2	3.2	4.4	2.9	4.0	
Sodium (Na ⁺)	mg/l	11	14.9	27.0	37.4	28.2	33.0	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl ⁻)	mg/l	11	18	36	54	35	50	
Zinc (Zn) - Dissolved	µg/l	5	17.0	25.6	36.0	27.0	33.2	III
Copper (Cu) - Dissolved	µg/l	5	6.00	10.80	19.00	7.00	17.40	III
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l	5	< 1.00	2.80	7.00	2.00	5.40	III
Cadmium (Cd) - Dissolved	µg/l	5	< 0.10	0.12	0.20	0.10	0.16	III
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	0.002	0.005	0.001	0.003	
Anionic active surfactants	mg/l	11	< 0.010	0.011	0.017	0.010	0.014	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	2	< 0.005	< 0.005	< 0.005			
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	2	< 0.002	< 0.002	< 0.002			I
pp DDT	µg/l	2	< 0.002	< 0.002	< 0.002			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 of II. quality class

River	/Sava	Catchment	64073	km ²	SCG13
Distance from the mouth [km]	195.0	Altitude	77.67	m	
Location	Jamena L				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	12	4.2	14.4	26.6	12.2	23.8	
Suspended Solids	mg/l	12	5	19	80	11	38	
Dissolved Oxygen	mg/l	12	7.3	10.4	12.5	10.4	9.3	I
BOD ₅	mg/l	12	0.9	2.4	4.6	2.2	4.3	II
COD _{Mn}	mg/l	12	1.7	3.0	5.4	2.9	3.6	I
COD _{Cr}	mg/l							
TOC	mg/l							
DOC	mg/l							
pH		12	7.6	7.8	8.0	7.9	8.0	II
							7.6	II
Alkalinity	mmol/l	12	3.3	3.5	4.5	3.5	3.6	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.030	0.069	0.100	0.075	0.100	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	< 0.003	0.004	0.006	0.003	0.006	I
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.46	1.25	3.46	1.22	1.51	II
Total Nitrogen	mg/l	9	1.34	2.26	5.01	1.89	3.62	III
Organic Nitrogen	mg/l	9	< 0.10	0.76	1.85	0.34	1.58	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.011	0.063	0.085	0.068	0.084	II
Total Phosphorus	mg/l	11	0.03	0.09	0.13	0.10	0.12	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	280	350	430	345	396	
Calcium (Ca ²⁺)	mg/l	11	38.0	57.6	73.0	63.1	66.8	
Sulphate (SO ₄ ²⁻)	mg/l	11	11	21	32	21	28	
Magnesium (Mg ²⁺)	mg/l	11	4.4	12.7	19.4	12.8	18.7	
Potassium (K ⁺)	mg/l	11	0.6	1.0	1.4	1.0	1.3	
Sodium (Na ⁺)	mg/l	9	4.9	8.2	12.5	7.8	11.3	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl ⁻)	mg/l	11	5	11	15	11	15	
Zinc (Zn) - Dissolved	µg/l	6	5.0	19.7	29.0	22.5	29.0	III
Copper (Cu) - Dissolved	µg/l	6	< 1.00	5.83	16.00	3.50	13.00	III
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l	6	< 1.00	2.83	9.00	2.00	5.50	III
Cadmium (Cd) - Dissolved	µg/l	6	< 0.10	0.12	0.20	0.10	0.15	III
Mercury (Hg) - Dissolved	µg/l	11	< 0.100	0.155	0.700	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	11	< 0.001	< 0.001	< 0.001	0.001	0.001	
Anionic active surfactants	mg/l	11	< 0.010	< 0.010	< 0.010	0.010	0.010	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	8	< 0.005	0.005	0.005	0.005	0.005	
PAH (sum of 6)	µg/l	1	< 0.100	< 0.100	< 0.100			
PCB (sum of 7)	µg/l							
Lindane	µg/l	4	< 0.002	< 0.002	< 0.002	0.002	0.002	I
pp'DDT	µg/l	4	< 0.002	< 0.002	< 0.002	0.002	0.002	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 of II. quality class

River	/Sava	Catchment	87996	km ²	SCG14
Distance from the mouth [km]	136.4	Altitude	75.24	m	
Location	Sremska Mitrovica L				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	11	427.0	1493.5	3353.0	1274.0	2556.0	
Temperature	°C	11	4.6	15.1	27.3	12.3	24.1	
Suspended Solids	mg/l	11	2	17	40	12	36	
Dissolved Oxygen	mg/l	11	7.5	10.9	13.6	11.0	9.7	I
BOD ₅	mg/l	11	1.1	2.4	4.4	2.2	4.1	II
COD _{Mn}	mg/l	11	2.5	3.5	5.0	3.2	4.3	I
COD _{Cr}	mg/l							
TOC	mg/l							
DOC	mg/l							
pH		11	7.7	7.9	8.1	7.9	8.1	II
							7.7	II
Alkalinity	mmol/l	11	3.4	3.6	4.3	3.5	4.1	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	11	0.030	0.064	0.090	0.070	0.080	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	11	< 0.003	< 0.003	< 0.003	0.003	0.003	I
Nitrate-N (NO ₃ ⁻ -N)	mg/l	11	0.56	0.99	1.45	0.97	1.20	II
Total Nitrogen	mg/l	8	1.29	1.65	2.08	1.66	2.01	II
Organic Nitrogen	mg/l	8	< 0.10	0.47	0.90	0.45	0.82	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	11	0.010	0.053	0.088	0.057	0.078	II
Total Phosphorus	mg/l	11	0.03	0.08	0.17	0.08	0.10	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	11	310	348	410	340	360	
Calcium (Ca ²⁺)	mg/l	11	51.0	60.3	74.4	60.8	67.0	
Sulphate (SO ₄ ²⁻)	mg/l	11	12	19	26	20	25	
Magnesium (Mg ²⁺)	mg/l	11	4.7	10.0	15.7	10.0	12.0	
Potassium (K ⁺)	mg/l	11	0.4	0.9	1.4	0.9	1.1	
Sodium (Na ⁺)	mg/l	9	4.3	7.2	10.6	7.5	8.4	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl ⁻)	mg/l	10	4	8	14	8	12	
Zinc (Zn) - Dissolved	µg/l	5	1.0	15.8	26.0	18.0	26.0	III
Copper (Cu) - Dissolved	µg/l	5	< 1.00	6.40	13.00	5.00	12.60	III
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l	5	< 1.00	2.00	5.00	1.00	3.80	III
Cadmium (Cd) - Dissolved	µg/l	5	< 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	11	< 0.001	< 0.001	< 0.001	0.001	0.001	
Anionic active surfactants	mg/l	11	< 0.010	0.010	0.010	0.010	0.010	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	2	< 0.002	< 0.002	< 0.002			I
pp DDT	µg/l	2	< 0.002	< 0.002	< 0.002			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 of II. quality class

River	/Sava	Catchment	89490	km ²	SCG15
Distance from the mouth [km]	103.6	Altitude	74.22	m	
Location	Sabac R				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	12	435.0	1548.2	3313.0	1433.5	2768.4	
Temperature	°C	12	2.1	14.3	28.2	12.1	23.7	
Suspended Solids	mg/l	12	3	19	58	11	41	
Dissolved Oxygen	mg/l	12	7.2	10.8	14.2	10.4	8.9	I
BOD ₅	mg/l	12	0.5	2.5	5.5	2.4	3.8	II
COD _{Mn}	mg/l	12	1.3	3.1	4.4	3.3	4.0	I
COD _{Cr}	mg/l							
TOC	mg/l							
DOC	mg/l							
pH		11	7.6	7.8	8.1	7.8	8.0	II
							7.6	II
Alkalinity	mmol/l	12	3.3	3.7	4.7	3.6	4.2	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.020	0.062	0.090	0.068	0.089	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	< 0.003	< 0.003	< 0.003	0.003	0.003	I
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.32	0.98	1.48	1.00	1.31	II
Total Nitrogen	mg/l	9	0.98	1.69	2.33	1.56	2.30	II
Organic Nitrogen	mg/l	9	< 0.10	0.59	1.10	0.62	1.02	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.012	0.057	0.095	0.060	0.080	II
Total Phosphorus	mg/l	4	0.08	0.14	0.28	0.10	0.23	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	300	354	390	360	380	
Calcium (Ca ²⁺)	mg/l	5	44.3	52.3	60.0	52.4	59.4	
Sulphate (SO ₄ ²⁻)	mg/l	5	8	21	29	23	27	
Magnesium (Mg ²⁺)	mg/l	5	10.0	12.5	14.4	13.6	14.1	
Potassium (K ⁺)	mg/l	4	0.5	1.0	1.5	0.9	1.3	
Sodium (Na ⁺)	mg/l	4	4.5	6.9	9.1	7.1	8.7	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl ⁻)	mg/l	4	4	7	10	7	10	
Zinc (Zn) - Dissolved	µg/l	4	12.0	19.0	37.0	13.5	30.1	III
Copper (Cu) - Dissolved	µg/l	4	1.00	24.00	45.00	25.00	43.20	III
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l	4	< 1.00	3.25	6.00	3.00	5.70	III
Cadmium (Cd) - Dissolved	µg/l	4	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg) - Dissolved	µg/l	8	< 0.100	0.113	0.200	0.100	0.130	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	10	< 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	< 0.005	0.067	0.440	0.005	0.179	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	4	< 0.002	< 0.002	< 0.002	0.002	0.002	I
pp DDT	µg/l	4	< 0.002	< 0.002	< 0.002	0.002	0.002	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 of II. quality class

River	/Sava	Catchment	37320	km ²	SCG16
Distance from the mouth [km]	17.0	Altitude		m	
Location	Ostruznica R				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	12	4.0	14.6	26.0	12.8	24.1	
Suspended Solids	mg/l	12	1	9	23	7	22	
Dissolved Oxygen	mg/l	12	6.0	9.3	13.1	9.6	7.4	I
BOD ₅	mg/l	12	1.2	2.3	3.8	2.0	3.4	II
COD _{Mn}	mg/l	12	2.6	3.5	4.2	3.7	4.0	I
COD _{Cr}	mg/l							
TOC	mg/l							
DOC	mg/l							
pH		12	7.8	7.9	8.1	8.0	8.0	II
							7.8	II
Alkalinity	mmol/l	12	2.7	3.3	3.8	3.4	3.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	< 0.010	0.063	0.110	0.065	0.098	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	11	< 0.003	0.018	0.078	0.004	0.037	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.29	1.02	2.21	0.93	1.52	II
Total Nitrogen	mg/l	11	0.50	2.03	5.65	1.66	2.76	II
Organic Nitrogen	mg/l	11	0.14	0.91	4.11	0.62	1.30	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	11	0.027	0.062	0.107	0.049	0.098	II
Total Phosphorus	mg/l	4	0.04	0.10	0.15	0.11	0.14	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	290	374	480	385	456	
Calcium (Ca ²⁺)	mg/l	5	36.0	53.5	60.5	58.6	59.8	
Sulphate (SO ₄ ²⁻)	mg/l	4	22	25	28	25	28	
Magnesium (Mg ²⁺)	mg/l	5	8.1	12.2	14.0	13.1	13.8	
Potassium (K ⁺)	mg/l	4	0.8	1.0	1.4	0.9	1.3	
Sodium (Na ⁺)	mg/l	4	5.5	7.8	9.8	7.9	9.5	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl ⁻)	mg/l	5	5	9	11	9	11	
Zinc (Zn) - Dissolved	µg/l	9	5.0	26.3	67.0	22.0	46.2	III
Copper (Cu) - Dissolved	µg/l	9	1.00	8.89	31.00	7.00	18.20	III
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l	9	< 1.00	1.89	5.00	1.00	3.40	III
Cadmium (Cd) - Dissolved	µg/l	9	< 0.10	0.11	0.20	0.10	0.12	III
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	0.001	0.001	0.001	0.001	
Anionic active surfactants	mg/l	4	< 0.010	0.011	0.012	0.010	0.011	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	7	< 0.005	0.006	0.012	0.005	0.008	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	3	< 0.002	< 0.002	< 0.002			I
pp DDT	µg/l	3	< 0.002	< 0.002	< 0.002			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 of II. quality class

River	/Velika Morava	Catchment	37320	km ²	SCG17
Distance from the mouth [km]	34.8	Altitude	75.09	m	
Location	Ljubicevski Most R				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	12	69.0	210.3	560.0	168.5	415.9	
Temperature	°C	12	0.0	14.0	27.6	13.1	23.2	
Suspended Solids	mg/l	12	2	13	89	4	33	
Dissolved Oxygen	mg/l	12	7.9	10.6	13.5	10.8	8.2	I
BOD ₅	mg/l	11	2.6	3.7	5.5	3.4	5.2	III
COD _{Mn}	mg/l	12	2.2	5.1	10.1	4.8	7.4	II
COD _{Cr}	mg/l							
TOC	mg/l							
DOC	mg/l							
pH		12	7.2	7.7	8.8	7.8	8.3	II
							7.2	II
Alkalinity	mmol/l	12	3.1	3.7	4.6	3.7	4.4	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.010	0.062	0.110	0.060	0.100	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	< 0.003	0.004	0.010	0.003	0.006	I
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.98	1.74	4.58	1.67	1.86	II
Total Nitrogen	mg/l	4	1.87	2.48	3.54	2.25	3.20	II
Organic Nitrogen	mg/l	4	< 0.10	0.86	2.34	0.50	1.82	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.062	0.103	0.168	0.100	0.149	III
Total Phosphorus	mg/l	4	0.07	0.16	0.27	0.15	0.25	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	310	403	480	405	438	
Calcium (Ca ²⁺)	mg/l	4	42.1	49.5	62.0	47.0	58.8	
Sulphate (SO ₄ ²⁻)	mg/l	4	24	27	32	26	30	
Magnesium (Mg ²⁺)	mg/l	4	10.7	14.2	17.7	14.1	17.3	
Potassium (K ⁺)	mg/l	4	1.3	1.8	2.2	1.8	2.1	
Sodium (Na ⁺)	mg/l	4	7.1	9.7	12.6	9.5	11.9	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl ⁻)	mg/l	4	5	6	9	6	8	
Zinc (Zn) - Dissolved	µg/l	1	17.0	17.0	17.0			III
Copper (Cu) - Dissolved	µg/l	1	6.00	6.00	6.00			III
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l	1	< 1.00	< 1.00	< 1.00			II
Cadmium (Cd) - Dissolved	µg/l	1	< 0.10	< 0.10	< 0.10			II
Mercury (Hg) - Dissolved	µg/l	2	< 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	3	< 0.010	< 0.010	< 0.010			
AOX	µg/l							
Petroleum hydrocarbons	mg/l	8	< 0.005	0.012	0.032	0.005	0.031	
PAH (sum of 6)	µg/l	1	< 0.100	< 0.100	< 0.100			
PCB (sum of 7)	µg/l							
Lindane	µg/l	3	< 0.002	< 0.002	< 0.002			I
pp DDT	µg/l	3	< 0.002	< 0.002	< 0.002			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 of II. quality class

River	Danube	Catchment	570896	km ²	RO01
Distance from the mouth [km]	1071.0	Altitude	70	m	
Location	Bazias L				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90	Class
Flow	m ³ /s	365	2800.0	5631.8	8400.0	5800.0	7400.0	
Temperature	°C	24	0.2	14.1	28.0	12.8	25.0	
Suspended Solids	mg/l	24	29	43	69	40	55	
Dissolved Oxygen	mg/l	24	5.6	8.4	11.6	8.6	6.1	II
BOD ₅	mg/l	23	2.2	3.3	4.2	3.3	4.1	II
COD _{Mn}	mg/l	23	2.3	5.5	7.0	5.6	6.5	II
COD _{Cr}	mg/l	23	5.4	9.7	12.2	9.6	11.6	II
TOC	mg/l							
DOC	mg/l							
pH		24	7.7	8.0	8.3	7.9	8.2	II
							7.8	II
Alkalinity	mmol/l	24	2.5	3.1	3.8	3.2	3.3	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	24	0.093	0.257	0.862	0.219	0.446	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	24	0.014	0.029	0.075	0.026	0.044	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	24	0.59	1.13	2.23	1.12	1.62	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	24	< 0.005	0.070	0.146	0.065	0.110	III
Total Phosphorus	mg/l	24	< 0.01	0.08	0.15	0.07	0.13	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	22	334	388	481	387	415	
Calcium (Ca ²⁺)	mg/l	22	44.6	52.4	61.3	52.1	59.2	
Sulphate (SO ₄ ²⁻)	mg/l	22	15	31	53	30	39	
Magnesium (Mg ²⁺)	mg/l	23	7.7	12.5	16.5	12.6	15.5	
Potassium (K ⁺)	mg/l	23	2.0	3.0	4.0	3.0	4.0	
Sodium (Na ⁺)	mg/l	23	11.0	14.5	18.4	15.0	17.0	
Manganese (Mn)	mg/l	21	0.016	0.095	0.391	0.087	0.135	
Iron (Fe)	mg/l	23	0.050	0.635	2.863	0.362	1.733	
Chloride (Cl ⁻)	mg/l	23	16	21	27	20	23	
Zinc (Zn) - Dissolved	µg/l	2	< 10.0	< 10.0	< 10.0			**
Copper (Cu) - Dissolved	µg/l	3	1.55	4.14	6.76			II
Chromium (Cr) - Dissolved	µg/l	3	0.34	0.59	0.85			II
Lead (Pb) - Dissolved	µg/l	3	< 0.10	1.03	1.77			II
Cadmium (Cd) - Dissolved	µg/l	2	0.29	1.03	1.77			II
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	4	0.67	1.77	4.10	1.15	3.27	III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	22	< 10.0	44.7	469.0	20.5	57.1	II
Copper (Cu)	µg/l	20	3.84	12.82	88.60	7.69	17.08	II
Chromium (Cr) - total	µg/l	21	0.57	3.51	14.04	2.57	5.19	II
Lead (Pb)	µg/l	21	0.50	4.38	12.12	3.77	6.96	III
Cadmium (Cd)	µg/l	22	< 0.05	3.64	14.74	1.76	9.67	V
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	22	0.06	4.43	27.55	3.47	5.46	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	24	< 0.005	< 0.005	< 0.005	0.005	0.005	
Anionic active surfactants	mg/l	15	< 0.025	0.025	0.029	0.025	0.025	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	3	< 0.010	< 0.010	< 0.010			
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	14	< 0.002	0.036	0.134	0.029	0.058	II
pp DDT	µg/l	2	0.004	0.008	0.012			II
Atrazine	µg/l	1	0.049	0.049	0.049			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	2.800	8.367	11.000	9.500	11.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	5	0.061	0.137	0.220	0.140	0.200	
Faecal Streptococci	10 ³ CFU/100 ml	3	0.002	0.021	0.040			
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 of II. quality class

River	Danube	Catchment	570896	km ²	RO01
Distance from the mouth [km]	1071.0	Altitude	70	m	
Location	Bazias M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	2800.0	5631.8	8400.0	5800.0	7400.0	
Temperature	°C	23	3.0	14.4	27.5	13.0	24.0	
Suspended Solids	mg/l	22	24	36	65	34	44	
Dissolved Oxygen	mg/l	22	5.2	8.3	11.2	8.7	6.3	II
BOD ₅	mg/l	21	1.8	3.2	4.2	3.5	3.8	II
COD _{Mn}	mg/l	21	3.6	4.8	6.1	4.6	5.8	II
COD _{Cr}	mg/l	21	5.9	8.4	10.6	8.3	10.5	II
TOC	mg/l							
DOC	mg/l							
pH		22	7.7	8.0	8.4	8.0	8.2	II
							7.8	II
Alkalinity	mmol/l	22	2.5	3.0	3.7	3.1	3.2	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	22	0.077	0.220	0.831	0.169	0.360	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	22	0.012	0.028	0.063	0.027	0.040	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	22	0.36	1.08	2.21	1.14	1.55	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	22	0.023	0.067	0.156	0.059	0.113	III
Total Phosphorus	mg/l	22	0.03	0.08	0.20	0.07	0.12	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	20	333	383	506	384	412	
Calcium (Ca ²⁺)	mg/l	21	36.3	49.7	61.8	50.3	55.1	
Sulphate (SO ₄ ²⁻)	mg/l	20	12	30	50	29	39	
Magnesium (Mg ²⁺)	mg/l	21	8.7	12.2	17.4	12.6	14.6	
Potassium (K ⁺)	mg/l	21	2.0	2.7	4.0	3.0	3.0	
Sodium (Na ⁺)	mg/l	21	11.0	14.3	19.2	14.0	16.0	
Manganese (Mn)	mg/l	20	0.013	0.095	0.249	0.077	0.216	
Iron (Fe)	mg/l	21	0.108	0.756	2.915	0.464	2.086	
Chloride (Cl ⁻)	mg/l	21	15	20	27	20	23	
Zinc (Zn) - Dissolved	µg/l	16	< 10.0	15.1	32.0	13.0	22.5	III
Copper (Cu) - Dissolved	µg/l	16	0.57	4.29	14.78	2.88	8.82	III
Chromium (Cr) - Dissolved	µg/l	16	0.31	0.92	2.11	0.69	1.74	II
Lead (Pb) - Dissolved	µg/l	16	< 0.10	0.86	1.99	0.86	1.66	III
Cadmium (Cd) - Dissolved	µg/l	15	0.09	0.93	10.03	0.26	0.61	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	16	0.48	1.52	3.70	1.23	2.99	III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	20	< 10.0	39.9	244.0	24.5	82.1	II
Copper (Cu)	µg/l	19	2.96	10.66	32.47	6.77	23.01	III
Chromium (Cr) - total	µg/l	19	0.42	3.66	13.49	2.24	11.49	II
Lead (Pb)	µg/l	20	0.12	3.44	10.52	2.46	8.46	III
Cadmium (Cd)	µg/l	20	0.05	2.29	10.30	1.66	4.74	IV
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	20	1.24	3.91	12.48	3.27	5.77	II
Arsenic (As)	µg/l	1	0.24	0.24	0.24			II
Aluminium (Al)	µg/l							
Phenol index	mg/l	22	< 0.005	< 0.005	< 0.005	0.005	0.005	
Anionic active surfactants	mg/l	13	< 0.025	< 0.025	< 0.025	0.025	0.025	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	3	< 0.010	< 0.010	< 0.010			
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	13	< 0.002	0.038	0.160	0.027	0.064	II
pp DDT	µg/l	5	0.001	0.007	0.015	0.002	0.015	III
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	0.390	7.039	16.000	7.000	10.150	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	5	0.600	8.064	36.000	1.400	22.160	
Faecal Streptococci	10 ³ CFU/100 ml	5	0.000	0.169	0.400	0.200	0.320	
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 of II. quality class

River	Danube	Catchment	570896	km ²	RO01
Distance from the mouth [km]	1071.0	Altitude	70	m	
Location	Bazias R				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90	Class
Flow	m3/s	365	2800.0	5631.8	8400.0	5800.0	7400.0	
Temperature	°C	23	3.0	14.6	28.0	13.0	24.5	
Suspended Solids	mg/l	22	25	38	62	36	46	
Dissolved Oxygen	mg/l	22	5.3	8.1	10.7	8.3	6.2	II
BOD ₅	mg/l	21	2.2	3.4	4.5	3.4	4.0	II
COD _{Mn}	mg/l	21	3.9	5.4	7.8	5.4	6.2	II
COD _{Cr}	mg/l	21	6.5	9.3	11.1	9.4	10.5	II
TOC	mg/l							
DOC	mg/l							
pH		22	7.6	7.9	8.2	8.0	8.1	II
							7.8	II
Alkalinity	mmol/l	22	2.5	3.1	3.7	3.1	3.3	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	22	0.077	0.259	0.916	0.206	0.425	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	22	0.015	0.028	0.060	0.027	0.039	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	22	0.43	1.17	2.36	1.17	1.51	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	22	0.019	0.072	0.179	0.062	0.120	III
Total Phosphorus	mg/l	22	0.03	0.08	0.22	0.07	0.13	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	20	332	385	503	379	413	
Calcium (Ca ²⁺)	mg/l	21	41.3	50.7	60.2	52.1	56.7	
Sulphate (SO ₄ ²⁻)	mg/l	20	18	32	51	32	42	
Magnesium (Mg ²⁺)	mg/l	21	9.7	12.6	19.4	12.6	15.5	
Potassium (K ⁺)	mg/l	20	2.0	2.7	4.0	3.0	3.0	
Sodium (Na ⁺)	mg/l	21	11.0	14.4	18.4	15.0	16.0	
Manganese (Mn)	mg/l	20	0.005	0.087	0.268	0.083	0.125	
Iron (Fe)	mg/l	21	0.075	0.646	1.976	0.530	1.500	
Chloride (Cl)	mg/l	21	16	20	26	20	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	20	< 10.0	58.5	572.0	21.0	77.6	II
Copper (Cu)	µg/l	19	4.13	14.65	77.82	7.01	30.46	III
Chromium (Cr) - total	µg/l	19	0.23	2.81	9.50	1.84	4.87	II
Lead (Pb)	µg/l	20	1.04	4.45	13.00	2.84	8.57	III
Cadmium (Cd)	µg/l	20	0.23	2.25	10.36	1.29	5.37	V
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	20	0.37	5.99	31.14	3.00	12.20	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	22	< 0.005	< 0.005	< 0.005	0.005	0.005	
Anionic active surfactants	mg/l	13	< 0.025	< 0.025	< 0.025	0.025	0.025	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	3	< 0.010	< 0.010	< 0.010			
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	13	< 0.002	0.022	0.041	0.024	0.036	I
pp DDT	µg/l	2	0.001	0.001	0.001			I
Atrazine	µg/l	1	0.047	0.047	0.047			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	0.170	7.469	11.000	9.200	9.800	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	5	0.040	0.108	0.200	0.098	0.176	
Faecal Streptococci	10 ³ CFU/100 ml	4	0.002	0.016	0.020	0.020	0.020	
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 of II. quality class

River	Danube	Catchment	580100	km ²	RO02
Distance from the mouth [km]	834.0	Altitude	31	m	
Location	Pristol/Novo Selo Harbour L				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90	Class
Flow	m3/s	365	2680.0	5392.0	7700.0	5600.0	7160.4	
Temperature	°C	24	1.0	13.9	26.5	12.8	24.1	
Suspended Solids	mg/l	24	27	39	58	37	47	
Dissolved Oxygen	mg/l	24	5.3	8.2	11.9	8.2	6.3	II
BOD ₅	mg/l	23	2.1	3.3	4.6	3.3	3.9	II
COD _{Mn}	mg/l	23	4.0	5.2	7.1	5.1	6.0	II
COD _{Cr}	mg/l	23	7.1	9.1	14.8	9.0	10.2	II
TOC	mg/l							
DOC	mg/l							
pH		24	7.5	7.9	8.2	8.0	8.0	II
							7.6	II
Alkalinity	mmol/l	24	2.7	3.2	3.8	3.2	3.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	24	0.077	0.237	0.570	0.194	0.456	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	24	0.010	0.030	0.084	0.027	0.042	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	24	0.63	1.22	2.16	1.18	1.74	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	24	0.018	0.077	0.127	0.081	0.119	III
Total Phosphorus	mg/l	24	0.02	0.09	0.14	0.09	0.13	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	22	328	392	494	387	431	
Calcium (Ca ²⁺)	mg/l	23	39.6	52.4	67.9	52.3	58.1	
Sulphate (SO ₄ ²⁻)	mg/l	23	18	31	51	32	39	
Magnesium (Mg ²⁺)	mg/l	23	9.7	13.1	19.4	12.6	16.3	
Potassium (K ⁺)	mg/l	23	2.0	2.7	4.0	3.0	3.8	
Sodium (Na ⁺)	mg/l	23	9.0	13.8	21.0	14.0	16.0	
Manganese (Mn)	mg/l	23	0.021	0.094	0.992	0.054	0.073	
Iron (Fe)	mg/l	23	0.123	0.522	2.099	0.294	1.225	
Chloride (Cl)	mg/l	23	15	20	27	20	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	23	< 10.0	22.8	67.0	18.0	43.2	II
Copper (Cu)	µg/l	20	3.26	6.21	10.37	5.67	10.05	II
Chromium (Cr) - total	µg/l	22	0.73	2.89	11.14	1.85	7.02	II
Lead (Pb)	µg/l	22	0.61	3.01	10.92	2.37	4.84	II
Cadmium (Cd)	µg/l	23	< 0.05	1.86	11.59	1.12	3.42	IV
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	22	1.59	4.69	18.60	3.42	9.61	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	24	< 0.005	0.005	0.012	0.005	0.005	
Anionic active surfactants	mg/l	15	< 0.025	0.030	0.100	0.025	0.025	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	3	< 0.010	< 0.010	< 0.010			
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	16	< 0.002	0.024	0.042	0.024	0.041	I
pp DDT	µg/l	3	0.011	0.014	0.018			III
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	12	0.000	4.935	9.200	5.400	9.200	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	6	0.020	0.109	0.210	0.088	0.210	
Faecal Streptococci	10 ³ CFU/100 ml	4	0.020	0.040	0.061	0.040	0.061	
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 of II. quality class

River	Danube	Catchment	580100	km ²	RO02
Distance from the mouth [km]	834.0	Altitude	31	m	
Location	Pristol/Novo Selo Harbour M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90	Class
Flow	m ³ /s	365	2680.0	5392.0	7700.0	5600.0	7160.4	
Temperature	°C	22	2.1	14.7	26.0	13.6	23.5	
Suspended Solids	mg/l	22	25	33	41	33	37	
Dissolved Oxygen	mg/l	22	6.2	8.3	11.3	8.1	6.3	II
BOD ₅	mg/l	21	1.7	3.1	3.9	3.2	3.7	II
COD _{Mn}	mg/l	21	3.1	4.5	7.4	4.4	4.8	I
COD _{Cr}	mg/l	21	6.1	7.8	10.1	7.8	9.0	I
TOC	mg/l							
DOC	mg/l							
pH		22	7.5	7.9	8.1	8.0	8.0	II
							7.7	II
Alkalinity	mmol/l	22	2.6	3.1	3.8	3.2	3.4	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	22	0.046	0.202	0.580	0.167	0.341	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	22	0.018	0.031	0.078	0.027	0.044	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	22	0.52	1.15	2.09	1.10	1.60	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	22	0.014	0.068	0.130	0.063	0.116	III
Total Phosphorus	mg/l	22	0.02	0.08	0.14	0.07	0.13	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	20	325	385	487	386	412	
Calcium (Ca ²⁺)	mg/l	21	36.3	50.4	58.2	50.6	56.7	
Sulphate (SO ₄ ²⁻)	mg/l	21	14	29	41	31	39	
Magnesium (Mg ²⁺)	mg/l	21	9.7	13.1	18.4	12.6	16.5	
Potassium (K ⁺)	mg/l	21	2.0	2.7	4.0	3.0	3.0	
Sodium (Na ⁺)	mg/l	21	9.0	13.5	21.0	14.0	16.0	
Manganese (Mn)	mg/l	21	0.030	0.072	0.131	0.063	0.121	
Iron (Fe)	mg/l	21	0.119	0.649	2.207	0.538	1.499	
Chloride (Cl)	mg/l	21	15	19	28	19	21	
Zinc (Zn) - Dissolved	µg/l	19	< 10.0	18.4	42.0	10.0	35.6	III
Copper (Cu) - Dissolved	µg/l	19	0.27	4.69	22.28	3.14	8.91	III
Chromium (Cr) - Dissolved	µg/l	19	0.11	0.69	2.69	0.44	1.43	II
Lead (Pb) - Dissolved	µg/l	19	0.35	1.40	2.62	1.37	2.11	III
Cadmium (Cd) - Dissolved	µg/l	16	0.05	0.32	1.85	0.16	0.46	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	17	0.79	1.99	5.90	1.67	2.87	III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	21	< 10.0	34.8	125.0	27.0	58.0	II
Copper (Cu)	µg/l	20	3.18	7.30	32.55	5.04	9.32	II
Chromium (Cr) - total	µg/l	21	0.48	2.73	10.81	1.88	3.96	II
Lead (Pb)	µg/l	21	0.91	3.83	12.67	2.97	5.65	III
Cadmium (Cd)	µg/l	21	0.21	2.31	14.76	1.25	5.66	V
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	21	1.68	4.29	17.27	3.29	6.33	II
Arsenic (As)	µg/l	1	1.36	1.36	1.36			II
Aluminium (Al)	µg/l							
Phenol index	mg/l	22	< 0.005	0.005	0.010	0.005	0.005	
Anionic active surfactants	mg/l	13	< 0.025	< 0.025	< 0.025	0.025	0.025	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	3	< 0.010	< 0.010	< 0.010			
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	17	< 0.002	0.033	0.139	0.023	0.056	II
pp DDT	µg/l	6	0.001	0.009	0.028	0.003	0.022	IV
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	9	0.280	4.642	9.200	5.400	6.800	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	5	0.045	0.193	0.450	0.170	0.354	
Faecal Streptococci	10 ³ CFU/100 ml	5	0.000	0.035	0.092	0.020	0.080	
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 of II. quality class

River	Danube	Catchment	580100	km ²	RO02
Distance from the mouth [km]	834.0	Altitude	31	m	
Location	Pristol/Novo Selo Harbour R				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90	Class
Flow	m3/s	365	2680.0	5392.0	7700.0	5600.0	7160.4	
Temperature	°C	22	2.1	15.0	26.5	13.9	24.0	
Suspended Solids	mg/l	22	29	37	48	37	41	
Dissolved Oxygen	mg/l	22	5.8	8.0	10.7	7.9	6.2	II
BOD ₅	mg/l	21	1.9	3.3	4.8	3.3	4.1	II
COD _{Mn}	mg/l	21	3.7	5.2	6.2	5.4	5.9	II
COD _{Cr}	mg/l	21	6.6	8.9	10.8	8.8	10.4	II
TOC	mg/l							
DOC	mg/l							
pH		22	7.5	8.0	8.2	8.0	8.1	II
							7.8	II
Alkalinity	mmol/l	22	2.7	3.2	3.7	3.2	3.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	22	0.077	0.225	0.580	0.185	0.354	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	22	0.016	0.031	0.078	0.027	0.042	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	22	0.68	1.15	2.20	1.09	1.56	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	22	0.022	0.079	0.159	0.075	0.127	III
Total Phosphorus	mg/l	22	0.03	0.09	0.17	0.08	0.14	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	20	330	385	488	387	411	
Calcium (Ca ²⁺)	mg/l	21	33.0	51.3	61.1	52.1	57.8	
Sulphate (SO ₄ ²⁻)	mg/l	21	19	33	61	30	41	
Magnesium (Mg ²⁺)	mg/l	21	10.6	13.8	20.3	12.6	17.5	
Potassium (K ⁺)	mg/l	21	2.0	2.8	4.0	3.0	3.0	
Sodium (Na ⁺)	mg/l	21	10.0	13.9	21.0	14.0	16.0	
Manganese (Mn)	mg/l	21	0.031	0.062	0.098	0.059	0.087	
Iron (Fe)	mg/l	21	0.101	0.640	2.683	0.384	1.483	
Chloride (Cl)	mg/l	21	15	20	26	20	22	
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	21	< 10.0	23.6	64.0	22.0	42.0	II
Copper (Cu)	µg/l	20	2.50	8.11	46.71	5.93	12.12	II
Chromium (Cr) - total	µg/l	21	0.92	3.32	11.85	2.44	8.29	II
Lead (Pb)	µg/l	21	0.74	4.54	13.79	2.99	9.65	III
Cadmium (Cd)	µg/l	21	0.05	2.08	7.92	1.35	4.95	IV
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	21	1.76	4.12	11.65	3.54	7.55	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	22	< 0.005	0.005	0.011	0.005	0.005	
Anionic active surfactants	mg/l	13	< 0.025	< 0.025	< 0.025	0.025	0.025	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	3	< 0.010	< 0.010	< 0.010			
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	13	0.017	0.045	0.170	0.032	0.075	II
pp DDT	µg/l	4	0.007	0.011	0.015	0.011	0.014	III
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	9	0.450	5.172	9.200	5.400	9.200	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	5	0.040	0.101	0.170	0.092	0.158	
Faecal Streptococci	10 ³ CFU/100 ml	5	0.002	0.024	0.040	0.020	0.040	
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 of II. quality class

River	Danube	Catchment	676150 km ²	RO03
Distance from the mouth [km]	432.0	Altitude	16 m	
Location	us.Arges L			2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90	Class
Flow	m ³ /s	365	3190.0	5999.1	8855.0	6175.0	7914.0	
Temperature	°C	12	1.8	15.8	27.5	14.9	25.9	
Suspended Solids	mg/l	12	78	103	126	103	119	
Dissolved Oxygen	mg/l	12	3.8	8.6	11.2	8.2	7.2	I
BOD ₅	mg/l	12	2.5	3.1	3.6	3.1	3.5	II
COD _{Mn}	mg/l	12	4.6	5.5	6.6	5.6	6.4	II
COD _{Cr}	mg/l	12	9.9	11.8	13.7	11.8	13.1	II
TOC	mg/l							
DOC	mg/l							
pH		12	7.6	7.8	8.0	7.9	7.9	II
							7.7	II
Alkalinity	mmol/l	12	2.7	3.0	3.4	3.0	3.3	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.190	0.266	0.350	0.260	0.318	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.030	0.037	0.050	0.035	0.049	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.04	1.26	1.45	1.27	1.41	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.050	0.143	0.200	0.150	0.178	III
Total Phosphorus	mg/l	12	0.18	0.26	0.35	0.26	0.33	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	357	391	454	389	417	
Calcium (Ca ²⁺)	mg/l	12	60.8	65.3	70.4	64.8	68.8	
Sulphate (SO ₄ ²⁻)	mg/l	12	73	91	103	89	103	
Magnesium (Mg ²⁺)	mg/l	12	12.1	18.6	24.0	18.1	22.0	
Potassium (K ⁺)	mg/l	12	3.0	3.7	4.7	3.7	4.6	
Sodium (Na ⁺)	mg/l	12	13.6	20.9	33.4	20.5	24.3	
Manganese (Mn)	mg/l	11	0.017	0.085	0.176	0.086	0.133	
Iron (Fe)	mg/l	11	0.024	0.536	1.425	0.496	1.165	
Chloride (Cl)	mg/l	12	22	33	53	34	42	
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	< 10.0	28.8	58.0	33.0	51.0	II
Copper (Cu)	µg/l	11	4.23	10.90	29.30	6.62	21.50	III
Chromium (Cr) - total	µg/l	11	0.72	3.93	13.21	2.92	6.86	II
Lead (Pb)	µg/l	11	1.50	3.97	7.99	3.43	7.36	III
Cadmium (Cd)	µg/l	11	0.11	1.31	4.97	0.63	4.32	IV
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	11	1.32	5.07	10.15	3.92	8.76	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	< 0.005	< 0.005	< 0.005	0.005	0.005	
Anionic active surfactants	mg/l	3	0.033	0.041	0.047			
AOX	µg/l							
Petroleum hydrocarbons	mg/l	3	< 0.010	< 0.010	< 0.010			
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	8	0.016	0.050	0.093	0.039	0.092	II
pp'DDT	µg/l	2	0.003	0.016	0.028			IV
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	6	0.140	10.780	16.000	16.000	16.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	6	0.008	1.176	3.600	0.240	3.200	
Faecal Streptococci	10 ³ CFU/100 ml	6	0.000	0.082	0.170	0.092	0.145	
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 of II. quality class

River	Danube	Catchment	676150	km ²	RO03
Distance from the mouth [km]	432.0	Altitude	16	m	
Location	us.Arges M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90	Class
Flow	m3/s	365	3190.0	5999.1	8855.0	6175.0	7914.0	
Temperature	°C	12	2.0	15.6	27.3	15.0	24.9	
Suspended Solids	mg/l	12	66	85	107	88	96	
Dissolved Oxygen	mg/l	12	7.2	9.3	11.6	9.1	7.6	I
BOD ₅	mg/l	12	2.0	2.5	2.8	2.6	2.8	I
COD _{Mn}	mg/l	12	4.1	4.5	5.2	4.4	5.1	II
COD _{Cr}	mg/l	12	8.7	10.1	11.9	9.9	11.7	II
TOC	mg/l							
DOC	mg/l							
pH		12	7.7	7.8	7.9	7.8	7.9	II
							7.7	II
Alkalinity	mmol/l	12	2.5	2.8	3.3	2.8	3.3	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.160	0.205	0.280	0.200	0.258	II
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.023	0.030	0.020	0.030	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.93	1.05	1.18	1.09	1.14	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.070	0.132	0.170	0.135	0.170	III
Total Phosphorus	mg/l	12	0.15	0.23	0.38	0.22	0.30	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	341	371	413	371	395	
Calcium (Ca ²⁺)	mg/l	12	57.6	62.8	72.0	61.6	69.9	
Sulphate (SO ₄ ²⁻)	mg/l	12	70	88	105	89	102	
Magnesium (Mg ²⁺)	mg/l	12	9.7	15.8	22.0	15.8	19.4	
Potassium (K ⁺)	mg/l	12	2.4	3.2	5.1	3.1	3.9	
Sodium (Na ⁺)	mg/l	12	14.0	17.8	27.1	16.9	22.0	
Manganese (Mn)	mg/l	11	0.034	0.198	1.000	0.139	0.194	
Iron (Fe)	mg/l	11	0.192	0.644	2.546	0.427	0.951	
Chloride (Cl)	mg/l	12	17	27	43	26	35	
Zinc (Zn) - Dissolved	µg/l	10	< 10.0	14.3	29.0	10.0	25.4	III
Copper (Cu) - Dissolved	µg/l	10	0.93	2.90	4.41	2.78	3.94	III
Chromium (Cr) - Dissolved	µg/l	10	0.18	0.70	1.49	0.62	1.47	II
Lead (Pb) - Dissolved	µg/l	10	0.16	1.16	2.65	0.76	2.46	III
Cadmium (Cd) - Dissolved	µg/l	9	< 0.05	0.19	0.70	0.08	0.46	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	9	0.56	1.97	5.39	1.60	3.49	III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	11	< 10.0	43.4	143.0	39.0	66.0	II
Copper (Cu)	µg/l	11	3.14	6.21	10.16	6.53	9.33	II
Chromium (Cr) - total	µg/l	11	0.88	2.91	5.76	2.67	4.61	II
Lead (Pb)	µg/l	11	1.69	3.21	6.59	2.75	5.11	III
Cadmium (Cd)	µg/l	11	0.12	1.25	5.76	0.45	2.95	IV
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	11	1.59	4.35	8.06	3.77	7.25	II
Arsenic (As)	µg/l	1	1.65	1.65	1.65			II
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	< 0.005	< 0.005	< 0.005	0.005	0.005	
Anionic active surfactants	mg/l	3	0.031	0.036	0.040			
AOX	µg/l							
Petroleum hydrocarbons	mg/l	3	< 0.010	< 0.010	< 0.010			
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	8	< 0.002	0.030	0.066	0.027	0.054	II
pp'DDT	µg/l	1	0.012	0.012	0.012			III
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	6	0.260	11.077	16.000	16.000	16.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	6	0.020	1.185	3.600	0.260	3.200	
Faecal Streptococci	10 ³ CFU/100 ml	6	0.000	0.081	0.120	0.092	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 of II. quality class

River	Danube	Catchment	676150 km ²	RO03
Distance from the mouth [km]	432.0	Altitude	16 m	
Location	us.Arges R			2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90	Class
Flow	m3/s	365	3190.0	5999.1	8855.0	6175.0	7914.0	
Temperature	°C	12	1.9	15.6	27.4	14.9	25.3	
Suspended Solids	mg/l	12	72	96	119	96	117	
Dissolved Oxygen	mg/l	12	7.1	9.1	11.4	8.9	7.5	I
BOD ₅	mg/l	12	2.3	2.9	4.0	2.9	3.3	II
COD _{Mn}	mg/l	12	4.4	5.2	6.2	5.2	5.8	II
COD _{Cr}	mg/l	12	9.4	11.3	13.3	10.9	12.8	II
TOC	mg/l							
DOC	mg/l							
pH		12	7.7	7.8	7.9	7.8	7.9	II
							7.7	II
Alkalinity	mmol/l	12	2.7	3.0	3.5	2.9	3.1	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.170	0.243	0.340	0.240	0.288	II
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.020	0.026	0.040	0.020	0.039	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.11	1.21	1.41	1.22	1.31	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.100	0.142	0.180	0.140	0.178	III
Total Phosphorus	mg/l	12	0.17	0.24	0.31	0.25	0.29	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	349	383	467	378	405	
Calcium (Ca ²⁺)	mg/l	12	62.4	65.0	72.0	64.8	67.2	
Sulphate (SO ₄ ²⁻)	mg/l	12	78	91	105	92	102	
Magnesium (Mg ²⁺)	mg/l	12	12.1	17.8	24.3	18.1	21.7	
Potassium (K ⁺)	mg/l	12	2.3	3.5	4.7	3.6	4.2	
Sodium (Na ⁺)	mg/l	12	13.3	19.1	31.1	18.9	21.7	
Manganese (Mn)	mg/l	11	0.023	0.107	0.175	0.109	0.169	
Iron (Fe)	mg/l	11	0.119	0.651	1.496	0.562	1.457	
Chloride (Cl)	mg/l	12	17	30	50	31	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	11	< 10.0	65.2	233.0	43.0	165.0	III
Copper (Cu)	µg/l	11	3.58	7.86	22.68	5.21	10.94	II
Chromium (Cr) - total	µg/l	11	1.02	3.65	9.56	2.06	8.15	II
Lead (Pb)	µg/l	11	0.71	3.40	7.08	3.19	5.63	III
Cadmium (Cd)	µg/l	10	0.13	1.46	8.02	0.52	2.52	V
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	11	2.88	5.19	7.78	5.13	7.52	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	< 0.005	< 0.005	< 0.005	0.005	0.005	
Anionic active surfactants	mg/l	3	0.035	0.037	0.039			
AOX	µg/l							
Petroleum hydrocarbons	mg/l	3	< 0.010	< 0.010	< 0.010			
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	10	< 0.002	0.049	0.244	0.029	0.077	IV
pp DDT	µg/l	3	< 0.001	0.014	0.024			IV
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	6	0.200	11.167	16.000	16.000	16.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	6	0.078	2.990	16.000	0.185	8.700	
Faecal Streptococci	10 ³ CFU/100 ml	6	0.040	0.091	0.170	0.077	0.155	
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 of II. quality class

River	Danube	Catchment	698600 km ²	RO04
Distance from the mouth [km]	375.0	Altitude	13 m	
Location	Chiciu/Silistra L			2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90	Class
Flow	m ³ /s	365	3162.0	6100.1	8960.0	6375.0	7950.2	
Temperature	°C	21	2.0	14.0	27.0	12.0	25.0	
Suspended Solids	mg/l	21	1	16	52	12	31	
Dissolved Oxygen	mg/l	21	5.4	8.5	12.0	9.2	6.2	II
BOD ₅	mg/l	20	1.0	3.1	4.8	3.1	4.6	II
COD _{Mn}	mg/l	15	3.2	4.2	6.4	4.0	5.3	II
COD _{Cr}	mg/l	20	12.0	29.6	46.0	30.0	36.5	III
TOC	mg/l							
DOC	mg/l							
pH		21	7.8	8.2	8.7	8.2	8.5	III
							7.9	II
Alkalinity	mmol/l	13	2.6	3.1	3.8	3.1	3.6	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	21	< 0.020	0.438	1.690	0.290	0.863	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	21	0.024	0.060	0.273	0.045	0.092	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	21	0.81	1.84	2.67	2.04	2.58	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	21	< 0.005	0.033	0.214	0.023	0.050	I
Total Phosphorus	mg/l	7	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	21	332	428	580	425	471	
Calcium (Ca ²⁺)	mg/l	13	19.4	41.3	73.9	39.4	52.9	
Sulphate (SO ₄ ²⁻)	mg/l	12	11	27	53	22	46	
Magnesium (Mg ²⁺)	mg/l	13	14.1	26.0	40.8	26.2	35.4	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	24	0.026	0.093	0.262	0.080	0.163	
Iron (Fe)	mg/l	24	0.056	0.471	1.279	0.399	0.883	
Chloride (Cl)	mg/l	15	21	33	57	30	40	
Zinc (Zn) - Dissolved	µg/l	2	26.0	41.5	57.0			III
Copper (Cu) - Dissolved	µg/l	2	8.61	10.41	12.20			III
Chromium (Cr) - Dissolved	µg/l	2	1.58	2.23	2.87			III
Lead (Pb) - Dissolved	µg/l	2	2.22	2.34	2.45			III
Cadmium (Cd) - Dissolved	µg/l	2	0.20	0.21	0.21			III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	2	2.67	3.20	3.72			III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	24	< 10.0	47.4	203.0	33.5	85.8	II
Copper (Cu)	µg/l	23	2.10	10.47	34.51	7.51	23.67	III
Chromium (Cr) - total	µg/l	24	1.09	3.30	13.32	1.85	8.19	II
Lead (Pb)	µg/l	24	1.22	5.46	15.72	3.60	12.34	IV
Cadmium (Cd)	µg/l	24	0.05	1.00	8.12	0.53	1.87	III
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	22	1.48	4.11	9.09	3.73	7.02	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	11	< 0.005	0.005	0.007	0.005	0.005	
Anionic active surfactants	mg/l	4	0.034	0.105	0.255	0.065	0.206	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	9	< 0.010	1.828	9.640	0.010	6.816	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	13	< 0.002	0.060	0.244	0.047	0.086	II
pp DDT	µg/l	2	0.023	0.026	0.029			IV
Atrazine	µg/l	1	0.056	0.056	0.056			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	1.600	10.620	16.000	16.000	16.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	5	0.002	0.545	2.200	0.210	1.428	
Faecal Streptococci	10 ³ CFU/100 ml	5	0.006	0.336	1.600	0.026	0.973	
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 of II. quality class

River	Danube	Catchment	698600	km ²	RO04
Distance from the mouth [km]	375.0	Altitude	13	m	
Location	Chiciu/Silistra M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90	Class
Flow	m3/s	365	3162.0	6100.1	8960.0	6375.0	7950.2	
Temperature	°C	21	2.0	13.8	26.0	12.0	25.0	
Suspended Solids	mg/l	21	1	13	56	10	22	
Dissolved Oxygen	mg/l	21	6.5	9.0	12.5	8.9	7.2	I
BOD ₅	mg/l	19	0.8	2.9	5.2	2.9	4.4	II
COD _{Mn}	mg/l	15	2.8	4.3	6.6	4.0	5.9	II
COD _{Cr}	mg/l	20	16.0	31.3	50.0	30.0	39.5	III
TOC	mg/l							
DOC	mg/l							
pH		21	7.9	8.2	8.7	8.3	8.4	II
							8.0	II
Alkalinity	mmol/l	13	2.3	3.0	4.0	3.0	3.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	21	< 0.020	0.395	1.390	0.209	0.805	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	21	0.017	0.047	0.122	0.038	0.074	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	21	0.87	1.85	2.75	1.89	2.68	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	21	< 0.005	0.043	0.289	0.027	0.072	II
Total Phosphorus	mg/l	7	0.02	0.09	0.19	0.09	0.19	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	21	359	437	742	420	500	
Calcium (Ca ²⁺)	mg/l	13	19.4	40.8	73.9	40.0	52.9	
Sulphate (SO ₄ ²⁻)	mg/l	12	13	25	54	20	48	
Magnesium (Mg ²⁺)	mg/l	13	12.5	26.4	40.8	24.3	37.6	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	24	0.033	0.111	0.334	0.083	0.243	
Iron (Fe)	mg/l	24	0.052	0.674	2.645	0.568	1.010	
Chloride (Cl)	mg/l	15	21	34	78	33	39	
Zinc (Zn) - Dissolved	µg/l	23	< 10.0	23.8	68.0	20.0	40.2	III
Copper (Cu) - Dissolved	µg/l	24	0.13	5.12	11.86	4.74	10.83	III
Chromium (Cr) - Dissolved	µg/l	24	0.15	0.87	2.41	0.67	1.58	II
Lead (Pb) - Dissolved	µg/l	24	< 0.10	1.06	3.27	0.78	2.28	III
Cadmium (Cd) - Dissolved	µg/l	21	< 0.05	0.18	0.51	0.11	0.41	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	20	0.10	1.19	2.31	1.17	1.74	III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	24	< 10.0	44.5	85.0	46.0	78.1	II
Copper (Cu)	µg/l	23	1.22	9.56	26.10	8.14	17.99	II
Chromium (Cr) - total	µg/l	24	0.44	3.47	10.57	2.87	7.89	II
Lead (Pb)	µg/l	23	1.07	4.60	15.94	3.27	8.70	III
Cadmium (Cd)	µg/l	24	0.07	0.63	2.15	0.46	1.39	III
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	22	1.11	3.96	13.12	2.63	8.07	II
Arsenic (As)	µg/l	1	0.10	0.10	0.10			II
Aluminium (Al)	µg/l							
Phenol index	mg/l	11	< 0.005	0.005	0.007	0.005	0.005	
Anionic active surfactants	mg/l	4	0.041	0.109	0.281	0.057	0.217	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	3	< 0.010	< 0.010	< 0.010			
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	14	< 0.002	0.035	0.051	0.036	0.049	I
pp'DDT	µg/l	4	0.001	0.006	0.014	0.005	0.012	III
Atrazine	µg/l	1	0.051	0.051	0.051			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	4.360	9.200	4.300	7.680	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	5	0.020	0.199	0.470	0.140	0.414	
Faecal Streptococci	10 ³ CFU/100 ml	5	0.007	0.123	0.540	0.011	0.343	
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 of II. quality class

River	Danube	Catchment	698600 km ²	RO04
Distance from the mouth [km]	375.0	Altitude	13 m	
Location	Chiciu/Silistra R			2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90	Class
Flow	m3/s	365	3162.0	6100.1	8960.0	6375.0	7950.2	
Temperature	°C	21	2.0	14.0	27.0	12.0	25.0	
Suspended Solids	mg/l	21	1	14	37	12	27	
Dissolved Oxygen	mg/l	21	6.1	8.9	11.8	8.7	6.8	II
BOD ₅	mg/l	19	1.1	2.2	4.3	2.1	3.7	II
COD _{Mn}	mg/l	15	3.1	3.9	6.4	3.7	4.5	I
COD _{Cr}	mg/l	20	16.0	30.6	48.0	30.0	38.8	III
TOC	mg/l							
DOC	mg/l							
pH		21	8.0	8.3	8.7	8.3	8.5	III
							8.0	II
Alkalinity	mmol/l	13	2.4	3.1	3.8	3.0	3.4	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	21	< 0.020	0.356	1.560	0.174	0.783	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	21	0.010	0.038	0.074	0.034	0.054	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	21	0.93	1.85	2.75	2.10	2.66	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	21	< 0.005	0.032	0.212	0.021	0.056	II
Total Phosphorus	mg/l	7	0.03	0.09	0.17	0.10	0.15	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	21	359	416	527	403	502	
Calcium (Ca ²⁺)	mg/l	13	19.4	39.7	73.9	36.6	52.3	
Sulphate (SO ₄ ²⁻)	mg/l	12	11	24	47	23	44	
Magnesium (Mg ²⁺)	mg/l	13	12.2	24.9	40.1	24.3	35.8	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	24	0.027	0.079	0.182	0.072	0.139	
Iron (Fe)	mg/l	24	0.064	0.686	6.130	0.420	1.117	
Chloride (Cl)	mg/l	15	21	30	43	28	36	
Zinc (Zn) - Dissolved	µg/l	2	10.0	14.5	19.0			III
Copper (Cu) - Dissolved	µg/l	2	6.32	8.24	10.16			III
Chromium (Cr) - Dissolved	µg/l	2	1.14	1.65	2.16			III
Lead (Pb) - Dissolved	µg/l	2	3.47	5.32	7.16			III
Cadmium (Cd) - Dissolved	µg/l	2	0.32	0.34	0.36			III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	2	0.69	1.45	2.21			III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	24	< 10.0	43.4	354.0	31.0	66.7	II
Copper (Cu)	µg/l	23	1.49	9.66	23.38	7.72	17.74	II
Chromium (Cr) - total	µg/l	24	0.91	3.55	17.87	1.40	8.88	II
Lead (Pb)	µg/l	24	1.08	4.52	10.68	3.87	8.96	III
Cadmium (Cd)	µg/l	24	0.14	0.51	1.40	0.45	0.95	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	22	1.09	3.71	7.93	3.46	5.54	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	11	< 0.005	0.005	0.006	0.005	0.005	
Anionic active surfactants	mg/l	4	0.038	0.122	0.272	0.089	0.229	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	4	< 0.010	1.095	4.350	0.010	3.048	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	13	< 0.002	0.035	0.084	0.029	0.065	II
pp DDT	µg/l	3	0.001	0.005	0.013			III
Atrazine	µg/l	1	0.065	0.065	0.065			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	0.140	1.834	5.400	1.700	3.920	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	5	0.043	0.129	0.340	0.078	0.260	
Faecal Streptococci	10 ³ CFU/100 ml	5	0.011	0.026	0.070	0.017	0.050	
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 of II. quality class

River	Danube	Catchment	805700	km ²	RO05
Distance from the mouth [km]	132.0	Altitude	4	m	
Location	Reni - Chilia/Kilia arm L				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90	Class
Flow	m3/s	365	3850.0	6837.1	9400.0	7210.0	8710.0	
Temperature	°C	20	0.0	15.4	26.5	18.8	22.4	
Suspended Solids	mg/l	21	2	23	98	17	37	
Dissolved Oxygen	mg/l	21	5.3	8.9	12.6	8.9	6.9	II
BOD ₅	mg/l	19	0.7	1.7	3.3	1.7	2.3	I
COD _{Mn}	mg/l	11	2.8	4.1	6.5	3.9	5.1	II
COD _{Cr}	mg/l	20	12.0	28.6	43.0	30.0	35.5	III
TOC	mg/l							
DOC	mg/l							
pH		21	6.9	8.1	8.7	8.2	8.5	II
							7.2	II
Alkalinity	mmol/l	11	1.9	2.9	3.8	3.0	3.7	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	21	< 0.020	0.352	1.920	0.132	1.040	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	21	0.008	0.055	0.169	0.036	0.115	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	21	0.89	1.86	3.00	1.89	2.46	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	21	< 0.005	0.030	0.181	0.025	0.036	I
Total Phosphorus	mg/l	7	0.01	0.05	0.09	0.06	0.08	I
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	21	350	435	558	419	530	
Calcium (Ca ²⁺)	mg/l	11	31.1	45.0	73.9	44.1	55.0	
Sulphate (SO ₄ ²⁻)	mg/l	12	13	29	59	24	49	
Magnesium (Mg ²⁺)	mg/l	11	14.1	23.2	42.5	21.8	26.5	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	23	0.015	0.085	0.211	0.085	0.137	
Iron (Fe)	mg/l	23	0.066	0.628	1.796	0.509	1.017	
Chloride (Cl)	mg/l	13	21	36	50	36	43	
Zinc (Zn) - Dissolved	µg/l	2	15.0	23.5	32.0			III
Copper (Cu) - Dissolved	µg/l	2	5.02	6.60	8.17			III
Chromium (Cr) - Dissolved	µg/l	2	1.11	1.18	1.24			II
Lead (Pb) - Dissolved	µg/l	2	2.59	4.36	6.13			III
Cadmium (Cd) - Dissolved	µg/l	2	0.21	0.31	0.41			III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	2	0.36	0.97	1.58			III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	23	< 10.0	58.4	527.0	38.0	83.0	II
Copper (Cu)	µg/l	22	4.11	10.56	32.15	8.35	19.27	II
Chromium (Cr) - total	µg/l	23	0.45	3.08	8.68	1.95	7.32	II
Lead (Pb)	µg/l	23	0.53	4.14	17.02	3.12	7.92	III
Cadmium (Cd)	µg/l	23	< 0.05	0.58	2.77	0.43	0.99	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	21	1.85	3.70	7.61	3.95	5.16	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	9	< 0.005	< 0.005	< 0.005	0.005	0.005	
Anionic active surfactants	mg/l	6	< 0.025	0.060	0.192	0.025	0.131	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	11	< 0.010	1.150	4.520	0.820	1.880	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	17	< 0.002	0.034	0.096	0.024	0.063	II
pp DDT	µg/l	1	0.030	0.030	0.030			IV
Atrazine	µg/l	2	0.068	0.081	0.093			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	7	0.026	3.152	16.000	0.170	9.640	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	5	0.020	1.092	5.100	0.110	3.144	
Faecal Streptococci	10 ³ CFU/100 ml	7	0.002	0.017	0.070	0.009	0.040	
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 of II. quality class

River	Danube	Catchment	805700	km ²	RO05
Distance from the mouth [km]	132.0	Altitude	4	m	
Location	Reni - Chilia/Kilia arm M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90	Class
Flow	m ³ /s	365	3850.0	6837.1	9400.0	7210.0	8710.0	
Temperature	°C	20	0.0	15.4	26.5	18.8	22.4	
Suspended Solids	mg/l	21	4	24	115	17	31	
Dissolved Oxygen	mg/l	21	5.1	8.7	12.8	8.5	6.6	II
BOD ₅	mg/l	19	1.0	1.7	2.9	1.7	2.2	I
COD _{Mn}	mg/l	11	2.8	3.7	4.6	3.7	4.3	I
COD _{Cr}	mg/l	19	14.0	28.3	44.0	30.0	37.3	III
TOC	mg/l							
DOC	mg/l							
pH		21	7.5	8.2	8.7	8.2	8.6	III
							8.0	II
Alkalinity	mmol/l	11	1.9	2.9	3.8	2.9	3.7	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	21	< 0.020	0.332	1.280	0.147	0.777	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	21	0.008	0.052	0.205	0.033	0.112	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	21	0.76	1.92	2.82	1.79	2.66	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	21	< 0.005	0.019	0.048	0.018	0.035	I
Total Phosphorus	mg/l	7	0.03	0.05	0.08	0.04	0.07	I
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	21	366	428	524	417	515	
Calcium (Ca ²⁺)	mg/l	11	31.1	45.7	73.9	40.0	62.8	
Sulphate (SO ₄ ²⁻)	mg/l	12	11	25	46	20	43	
Magnesium (Mg ²⁺)	mg/l	11	9.7	23.6	42.5	21.8	30.8	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	23	0.031	0.129	0.580	0.117	0.185	
Iron (Fe)	mg/l	23	0.123	0.723	1.981	0.656	1.288	
Chloride (Cl)	mg/l	13	27	34	43	34	36	
Zinc (Zn) - Dissolved	µg/l	23	< 10.0	23.3	53.0	24.0	44.4	III
Copper (Cu) - Dissolved	µg/l	23	0.95	4.68	13.57	3.82	6.83	III
Chromium (Cr) - Dissolved	µg/l	23	0.05	0.77	2.09	0.70	1.50	II
Lead (Pb) - Dissolved	µg/l	23	< 0.10	1.31	5.98	0.96	2.07	III
Cadmium (Cd) - Dissolved	µg/l	21	< 0.05	0.14	0.39	0.09	0.29	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	19	0.46	1.30	2.76	1.23	2.37	III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	23	< 10.0	45.2	208.0	36.0	74.0	II
Copper (Cu)	µg/l	22	1.99	9.88	19.73	9.07	14.83	II
Chromium (Cr) - total	µg/l	23	0.41	2.56	7.33	2.39	4.34	II
Lead (Pb)	µg/l	23	0.84	4.11	19.90	2.17	8.87	III
Cadmium (Cd)	µg/l	23	0.16	0.44	0.83	0.45	0.63	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	21	1.15	4.55	12.60	3.74	7.48	II
Arsenic (As)	µg/l	1	0.10	0.10	0.10			II
Aluminium (Al)	µg/l							
Phenol index	mg/l	10	< 0.005	< 0.005	< 0.005	0.005	0.005	
Anionic active surfactants	mg/l	6	< 0.025	0.059	0.173	0.025	0.126	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	2	< 0.010	< 0.010	< 0.010			
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	16	< 0.002	0.033	0.087	0.035	0.062	II
pp DDT	µg/l	3	0.006	0.016	0.033			IV
Atrazine	µg/l	2	0.078	0.083	0.088			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	7	0.045	3.195	16.000	0.140	8.500	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	6	0.004	1.599	9.200	0.080	4.705	
Faecal Streptococci	10 ³ CFU/100 ml	7	0.002	0.011	0.031	0.006	0.024	
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 of II. quality class

River	Danube	Catchment	805700	km ²	RO05
Distance from the mouth [km]	132.0	Altitude	4	m	
Location	Reni - Chilia/Kilia arm R				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90	Class
Flow	m ³ /s	365	3850.0	6837.1	9400.0	7210.0	8710.0	
Temperature	°C	20	0.0	15.4	26.5	18.8	22.4	
Suspended Solids	mg/l	21	3	22	101	17	35	
Dissolved Oxygen	mg/l	21	5.5	8.8	12.5	8.7	6.7	II
BOD ₅	mg/l	19	1.0	1.7	3.3	1.5	2.4	I
COD _{Mn}	mg/l	11	2.8	3.7	4.6	3.5	4.3	I
COD _{Cr}	mg/l	19	14.0	28.5	46.0	30.0	35.3	III
TOC	mg/l							
DOC	mg/l							
pH		21	6.4	8.0	8.7	8.2	8.5	III
							7.4	II
Alkalinity	mmol/l	11	1.9	2.9	3.8	3.1	3.7	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	21	< 0.020	0.388	1.230	0.170	1.030	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	21	0.014	0.061	0.170	0.038	0.134	IV
Nitrate-N (NO ₃ ⁻ -N)	mg/l	21	0.74	1.86	2.74	1.78	2.62	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	21	< 0.005	0.021	0.048	0.018	0.042	I
Total Phosphorus	mg/l	7	0.01	0.05	0.10	0.04	0.08	I
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	21	370	431	545	418	516	
Calcium (Ca ²⁺)	mg/l	11	31.1	45.0	70.0	43.2	58.9	
Sulphate (SO ₄ ²⁻)	mg/l	12	14	26	47	24	42	
Magnesium (Mg ²⁺)	mg/l	11	14.1	23.2	42.5	21.4	31.1	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	23	0.027	0.118	0.870	0.078	0.174	
Iron (Fe)	mg/l	23	0.138	0.512	1.068	0.494	0.872	
Chloride (Cl)	mg/l	13	20	33	50	34	40	
Zinc (Zn) - Dissolved	µg/l	2	25.0	30.5	36.0			III
Copper (Cu) - Dissolved	µg/l	2	10.79	13.74	16.69			III
Chromium (Cr) - Dissolved	µg/l	2	1.10	1.20	1.29			II
Lead (Pb) - Dissolved	µg/l	2	2.84	3.58	4.31			III
Cadmium (Cd) - Dissolved	µg/l	2	0.28	0.29	0.30			III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	2	0.47	0.70	0.92			II
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	23	< 10.0	68.4	707.0	31.0	76.2	II
Copper (Cu)	µg/l	22	3.99	9.94	21.86	7.53	18.69	II
Chromium (Cr) - total	µg/l	23	0.41	4.07	43.76	1.91	5.43	II
Lead (Pb)	µg/l	23	0.37	4.96	21.15	2.66	13.37	IV
Cadmium (Cd)	µg/l	23	0.14	0.52	1.15	0.38	1.02	III
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	21	0.82	3.92	9.09	3.10	7.46	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	10	< 0.005	< 0.005	< 0.005	0.005	0.005	
Anionic active surfactants	mg/l	6	< 0.025	0.074	0.176	0.025	0.171	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	2	< 0.010	< 0.010	< 0.010			
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	14	< 0.002	0.048	0.193	0.037	0.090	II
pp'DDT	µg/l	2	0.007	0.010	0.012			III
Atrazine	µg/l	2	0.068	0.093	0.117			III
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	0.000	2.533	16.000	0.154	7.320	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	6	0.000	0.433	2.200	0.075	1.215	
Faecal Streptococci	10 ³ CFU/100 ml	8	0.000	0.022	0.130	0.005	0.053	
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 of II. quality class

River	Danube	Catchment	817000	km ²	RO06
Distance from the mouth [km]	18.0	Altitude	1	m	
Location	Vilkova - Chilia arm/Kilia arm L				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90	Class
Flow	m ³ /s	365	1830.0	3329.6	5160.0	3440.0	4336.0	
Temperature	°C	9	4.0	15.8	26.5	19.0	22.9	
Suspended Solids	mg/l	10	3	22	59	18	38	
Dissolved Oxygen	mg/l	10	5.6	8.3	10.9	8.1	6.5	III
BOD ₅	mg/l	10	1.2	1.7	3.3	1.4	2.3	II
COD _{Mn}	mg/l	8	2.6	4.3	9.9	3.6	6.0	II
COD _{Cr}	mg/l	9	21.8	30.4	40.0	30.0	34.1	III
TOC	mg/l							
DOC	mg/l							
pH		10	7.5	8.0	8.4	8.0	8.4	II
							7.7	II
Alkalinity	mmol/l	10	2.4	3.0	3.7	3.0	3.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	10	< 0.020	0.183	0.909	0.104	0.292	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	10	0.017	0.057	0.139	0.052	0.090	IV
Nitrate-N (NO ₃ ⁻ -N)	mg/l	10	0.95	1.73	2.63	1.78	2.44	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	9	0.007	0.034	0.078	0.030	0.060	II
Total Phosphorus	mg/l	3	0.08	0.12	0.20			III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	10	392	425	501	411	467	
Calcium (Ca ²⁺)	mg/l	10	19.8	44.1	62.8	43.2	60.3	
Sulphate (SO ₄ ²⁻)	mg/l	10	13	26	48	23	44	
Magnesium (Mg ²⁺)	mg/l	10	14.3	25.4	35.7	25.2	34.0	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	10	0.032	0.078	0.184	0.062	0.146	
Iron (Fe)	mg/l	10	0.160	0.460	1.000	0.306	0.959	
Chloride (Cl)	mg/l	10	20	31	47	31	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	10	< 10.0	103.2	815.0	19.0	148.1	V
Copper (Cu)	µg/l	10	3.54	7.45	12.68	6.85	10.35	II
Chromium (Cr) - total	µg/l	10	0.59	2.00	4.29	1.54	3.90	II
Lead (Pb)	µg/l	10	0.44	2.69	6.32	2.44	5.91	III
Cadmium (Cd)	µg/l	10	0.13	0.42	1.55	0.29	0.60	III
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	9	1.97	4.34	8.84	3.18	8.68	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	8	< 0.005	< 0.005	< 0.005	0.005	0.005	
Anionic active surfactants	mg/l							
AOX	µg/l							
Petroleum hydrocarbons	mg/l	8	< 0.010	5.506	35.300	0.010	14.622	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	6	0.025	0.047	0.073	0.044	0.071	II
pp DDT	µg/l							
Atrazine	µg/l	1	0.078	0.078	0.078			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	1	0.020	0.020	0.020			
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml	1	0.004	0.004	0.004			
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 of II. quality class

River	Danube	Catchment	817000	km ²	RO06
Distance from the mouth [km]	18.0	Altitude	1	m	
Location	Vilkova - Chilia arm/Kilia arm M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90	Class
Flow	m ³ /s	365	1830.0	3329.6	5160.0	3440.0	4336.0	
Temperature	°C	9	4.0	15.8	26.5	19.0	22.9	
Suspended Solids	mg/l	10	11	19	37	18	32	
Dissolved Oxygen	mg/l	10	5.3	8.3	11.1	8.0	6.0	III
BOD ₅	mg/l	10	1.2	1.8	2.9	1.7	2.8	I
COD _{Mn}	mg/l	8	3.0	4.5	10.3	3.7	6.2	III
COD _{Cr}	mg/l	9	20.0	31.4	44.0	30.0	39.2	III
TOC	mg/l							
DOC	mg/l							
pH		10	6.7	7.8	8.5	8.0	8.4	III
							7.0	II
Alkalinity	mmol/l	10	2.6	3.0	3.7	3.0	3.3	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	10	0.052	0.303	1.020	0.145	0.801	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	10	0.013	0.044	0.085	0.046	0.061	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	10	1.12	1.82	2.52	1.91	2.38	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	10	< 0.005	0.022	0.041	0.021	0.040	I
Total Phosphorus	mg/l	3	0.03	0.06	0.09			I
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	10	386	433	524	424	466	
Calcium (Ca ²⁺)	mg/l	10	19.8	44.5	60.0	45.1	59.0	
Sulphate (SO ₄ ²⁻)	mg/l	10	14	26	50	22	41	
Magnesium (Mg ²⁺)	mg/l	10	16.5	24.9	33.8	24.3	33.4	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	10	0.043	0.107	0.336	0.078	0.192	
Iron (Fe)	mg/l	10	0.179	0.632	2.466	0.406	1.295	
Chloride (Cl ⁻)	mg/l	10	27	34	43	34	42	
Zinc (Zn) - Dissolved	µg/l	10	< 10.0	14.7	22.0	13.0	20.2	III
Copper (Cu) - Dissolved	µg/l	10	0.77	3.10	6.49	2.98	6.25	III
Chromium (Cr) - Dissolved	µg/l	10	0.07	0.61	1.71	0.53	0.95	II
Lead (Pb) - Dissolved	µg/l	10	0.05	1.01	1.93	0.92	1.71	III
Cadmium (Cd) - Dissolved	µg/l	9	< 0.05	0.08	0.17	0.08	0.15	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	8	0.33	1.43	2.48	1.59	2.11	III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	10	< 10.0	27.0	69.0	22.0	49.2	II
Copper (Cu)	µg/l	10	3.44	8.53	18.18	8.41	10.49	II
Chromium (Cr) - total	µg/l	10	0.62	2.36	4.79	2.13	3.73	II
Lead (Pb)	µg/l	10	0.68	3.52	8.70	3.06	5.29	III
Cadmium (Cd)	µg/l	10	0.10	0.41	0.94	0.35	0.84	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	9	1.25	5.25	21.32	3.61	8.14	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	8	< 0.005	0.005	0.008	0.005	0.006	
Anionic active surfactants	mg/l							
AOX	µg/l							
Petroleum hydrocarbons	mg/l	2	< 0.010	< 0.010	< 0.010			
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	6	< 0.002	0.043	0.104	0.034	0.083	III
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 of II. quality class

River	Danube	Catchment	817000	km ²	RO06
Distance from the mouth [km]	18.0	Altitude	1	m	
Location	Vilkova - Chilia arm/Kilia arm R				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90	Class
Flow	m ³ /s	365	1830.0	3329.6	5160.0	3440.0	4336.0	
Temperature	°C	9	4.0	15.8	26.5	19.0	22.9	
Suspended Solids	mg/l	10	8	28	65	21	54	
Dissolved Oxygen	mg/l	10	5.4	8.3	10.8	8.1	6.2	III
BOD ₅	mg/l	10	1.1	1.7	3.0	1.6	2.3	I
COD _{Mn}	mg/l	9	3.0	4.3	10.2	3.6	5.2	III
COD _{Cr}	mg/l	9	20.0	30.1	42.0	30.0	37.2	III
TOC	mg/l							
DOC	mg/l							
pH		10	7.2	7.9	8.4	8.0	8.3	II
							7.3	II
Alkalinity	mmol/l	10	2.2	2.9	3.7	3.0	3.1	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	10	< 0.020	0.246	0.792	0.146	0.687	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	10	0.014	0.038	0.070	0.031	0.068	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	10	1.23	1.84	2.79	1.83	2.37	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	10	< 0.005	0.023	0.049	0.024	0.041	I
Total Phosphorus	mg/l	3	0.02	0.07	0.10			II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	10	387	435	545	419	489	
Calcium (Ca ²⁺)	mg/l	10	19.8	42.5	58.9	41.4	56.4	
Sulphate (SO ₄ ²⁻)	mg/l	10	17	29	46	29	43	
Magnesium (Mg ²⁺)	mg/l	10	16.5	25.7	33.3	24.7	31.6	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	10	0.033	0.078	0.156	0.073	0.125	
Iron (Fe)	mg/l	10	0.115	0.632	2.185	0.328	1.187	
Chloride (Cl)	mg/l	10	20	34	47	35	43	
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	10	< 10.0	46.4	246.0	25.5	68.7	IV
Copper (Cu)	µg/l	10	3.12	7.62	12.60	7.72	10.21	II
Chromium (Cr) - total	µg/l	10	0.93	1.89	3.20	1.61	2.85	II
Lead (Pb)	µg/l	10	0.70	3.31	8.43	3.02	5.07	III
Cadmium (Cd)	µg/l	10	0.12	0.35	0.65	0.34	0.54	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	9	0.88	3.21	9.26	2.64	4.90	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	8	< 0.005	< 0.005	< 0.005	0.005	0.005	
Anionic active surfactants	mg/l							
AOX	µg/l							
Petroleum hydrocarbons	mg/l	2	< 0.010	< 0.010	< 0.010			
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	8	0.022	0.046	0.078	0.042	0.070	II
pp DDT	µg/l	3	0.001	0.060	0.152			V
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	1	0.110	0.110	0.110			
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	1	0.020	0.020	0.020			
Faecal Streptococci	10 ³ CFU/100 ml	1	0.017	0.017	0.017			
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 of II. quality class

River	Danube	Catchment	817000	km ²	RO07
Distance from the mouth [km]	0.0	Altitude	1	m	
Location	Sulina - Sulina arm L				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90	Class
Flow	m3/s	365	656.0	1507.7	2520.0	1520.0	1850.0	
Temperature	°C	9	3.5	15.3	26.0	19.0	22.8	
Suspended Solids	mg/l	11	4	23	52	20	42	
Dissolved Oxygen	mg/l	11	5.5	8.6	11.5	7.9	6.6	II
BOD ₅	mg/l	11	1.0	1.9	3.3	1.9	2.7	I
COD _{Mn}	mg/l	11	2.7	4.9	14.0	4.1	7.2	II
COD _{Cr}	mg/l	10	15.0	29.7	40.1	30.0	39.1	III
TOC	mg/l							
DOC	mg/l							
pH		11	6.9	7.9	8.7	8.0	8.4	II
							7.6	II
Alkalinity	mmol/l	11	2.4	3.0	4.7	3.0	3.2	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	11	< 0.020	0.396	1.300	0.363	0.770	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	11	0.018	0.089	0.251	0.053	0.221	IV
Nitrate-N (NO ₃ ⁻ -N)	mg/l	11	0.61	1.63	2.57	1.60	2.29	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	11	< 0.005	0.017	0.029	0.018	0.026	I
Total Phosphorus	mg/l	4	0.01	0.04	0.07	0.04	0.07	I
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	11	383	435	517	441	505	
Calcium (Ca ²⁺)	mg/l	11	31.4	45.7	62.9	43.2	60.0	
Sulphate (SO ₄ ²⁻)	mg/l	10	15	27	52	25	41	
Magnesium (Mg ²⁺)	mg/l	11	11.9	24.0	44.7	21.6	33.3	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	12	0.030	0.089	0.206	0.090	0.115	
Iron (Fe)	mg/l	12	0.157	0.644	1.939	0.555	1.116	
Chloride (Cl)	mg/l	11	22	32	43	34	37	
Zinc (Zn) - Dissolved	µg/l	1	60.0	60.0	60.0			III
Copper (Cu) - Dissolved	µg/l	1	6.60	6.60	6.60			III
Chromium (Cr) - Dissolved	µg/l	1	1.44	1.44	1.44			II
Lead (Pb) - Dissolved	µg/l	1	8.67	8.67	8.67			III
Cadmium (Cd) - Dissolved	µg/l	1	0.52	0.52	0.52			III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	1	2.06	2.06	2.06			III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	12	< 10.0	149.8	1054.0	68.5	190.6	III
Copper (Cu)	µg/l	12	4.21	10.64	37.81	6.67	16.07	II
Chromium (Cr) - total	µg/l	12	0.97	3.17	12.46	2.20	4.48	II
Lead (Pb)	µg/l	12	0.58	4.38	13.03	3.46	9.82	III
Cadmium (Cd)	µg/l	12	0.12	0.45	1.26	0.32	0.81	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	11	1.24	4.08	7.07	4.76	6.04	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	7	< 0.005	< 0.005	< 0.005	0.005	0.005	
Anionic active surfactants	mg/l							
AOX	µg/l							
Petroleum hydrocarbons	mg/l	8	< 0.010	3.768	16.400	0.299	10.065	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	10	< 0.002	0.032	0.078	0.023	0.065	II
pp'DDT	µg/l	2	0.004	0.014	0.023			IV
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	1	0.130	0.130	0.130			
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	1	0.040	0.040	0.040			
Faecal Streptococci	10 ³ CFU/100 ml	1	0.006	0.006	0.006			
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 of II. quality class

River	Danube	Catchment	817000	km ²	RO07
Distance from the mouth [km]	0.0	Altitude	1	m	
Location	Sulina - Sulina arm M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90	Class
Flow	m3/s	365	656.0	1507.7	2520.0	1520.0	1850.0	
Temperature	°C	9	3.5	15.3	26.0	19.0	22.8	
Suspended Solids	mg/l	11	5	24	54	19	53	
Dissolved Oxygen	mg/l	11	5.6	8.5	11.3	7.8	6.5	II
BOD ₅	mg/l	11	1.1	1.8	3.0	1.6	2.6	I
COD _{Mn}	mg/l	11	3.0	4.8	13.6	3.7	7.0	II
COD _{Cr}	mg/l	10	16.0	28.3	35.7	30.0	35.1	III
TOC	mg/l							
DOC	mg/l							
pH		11	6.5	7.8	8.7	7.9	8.3	II
							7.2	II
Alkalinity	mmol/l	11	2.4	2.9	3.7	3.0	3.4	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	11	< 0.020	0.336	1.030	0.132	0.940	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	11	0.016	0.094	0.234	0.066	0.164	IV
Nitrate-N (NO ₃ ⁻ -N)	mg/l	11	0.32	1.64	2.69	1.67	2.47	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	11	0.005	0.023	0.055	0.020	0.037	I
Total Phosphorus	mg/l	4	0.02	0.08	0.16	0.06	0.14	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	11	390	437	524	431	507	
Calcium (Ca ²⁺)	mg/l	11	35.0	47.8	62.9	47.6	60.0	
Sulphate (SO ₄ ²⁻)	mg/l	10	14	27	51	22	48	
Magnesium (Mg ²⁺)	mg/l	11	11.9	23.6	44.7	21.6	33.3	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	12	0.042	0.095	0.143	0.102	0.138	
Iron (Fe)	mg/l	11	0.155	0.614	1.102	0.602	1.016	
Chloride (Cl ⁻)	mg/l	11	21	33	43	34	40	
Zinc (Zn) - Dissolved	µg/l	12	< 10.0	20.4	45.0	20.0	29.9	III
Copper (Cu) - Dissolved	µg/l	12	0.69	4.68	10.84	3.32	10.54	III
Chromium (Cr) - Dissolved	µg/l	12	0.05	0.81	1.88	0.80	1.59	II
Lead (Pb) - Dissolved	µg/l	12	0.05	1.73	9.30	1.12	1.86	III
Cadmium (Cd) - Dissolved	µg/l	11	< 0.05	0.13	0.43	0.10	0.21	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	10	0.50	1.12	2.19	0.91	1.96	III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	12	< 10.0	56.6	181.0	44.0	94.6	II
Copper (Cu)	µg/l	12	3.01	9.47	33.55	7.79	13.49	II
Chromium (Cr) - total	µg/l	12	0.58	4.54	34.29	2.01	3.13	II
Lead (Pb)	µg/l	12	0.83	3.06	11.10	2.36	4.00	II
Cadmium (Cd)	µg/l	12	0.05	0.28	0.57	0.28	0.37	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	11	1.05	3.39	5.94	3.03	5.43	II
Arsenic (As)	µg/l	1	0.62	0.62	0.62			II
Aluminium (Al)	µg/l							
Phenol index	mg/l	7	< 0.005	< 0.005	< 0.005	0.005	0.005	
Anionic active surfactants	mg/l							
AOX	µg/l							
Petroleum hydrocarbons	mg/l	3	< 0.010	< 0.010	< 0.010			
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	9	< 0.002	0.031	0.065	0.029	0.059	II
pp DDT	µg/l	1	0.076	0.076	0.076			V
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	1	0.130	0.130	0.130			
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	1	0.060	0.060	0.060			
Faecal Streptococci	10 ³ CFU/100 ml	1	0.023	0.023	0.023			
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 of II. quality class

River	Danube	Catchment	817000	km ²	RO07
Distance from the mouth [km]	0.0	Altitude	1	m	
Location	Sulina - Sulina arm R				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90	Class
Flow	m ³ /s	365	656.0	1507.7	2520.0	1520.0	1850.0	
Temperature	°C	9	3.5	15.4	26.0	19.0	22.8	
Suspended Solids	mg/l	11	7	22	48	18	45	
Dissolved Oxygen	mg/l	11	5.8	8.5	11.4	8.0	6.6	II
BOD ₅	mg/l	11	1.2	1.9	3.2	1.8	2.8	I
COD _{Mn}	mg/l	11	2.8	3.9	7.0	3.9	4.3	I
COD _{Cr}	mg/l	10	18.0	28.9	36.0	30.0	34.9	III
TOC	mg/l							
DOC	mg/l							
pH		11	6.7	7.8	8.7	7.8	8.4	II
							7.3	II
Alkalinity	mmol/l	11	2.6	3.1	3.9	3.1	3.2	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	11	< 0.020	0.348	1.020	0.196	0.980	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	11	0.014	0.046	0.084	0.047	0.074	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	11	1.15	1.74	2.65	1.60	2.30	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	11	< 0.005	0.046	0.290	0.013	0.066	II
Total Phosphorus	mg/l	4	0.02	0.07	0.19	0.05	0.15	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	11	385	437	536	423	506	
Calcium (Ca ²⁺)	mg/l	11	31.1	44.6	62.9	43.6	56.1	
Sulphate (SO ₄ ²⁻)	mg/l	10	14	26	57	23	36	
Magnesium (Mg ²⁺)	mg/l	11	9.4	23.8	44.9	23.8	30.8	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	12	0.027	0.090	0.218	0.080	0.145	
Iron (Fe)	mg/l	12	0.125	0.607	1.309	0.533	0.987	
Chloride (Cl)	mg/l	11	27	34	43	34	40	
Zinc (Zn) - Dissolved	µg/l	1	82.0	82.0	82.0			III
Copper (Cu) - Dissolved	µg/l	1	5.48	5.48	5.48			III
Chromium (Cr) - Dissolved	µg/l	1	2.13	2.13	2.13			III
Lead (Pb) - Dissolved	µg/l	1	6.10	6.10	6.10			III
Cadmium (Cd) - Dissolved	µg/l	1	0.71	0.71	0.71			III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	1	1.94	1.94	1.94			III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	12	< 10.0	43.4	136.0	29.0	98.7	II
Copper (Cu)	µg/l	12	3.10	6.60	19.60	5.08	10.13	II
Chromium (Cr) - total	µg/l	12	0.63	2.83	6.15	2.50	5.72	II
Lead (Pb)	µg/l	12	0.42	3.86	13.18	2.40	9.81	III
Cadmium (Cd)	µg/l	12	0.07	0.34	0.98	0.23	0.70	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	11	2.27	3.17	5.13	2.99	4.37	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	7	< 0.005	< 0.005	< 0.005	0.005	0.005	
Anionic active surfactants	mg/l							
AOX	µg/l							
Petroleum hydrocarbons	mg/l	3	< 0.010	< 0.010	< 0.010			
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	9	< 0.002	0.041	0.098	0.039	0.081	II
pp DDT	µg/l	2	0.001	0.013	0.024			IV
Atrazine	µg/l	1	0.073	0.073	0.073			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	1	0.230	0.230	0.230			
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	1	0.020	0.020	0.020			
Faecal Streptococci	10 ³ CFU/100 ml	1	0.070	0.070	0.070			
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 of II. quality class

River	Danube	Catchment	817000	km ²	RO08
Distance from the mouth [km]	0.0	Altitude	1	m	
Location	Sf.Gheorghe - Ghorghe arm L				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90	Class
Flow	m ³ /s	365	163.0	1752.7	2480.0	1860.0	2260.0	
Temperature	°C	9	3.5	15.8	26.5	18.5	22.9	
Suspended Solids	mg/l	10	8	25	87	19	39	
Dissolved Oxygen	mg/l	10	6.1	8.2	10.8	7.6	6.3	II
BOD ₅	mg/l	10	1.0	1.9	3.7	1.8	2.5	II
COD _{Mn}	mg/l	10	2.7	4.2	6.7	4.0	5.4	II
COD _{Cr}	mg/l	9	19.5	29.4	38.6	30.0	37.2	III
TOC	mg/l							
DOC	mg/l							
pH		10	7.3	8.0	8.7	8.1	8.4	III
Alkalinity	mmol/l	10	2.6	3.0	3.2	3.1	3.2	II
Ammonium-N (NH ₄ ⁺ -N)	mg/l	10	< 0.020	0.302	0.995	0.188	0.793	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	10	0.011	0.064	0.172	0.052	0.128	IV
Nitrate-N (NO ₃ ⁻ -N)	mg/l	10	0.99	1.58	2.54	1.41	2.13	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	10	< 0.005	0.021	0.046	0.015	0.038	I
Total Phosphorus	mg/l	3	0.01	0.07	0.12			II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	10	389	429	500	412	480	
Calcium (Ca ²⁺)	mg/l	10	27.6	44.7	60.0	44.9	55.5	
Sulphate (SO ₄ ²⁻)	mg/l	9	14	27	64	25	37	
Magnesium (Mg ²⁺)	mg/l	10	16.5	22.7	28.9	21.8	28.6	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	11	0.046	0.068	0.117	0.065	0.077	
Iron (Fe)	mg/l	11	0.205	0.496	0.957	0.415	0.815	
Chloride (Cl)	mg/l	10	20	28	43	29	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	11	< 10.0	32.8	102.0	18.0	73.0	II
Copper (Cu)	µg/l	11	3.18	16.41	95.60	7.74	20.77	III
Chromium (Cr) - total	µg/l	11	0.46	1.78	5.21	1.42	2.88	II
Lead (Pb)	µg/l	11	0.06	4.42	12.49	3.65	8.39	III
Cadmium (Cd)	µg/l	11	0.11	0.43	0.83	0.32	0.64	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	10	2.12	4.52	8.25	4.20	7.41	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	6	< 0.005	< 0.005	< 0.005	0.005	0.005	
Anionic active surfactants	mg/l							
AOX	µg/l							
Petroleum hydrocarbons	mg/l	9	< 0.010	1.457	5.880	1.530	2.584	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	7	0.026	0.038	0.072	0.030	0.061	II
pp DDT	µg/l	1	0.028	0.028	0.028			IV
Atrazine	µg/l	1	0.067	0.067	0.067			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	1	0.078	0.078	0.078			
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	1	0.020	0.020	0.020			
Faecal Streptococci	10 ³ CFU/100 ml	1	0.013	0.013	0.013			
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 of II. quality class

River	Danube	Catchment	817000	km ²	RO08
Distance from the mouth [km]	0.0	Altitude	1	m	
Location	Sf.Gheorghe - Ghorghe arm M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90	Class
Flow	m3/s	365	163.0	1752.7	2480.0	1860.0	2260.0	
Temperature	°C	9	3.5	15.8	26.5	18.5	22.9	
Suspended Solids	mg/l	10	4	22	69	18	30	
Dissolved Oxygen	mg/l	10	6.2	8.3	11.2	7.7	6.5	II
BOD ₅	mg/l	10	1.2	2.0	4.1	1.6	2.7	II
COD _{Mn}	mg/l	10	2.7	4.1	6.9	4.0	4.8	II
COD _{Cr}	mg/l	9	18.8	29.5	35.8	30.0	35.6	III
TOC	mg/l							
DOC	mg/l							
pH		10	6.7	7.6	8.7	7.7	8.1	III
							7.2	II
Alkalinity	mmol/l	10	2.6	3.0	3.3	3.0	3.2	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	10	< 0.020	0.198	0.680	0.182	0.309	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	10	0.008	0.047	0.101	0.042	0.098	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	10	0.92	1.66	2.46	1.74	2.28	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	10	< 0.005	0.023	0.062	0.019	0.040	II
Total Phosphorus	mg/l	3	0.02	0.08	0.13			II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	10	392	432	498	417	483	
Calcium (Ca ²⁺)	mg/l	10	31.7	46.3	60.0	44.9	59.0	
Sulphate (SO ₄ ²⁻)	mg/l	9	16	26	54	21	44	
Magnesium (Mg ²⁺)	mg/l	10	12.1	23.4	33.3	20.8	31.3	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	11	0.033	0.094	0.152	0.091	0.150	
Iron (Fe)	mg/l	11	0.181	0.720	1.755	0.692	1.068	
Chloride (Cl)	mg/l	10	27	35	47	35	41	
Zinc (Zn) - Dissolved	µg/l	11	< 10.0	16.5	30.0	10.0	29.0	III
Copper (Cu) - Dissolved	µg/l	11	0.73	4.75	12.87	3.22	7.34	III
Chromium (Cr) - Dissolved	µg/l	11	0.05	0.59	1.16	0.51	1.02	II
Lead (Pb) - Dissolved	µg/l	11	0.05	1.05	1.92	0.98	1.79	III
Cadmium (Cd) - Dissolved	µg/l	10	0.05	0.12	0.28	0.10	0.19	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	9	0.26	1.20	2.34	0.98	2.05	III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	11	< 10.0	72.7	276.0	40.0	248.0	IV
Copper (Cu)	µg/l	11	4.53	9.71	29.13	7.31	11.79	II
Chromium (Cr) - total	µg/l	11	0.48	2.80	10.70	2.25	4.18	II
Lead (Pb)	µg/l	11	1.28	3.75	11.38	3.02	6.68	III
Cadmium (Cd)	µg/l	11	0.05	0.32	0.64	0.31	0.49	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	10	1.76	5.03	14.55	4.37	6.63	II
Arsenic (As)	µg/l	1	1.00	1.00	1.00			II
Aluminium (Al)	µg/l							
Phenol index	mg/l	6	< 0.005	< 0.005	< 0.005	0.005	0.005	
Anionic active surfactants	mg/l							
AOX	µg/l							
Petroleum hydrocarbons	mg/l	2	< 0.010	< 0.010	< 0.010			
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	7	< 0.002	0.030	0.059	0.035	0.048	II
pp DDT	µg/l	1	0.006	0.006	0.006			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	1	0.008	0.008	0.008			
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 of II. quality class

River	Danube	Catchment	817000	km ²	RO08
Distance from the mouth [km]	0.0	Altitude	1	m	
Location	Sf.Gheorghe - Ghorghe arm R				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90	Class
Flow	m3/s	365	163.0	1752.7	2480.0	1860.0	2260.0	
Temperature	°C	9	3.0	15.8	26.5	18.5	22.9	
Suspended Solids	mg/l	10	6	22	63	17	38	
Dissolved Oxygen	mg/l	10	6.0	8.3	10.9	7.5	6.7	II
BOD ₅	mg/l	10	1.1	1.7	2.4	1.8	2.1	I
COD _{Mn}	mg/l	10	2.7	4.2	6.9	3.9	5.7	II
COD _{Cr}	mg/l	9	19.3	29.5	38.4	30.0	37.2	III
TOC	mg/l							
DOC	mg/l							
pH		10	7.5	7.9	8.7	7.9	8.2	III
							7.5	II
Alkalinity	mmol/l	10	2.4	2.9	3.4	3.0	3.3	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	10	< 0.020	0.284	0.740	0.210	0.695	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	10	0.007	0.061	0.143	0.049	0.143	IV
Nitrate-N (NO ₃ ⁻ -N)	mg/l	10	0.61	1.65	2.60	1.58	2.23	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	10	< 0.005	0.026	0.076	0.021	0.042	II
Total Phosphorus	mg/l	3	0.02	0.07	0.12			II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	10	388	432	498	419	487	
Calcium (Ca ²⁺)	mg/l	10	31.7	46.4	62.8	45.4	56.8	
Sulphate (SO ₄ ²⁻)	mg/l	9	19	26	36	25	33	
Magnesium (Mg ²⁺)	mg/l	10	11.6	22.7	28.9	23.9	28.5	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	11	0.043	0.081	0.133	0.078	0.108	
Iron (Fe)	mg/l	11	0.212	0.586	0.997	0.593	0.931	
Chloride (Cl)	mg/l	10	20	31	40	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	< 10.0	69.8	395.0	16.0	167.0	III
Copper (Cu)	µg/l	11	3.96	7.74	19.87	6.25	11.30	II
Chromium (Cr) - total	µg/l	11	0.33	1.69	3.99	1.28	3.12	II
Lead (Pb)	µg/l	11	1.08	3.15	5.30	3.43	4.93	II
Cadmium (Cd)	µg/l	11	0.16	0.43	0.86	0.40	0.61	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	10	1.56	4.35	8.03	3.77	7.07	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	6	< 0.005	< 0.005	< 0.005	0.005	0.005	
Anionic active surfactants	mg/l							
AOX	µg/l							
Petroleum hydrocarbons	mg/l	2	< 0.010	< 0.010	< 0.010			
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	8	< 0.002	0.025	0.063	0.021	0.046	II
pp DDT	µg/l	1	0.001	0.001	0.001			I
Atrazine	µg/l	1	0.092	0.092	0.092			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	1	0.078	0.078	0.078			
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml	1	0.033	0.033	0.033			
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 of II. quality class

River	/Arges	Catchment	12550	km ²	RO09
Distance from the mouth [km]	0.0	Altitude	14	m	
Location	Conf. Danube M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90	Class
Flow	m3/s	364	5.0	14.3	65.6	11.1	28.7	
Temperature	°C	12	1.5	17.5	36.4	16.3	27.4	
Suspended Solids	mg/l	12	124	138	163	136	147	
Dissolved Oxygen	mg/l	12	6.7	8.0	9.9	8.1	6.8	II
BOD ₅	mg/l	12	3.8	4.8	6.2	4.6	5.8	III
COD _{Mn}	mg/l	12	6.9	7.9	9.6	7.7	8.6	II
COD _{Cr}	mg/l	12	13.2	15.4	17.8	15.4	16.6	II
TOC	mg/l							
DOC	mg/l							
pH		12	8.0	8.1	8.2	8.0	8.1	II
							8.0	II
Alkalinity	mmol/l	12	3.6	4.0	4.7	4.1	4.3	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	1.190	1.774	2.790	1.705	2.442	V
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.070	0.086	0.110	0.090	0.090	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	2.22	2.83	3.52	2.84	3.23	III
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.130	0.215	0.290	0.215	0.270	IV
Total Phosphorus	mg/l	12	0.19	0.36	0.48	0.36	0.46	IV
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	12	476	526	601	519	575	
Calcium (Ca ²⁺)	mg/l	12	73.6	82.4	96.0	82.4	87.7	
Sulphate (SO ₄ ²⁻)	mg/l	12	96	108	116	109	114	
Magnesium (Mg ²⁺)	mg/l	12	22.0	24.8	26.8	24.0	26.6	
Potassium (K ⁺)	mg/l	12	4.3	5.7	6.9	5.8	6.6	
Sodium (Na ⁺)	mg/l	12	25.9	33.3	48.1	31.6	39.7	
Manganese (Mn)	mg/l	11	0.030	0.166	0.396	0.155	0.290	
Iron (Fe)	mg/l	11	0.150	0.772	3.450	0.481	1.370	
Chloride (Cl)	mg/l	12	43	57	78	53	67	
Zinc (Zn) - Dissolved	µg/l	9	< 10.0	37.4	84.0	31.0	68.8	III
Copper (Cu) - Dissolved	µg/l	9	0.91	4.34	9.40	3.61	8.06	III
Chromium (Cr) - Dissolved	µg/l	9	0.05	0.68	1.24	0.74	1.13	II
Lead (Pb) - Dissolved	µg/l	9	0.58	1.65	3.15	1.60	2.73	III
Cadmium (Cd) - Dissolved	µg/l	6	0.08	0.26	0.48	0.25	0.45	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	8	1.01	1.97	3.84	1.82	3.01	III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	11	< 10.0	94.3	232.0	53.0	217.0	IV
Copper (Cu)	µg/l	11	1.85	10.77	23.34	11.30	17.86	II
Chromium (Cr) - total	µg/l	11	0.59	3.86	11.29	2.23	10.74	II
Lead (Pb)	µg/l	11	0.37	4.56	9.06	4.64	7.52	III
Cadmium (Cd)	µg/l	10	0.06	0.81	1.79	0.84	1.20	III
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	11	2.70	7.28	16.90	6.29	11.32	II
Arsenic (As)	µg/l	1	0.82	0.82	0.82			II
Aluminium (Al)	µg/l							
Phenol index	mg/l	11	< 0.005	< 0.005	< 0.005	0.005	0.005	
Anionic active surfactants	mg/l	3	0.040	0.044	0.050			
AOX	µg/l							
Petroleum hydrocarbons	mg/l	2	< 0.010	< 0.010	< 0.010			
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	9	< 0.002	0.039	0.116	0.027	0.070	III
pp DDT	µg/l	2	0.003	0.017	0.031			IV
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	6	0.120	13.353	16.000	16.000	16.000	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	6	0.060	3.778	16.000	0.535	10.700	
Faecal Streptococci	10 ³ CFU/100 ml	6	0.040	0.202	0.320	0.220	0.320	
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 of II. quality class

River	/Siret	Catchment	42890	km ²	RO10
Distance from the mouth [km]	0.0	Altitude	4	m	
Location	Conf. Danube Sendreni M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90	Class
Flow	m ³ /s	365	79.0	268.1	2100.0	196.0	451.6	
Temperature	°C	10	2.0	16.0	25.0	18.0	23.2	
Suspended Solids	mg/l	10	15	61	291	28	104	
Dissolved Oxygen	mg/l	10	7.2	8.8	11.5	8.5	7.4	I
BOD ₅	mg/l	10	0.7	3.8	6.7	3.1	6.6	III
COD _{Mn}	mg/l	10	3.0	5.4	9.7	4.8	9.3	II
COD _{Cr}	mg/l	10	22.0	42.8	57.7	45.2	55.3	IV
TOC	mg/l							
DOC	mg/l							
pH		10	7.8	8.2	8.6	8.2	8.4	III
							7.9	II
Alkalinity	mmol/l	9	2.8	3.2	3.8	3.1	3.6	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	10	0.190	0.455	1.140	0.331	1.122	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	10	0.019	0.060	0.205	0.045	0.075	IV
Nitrate-N (NO ₃ ⁻ -N)	mg/l	10	0.75	1.78	2.58	1.83	2.27	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	10	< 0.005	0.021	0.047	0.015	0.047	I
Total Phosphorus	mg/l	4	0.04	0.08	0.10	0.09	0.09	I
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	10	466	577	672	595	636	
Calcium (Ca ²⁺)	mg/l	10	23.8	45.1	58.9	47.1	58.4	
Sulphate (SO ₄ ²⁻)	mg/l	10	23	36	55	35	43	
Magnesium (Mg ²⁺)	mg/l	10	11.9	28.7	59.0	28.8	38.2	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	12	0.063	0.183	0.612	0.129	0.276	
Iron (Fe)	mg/l	12	0.064	1.058	3.270	0.954	1.808	
Chloride (Cl)	mg/l	10	21	53	82	54	72	
Zinc (Zn) - Dissolved	µg/l	9	< 10.0	34.4	81.0	26.0	63.4	III
Copper (Cu) - Dissolved	µg/l	9	1.11	5.93	11.71	5.62	11.32	III
Chromium (Cr) - Dissolved	µg/l	9	0.10	0.77	1.69	0.61	1.63	II
Lead (Pb) - Dissolved	µg/l	10	0.36	1.56	6.08	1.12	2.35	III
Cadmium (Cd) - Dissolved	µg/l	9	0.05	0.28	0.92	0.13	0.66	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	8	0.56	1.72	4.68	1.00	3.84	III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	12	< 10.0	114.7	575.0	86.0	154.3	III
Copper (Cu)	µg/l	11	4.53	11.84	31.54	10.14	16.16	II
Chromium (Cr) - total	µg/l	12	0.69	2.58	9.58	1.82	3.67	II
Lead (Pb)	µg/l	12	1.04	4.54	10.31	3.90	8.02	III
Cadmium (Cd)	µg/l	12	0.05	0.83	5.08	0.39	1.32	III
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	11	1.81	5.62	12.70	4.35	12.17	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	9	< 0.005	0.006	0.009	0.005	0.008	
Anionic active surfactants	mg/l							
AOX	µg/l							
Petroleum hydrocarbons	mg/l	8	< 0.010	0.990	5.060	0.010	2.666	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	7	< 0.002	0.051	0.092	0.050	0.088	II
pp DDT	µg/l	1	0.044	0.044	0.044			IV
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 of II. quality class

River	/Prut	Catchment	27480	km ²	RO11
Distance from the mouth [km]	0.0	Altitude	5	m	
Location	Conf.Danube Giurgiulesti M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90	Class
Flow	m3/s	363	680.0	1296.8	9030.0	1320.0	1630.0	
Temperature	°C	9	2.0	13.8	26.0	12.0	23.6	
Suspended Solids	mg/l	11	5	61	230	40	151	
Dissolved Oxygen	mg/l	11	6.2	8.8	12.9	8.1	6.4	II
BOD ₅	mg/l	11	2.4	3.9	5.9	3.6	5.3	III
COD _{Mn}	mg/l	11	3.3	5.2	7.4	5.1	6.3	II
COD _{Cr}	mg/l	11	19.0	41.1	58.0	40.8	58.0	IV
TOC	mg/l							
DOC	mg/l							
pH		11	7.1	8.1	8.7	8.1	8.5	III
							7.8	II
Alkalinity	mmol/l	11	2.6	3.7	5.0	3.8	4.9	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	11	0.160	0.486	1.080	0.282	1.060	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	11	0.028	0.054	0.186	0.044	0.050	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	11	1.12	1.73	2.81	1.72	2.31	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	11	< 0.005	0.029	0.081	0.026	0.054	II
Total Phosphorus	mg/l	4	0.04	0.12	0.24	0.11	0.22	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm	11	505	693	939	703	801	
Calcium (Ca ²⁺)	mg/l	11	19.4	42.7	81.7	43.2	58.3	
Sulphate (SO ₄ ²⁻)	mg/l	11	39	91	163	104	126	
Magnesium (Mg ²⁺)	mg/l	11	18.9	32.7	49.6	30.6	46.2	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l							
Manganese (Mn)	mg/l	12	0.037	0.150	0.340	0.124	0.286	
Iron (Fe)	mg/l	12	0.261	1.100	4.358	0.578	2.158	
Chloride (Cl)	mg/l	11	28	48	61	47	61	
Zinc (Zn) - Dissolved	µg/l	8	< 10.0	30.5	61.0	31.0	51.2	III
Copper (Cu) - Dissolved	µg/l	9	0.79	6.05	15.95	4.15	15.65	III
Chromium (Cr) - Dissolved	µg/l	9	0.05	0.55	1.19	0.43	1.03	II
Lead (Pb) - Dissolved	µg/l	10	0.25	1.53	5.85	1.23	2.07	III
Cadmium (Cd) - Dissolved	µg/l	9	0.05	0.22	0.78	0.14	0.39	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	9	0.52	1.48	3.87	1.05	2.90	III
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	12	< 10.0	62.1	162.0	45.5	119.4	III
Copper (Cu)	µg/l	12	3.45	12.87	41.10	10.40	22.64	III
Chromium (Cr) - total	µg/l	12	0.54	2.72	8.85	1.90	6.00	II
Lead (Pb)	µg/l	12	1.08	4.34	8.19	4.51	7.95	III
Cadmium (Cd)	µg/l	12	0.05	0.43	1.02	0.32	0.82	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	11	3.00	5.09	7.04	5.79	6.45	II
Arsenic (As)	µg/l	1	2.23	2.23	2.23			II
Aluminium (Al)	µg/l							
Phenol index	mg/l	10	< 0.005	0.006	0.008	0.005	0.008	
Anionic active surfactants	mg/l							
AOX	µg/l							
Petroleum hydrocarbons	mg/l	9	< 0.010	0.461	2.110	0.010	1.268	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	8	< 0.002	0.043	0.130	0.036	0.074	III
pp'DDT	µg/l	1	0.013	0.013	0.013			III
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	1	1.300	1.300	1.300			
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	1	0.340	0.340	0.340			
Faecal Streptococci	10 ³ CFU/100 ml	1	0.070	0.070	0.070			
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 of II. quality class

River	Danube	Catchment	580100	km ²	BG01
Distance from the mouth [km]	834.0	Altitude	35	m	
Location	Novo Selo Harbour/ Pristol L				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	11	3.1	16.0	26.8	16.3	26.6	
Suspended Solids	mg/l	11	12	28	42	28	42	
Dissolved Oxygen	mg/l	11	4.0	6.7	9.5	6.2	4.5	IV
BOD ₅	mg/l	11	1.0	2.1	2.9	2.3	2.6	I
COD _{Mn}	mg/l	11	2.5	3.4	4.2	3.4	4.1	I
COD _{Cr}	mg/l	11	9.4	14.2	27.0	13.1	17.0	II
TOC	mg/l							
DOC	mg/l	11	< 0.1	2.3	14.6	0.8	5.3	
pH		11	7.6	7.8	8.1	7.8	8.0	II
							7.7	II
Alkalinity	mmol/l	11	2.9	3.1	3.2	3.1	3.2	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	11	< 0.050	0.102	0.184	0.094	0.166	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	11	0.025	0.034	0.053	0.029	0.046	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	11	0.67	1.20	2.31	1.06	1.70	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l	11	< 1.00	1.09	1.46	1.01	1.23	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	11	0.024	0.061	0.087	0.070	0.075	II
Total Phosphorus	mg/l	11	0.05	0.08	0.10	0.09	0.10	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	11	0.6	4.7	10.1	3.5	8.6	I
Conductivity @ 20°C	µS/cm	11	304	339	366	342	362	
Calcium (Ca ²⁺)	mg/l	11	42.1	54.2	76.2	52.1	66.1	
Sulphate (SO ₄ ²⁻)	mg/l	11	24	30	36	32	33	
Magnesium (Mg ²⁺)	mg/l	11	9.7	17.1	23.1	18.2	21.9	
Potassium (K ⁺)	mg/l	11	2.2	2.6	3.5	2.5	3.0	
Sodium (Na ⁺)	mg/l	11	5.0	10.1	12.6	10.6	12.1	
Manganese (Mn)	mg/l	11	< 0.010	0.023	0.080	0.017	0.028	
Iron (Fe)	mg/l	11	0.065	0.146	0.297	0.130	0.234	
Chloride (Cl ⁻)	mg/l	11	19	21	22	20	22	
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	11.0	39.7	149.0	32.0	41.0	II
Copper (Cu)	µg/l	11	2.00	12.65	100.00	4.00	7.00	II
Chromium (Cr) - total	µg/l	11	< 10.00	10.00	10.00	10.00	10.00	II
Lead (Pb)	µg/l	11	< 1.00	4.64	30.00	2.00	5.00	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	2.18	5.00	2.00	3.00	II
Arsenic (As)	µg/l	11	1.40	3.51	9.00	2.30	8.70	III
Aluminium (Al)	µg/l							
Phenol index	mg/l	11	< 0.002	< 0.002	< 0.002	0.002	0.002	
Anionic active surfactants	mg/l	11	< 0.050	0.057	0.110	0.050	0.064	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	11	< 0.100	0.209	0.600	0.100	0.400	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	10	< 0.001	0.001	0.002	0.001	0.001	I
pp DDT	µg/l	11	< 0.010	< 0.010	< 0.010	0.010	0.010	II
Atrazine	µg/l	10	0.018	0.176	1.010	0.097	0.268	V
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	0.027	1.178	2.710	1.170	2.120	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml	11	0.000	0.102	0.600	0.029	0.220	
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 of II. quality class

River	Danube	Catchment	580100	km ²	BG01
Distance from the mouth [km]	834.0	Altitude	35	m	
Location	Novo Selo Harbour/ Pristol M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	11	3.4	15.6	26.5	15.3	26.3	
Suspended Solids	mg/l	11	6	28	46	26	40	
Dissolved Oxygen	mg/l	11	3.2	6.8	10.4	7.7	4.0	IV
BOD ₅	mg/l	11	1.0	2.1	3.2	2.1	2.7	I
COD _{Mn}	mg/l	11	2.3	3.2	3.8	3.3	3.7	I
COD _{Cr}	mg/l	11	9.0	12.8	21.0	11.4	20.2	II
TOC	mg/l							
DOC	mg/l	11	< 0.1	2.0	10.7	1.0	5.2	
pH		11	7.6	7.9	8.1	7.8	8.1	II
							7.7	II
Alkalinity	mmol/l	11	2.7	3.0	3.2	3.1	3.2	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	11	< 0.050	0.112	0.200	0.106	0.173	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	11	0.024	0.035	0.053	0.030	0.052	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	11	0.73	1.23	2.55	1.09	1.48	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l	11	< 1.00	1.09	1.57	1.00	1.46	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	11	0.036	0.065	0.080	0.070	0.075	II
Total Phosphorus	mg/l	11	0.05	0.08	0.12	0.08	0.10	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	11	0.6	4.2	13.6	3.2	6.8	I
Conductivity @ 20°C	µS/cm	11	304	339	364	338	359	
Calcium (Ca ²⁺)	mg/l	11	40.1	52.7	72.1	52.1	64.1	
Sulphate (SO ₄ ²⁻)	mg/l	11	24	30	39	31	33	
Magnesium (Mg ²⁺)	mg/l	11	12.2	17.7	24.3	18.2	20.7	
Potassium (K ⁺)	mg/l	11	2.3	2.5	2.8	2.5	2.7	
Sodium (Na ⁺)	mg/l	11	5.0	9.9	12.9	10.1	12.1	
Manganese (Mn)	mg/l	11	< 0.010	0.024	0.080	0.017	0.032	
Iron (Fe)	mg/l	11	0.052	0.146	0.375	0.120	0.256	
Chloride (Cl ⁻)	mg/l	11	17	20	24	20	22	
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	8.0	34.7	68.0	37.0	59.0	II
Copper (Cu)	µg/l	11	2.00	9.10	57.00	4.00	11.00	II
Chromium (Cr) - total	µg/l	11	< 10.00	< 10.00	< 10.00	10.00	10.00	II
Lead (Pb)	µg/l	11	< 1.00	4.91	25.00	3.00	6.00	III
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	2.45	5.00	2.00	4.00	II
Arsenic (As)	µg/l	11	1.70	3.60	9.00	2.50	8.80	III
Aluminium (Al)	µg/l							
Phenol index	mg/l	11	< 0.002	< 0.002	< 0.002	0.002	0.002	
Anionic active surfactants	mg/l	11	< 0.050	0.060	0.150	0.050	0.060	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	11	< 0.100	0.164	0.500	0.100	0.200	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	10	< 0.001	0.001	0.002	0.001	0.001	I
pp DDT	µg/l	11	< 0.010	< 0.010	< 0.010	0.010	0.010	II
Atrazine	µg/l	10	0.019	0.175	1.060	0.063	0.268	V
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	0.013	1.271	2.600	0.890	2.400	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml	11	0.000	0.052	0.280	0.030	0.055	
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 of II. quality class

River	Danube	Catchment	580100 km ²	BG01
Distance from the mouth [km]	834.0	Altitude	35 m	
Location	Novo Selo Harbour/ Pristol R			2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	12	3.2	14.3	25.9	11.9	25.6	
Suspended Solids	mg/l	12	10	33	68	31	48	
Dissolved Oxygen	mg/l	12	4.2	7.4	10.6	7.8	4.7	IV
BOD ₅	mg/l	12	1.1	2.3	4.1	2.4	2.7	I
COD _{Mn}	mg/l	12	2.4	3.5	4.2	3.7	4.0	I
COD _{Cr}	mg/l	12	9.8	14.0	25.0	13.2	18.5	II
TOC	mg/l							
DOC	mg/l	11	< 0.1	2.7	17.4	1.1	5.8	
pH		12	7.6	8.0	9.0	7.8	8.4	II
							7.7	II
Alkalinity	mmol/l	12	2.9	3.1	3.4	3.1	3.2	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	< 0.050	0.126	0.398	0.093	0.194	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.023	0.032	0.048	0.030	0.045	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.81	1.37	2.62	1.19	2.50	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l	11	< 1.00	1.17	1.79	1.01	1.46	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.038	0.079	0.120	0.081	0.103	III
Total Phosphorus	mg/l	12	0.06	0.12	0.24	0.10	0.22	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	12	0.3	4.6	10.1	3.4	9.4	I
Conductivity @ 20°C	µS/cm	12	306	344	368	345	367	
Calcium (Ca ²⁺)	mg/l	12	42.1	53.4	72.1	51.5	63.5	
Sulphate (SO ₄ ²⁻)	mg/l	12	22	32	40	33	36	
Magnesium (Mg ²⁺)	mg/l	12	10.9	16.7	23.1	17.0	19.9	
Potassium (K ⁺)	mg/l	12	1.3	2.4	2.9	2.6	2.8	
Sodium (Na ⁺)	mg/l	12	5.4	9.8	12.6	10.4	12.1	
Manganese (Mn)	mg/l	12	< 0.010	0.019	0.040	0.018	0.029	
Iron (Fe)	mg/l	12	0.043	0.170	0.408	0.146	0.387	
Chloride (Cl ⁻)	mg/l	12	18	21	24	20	22	
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	11.0	29.7	63.0	26.5	60.0	II
Copper (Cu)	µg/l	12	3.00	8.44	39.00	5.50	10.80	II
Chromium (Cr) - total	µg/l	12	< 10.00	10.17	12.00	10.00	10.00	II
Lead (Pb)	µg/l	12	< 1.00	6.67	29.00	3.00	20.40	IV
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	2.42	6.00	2.50	3.00	II
Arsenic (As)	µg/l	12	1.70	3.60	9.00	2.85	8.26	III
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	0.060	0.160	0.050	0.053	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	< 0.100	0.258	0.500	0.250	0.500	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	10	< 0.001	0.001	0.002	0.001	0.001	I
pp DDT	µg/l	12	< 0.010	< 0.010	< 0.010	0.010	0.010	II
Atrazine	µg/l	10	0.011	0.157	0.990	0.046	0.265	V
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	0.020	1.227	2.980	1.000	2.730	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml	11	0.002	0.053	0.260	0.030	0.080	
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 of II. quality class

River	Danube	Catchment	608820	km ²	BG02
Distance from the mouth [km]	641.0	Altitude	20	m	
Location	us.Iskar-Bajkal R				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	12	0.5	15.1	26.6	16.7	25.7	
Suspended Solids	mg/l	12	8	20	51	18	31	
Dissolved Oxygen	mg/l	12	4.3	9.6	15.4	9.6	6.0	II
BOD ₅	mg/l	12	1.1	2.0	4.2	1.9	2.4	I
COD _{Mn}	mg/l	12	2.0	4.4	11.0	3.7	7.5	II
COD _{Cr}	mg/l	12	9.0	13.6	18.0	15.0	17.0	II
TOC	mg/l							
DOC	mg/l							
pH		12	6.5	7.2	8.1	7.1	7.9	II
							6.6	II
Alkalinity	mmol/l	12	2.6	4.2	7.6	3.6	7.0	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	< 0.050	0.167	0.500	0.125	0.322	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.019	0.026	0.039	0.026	0.032	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.05	0.79	2.05	0.77	1.29	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.029	0.082	0.228	0.070	0.119	III
Total Phosphorus	mg/l	12	0.05	0.14	0.23	0.16	0.22	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	8	< 0.3	8.2	16.3	7.4	14.2	I
Conductivity @ 20°C	µS/cm	12	297	344	396	344	386	
Calcium (Ca ²⁺)	mg/l	12	47.2	61.4	98.8	57.0	77.1	
Sulphate (SO ₄ ²⁻)	mg/l	12	21	30	38	28	38	
Magnesium (Mg ²⁺)	mg/l	12	9.7	17.2	30.6	16.2	21.6	
Potassium (K ⁺)	mg/l	10	2.3	3.2	7.1	2.9	3.4	
Sodium (Na ⁺)	mg/l	10	11.0	13.2	16.5	12.4	16.4	
Manganese (Mn)	mg/l	10	0.010	0.021	0.040	0.021	0.027	
Iron (Fe)	mg/l	12	< 0.010	0.135	0.260	0.115	0.199	
Chloride (Cl ⁻)	mg/l	12	< 10	20	39	17	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	10	45.0	81.5	134.0	82.0	113.3	III
Copper (Cu)	µg/l	10	2.00	13.00	31.00	9.00	28.30	III
Chromium (Cr) - total	µg/l	10	< 10.00	< 10.00	< 10.00	10.00	10.00	II
Lead (Pb)	µg/l	10	< 1.00	1.80	3.00	1.50	3.00	II
Cadmium (Cd)	µg/l	10	< 1.00	1.03	1.30	1.00	1.03	III
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	10	1.00	2.90	5.00	2.50	5.00	II
Arsenic (As)	µg/l	10	1.30	2.29	3.20	2.25	3.11	II
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	0.053	0.070	0.050	0.059	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	6	< 0.100	0.217	0.800	0.100	0.450	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	10	< 0.001	< 0.001	< 0.001	0.001	0.001	I
pp DDT	µg/l	10	< 0.010	0.010	0.010	0.010	0.010	II
Atrazine	µg/l							
Chloroform	µg/l	10	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Carbon tetrachloride	µg/l	10	< 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 of II. quality class

River	Danube	Catchment	650340	km ²	BG03
Distance from the mouth [km]	554.0	Altitude	16	m	
Location	Downstream Svishtov R				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	11	0.0	14.3	27.0	12.7	24.0	
Suspended Solids	mg/l	11	6	35	68	38	54	
Dissolved Oxygen	mg/l	11	6.4	9.3	12.5	9.3	6.9	II
BOD ₅	mg/l	11	1.0	2.3	3.2	2.3	3.0	I
COD _{Mn}	mg/l	11	3.1	4.1	5.1	4.2	4.7	I
COD _{Cr}	mg/l							
TOC	mg/l							
DOC	mg/l							
pH		11	7.4	8.1	8.6	8.1	8.4	II
							7.9	II
Alkalinity	mmol/l	10	1.0	3.4	4.6	3.6	4.1	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	11	< 0.010	0.057	0.320	0.030	0.074	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	11	0.012	0.022	0.034	0.019	0.032	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	11	0.52	1.15	1.96	1.04	1.74	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	11	0.022	0.064	0.147	0.065	0.085	II
Total Phosphorus	mg/l	11	0.05	0.11	0.17	0.10	0.15	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	10	< 0.3	3.0	9.8	1.5	9.0	I
Conductivity @ 20°C	µS/cm	11	338	413	503	390	498	
Calcium (Ca ²⁺)	mg/l	10	32.9	60.5	86.2	59.1	80.8	
Sulphate (SO ₄ ²⁻)	mg/l	11	28	39	49	39	47	
Magnesium (Mg ²⁺)	mg/l	10	< 0.5	12.4	24.3	12.1	24.3	
Potassium (K ⁺)	mg/l							
Sodium (Na ⁺)	mg/l	9	9.7	12.8	18.5	13.1	14.5	
Manganese (Mn)	mg/l	9	< 0.010	0.011	0.014	0.010	0.013	
Iron (Fe)	mg/l	11	< 0.010	0.140	0.280	0.150	0.210	
Chloride (Cl ⁻)	mg/l	11	14	21	35	20	29	
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	9	26.0	46.3	81.0	43.0	69.0	II
Copper (Cu)	µg/l	9	4.00	8.67	14.00	8.00	13.20	II
Chromium (Cr) - total	µg/l	9	< 10.00	< 10.00	< 10.00	10.00	10.00	II
Lead (Pb)	µg/l	9	< 1.00	1.67	2.00	2.00	2.00	II
Cadmium (Cd)	µg/l	9	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	9	< 1.00	2.56	5.00	2.00	3.40	II
Arsenic (As)	µg/l	7	1.70	2.97	4.60	2.90	4.42	II
Aluminium (Al)	µg/l							
Phenol index	mg/l							
Anionic active surfactants	mg/l							
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	9	< 0.001	0.002	0.010	0.001	0.003	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 of II. quality class

River	Danube	Catchment	669900	km ²	BG04
Distance from the mouth [km]	503.0	Altitude	12	m	
Location	us. Russe R				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	12	4.0	14.8	29.4	11.6	24.9	
Suspended Solids	mg/l	12	14	22	34	21	34	
Dissolved Oxygen	mg/l	12	7.2	9.9	11.9	10.1	8.0	I
BOD ₅	mg/l	12	2.1	2.8	4.1	2.7	3.1	II
COD _{Mn}	mg/l	12	3.8	4.7	6.5	4.5	5.9	II
COD _{Cr}	mg/l	12	10.4	12.0	15.0	11.5	14.2	II
TOC	mg/l							
DOC	mg/l							
pH		12	7.8	8.1	8.6	8.0	8.6	III
							7.9	II
Alkalinity	mmol/l	12	1.3	1.5	1.8	1.5	1.7	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.018	0.107	0.370	0.067	0.300	II
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.009	0.020	0.034	0.019	0.031	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.97	1.46	2.43	1.51	1.90	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l	12	< 1.00	1.32	1.82	1.21	1.79	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.049	0.079	0.113	0.080	0.088	II
Total Phosphorus	mg/l	12	0.12	0.17	0.23	0.16	0.21	III
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	12	1.8	9.5	27.6	4.3	26.4	II
Conductivity @ 20°C	µS/cm	12	304	368	464	351	434	
Calcium (Ca ²⁺)	mg/l	12	34.8	50.2	64.5	50.0	60.8	
Sulphate (SO ₄ ²⁻)	mg/l	12	27	33	54	31	38	
Magnesium (Mg ²⁺)	mg/l	12	12.3	16.4	26.1	14.9	21.3	
Potassium (K ⁺)	mg/l	10	1.6	2.6	3.5	2.7	3.0	
Sodium (Na ⁺)	mg/l	10	10.0	11.6	14.7	11.2	13.4	
Manganese (Mn)	mg/l	10	0.016	0.068	0.200	0.043	0.154	
Iron (Fe)	mg/l	9	0.750	1.817	3.870	1.390	3.014	
Chloride (Cl ⁻)	mg/l	12	22	26	31	26	28	
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	10	16.0	167.5	882.0	30.5	389.7	V
Copper (Cu)	µg/l	10	< 1.00	62.60	401.00	2.50	187.70	V
Chromium (Cr) - total	µg/l	12	< 10.00	< 10.00	< 10.00	10.00	10.00	II
Lead (Pb)	µg/l	10	< 1.00	1.00	1.00	1.00	1.00	II
Cadmium (Cd)	µg/l	10	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	10	< 1.00	1.05	1.50	1.00	1.05	II
Arsenic (As)	µg/l	4	2.00	2.50	3.00	2.50	3.00	II
Aluminium (Al)	µg/l	12	< 20.0	23.9	34.0	22.9	30.7	
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	10	< 0.100	0.105	0.120	0.100	0.116	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	9	< 0.001	< 0.001	< 0.001	0.001	0.001	I
pp DDT	µg/l	9	< 0.010	< 0.010	< 0.010	0.010	0.010	II
Atrazine	µg/l	10	0.008	0.198	0.641	0.118	0.549	V
Chloroform	µg/l	9	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Carbon tetrachloride	µg/l	9	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Trichloroethylene	µg/l	9	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Tetrachloroethylene	µg/l	9	< 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	0.010	1.404	3.500	1.175	3.345	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml	12	0.000	0.370	2.900	0.060	0.961	
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 of II. quality class

River	Danube	Catchment	698600	km ²	BG05
Distance from the mouth [km]	375.0	Altitude	7	m	
Location	Silistra/Chiciu L				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	11	0.8	15.0	28.6	13.0	23.9	
Suspended Solids	mg/l	11	11	24	32	26	30	
Dissolved Oxygen	mg/l	11	6.9	9.3	11.5	9.3	7.5	I
BOD ₅	mg/l	11	2.0	2.9	4.7	2.8	3.5	II
COD _{Mn}	mg/l	11	3.5	4.8	6.4	4.6	6.3	II
COD _{Cr}	mg/l	11	9.5	10.9	12.4	11.2	11.6	II
TOC	mg/l							
DOC	mg/l							
pH		11	7.9	8.1	8.5	8.0	8.3	II
							7.9	II
Alkalinity	mmol/l	11	1.4	1.6	2.0	1.5	1.8	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	11	< 0.050	0.128	0.361	0.096	0.220	II
Nitrite-N (NO ₂ ⁻ -N)	mg/l	11	0.012	0.022	0.049	0.020	0.027	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	11	0.62	1.21	1.82	1.08	1.72	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l	11	1.05	1.29	1.66	1.22	1.48	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	11	< 0.020	0.060	0.090	0.071	0.082	II
Total Phosphorus	mg/l	11	0.03	0.15	0.20	0.17	0.19	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	11	2.9	13.5	51.0	6.4	26.4	II
Conductivity @ 20°C	µS/cm	11	317	378	513	349	490	
Calcium (Ca ²⁺)	mg/l	11	42.5	50.4	63.9	49.3	61.1	
Sulphate (SO ₄ ²⁻)	mg/l	11	17	32	44	32	36	
Magnesium (Mg ²⁺)	mg/l	11	12.9	16.5	24.3	13.9	21.4	
Potassium (K ⁺)	mg/l	9	2.0	2.7	3.3	2.8	3.0	
Sodium (Na ⁺)	mg/l	9	10.4	14.4	20.0	14.2	17.6	
Manganese (Mn)	mg/l	9	< 0.010	0.042	0.100	0.045	0.078	
Iron (Fe)	mg/l	10	0.800	1.801	5.110	1.425	2.482	
Chloride (Cl ⁻)	mg/l	11	25	29	32	29	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	8	5.0	43.8	175.0	24.5	86.8	III
Copper (Cu)	µg/l	8	< 1.00	10.38	30.00	7.00	23.00	III
Chromium (Cr) - total	µg/l	11	< 10.00	< 10.00	< 10.00	10.00	10.00	II
Lead (Pb)	µg/l	9	< 1.00	1.00	1.00	1.00	1.00	II
Cadmium (Cd)	µg/l	9	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	9	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Arsenic (As)	µg/l	4	2.00	2.00	2.00	2.00	2.00	II
Aluminium (Al)	µg/l	11	< 20.0	32.0	58.5	26.0	44.4	
Phenol index	mg/l	11	< 0.002	< 0.002	< 0.002	0.002	0.002	
Anionic active surfactants	mg/l	11	< 0.050	< 0.050	< 0.050	0.050	0.050	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	9	< 0.100	0.117	0.210	0.100	0.154	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	8	< 0.001	< 0.001	< 0.001	0.001	0.001	I
pp DDT	µg/l	8	< 0.010	< 0.010	< 0.010	0.010	0.010	II
Atrazine	µg/l	9	0.025	0.237	0.835	0.141	0.546	V
Chloroform	µg/l	8	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Carbon tetrachloride	µg/l	8	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Trichloroethylene	µg/l	8	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Tetrachloroethylene	µg/l	8	< 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	11	0.072	1.480	2.480	1.115	2.480	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml	11	0.000	0.212	0.740	0.115	0.510	
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 of II. quality class

River	Danube	Catchment	698600	km ²	BG05
Distance from the mouth [km]	375.0	Altitude	7	m	
Location	Silistra/Chiciu M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	11	0.7	15.1	28.6	14.0	23.9	
Suspended Solids	mg/l	11	16	23	32	22	30	
Dissolved Oxygen	mg/l	11	7.0	9.3	10.9	9.3	7.8	I
BOD ₅	mg/l	11	1.8	2.7	4.3	2.5	3.3	II
COD _{Mn}	mg/l	11	3.5	4.3	5.6	4.2	5.4	II
COD _{Cr}	mg/l	11	7.7	10.5	12.8	10.4	12.7	II
TOC	mg/l							
DOC	mg/l							
pH		11	8.0	8.1	8.6	8.0	8.5	II
							8.0	II
Alkalinity	mmol/l	11	1.4	1.6	2.2	1.5	1.8	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	11	< 0.050	0.088	0.284	0.055	0.134	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	11	0.010	0.016	0.022	0.016	0.021	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	11	0.66	1.25	1.74	1.09	1.69	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l	11	< 1.00	1.20	1.57	1.23	1.27	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	11	< 0.020	0.060	0.087	0.069	0.086	II
Total Phosphorus	mg/l	11	0.04	0.13	0.19	0.14	0.17	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	11	2.3	14.6	59.9	4.7	30.3	II
Conductivity @ 20°C	µS/cm	11	311	374	504	353	476	
Calcium (Ca ²⁺)	mg/l	11	42.3	50.4	66.1	50.7	61.3	
Sulphate (SO ₄ ²⁻)	mg/l	11	20	33	42	33	37	
Magnesium (Mg ²⁺)	mg/l	11	12.2	14.7	20.2	13.2	19.0	
Potassium (K ⁺)	mg/l	9	1.5	2.6	3.2	2.6	2.9	
Sodium (Na ⁺)	mg/l	9	10.2	13.4	18.7	13.1	16.1	
Manganese (Mn)	mg/l	9	< 0.010	0.035	0.113	0.023	0.059	
Iron (Fe)	mg/l	10	0.210	1.354	2.820	1.220	2.235	
Chloride (Cl ⁻)	mg/l	11	25	29	32	29	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	8	6.0	22.5	43.0	19.5	34.6	II
Copper (Cu)	µg/l	8	< 1.00	6.50	15.00	4.50	15.00	II
Chromium (Cr) - total	µg/l	11	< 10.00	< 10.00	< 10.00	10.00	10.00	II
Lead (Pb)	µg/l	9	< 1.00	1.00	1.00	1.00	1.00	II
Cadmium (Cd)	µg/l	9	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	9	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Arsenic (As)	µg/l	4	2.00	2.75	3.00	3.00	3.00	II
Aluminium (Al)	µg/l	11	< 20.0	35.0	82.6	24.0	53.3	
Phenol index	mg/l	11	< 0.002	< 0.002	< 0.002	0.002	0.002	
Anionic active surfactants	mg/l	11	< 0.050	< 0.050	< 0.050	0.050	0.050	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	9	< 0.100	0.115	0.185	0.100	0.150	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	8	< 0.001	< 0.001	< 0.001	0.001	0.001	I
pp DDT	µg/l	8	< 0.010	< 0.010	< 0.010	0.010	0.010	II
Atrazine	µg/l	9	0.024	0.226	0.823	0.142	0.507	V
Chloroform	µg/l	8	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Carbon tetrachloride	µg/l	8	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Trichloroethylene	µg/l	8	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Tetrachloroethylene	µg/l	8	< 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	11	0.055	1.856	2.950	1.980	2.900	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml	11	0.000	0.292	0.920	0.090	0.920	
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 of II. quality class

River	Danube	Catchment	698600	km ²	BG05
Distance from the mouth [km]	375.0	Altitude	7	m	
Location	Silistra/Chiciu R				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	12	0.7	14.2	28.9	13.0	23.8	
Suspended Solids	mg/l	12	20	28	36	26	32	
Dissolved Oxygen	mg/l	12	7.0	9.6	12.4	9.6	7.6	I
BOD ₅	mg/l	12	1.8	2.8	4.6	2.7	3.5	II
COD _{Mn}	mg/l	12	3.1	4.3	5.2	4.3	5.1	II
COD _{Cr}	mg/l	12	9.3	11.6	13.4	11.6	13.2	II
TOC	mg/l							
DOC	mg/l							
pH		12	7.9	8.1	8.5	8.0	8.4	II
							8.0	II
Alkalinity	mmol/l	12	1.4	1.6	2.2	1.5	1.8	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	< 0.050	0.086	0.255	0.055	0.152	I
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.011	0.017	0.024	0.017	0.021	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.72	1.21	2.03	1.11	1.84	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l	12	1.06	1.36	1.77	1.29	1.58	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	< 0.020	0.064	0.100	0.070	0.084	II
Total Phosphorus	mg/l	12	0.05	0.13	0.20	0.16	0.18	II
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	12	2.3	13.9	57.2	6.9	31.7	II
Conductivity @ 20°C	µS/cm	12	309	371	504	354	420	
Calcium (Ca ²⁺)	mg/l	12	40.5	51.7	72.1	49.3	68.9	
Sulphate (SO ₄ ²⁻)	mg/l	12	16	32	42	32	38	
Magnesium (Mg ²⁺)	mg/l	12	12.4	14.9	19.2	14.8	17.3	
Potassium (K ⁺)	mg/l	10	1.5	2.6	3.2	2.7	2.9	
Sodium (Na ⁺)	mg/l	10	9.7	12.6	15.8	11.9	15.4	
Manganese (Mn)	mg/l	10	< 0.010	0.035	0.084	0.032	0.053	
Iron (Fe)	mg/l	11	0.591	1.499	3.770	1.250	3.000	
Chloride (Cl ⁻)	mg/l	12	22	28	32	29	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	9	< 1.0	40.1	159.0	27.0	69.4	III
Copper (Cu)	µg/l	9	< 1.00	5.44	24.00	1.00	12.80	III
Chromium (Cr) - total	µg/l	12	< 10.00	< 10.00	< 10.00	10.00	10.00	II
Lead (Pb)	µg/l	10	< 1.00	1.00	1.00	1.00	1.00	II
Cadmium (Cd)	µg/l	10	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	10	< 1.00	1.02	1.20	1.00	1.02	II
Arsenic (As)	µg/l	4	2.00	2.00	2.00	2.00	2.00	II
Aluminium (Al)	µg/l	12	< 20.0	36.5	87.8	30.4	60.2	
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	10	0.100	0.141	0.245	0.119	0.211	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	9	< 0.001	< 0.001	< 0.001	0.001	0.001	I
pp DDT	µg/l	9	< 0.010	< 0.010	< 0.010	0.010	0.010	II
Atrazine	µg/l	10	0.019	0.203	0.719	0.140	0.495	V
Chloroform	µg/l	9	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Carbon tetrachloride	µg/l	9	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Trichloroethylene	µg/l	9	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Tetrachloroethylene	µg/l	9	< 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	11	0.125	1.369	2.680	1.300	1.850	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml	11	0.011	0.177	0.680	0.059	0.540	
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 of II. quality class

River	/Iskar	Catchment	8370	km ²	BG06
Distance from the mouth [km]	28.0	Altitude	31	m	
Location	Orechovitzta M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	12	0.3	13.9	24.0	12.8	23.1	
Suspended Solids	mg/l	12	10	21	45	21	27	
Dissolved Oxygen	mg/l	12	4.9	10.3	14.8	10.6	7.8	I
BOD ₅	mg/l	12	1.6	3.5	10.6	2.5	5.3	III
COD _{Mn}	mg/l	12	2.2	7.0	20.6	5.4	11.7	III
COD _{Cr}	mg/l	12	10.0	20.9	66.0	15.5	31.7	III
TOC	mg/l							
DOC	mg/l							
pH		12	6.9	7.5	8.2	7.5	8.1	II
							7.0	II
Alkalinity	mmol/l	12	2.8	4.1	7.6	3.7	5.7	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	< 0.050	0.441	2.690	0.095	0.596	III
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.017	0.070	0.169	0.049	0.161	IV
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.50	1.64	3.45	1.47	2.85	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.218	0.388	0.701	0.344	0.596	V
Total Phosphorus	mg/l	12	0.33	0.61	1.28	0.52	0.99	IV
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	7	< 0.3	17.8	38.5	14.8	36.7	II
Conductivity @ 20°C	µS/cm	12	325	404	492	394	482	
Calcium (Ca ²⁺)	mg/l	12	45.2	57.1	65.2	57.2	65.0	
Sulphate (SO ₄ ²⁻)	mg/l	12	36	50	62	51	60	
Magnesium (Mg ²⁺)	mg/l	12	10.7	17.8	35.0	14.6	29.9	
Potassium (K ⁺)	mg/l	10	4.1	5.3	6.7	5.2	6.4	
Sodium (Na ⁺)	mg/l	10	18.5	25.2	35.7	23.5	35.4	
Manganese (Mn)	mg/l	10	0.023	0.045	0.077	0.043	0.067	
Iron (Fe)	mg/l	12	0.060	0.260	1.100	0.115	0.785	
Chloride (Cl ⁻)	mg/l	12	15	34	54	33	51	
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	10	19.0	76.0	150.0	66.0	126.6	III
Copper (Cu)	µg/l	10	3.00	18.20	36.00	13.50	34.20	III
Chromium (Cr) - total	µg/l	10	< 10.00	< 10.00	< 10.00	10.00	10.00	II
Lead (Pb)	µg/l	10	< 1.00	3.30	7.00	3.00	6.10	III
Cadmium (Cd)	µg/l	10	< 1.00	1.70	8.00	1.00	1.70	V
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	10	2.00	3.90	10.00	3.50	5.50	II
Arsenic (As)	µg/l	10	4.90	8.09	12.20	8.40	10.85	IV
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	0.053	0.070	0.050	0.068	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	5	< 0.100	0.200	0.600	0.100	0.400	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	10	< 0.001	0.002	0.010	0.001	0.002	I
pp DDT	µg/l	10	< 0.010	0.010	0.010	0.010	0.010	II
Atrazine	µg/l							
Chloroform	µg/l	10	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l	10	< 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 of II. quality class

River	/Jantra	Catchment	6860	km ²	BG07
Distance from the mouth [km]	12.0	Altitude	32	m	
Location	Karantzi M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	11	0.0	12.9	27.0	11.0	20.0	
Suspended Solids	mg/l	11	4	40	134	24	96	
Dissolved Oxygen	mg/l	11	6.4	9.4	12.2	9.0	6.9	II
BOD ₅	mg/l	11	1.5	3.2	9.0	2.4	4.4	II
COD _{Mn}	mg/l	11	2.4	5.7	10.1	5.6	6.7	II
COD _{Cr}	mg/l							
TOC	mg/l							
DOC	mg/l							
pH		11	7.4	8.0	8.4	8.1	8.3	II
							7.9	II
Alkalinity	mmol/l	10	1.6	4.5	10.0	4.4	5.7	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	11	< 0.050	0.111	0.250	0.084	0.220	II
Nitrite-N (NO ₂ ⁻ -N)	mg/l	11	0.012	0.049	0.140	0.036	0.094	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	11	0.64	1.28	2.10	1.17	1.96	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	11	< 0.020	0.099	0.287	0.055	0.218	IV
Total Phosphorus	mg/l	11	0.07	0.40	1.59	0.16	1.37	V
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	10	0.3	3.7	10.4	3.1	8.5	I
Conductivity @ 20°C	µS/cm	11	346	485	602	493	583	
Calcium (Ca ²⁺)	mg/l	10	60.1	77.3	102.0	72.6	100.2	
Sulphate (SO ₄ ²⁻)	mg/l	11	38	49	64	47	60	
Magnesium (Mg ²⁺)	mg/l	10	< 0.5	15.5	36.5	12.2	34.3	
Potassium (K ⁺)	mg/l	9	3.1	4.3	6.4	3.9	5.4	
Sodium (Na ⁺)	mg/l	9	7.6	12.7	17.0	12.9	16.8	
Manganese (Mn)	mg/l	9	0.011	0.017	0.029	0.015	0.023	
Iron (Fe)	mg/l	11	< 0.010	0.259	0.900	0.180	0.340	
Chloride (Cl ⁻)	mg/l	11	< 10	19	37	15	33	
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	9	18.0	46.1	74.0	47.0	65.2	II
Copper (Cu)	µg/l	9	3.00	8.11	19.00	7.00	16.60	II
Chromium (Cr) - total	µg/l	9	< 10.00	< 10.00	< 10.00	10.00	10.00	II
Lead (Pb)	µg/l	9	< 1.00	1.56	4.00	1.00	2.40	II
Cadmium (Cd)	µg/l	9	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	9	< 1.00	2.22	4.00	2.00	3.20	II
Arsenic (As)	µg/l	7	0.70	1.74	3.60	1.40	3.06	II
Aluminium (Al)	µg/l							
Phenol index	mg/l							
Anionic active surfactants	mg/l							
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	9	< 0.001	< 0.001	< 0.001	0.001	0.001	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 of II. quality class

River	/Russ. Lom	Catchment	2800	km ²	BG08
Distance from the mouth [km]	13.0	Altitude	22	m	
Location	Basarbovo M				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	12	3.0	12.4	23.1	10.9	20.0	
Suspended Solids	mg/l	12	26	216	1556	60	391	
Dissolved Oxygen	mg/l	12	6.1	8.5	11.6	8.3	6.9	II
BOD ₅	mg/l	12	4.5	10.2	48.8	7.0	10.4	IV
COD _{Mn}	mg/l							
COD _{Cr}	mg/l	12	15.2	36.2	160.0	23.1	46.5	III
TOC	mg/l							
DOC	mg/l							
pH		12	7.9	8.2	8.4	8.2	8.4	II
							8.0	II
Alkalinity	mmol/l	12	2.7	3.4	3.7	3.5	3.7	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	< 0.050	0.122	0.321	0.063	0.248	II
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.026	0.049	0.101	0.044	0.074	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	2.43	4.69	8.23	4.22	6.20	IV
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l	12	1.50	2.08	5.42	1.72	2.33	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.174	0.305	0.482	0.304	0.423	IV
Total Phosphorus	mg/l	12	0.40	0.60	1.35	0.47	0.96	IV
Total Phosphorus - Dissolved	mg/l							
Chlorophyll-a	µg/l	12	2.8	17.5	43.3	11.5	37.0	II
Conductivity @ 20°C	µS/cm	12	571	738	792	762	783	
Calcium (Ca ²⁺)	mg/l	12	76.0	90.1	138.0	84.6	97.7	
Sulphate (SO ₄ ²⁻)	mg/l	12	47	55	60	56	59	
Magnesium (Mg ²⁺)	mg/l	12	24.8	39.8	50.7	39.9	49.2	
Potassium (K ⁺)	mg/l	10	5.0	7.4	12.2	6.7	9.1	
Sodium (Na ⁺)	mg/l	10	22.1	26.6	37.4	24.6	32.2	
Manganese (Mn)	mg/l	10	0.023	0.107	0.285	0.068	0.254	
Iron (Fe)	mg/l	10	1.550	11.246	59.700	5.275	17.040	
Chloride (Cl ⁻)	mg/l	12	32	40	70	38	43	
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	10	< 1.0	181.1	969.0	34.0	500.1	V
Copper (Cu)	µg/l	10	< 1.00	30.80	194.00	1.00	78.80	V
Chromium (Cr) - total	µg/l	12	< 10.00	< 10.00	< 10.00	10.00	10.00	II
Lead (Pb)	µg/l	10	< 1.00	1.00	1.00	1.00	1.00	II
Cadmium (Cd)	µg/l	10	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	10	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Arsenic (As)	µg/l	4	1.00	1.75	2.00	2.00	2.00	II
Aluminium (Al)	µg/l	12	33.0	47.0	65.3	49.7	56.0	
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	10	0.105	0.212	0.353	0.210	0.319	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	9	< 0.001	< 0.001	< 0.001	0.001	0.001	I
pp DDT	µg/l	9	< 0.010	< 0.010	< 0.010	0.010	0.010	II
Atrazine	µg/l	10	< 0.001	0.038	0.185	0.021	0.066	III
Chloroform	µg/l	9	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Carbon tetrachloride	µg/l	9	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Trichloroethylene	µg/l	9	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Tetrachloroethylene	µg/l	9	< 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	0.020	1.825	8.700	0.990	3.100	
Faecal Coliforms (44°C)	10 ³ CFU/100 ml							
Faecal Streptococci	10 ³ CFU/100 ml	12	0.000	0.965	7.200	0.090	1.642	
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 of II. quality class

River	/Prut	Catchment	8750	km ²	MD01
Distance from the mouth [km]	658.0	Altitude	100	m	
Location	Lipcani L				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	8	28.4	76.2	140.0	73.0	113.4	
Temperature	°C	7	0.6	12.8	23.8	13.8	22.3	
Suspended Solids	mg/l	8	< 1	45	180	26	89	
Dissolved Oxygen	mg/l	7	8.1	10.3	14.6	9.0	8.4	I
BOD ₅	mg/l	8	2.0	2.7	3.6	2.6	3.4	II
COD _{Mn}	mg/l							
COD _{Cr}	mg/l	8	10.9	17.5	28.7	15.6	26.7	III
TOC	mg/l							
DOC	mg/l							
pH		8	8.0	8.2	8.6	8.1	8.4	III
							8.0	II
Alkalinity	mmol/l	7	2.2	3.0	3.6	3.0	3.4	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	8	0.090	0.353	0.960	0.255	0.729	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	8	0.015	0.026	0.038	0.023	0.037	II
Nitrate-N (NO ₃ ⁻ -N)	mg/l	8	0.66	1.40	3.30	1.15	2.40	III
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	8	< 0.005	0.012	0.033	0.007	0.025	I
Total Phosphorus	mg/l							
Total Phosphorus - Dissolved	mg/l	8	< 0.01	0.03	0.07	0.02	0.06	
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm							
Calcium (Ca ²⁺)	mg/l	7	49.1	61.8	69.5	64.1	68.7	
Sulphate (SO ₄ ²⁻)	mg/l	7	51	66	88	60	81	
Magnesium (Mg ²⁺)	mg/l	7	7.3	11.6	19.8	9.7	19.6	
Potassium (K ⁺)	mg/l	7	3.4	4.3	5.0	4.2	4.9	
Sodium (Na ⁺)	mg/l	7	15.4	21.6	27.0	22.6	25.8	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl ⁻)	mg/l	7	14	23	34	23	31	
Zinc (Zn) - Dissolved	µg/l	8	< 3.0	7.4	13.0	8.0	11.6	III
Copper (Cu) - Dissolved	µg/l	8	< 3.00	3.50	6.00	3.00	4.60	III
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l	7	< 3.00	< 3.00	< 3.00	3.00	3.00	**
Cadmium (Cd) - Dissolved	µg/l	7	< 0.50	0.50	0.50	0.50	0.50	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	8	< 3.00	< 3.00	< 3.00	3.00	3.00	**
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	7	6.1	20.8	33.2	18.9	32.5	II
Copper (Cu)	µg/l	7	5.00	12.14	31.50	8.79	21.36	III
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l	7	4.21	6.40	10.26	5.89	8.97	IV
Cadmium (Cd)	µg/l	7	0.92	1.38	2.21	1.20	1.99	IV
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	7	5.74	8.39	10.90	8.7	9.7	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	8	< 0.001	0.003	0.013	0.001	0.007	
Anionic active surfactants	mg/l	8	0.020	0.029	0.050	0.030	0.036	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	8	< 0.050	0.093	0.190	0.055	0.183	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	3	< 0.050	< 0.050	< 0.050			I
pp DDT	µg/l	3	< 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 of II. quality class

River	/Prut	Catchment	27480	km ²	MD03
Distance from the mouth [km]	0.0	Altitude	5	m	
Location	Conf.Danube-Giurgiulesti L				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	10	69.2	120.1	162.0	131.5	154.8	
Temperature	°C	11	0.4	14.4	28.6	12.5	26.6	
Suspended Solids	mg/l	11	< 1	89	220	90	200	
Dissolved Oxygen	mg/l	11	6.2	9.4	12.5	9.6	6.6	II
BOD ₅	mg/l	11	2.0	2.7	3.3	2.7	3.3	II
COD _{Mn}	mg/l							
COD _{Cr}	mg/l	11	12.6	17.6	25.4	18.1	21.4	II
TOC	mg/l							
DOC	mg/l							
pH		11	7.9	8.1	8.5	8.1	8.4	II
							7.9	II
Alkalinity	mmol/l	9	2.0	3.4	4.5	3.7	4.1	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	11	0.090	0.379	0.830	0.340	0.800	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	11	< 0.005	0.091	0.700	0.026	0.070	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	11	< 0.10	1.55	3.45	1.39	2.51	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	11	0.009	0.037	0.057	0.044	0.053	II
Total Phosphorus	mg/l							
Total Phosphorus - Dissolved	mg/l	11	0.04	0.06	0.09	0.06	0.09	
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm							
Calcium (Ca ²⁺)	mg/l	9	32.1	55.8	77.8	52.1	71.2	
Sulphate (SO ₄ ²⁻)	mg/l	9	62	102	140	112	134	
Magnesium (Mg ²⁺)	mg/l	9	12.4	18.5	31.6	17.0	25.8	
Potassium (K ⁺)	mg/l	9	4.0	5.8	8.0	5.4	7.5	
Sodium (Na ⁺)	mg/l	9	30.8	44.6	61.0	44.4	60.2	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl ⁻)	mg/l	9	18	25	36	25	30	
Zinc (Zn) - Dissolved	µg/l	11	< 3.0	3.1	4.0	3.0	3.0	II
Copper (Cu) - Dissolved	µg/l	11	< 3.00	3.91	6.00	3.00	6.00	III
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l	11	< 3.00	< 3.00	< 3.00	3.00	3.00	**
Cadmium (Cd) - Dissolved	µg/l	11	< 0.50	< 0.50	< 0.50	0.50	0.50	**
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	11	< 3.00	< 3.00	< 3.00	3.00	3.00	**
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	11	4.1	6.7	10.4	6.1	8.1	II
Copper (Cu)	µg/l	11	5.77	11.57	19.27	12.11	16.59	II
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l	11	4.01	6.71	12.54	6.12	8.94	III
Cadmium (Cd)	µg/l	11	0.51	1.48	2.24	1.71	2.06	IV
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	11	5.27	11.43	20.79	11.0	14.8	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	11	< 0.001	0.004	0.009	0.001	0.008	
Anionic active surfactants	mg/l	11	0.020	0.035	0.080	0.030	0.040	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	11	< 0.050	0.073	0.200	0.050	0.150	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	5	< 0.050	< 0.050	< 0.050	0.050	0.050	I
pp DDT	µg/l	5	< 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 of II. quality class

River	/Prut	Catchment	23400	km ²	MD04
Distance from the mouth [km]	216.0	Altitude	14	m	
Location	Leova L				2002

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	11	69.5	131.6	207.0	134.0	172.0	
Temperature	°C	11	0.6	13.9	26.0	12.0	25.2	
Suspended Solids	mg/l	11	30	117	350	90	250	
Dissolved Oxygen	mg/l	11	6.1	9.2	12.6	9.4	6.8	II
BOD ₅	mg/l	11	2.3	3.1	4.6	3.0	3.4	II
COD _{Mn}	mg/l							
COD _{Cr}	mg/l	11	8.6	15.5	36.7	11.7	25.5	III
TOC	mg/l							
DOC	mg/l							
pH		11	7.9	8.2	8.5	8.3	8.4	II
							8.0	II
Alkalinity	mmol/l	9	2.6	3.5	4.5	3.6	4.2	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	11	0.090	0.465	1.200	0.420	0.740	IV
Nitrite-N (NO ₂ ⁻ -N)	mg/l	11	0.010	0.060	0.305	0.028	0.096	III
Nitrate-N (NO ₃ ⁻ -N)	mg/l	11	0.30	1.40	3.33	1.20	2.15	II
Total Nitrogen	mg/l							
Organic Nitrogen	mg/l							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	11	0.021	0.040	0.059	0.037	0.057	II
Total Phosphorus	mg/l							
Total Phosphorus - Dissolved	mg/l	11	0.03	0.05	0.08	0.06	0.08	
Chlorophyll-a	µg/l							
Conductivity @ 20°C	µS/cm							
Calcium (Ca ²⁺)	mg/l	9	44.1	58.0	81.8	52.1	75.2	
Sulphate (SO ₄ ²⁻)	mg/l	9	60	101	132	101	132	
Magnesium (Mg ²⁺)	mg/l	9	7.4	16.8	26.7	17.0	26.7	
Potassium (K ⁺)	mg/l	9	3.6	5.8	7.4	5.4	7.4	
Sodium (Na ⁺)	mg/l	9	28.6	44.7	64.0	42.0	64.0	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl ⁻)	mg/l	9	18	25	37	23	30	
Zinc (Zn) - Dissolved	µg/l	11	< 3.0	3.9	9.0	3.0	7.0	III
Copper (Cu) - Dissolved	µg/l	11	< 3.00	4.64	9.00	4.00	6.00	III
Chromium (Cr) - Dissolved	µg/l							
Lead (Pb) - Dissolved	µg/l	11	< 3.00	< 3.00	< 3.00	3.00	3.00	**
Cadmium (Cd) - Dissolved	µg/l	11	< 0.50	0.50	0.50	0.50	0.50	III
Mercury (Hg) - Dissolved	µg/l							
Nickel (Ni) - Dissolved	µg/l	11	< 3.00	< 3.00	< 3.00	3.00	3.00	**
Arsenic (As) - Dissolved	µg/l							
Aluminium (Al) - Dissolved	µg/l							
Zinc (Zn)	µg/l	11	3.5	6.6	11.1	5.9	9.5	II
Copper (Cu)	µg/l	11	6.48	13.77	21.70	14.37	19.91	II
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l	11	3.89	5.77	10.85	5.77	7.94	III
Cadmium (Cd)	µg/l	11	< 0.5	1.48	2.48	1.38	2.10	IV
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	11	6.50	13.72	22.64	11.5	21.4	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	11	< 0.001	0.005	0.010	0.005	0.009	
Anionic active surfactants	mg/l	11	0.020	0.032	0.050	0.030	0.040	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	11	< 0.050	0.058	0.110	0.050	0.070	
PAH (sum of 6)	µg/l							
PCB (sum of 7)	µg/l							
Lindane	µg/l	5	< 0.050	< 0.050	< 0.050	0.050	0.050	I
pp DDT	µg/l	5	< 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 of II. quality class