

River	Danube	Catchment	8107 km ²	D01
Distance from the mouth [km]	2581.0	Altitude	460 m	
Location	Neu-Ulm L			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	365	35.2	106.6	395.8	94.1	174.0	100.7	94.6	74.9	156.1
Temperature	°C	25	1.9	10.0	20.9	10.5	17.3	3.8	12.0	16.0	6.6
Suspended Solids	mg/l	25	2	8	22	6	18	5	9	11	8
Dissolved Oxygen	mg/l	23	7.6	10.5	13.9	10.2	8.6	12.0	9.4	9.2	11.5
pH	-	25	8.0	8.1	8.2	8.2	8.2	8.2	8.2	8.2	8.1
Conductivity @ 20°C	µS/cm	24	337	441	547	435	511	515	430	411	440
Alkalinity	mmol/l	25	3.3	4.1	4.8	4.0	4.7	4.3	4.0	3.9	4.2
Ammonium-N (NH ₄ ⁺ -N)	mg/l	25	0.01	0.06	0.13	0.05	0.13	0.12	0.05	0.03	0.06
Nitrite-N (NO ₂ ⁻ -N)	mg/l	25	0.007	0.020	0.030	0.020	0.027	0.025	0.022	0.015	0.018
Nitrate-N (NO ₃ ⁻ -N)	mg/l	25	1.50	2.73	4.20	2.50	3.76	3.46	2.58	2.07	3.00
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	25	0.003	0.036	0.052	0.041	0.051	0.048	0.033	0.021	0.046
Total Phosphorus	mg/l	25	0.05	0.07	0.13	0.07	0.11	0.07	0.06	0.08	0.08
Sodium (Na ⁺)	mg/l										
Potassium (K ⁺)	mg/l										
Calcium (Ca ²⁺)	mg/l										
Magnesium (Mg ²⁺)	mg/l										
Chloride (Cl ⁻)	mg/l	25	11	20	28	18	26	24	18	19	19
Sulphate (SO ₄ ²⁻)	mg/l	25	10	18	25	19	23	20	17	18	16
Iron (Fe)	mg/l	25	0.050	0.142	0.540	0.090	0.294	0.110	0.083	0.173	0.186
Manganese (Mn)	mg/l	25	0.010	0.018	0.060	0.020	0.030	0.014	0.017	0.026	0.016
Zinc (Zn)	µg/l	25	5.0	5.0	5.0						
Copper (Cu)	µg/l	25	0.5	4.9	22.0	3.0	10.2	3.4	3.4	8.9	3.3
Chromium (Cr) - total	µg/l	25	0.5	1.0	3.0	0.5	2.0	0.6	0.8	1.4	1.1
Lead (Pb)	µg/l	25	0.5	0.7	3.0	0.5	1.0	0.5	0.6	1.0	0.6
Cadmium (Cd)	µg/l	25	0.05	0.07	0.20	0.05	0.10	0.08	0.05	0.08	0.06
Mercury (Hg)	µg/l	25	0.050	0.052	0.100	0.050	0.050	0.050	0.058	0.050	0.050
Nickel (Ni)	µg/l	25	0.5	1.0	4.0	0.5	2.0	1.7	0.5	1.2	0.7
Arsenic (As)	µg/l	25	0.5	0.5	0.5						
Aluminium (Al)	µg/l										
BOD ₅	mg/l	24	0.5	1.2	3.7	1.2	2.0	1.2	1.3	1.4	0.7
COD _{Cr}	mg/l										
COD _{Mn}	mg/l	25	1.6	2.9	5.1	2.7	4.3	2.9	2.2	3.2	3.2
DOC	mg/l										
Phenol index	mg/l										
Anionic active surfactants	mg/l										
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	4	0.005	0.005	0.005						
pp'DDT	µg/l	4	0.010	0.010	0.010						
Atrazine	µg/l	4	0.005	0.009	0.010						
Chloroform	µg/l	12	0.10	0.10	0.10						
Carbon tetrachloride	µg/l	12	0.10	0.10	0.10						
Trichloroethylene	µg/l	12	0.10	0.10	0.10						
Tetrachloroethylene	µg/l	12	0.10	0.19	1.20	0.10	0.10	0.10	0.10	0.47	0.10
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										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	25	0.5	10.2	85.0	4.0	28.8	2.7	7.0	27.0	1.6

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	77086 km ²	D02
Distance from the mouth [km]	2204.0	Altitude	290 m	
Location	Jochenstein M			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	365	633.9	1317.1	3681.0	1212.8	1884.3	957.1	1251.7	1351.4	1699.7
Temperature	°C	26	1.8	10.3	19.7	10.3	17.8	4.7	13.2	16.5	6.5
Suspended Solids	mg/l	26	2	23	94	14	63	11	20	46	15
Dissolved Oxygen	mg/l	26	8.9	10.9	13.6	10.8	9.2	12.4	10.5	9.5	11.5
pH	-	26	7.7	8.1	8.5	8.0	8.3	8.1	8.2	8.1	7.9
Conductivity @ 20°C	µS/cm	26	257	338	420	335	405	403	320	282	353
Alkalinity	mmol/l	26	2.3	3.0	3.6	3.1	3.6	3.5	2.8	2.6	3.1
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	0.03	0.07	0.17	0.07	0.10	0.07	0.05	0.06	0.09
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.008	0.017	0.030	0.020	0.029	0.023	0.013	0.016	0.017
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	0.80	2.07	4.20	1.95	3.25	3.10	1.57	1.07	2.63
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	0.003	0.032	0.060	0.035	0.060	0.042	0.022	0.020	0.046
Total Phosphorus	mg/l	26	0.04	0.08	0.16	0.07	0.13	0.07	0.06	0.09	0.09
Sodium (Na ⁺)	mg/l										
Potassium (K ⁺)	mg/l										
Calcium (Ca ²⁺)	mg/l	26	39.4	51.5	62.6	49.8	61.6	59.8	49.0	43.7	54.1
Magnesium (Mg ²⁺)	mg/l	26	9.7	12.3	14.7	12.7	14.1	13.6	11.7	11.1	13.0
Chloride (Cl ⁻)	mg/l	26	9	15	25	14	21	20	13	10	16
Sulphate (SO ₄ ²⁻)	mg/l	26	20	27	39	27	33	33	27	24	27
Iron (Fe)	mg/l	26	0.095	0.343	1.300	0.200	0.790	0.146	0.185	0.706	0.284
Manganese (Mn)	mg/l	26	0.014	0.034	0.080	0.029	0.054	0.026	0.030	0.039	0.039
Zinc (Zn)	µg/l	26	5.0	10.0	30.0	10.0	10.0	8.3	8.3	12.1	10.7
Copper (Cu)	µg/l	26	2.0	3.0	5.0	3.0	4.0	2.8	2.8	3.1	3.0
Chromium (Cr) - total	µg/l	26	0.5	0.6	1.0	0.5	1.0	0.6	0.5	0.6	0.6
Lead (Pb)	µg/l	26	0.5	1.0	3.0	1.0	1.5	0.6	0.8	1.6	0.9
Cadmium (Cd)	µg/l	26	0.05	0.05	0.10	0.05	0.05	0.06	0.05	0.05	0.05
Mercury (Hg)	µg/l	26	0.050	0.056	0.100	0.050	0.075	0.058	0.058	0.057	0.050
Nickel (Ni)	µg/l	26	0.5	0.8	2.0	0.5	1.5	0.7	0.8	1.1	0.6
Arsenic (As)	µg/l	26	0.5	0.8	2.0	0.8	1.0	0.7	0.9	0.9	0.6
Aluminium (Al)	µg/l										
BOD ₅	mg/l	26	1.2	2.2	3.9	2.4	3.1	2.5	2.7	1.6	2.2
COD _{Cr}	mg/l	26	7.5	8.2	17.0	7.5	7.5	7.5	8.8	7.5	8.9
COD _{Mn}	mg/l	26	1.9	3.1	7.5	3.0	3.9	2.8	2.7	2.8	3.9
DOC	mg/l	26	1.3	2.6	5.8	2.4	3.4	2.4	2.3	2.3	3.3
Phenol index	mg/l	12	0.010	0.010	0.010						
Anionic active surfactants	mg/l	12	0.050	0.050	0.050						
Petroleum hydrocarbons	mg/l	12	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
AOX	µg/l	11	5.00	6.82	20.00	5.00	10.00	5.00	5.00	6.67	10.00
Lindane	µg/l	4	0.005	0.005	0.005						
pp'DDT	µg/l	4	0.010	0.010	0.010						
Atrazine	µg/l	11	0.005	0.011	0.020	0.010	0.020	0.015	0.013	0.008	0.010
Chloroform	µg/l	14	0.10	0.10	0.10						
Carbon tetrachloride	µg/l	14	0.10	0.10	0.10						
Trichloroethylene	µg/l	14	0.10	0.10	0.10						
Tetrachloroethylene	µg/l	14	0.10	0.10	0.10						
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										
Macrozoobenthos	no. of taxa	4	99	104	113						
Macrozoobenthos	sapr.index	4	2.2	2.2	2.3						
Chlorophyll-a	µg/l	26	0.5	15.2	59.0	10.0	30.0	15.2	30.7	13.0	4.1

* in case of dissolved oxygen C10 was calculated

River	/Inn	Catchment	9905 km ²	D03
Distance from the mouth [km]	195.0	Altitude	452 m	
Location	Kirchdorf M			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	365	72.0	277.9	717.8	244.5	488.4	136.7	345.2	403.1	224.0
Temperature	°C	26	2.1	8.7	16.9	9.0	15.1	3.9	10.9	13.7	6.2
Suspended Solids	mg/l	26	2	48	712	2	131	2	15	188	2
Dissolved Oxygen	mg/l	26	9.5	11.7	15.0	11.4	10.4	12.4	11.7	10.5	12.0
pH	-	26	7.7	8.2	8.6	8.3	8.4	8.1	8.3	8.2	8.2
Conductivity @ 20°C	µS/cm	26	155	250	463	245	322	310	233	210	249
Alkalinity	mmol/l										
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	0.02	0.10	0.22	0.08	0.19	0.19	0.11	0.04	0.05
Nitrite-N (NO ₂ ⁻ -N)	mg/l										
Nitrate-N (NO ₃ ⁻ -N)	mg/l	25	0.30	0.59	1.50	0.50	0.70	0.80	0.51	0.42	0.61
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	0.003	0.019	0.047	0.018	0.032	0.026	0.014	0.021	0.018
Total Phosphorus	mg/l	26	0.02	0.08	0.39	0.04	0.20	0.04	0.05	0.19	0.03
Sodium (Na ⁺)	mg/l										
Potassium (K ⁺)	mg/l										
Calcium (Ca ²⁺)	mg/l										
Magnesium (Mg ²⁺)	mg/l										
Chloride (Cl ⁻)	mg/l	26	2	3	7	3	5	5	3	2	4
Sulphate (SO ₄ ²⁻)	mg/l										
Iron (Fe)	mg/l	26	0.080	0.907	16.000	0.195	0.565	0.152	0.284	3.280	0.143
Manganese (Mn)	mg/l	26	0.004	0.031	0.393	0.011	0.060	0.011	0.020	0.094	0.006
Zinc (Zn)	µg/l	26	5.0	13.8	50.0	10.0	25.0	7.5	14.3	25.0	9.3
Copper (Cu)	µg/l	26	1.0	3.3	16.0	2.0	7.0	2.0	2.6	7.3	1.6
Chromium (Cr) - total	µg/l	26	0.5	1.9	9.0	1.0	4.5	0.8	1.6	4.3	1.1
Lead (Pb)	µg/l	26	0.5	1.8	12.0	1.0	3.0	0.8	1.6	3.8	0.9
Cadmium (Cd)	µg/l	26	0.05	0.07	0.20	0.05	0.10	0.06	0.06	0.13	0.06
Mercury (Hg)	µg/l	26	0.100	0.531	3.600	0.300	0.600	0.317	0.900	0.550	0.329
Nickel (Ni)	µg/l	26	1.0	2.7	18.0	1.5	5.5	1.5	2.1	6.5	1.1
Arsenic (As)	µg/l	26	1.0	2.3	6.0	2.0	3.5	2.0	2.0	3.0	2.1
Aluminium (Al)	µg/l										
BOD ₅	mg/l	26	0.5	1.9	4.4	1.6	3.4	2.3	2.6	1.3	1.2
COD _{Cr}	mg/l										
COD _{Mn}	mg/l	25	0.3	1.4	5.2	1.2	2.0	1.3	1.5	2.3	0.6
DOC	mg/l										
Phenol index	mg/l										
Anionic active surfactants	mg/l										
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	5	0.005	0.005	0.005						
pp'DDT	µg/l	5	0.010	0.010	0.010						
Atrazine	µg/l	4	0.005	0.005	0.005						
Chloroform	µg/l	13	0.10	0.12	0.30	0.10	0.10	0.10	0.10	0.10	0.15
Carbon tetrachloride	µg/l	13	0.10	0.10	0.10						
Trichloroethylene	µg/l	13	0.10	0.10	0.10						
Tetrachloroethylene	µg/l	13	0.10	0.10	0.10						
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										
Macrozoobenthos	no. of taxa	1	78	78	78						
Macrozoobenthos	sapr.index	1	1.9	1.9	1.9						
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	/Inn/Salzach	Catchment	6113 km ²	D04
Distance from the mouth [km]	47.0	Altitude	390 m	
Location	Laufen L			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	363	80.0	243.7	726.0	231.0	364.8	143.9	287.5	321.7	220.8
Temperature	°C	26	2.8	7.8	14.3	7.9	12.2	4.0	9.1	12.0	5.6
Suspended Solids	mg/l	26	2	19	205	4	40	3	6	61	3
Dissolved Oxygen	mg/l	26	8.4	11.3	13.4	11.1	10.5	12.4	11.0	10.3	11.7
pH	-	26	7.6	7.8	8.2	7.8	8.1	7.8	7.8	7.7	8.0
Conductivity @ 20°C	µS/cm	26	186	277	350	281	335	337	244	226	303
Alkalinity	mmol/l	26	1.7	2.5	3.2	2.6	2.9	2.9	2.2	2.1	2.8
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	0.01	0.05	0.17	0.04	0.11	0.09	0.06	0.05	0.02
Nitrite-N (NO ₂ ⁻ -N)	mg/l	3	0.006	0.008	0.009						
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	0.38	0.67	1.10	0.65	0.91	0.90	0.65	0.47	0.69
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	0.007	0.020	0.055	0.017	0.033	0.030	0.017	0.013	0.020
Total Phosphorus	mg/l	26	0.02	0.05	0.11	0.05	0.09	0.05	0.06	0.07	0.04
Sodium (Na ⁺)	mg/l										
Potassium (K ⁺)	mg/l										
Calcium (Ca ²⁺)	mg/l	26	28.1	44.0	56.0	44.0	51.1	50.9	40.6	36.6	48.5
Magnesium (Mg ²⁺)	mg/l	26	2.3	9.6	13.5	10.1	12.5	12.2	7.8	8.5	10.2
Chloride (Cl ⁻)	mg/l	26	3	7	12	6	11	11	6	4	8
Sulphate (SO ₄ ²⁻)	mg/l	26	12	21	34	19	28	28	17	16	22
Iron (Fe)	mg/l	26	0.070	0.728	5.100	0.200	1.850	0.152	0.368	2.106	0.153
Manganese (Mn)	mg/l	26	0.012	0.046	0.240	0.023	0.098	0.056	0.025	0.081	0.019
Zinc (Zn)	µg/l	26	5.0	13.1	30.0	10.0	20.0	10.0	10.0	20.0	11.4
Copper (Cu)	µg/l	25	1.0	10.5	100.0	2.0	20.8	2.0	2.3	32.0	2.0
Chromium (Cr) - total	µg/l	26	1.0	2.0	7.0	1.0	4.0	1.0	1.5	4.0	1.4
Lead (Pb)	µg/l	26	0.5	2.1	7.0	1.0	5.0	1.6	1.3	4.3	1.1
Cadmium (Cd)	µg/l	26	0.05	0.10	0.40	0.10	0.10	0.08	0.07	0.17	0.08
Mercury (Hg)	µg/l	23	0.050	0.102	0.400	0.050	0.300	0.170	0.150	0.050	0.050
Nickel (Ni)	µg/l	26	1.0	3.1	13.0	2.0	6.0	2.2	1.7	6.0	2.1
Arsenic (As)	µg/l	25	0.5	1.4	7.0	1.0	2.0	1.2	0.9	2.5	0.7
Aluminium (Al)	µg/l										
BOD ₅	mg/l	26	0.5	2.6	5.7	2.4	3.5	3.7	2.4	2.1	2.2
COD _{Cr}	mg/l										
COD _{Mn}	mg/l	26	1.1	2.3	6.4	2.1	3.9	1.9	2.0	3.4	1.9
DOC	mg/l	26	0.7	1.9	5.3	1.8	2.4	2.0	1.4	2.1	2.0
Phenol index	mg/l										
Anionic active surfactants	mg/l										
Petroleum hydrocarbons	mg/l										
AOX	µg/l	13	5.00	5.00	5.00						
Lindane	µg/l	4	0.005	0.005	0.005						
pp'DDT	µg/l	4	0.010	0.010	0.010						
Atrazine	µg/l	5	0.005	0.006	0.010	0.005	0.008	0.005	0.005	0.005	0.008
Chloroform	µg/l	13	0.10	0.10	0.10						
Carbon tetrachloride	µg/l	13	0.10	0.10	0.10						
Trichloroethylene	µg/l	13	0.10	0.10	0.10						
Tetrachloroethylene	µg/l	13	0.10	0.10	0.10						
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										
Macrozoobenthos	no. of taxa	1	58	58	58						
Macrozoobenthos	sapr.index	1	2.1	2.1	2.1						
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	77020 km ²	A01
Distance from the mouth [km]	2204.0	Altitude	290 m	
Location	Jochenstein M			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	365	649.0	1330.7	3692.0	1223.0	1914.8	960.3	1261.7	1367.3	1724.7
Temperature	°C	12	1.8	10.6	19.7	10.7	17.8	4.4	13.1	17.1	7.9
Suspended Solids	mg/l	12	3	18	40	13	35	7	10	33	20
Dissolved Oxygen	mg/l	12	8.6	10.8	13.8	10.8	9.2	12.6	10.7	9.3	10.7
pH	-	12	8.0	8.2	8.4	8.2	8.4	8.3	8.4	8.1	8.1
Conductivity @ 20°C	µS/cm	12	283	354	438	355	414	417	345	301	350
Alkalinity	mmol/l	12	2.5	3.1	3.7	3.1	3.6	3.6	3.1	2.7	3.0
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.05	0.11	0.29	0.09	0.17	0.09	0.11	0.08	0.15
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.009	0.015	0.027	0.014	0.021	0.021	0.011	0.011	0.017
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.04	2.14	3.20	1.87	3.01	3.03	1.73	1.24	2.57
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.003	0.033	0.075	0.037	0.064	0.051	0.012	0.019	0.051
Total Phosphorus	mg/l	12	0.05	0.10	0.22	0.08	0.18	0.12	0.07	0.10	0.13
Sodium (Na ⁺)	mg/l	12	6.6	9.8	13.2	9.8	12.5	12.3	9.9	7.6	9.2
Potassium (K ⁺)	mg/l	12	1.8	2.6	3.5	2.6	3.0	2.8	2.2	2.2	3.0
Calcium (Ca ²⁺)	mg/l	12	42.4	57.9	74.4	57.2	73.4	72.1	56.8	47.3	55.2
Magnesium (Mg ²⁺)	mg/l	12	9.6	14.4	22.1	13.0	21.1	20.4	13.4	11.9	11.9
Chloride (Cl ⁻)	mg/l	12	9	15	21	13	21	20	14	10	14
Sulphate (SO ₄ ²⁻)	mg/l	12	23	27	34	27	30	31	27	24	27
Iron (Fe)	mg/l	12	0.040	0.349	1.100	0.170	0.820	0.143	0.170	0.687	0.397
Manganese (Mn)	mg/l	12	0.005	0.025	0.051	0.019	0.044	0.012	0.026	0.034	0.027
Zinc (Zn)	µg/l	12	0.5	31.0	87.0	20.5	69.0	3.0	2.2	54.3	64.7
Copper (Cu)	µg/l	12	1.0	2.3	5.0	1.8	3.9	1.5	1.8	4.0	2.0
Chromium (Cr) - total	µg/l	12	0.5	0.6	1.0	0.5	1.0	0.5	0.5	0.8	0.5
Lead (Pb)	µg/l	12	0.5	1.1	2.1	0.9	2.0	0.5	0.6	1.3	1.8
Cadmium (Cd)	µg/l	12	0.10	0.10	0.10						
Mercury (Hg)	µg/l	12	0.100	0.168	0.650	0.100	0.334	0.370	0.100	0.100	0.100
Nickel (Ni)	µg/l	12	0.5	1.7	4.0	1.6	2.9	0.9	1.0	3.0	2.0
Arsenic (As)	µg/l	12	0.5	1.2	3.9	0.5	2.0	0.5	0.5	1.5	2.1
Aluminium (Al)	µg/l	6	87.0	356.2	540.0	420.0	510.0			480.0	232.3
BOD ₅	mg/l	12	0.9	2.4	4.9	2.1	4.4	1.5	3.7	2.6	1.8
COD _{Cr}	mg/l	12	2.5	7.3	15.0	7.0	8.9	7.0	7.7	5.2	9.3
COD _{Mn}	mg/l	12	2.0	3.1	7.8	2.8	3.5	2.9	2.6	2.6	4.5
DOC	mg/l	12	1.3	3.4	5.4	3.6	4.6	3.9	2.6	3.1	4.1
Phenol index	mg/l	12	0.005	0.005	0.005						
Anionic active surfactants	mg/l	6	0.050	0.050	0.050						
Petroleum hydrocarbons	mg/l	12	0.050	0.070	0.210	0.050	0.122	0.050	0.050	0.077	0.103
AOX	µg/l	12	4.70	8.68	16.00	7.35	13.73	7.77	8.67	5.63	12.63
Lindane	µg/l	12	0.025	0.025	0.025						
pp'DDT	µg/l	12	0.005	0.005	0.005						
Atrazine	µg/l	12	0.050	0.050	0.050						
Chloroform	µg/l	12	0.05	0.05	0.05						
Carbon tetrachloride	µg/l	12	0.05	0.05	0.05						
Trichloroethylene	µg/l	12	0.05	0.05	0.05						
Tetrachloroethylene	µg/l	12	0.05	0.06	0.10	0.05	0.10	0.07	0.05	0.05	0.07
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	0.800	7.783	18.000	5.600	16.900	1.667	3.800	15.667	10.000
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	12	0.100	0.521	1.600	0.300	1.325	0.227	0.187	1.107	0.563
Faecal Streptococci	10 ³ CFU/100 ml	12	0.005	0.113	0.430	0.085	0.188	0.080	0.055	0.175	0.140
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	4	33	38	43	38	42		41		33
Macrozoobenthos	sapr.index	4	1.9	2.1	2.2	2.1	2.2		2.1		1.9
Chlorophyll-a	µg/l	10	0.6	14.3	29.0	12.2	28.6	9.7	23.6	14.0	0.6

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	83992 km ²	A02
Distance from the mouth [km]	2120.0	Altitude	251 m	
Location	Abwinden-Asten R			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	365	697.0	1449.4	4212.0	1339.0	2129.6	1069.1	1394.5	1495.5	1829.8
Temperature	°C	12	2.0	11.0	20.3	11.3	17.7	4.7	13.6	17.4	8.2
Suspended Solids	mg/l	12	3	27	77	12	71	7	9	57	34
Dissolved Oxygen	mg/l	12	8.9	11.1	14.0	11.9	9.0	12.8	10.9	9.4	11.5
pH	-	12	8.0	8.3	8.5	8.2	8.5	8.3	8.4	8.2	8.1
Conductivity @ 20°C	µS/cm	12	306	364	436	359	426	422	346	321	365
Alkalinity	mmol/l	12	2.7	3.1	3.7	3.1	3.6	3.6	3.0	2.7	3.1
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.05	0.10	0.23	0.10	0.13	0.10	0.09	0.09	0.14
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.009	0.014	0.024	0.012	0.021	0.019	0.010	0.012	0.015
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.19	2.18	4.38	1.85	2.95	2.75	1.64	1.24	3.07
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.006	0.027	0.060	0.022	0.056	0.039	0.008	0.014	0.046
Total Phosphorus	mg/l	12	0.04	0.11	0.31	0.07	0.26	0.13	0.05	0.13	0.15
Sodium (Na ⁺)	mg/l	12	8.0	10.6	13.1	10.6	12.9	12.9	10.7	8.9	10.0
Potassium (K ⁺)	mg/l	12	2.0	2.6	3.6	2.7	3.3	2.7	2.1	2.4	3.2
Calcium (Ca ²⁺)	mg/l	12	43.2	59.5	78.0	57.6	72.7	74.3	58.4	48.9	56.4
Magnesium (Mg ²⁺)	mg/l	12	7.8	13.5	21.4	11.4	19.9	20.1	12.4	9.1	12.5
Chloride (Cl ⁻)	mg/l	12	14	19	26	18	24	24	17	17	17
Sulphate (SO ₄ ²⁻)	mg/l	12	21	27	34	26	31	31	26	23	27
Iron (Fe)	mg/l	12	0.080	0.424	1.500	0.190	1.070	0.167	0.117	0.910	0.503
Manganese (Mn)	mg/l	12	0.010	0.028	0.086	0.021	0.052	0.016	0.021	0.035	0.039
Zinc (Zn)	µg/l	12	2.0	28.6	83.0	13.0	66.0	4.3	2.7	61.3	46.0
Copper (Cu)	µg/l	12	1.1	2.9	6.0	1.9	5.9	1.8	1.6	5.3	2.8
Chromium (Cr) - total	µg/l	12	0.5	1.0	4.0	0.5	1.5	0.5	0.5	2.0	0.9
Lead (Pb)	µg/l	12	0.5	1.5	4.2	1.1	2.9	0.7	0.5	2.3	2.4
Cadmium (Cd)	µg/l	12	0.10	0.38	2.60	0.10	0.66	0.10	0.10	1.13	0.17
Mercury (Hg)	µg/l	12	0.100	0.114	0.270	0.100	0.100	0.157	0.100	0.100	0.100
Nickel (Ni)	µg/l	12	0.5	2.1	4.0	1.7	4.0	1.2	0.7	3.7	2.9
Arsenic (As)	µg/l	12	0.5	1.0	3.3	0.5	1.9	0.5	0.5	1.0	1.9
Aluminium (Al)	µg/l	6	86.0	346.0	760.0	330.0	600.0			476.7	215.3
BOD ₅	mg/l	12	1.0	2.6	5.4	1.8	5.1	1.3	3.2	3.3	2.7
COD _{Cr}	mg/l	12	5.0	8.4	18.0	7.0	10.9	7.3	9.3	6.3	10.7
COD _{Mn}	mg/l	12	2.3	3.2	8.4	2.8	3.8	2.8	2.8	3.0	4.5
DOC	mg/l	12	1.3	3.3	5.0	3.4	4.8	3.9	2.5	3.1	3.8
Phenol index	mg/l	6	0.005	0.005	0.005						
Anionic active surfactants	mg/l										
Petroleum hydrocarbons	mg/l	6	0.050	0.050	0.050						
AOX	µg/l	12	5.70	8.42	13.60	7.30	12.76	9.47	9.10	6.70	8.40
Lindane	µg/l	12	0.025	0.025	0.025						
pp'DDT	µg/l	12	0.005	0.005	0.005						
Atrazine	µg/l	12	0.050	0.050	0.050						
Chloroform	µg/l	12	0.05	0.05	0.05						
Carbon tetrachloride	µg/l	12	0.05	0.05	0.05						
Trichloroethylene	µg/l	12	0.05	0.05	0.05						
Tetrachloroethylene	µg/l	12	0.05	0.05	0.05						
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	0.500	5.802	14.000	4.500	11.760	2.133	1.540	9.133	10.400
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	12	0.005	0.517	1.600	0.305	1.430	0.167	0.062	0.853	0.987
Faecal Streptococci	10 ³ CFU/100 ml	12	0.005	0.097	0.450	0.035	0.284	0.027	0.008	0.120	0.233
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	2	28	29	29						
Macrozoobenthos	sapr.index	2	2.2	2.2	2.2						
Chlorophyll-a	µg/l	10	0.1	15.5	38.2	12.2	35.8	11.2	31.2	9.4	0.1

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	101700 km ²	A03
Distance from the mouth [km]	1935.0	Altitude	159 m	
Location	Wien-Nussdorf R			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	365	808.0	1816.7	5339.0	1670.0	2724.2	1335.6	1800.0	1882.1	2238.7
Temperature	°C	12	2.4	11.1	20.0	11.8	18.3	4.7	14.1	17.3	8.2
Suspended Solids	mg/l	12	3	28	124	12	69	6	14	46	46
Dissolved Oxygen	mg/l	12	9.2	11.8	14.4	12.3	9.7	13.1	12.4	9.7	12.0
pH	-	12	8.0	8.3	8.6	8.3	8.6	8.4	8.5	8.2	8.1
Conductivity @ 20°C	µS/cm	12	294	351	429	338	415	414	335	306	348
Alkalinity	mmol/l	12	2.5	3.0	3.6	3.0	3.5	3.5	3.0	2.7	3.0
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.07	0.11	0.29	0.10	0.12	0.09	0.10	0.09	0.17
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.006	0.017	0.036	0.015	0.029	0.028	0.009	0.010	0.020
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.16	1.96	2.87	1.72	2.85	2.70	1.46	1.31	2.36
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.003	0.032	0.067	0.028	0.063	0.047	0.006	0.026	0.048
Total Phosphorus	mg/l	12	0.06	0.13	0.46	0.09	0.15	0.13	0.08	0.09	0.22
Sodium (Na ⁺)	mg/l	12	7.0	9.5	12.5	9.2	12.2	12.0	9.4	7.8	8.7
Potassium (K ⁺)	mg/l	12	1.7	2.8	7.0	2.6	3.2	2.7	2.0	3.6	2.9
Calcium (Ca ²⁺)	mg/l	12	41.6	59.3	79.6	54.8	74.2	74.3	56.8	48.3	57.7
Magnesium (Mg ²⁺)	mg/l	12	7.7	12.6	18.2	11.9	16.6	15.6	13.7	10.7	10.5
Chloride (Cl ⁻)	mg/l	12	11	15	21	14	20	20	15	12	14
Sulphate (SO ₄ ²⁻)	mg/l	12	21	28	35	26	33	33	26	24	27
Iron (Fe)	mg/l	12	0.015	0.329	0.820	0.220	0.722	0.082	0.177	0.733	0.323
Manganese (Mn)	mg/l	12	0.010	0.019	0.034	0.018	0.033	0.013	0.017	0.030	0.016
Zinc (Zn)	µg/l	12	0.5	14.8	65.0	4.0	38.3	4.3	1.7	42.0	11.0
Copper (Cu)	µg/l	12	1.0	2.6	7.0	1.9	4.9	1.6	1.4	5.3	2.0
Chromium (Cr) - total	µg/l	12	0.5	0.6	1.0	0.5	1.0	0.5	0.5	1.0	0.5
Lead (Pb)	µg/l	12	0.5	1.3	5.0	1.0	2.0	0.5	0.7	2.7	1.3
Cadmium (Cd)	µg/l	12	0.10	0.18	1.00	0.10	0.10	0.10	0.10	0.40	0.10
Mercury (Hg)	µg/l	12	0.100	0.160	0.520	0.100	0.370	0.240	0.200	0.100	0.100
Nickel (Ni)	µg/l	12	0.5	1.5	3.0	1.1	3.0	0.7	1.1	2.7	1.5
Arsenic (As)	µg/l	12	0.5	1.2	3.0	0.5	2.9	0.5	0.5	2.3	1.3
Aluminium (Al)	µg/l	6	150.0	303.3	440.0	310.0	440.0			420.0	186.7
BOD ₅	mg/l	12	1.0	2.5	4.6	2.6	3.8	1.9	3.8	2.2	2.0
COD _{Cr}	mg/l	12	5.0	9.2	19.0	8.5	12.7	7.7	10.7	7.0	11.3
COD _{Mn}	mg/l	12	2.3	3.5	10.4	2.9	3.7	2.7	3.1	2.9	5.3
DOC	mg/l	12	1.5	3.1	4.7	3.3	4.4	3.6	2.2	2.9	3.8
Phenol index	mg/l	12	0.005	0.005	0.005						
Anionic active surfactants	mg/l	6	0.050	0.050	0.050						
Petroleum hydrocarbons	mg/l	12	0.050	0.050	0.050						
AOX	µg/l	12	6.70	8.58	16.90	7.80	9.57	8.53	7.63	7.50	10.67
Lindane	µg/l	12	0.025	0.025	0.025						
pp'DDT	µg/l	12	0.005	0.005	0.005						
Atrazine	µg/l	12	0.050	0.050	0.050						
Chloroform	µg/l	12	0.05	0.05	0.05						
Carbon tetrachloride	µg/l	12	0.05	0.05	0.05						
Trichloroethylene	µg/l	12	0.05	0.05	0.05						
Tetrachloroethylene	µg/l	12	0.05	0.05	0.05						
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	1.400	7.433	18.000	6.250	17.300	1.867	4.733	12.133	11.000
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	12	0.190	0.670	2.300	0.345	1.258	0.287	0.227	0.673	1.493
Faecal Streptococci	10 ³ CFU/100 ml	12	0.020	0.087	0.240	0.070	0.187	0.087	0.023	0.040	0.197
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	2	20	26	32						
Macrozoobenthos	sapr.index	2	2.1	2.1	2.2						
Chlorophyll-a	µg/l	11	0.2	19.8	61.0	14.8	40.8	26.1	33.5	12.7	0.2

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	131411 km ²	A04
Distance from the mouth [km]	1874.0			
Location	Wolfsthal R	Altitude	140 m	1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	365	981.0	1914.4	5513.0	1773.0	2881.0	1435.1	1871.3	1916.0	2424.2
Temperature	°C	18	2.4	11.2	21.0	11.8	19.0	4.6	13.3	17.5	7.3
Suspended Solids	mg/l	18	6	32	130	20	63	9	17	28	54
Dissolved Oxygen	mg/l	18	8.2	10.9	14.4	10.9	8.5	12.6	11.2	8.9	11.9
pH	-	18	7.6	8.2	8.6	8.2	8.4	8.3	8.4	8.1	8.0
Conductivity @ 20°C	µS/cm	18	291	352	452	342	415	429	358	305	357
Alkalinity	mmol/l	18	2.6	3.1	3.7	3.0	3.6	3.6	3.1	2.9	3.2
Ammonium-N (NH ₄ ⁺ -N)	mg/l	18	0.01	0.15	0.37	0.14	0.23	0.22	0.10	0.14	0.16
Nitrite-N (NO ₂ ⁻ -N)	mg/l	18	0.012	0.026	0.052	0.024	0.038	0.034	0.029	0.017	0.029
Nitrate-N (NO ₃ ⁻ -N)	mg/l	18	0.82	1.97	3.03	1.87	2.82	2.82	1.68	1.27	2.39
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	18	0.003	0.032	0.063	0.034	0.051	0.043	0.004	0.026	0.046
Total Phosphorus	mg/l	18	0.06	0.16	0.42	0.13	0.30	0.11	0.10	0.18	0.21
Sodium (Na ⁺)	mg/l	18	6.9	9.6	14.2	8.7	12.3	13.0	10.6	7.8	9.1
Potassium (K ⁺)	mg/l	18	1.9	2.7	3.2	2.7	3.0	2.9	2.4	2.4	2.9
Calcium (Ca ²⁺)	mg/l	18	44.8	58.4	77.2	55.8	75.4	76.3	60.9	49.2	57.3
Magnesium (Mg ²⁺)	mg/l	18	7.9	12.2	19.5	11.5	15.4	13.7	13.0	11.5	11.9
Chloride (Cl ⁻)	mg/l	18	11	15	23	14	21	21	16	13	15
Sulphate (SO ₄ ²⁻)	mg/l	18	22	28	39	28	34	36	29	25	28
Iron (Fe)	mg/l	18	0.090	0.551	2.330	0.378	1.186	0.140	0.174	0.577	0.919
Manganese (Mn)	mg/l	18	0.005	0.035	0.137	0.023	0.070	0.012	0.021	0.027	0.062
Zinc (Zn)	µg/l	18	0.5	7.1	25.0	3.5	19.1	3.0	2.0	5.2	13.6
Copper (Cu)	µg/l	18	1.0	2.6	5.0	2.1	5.0	1.5	1.7	3.0	3.2
Chromium (Cr) - total	µg/l	18	0.5	1.6	8.0	1.0	4.3	0.5	3.0	1.5	1.7
Lead (Pb)	µg/l	18	0.5	1.4	5.0	0.5	4.0	0.5	0.5	1.7	2.2
Cadmium (Cd)	µg/l	18	0.05	0.08	0.16	0.05	0.11	0.10	0.10	0.07	0.07
Mercury (Hg)	µg/l	18	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
Nickel (Ni)	µg/l	18	0.5	2.1	6.0	2.0	4.3	1.4	1.0	2.1	3.0
Arsenic (As)	µg/l	18	0.5	0.7	2.0	0.5	1.3	0.5	0.5	0.9	0.8
Aluminium (Al)	µg/l	12	94.0	436.5	1270.0	331.0	1039.6			364.2	508.8
BOD ₅	mg/l	17	1.3	2.9	5.9	2.7	4.4	2.7	4.3	2.1	3.2
COD _{Cr}	mg/l	18	7.0	11.8	25.0	10.5	18.9	8.0	10.0	13.0	13.3
COD _{Mn}	mg/l	18	2.3	3.8	9.6	3.2	6.1	3.0	3.1	3.0	5.3
DOC	mg/l	18	1.7	3.9	6.5	3.9	5.3	3.9	2.6	3.3	5.1
Phenol index	mg/l	18	0.005	0.005	0.005						
Anionic active surfactants	mg/l	18	0.010	0.027	0.050	0.020	0.050	0.050	0.050	0.012	0.020
Petroleum hydrocarbons	mg/l	18	0.050	0.050	0.050						
AOX	µg/l	18	5.50	9.19	18.50	8.75	11.79	8.87	8.07	9.13	9.97
Lindane	µg/l	18	0.025	0.025	0.025						
pp'DDT	µg/l	18	0.005	0.005	0.005						
Atrazine	µg/l	18	0.050	0.050	0.050						
Chloroform	µg/l	18	0.05	0.05	0.05						
Carbon tetrachloride	µg/l	18	0.05	0.05	0.05						
Trichloroethylene	µg/l	18	0.05	0.05	0.05						
Tetrachloroethylene	µg/l	18	0.05	0.05	0.05						
Total Coliforms (37°C)	10 ³ CFU/100 ml	18	3.500	78.906	280.000	32.500	204.000	12.167	17.267	142.667	79.333
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	18	0.530	8.241	20.000	8.050	14.000	2.843	3.800	12.367	9.033
Faecal Streptococci	10 ³ CFU/100 ml	18	0.110	0.854	1.900	0.655	1.660	0.790	0.357	0.775	1.215
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	2	12	14	16						
Macrozoobenthos	sapr.index	2	1.9	2.0	2.0	2.0	2.0				1.9
Chlorophyll-a	µg/l	12	0.1	22.5	63.6	13.8	50.8	23.7	46.1	17.7	2.6

* in case of dissolved oxygen C10 was calculated

River	/Morava	Catchment	9883 km ²	CZ01
Distance from the mouth [km]	79.0	Altitude	200 m	
Location	Lanzhot M			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	365	11.1	59.4	364.0	48.3	109.6	52.0	42.5	27.9	93.6
Temperature	°C	12	0.2	11.1	23.8	12.3	19.9	3.9	17.2	18.6	8.5
Suspended Solids	mg/l	12	1	11	32	7	23	3	7	16	23
Dissolved Oxygen	mg/l	12	8.6	11.0	13.9	10.9	8.9	12.4	9.8	9.6	11.2
pH	-	12	7.9	8.2	8.8	8.1	8.3	8.1	8.1	8.4	8.0
Conductivity @ 20°C	µS/cm	12	389	467	595	466	518	490	459	450	442
Alkalinity	mmol/l	12	2.4	2.9	3.4	2.9	3.2	3.0	2.9	2.7	2.7
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.02	0.39	1.40	0.20	0.67	0.82	0.10	0.08	0.34
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.025	0.049	0.083	0.046	0.069	0.046	0.064	0.041	0.053
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.85	3.28	4.18	3.29	4.14	3.90	3.15	2.29	3.56
Organic Nitrogen	mg/l	12	0.39	0.97	2.79	0.72	1.64	1.22	1.03	0.89	0.55
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.095	0.142	0.176	0.144	0.172	0.153	0.136	0.132	0.143
Total Phosphorus	mg/l	12	0.15	0.20	0.30	0.20	0.22	0.19	0.20	0.20	0.22
Sodium (Na ⁺)	mg/l	12	14.6	20.0	27.3	18.7	25.1	19.7	20.6	22.6	16.3
Potassium (K ⁺)	mg/l	12	4.0	5.0	6.3	4.8	6.1	4.7	5.2	5.5	4.6
Calcium (Ca ²⁺)	mg/l	12	44.9	65.9	82.3	64.4	78.9	69.2	62.5	61.5	67.3
Magnesium (Mg ²⁺)	mg/l	12	8.6	11.7	16.7	11.3	13.7	12.0	11.7	11.2	11.7
Chloride (Cl ⁻)	mg/l	12	19	26	37	25	33	27	25	27	22
Sulphate (SO ₄ ²⁻)	mg/l	12	63	77	102	76	86	79	76	75	74
Iron (Fe)	mg/l	12	0.140	0.368	0.610	0.390	0.559	0.445	0.257	0.233	0.510
Manganese (Mn)	mg/l	12	0.080	0.111	0.200	0.105	0.138	0.130	0.100	0.097	0.100
Zinc (Zn)	µg/l	12	0.0	7.3	15.0	9.0	12.9	5.3	7.0	8.0	10.7
Copper (Cu)	µg/l	12	0.5	2.3	3.7	2.3	3.2	2.0	2.3	2.1	3.2
Chromium (Cr) - total	µg/l	12	0.5	1.1	5.4	0.5	1.5	1.7	0.7	0.5	1.0
Lead (Pb)	µg/l	12	0.5	1.2	3.2	1.1	2.0	1.0	0.8	0.9	2.3
Cadmium (Cd)	µg/l	12	0.05	0.13	0.50	0.05	0.20	0.09	0.25	0.07	0.10
Mercury (Hg)	µg/l	12	0.050	0.083	0.200	0.050	0.190	0.100	0.067	0.050	0.100
Nickel (Ni)	µg/l	12	0.5	1.5	2.7	1.7	2.6	1.4	1.1	2.1	1.8
Arsenic (As)	µg/l	12	0.5	0.8	1.6	0.5	1.6	0.7	0.9	1.1	0.7
Aluminium (Al)	µg/l	12	35.8	73.3	176.3	71.2	90.7	62.0	108.4	56.1	72.5
BOD ₅	mg/l	12	3.0	4.4	7.4	3.8	6.5	3.5	5.2	5.1	3.5
COD _{Cr}	mg/l	12	10.8	18.8	27.8	18.4	25.4	16.1	21.0	23.9	14.9
COD _{Mn}	mg/l	12	2.7	4.7	7.0	5.0	6.0	3.4	5.7	5.6	4.4
DOC	mg/l	12	0.5	5.3	7.9	5.4	7.2	5.1	6.4	6.0	4.3
Phenol index	mg/l	12	0.002	0.025	0.075	0.017	0.064	0.030	0.029	0.027	0.010
Anionic active surfactants	mg/l	12	0.005	0.016	0.050	0.005	0.039	0.018	0.033	0.005	0.005
Petroleum hydrocarbons	mg/l	12	0.015	0.032	0.100	0.015	0.079	0.031	0.043	0.015	0.033
AOX	µg/l	12	10.70	15.54	25.40	14.20	23.62	13.00	22.93	12.43	13.10
Lindane	µg/l	12	0.001	0.032	0.130	0.020	0.050	0.027	0.017	0.030	0.057
pp'DDT	µg/l	12	0.001	0.006	0.020	0.001	0.020	0.005	0.010	0.007	0.001
Atrazine	µg/l	12	0.050	0.258	1.100	0.100	0.930	0.050	0.800	0.100	0.100
Chloroform	µg/l	12	0.02	0.55	5.90	0.02	0.20	0.06	0.02	0.14	1.98
Carbon tetrachloride	µg/l	12	0.05	0.05	0.05						
Trichloroethylene	µg/l	12	0.05	0.05	0.05						
Tetrachloroethylene	µg/l	12	0.05	0.10	0.20	0.05	0.20	0.16	0.05	0.10	0.05
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	1.400	3.275	6.400	2.850	5.500	1.850	3.933	3.300	4.667
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	12	0.200	1.292	2.600	1.100	2.200	0.525	1.400	1.467	2.200
Faecal Streptococci	10 ³ CFU/100 ml	12	0.000	0.417	1.000	0.300	0.980	0.100	0.600	0.333	0.867
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	4	9	20	32						
Macrozoobenthos	sapr.index	4	2.2	2.2	2.3						
Chlorophyll-a	µg/l	12	1.3	14.8	45.5	7.1	38.3	8.1	32.7	14.6	2.7

* in case of dissolved oxygen C10 was calculated

River	/Morava/Dyje	Catchment	12352 km ²	CZ02
Distance from the mouth [km]	17.0	Altitude	155 m	
Location	Breclav L			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	365	8.2	25.7	91.3	25.4	37.3	28.6	23.5	14.6	30.7
Temperature	°C	12	1.2	11.5	25.9	11.5	19.6	4.7	15.6	19.8	5.8
Suspended Solids	mg/l	12	14	27	46	26	36	19	28	22	39
Dissolved Oxygen	mg/l	12	7.8	10.5	13.0	10.1	8.1	12.5	9.3	9.0	11.2
pH	-	12	7.9	8.2	8.7	8.2	8.3	8.2	8.1	8.4	8.1
Conductivity @ 20°C	µS/cm	12	542	670	787	650	784	778	647	647	607
Alkalinity	mmol/l	12	2.3	3.1	3.9	3.1	3.5	3.6	2.8	3.2	2.7
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.08	0.34	0.60	0.29	0.56	0.49	0.30	0.23	0.34
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.037	0.060	0.105	0.052	0.095	0.051	0.075	0.070	0.045
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.72	3.63	6.94	3.27	6.39	6.33	2.90	1.25	4.02
Organic Nitrogen	mg/l	12	1.08	1.54	2.52	1.44	2.33	1.21	1.59	2.21	1.17
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.114	0.342	0.688	0.292	0.630	0.242	0.337	0.556	0.234
Total Phosphorus	mg/l	12	0.17	0.51	1.41	0.40	0.92	0.36	0.69	0.69	0.29
Sodium (Na ⁺)	mg/l	12	23.8	31.7	35.0	32.5	34.5	33.2	32.2	33.1	28.1
Potassium (K ⁺)	mg/l	12	9.8	12.2	14.2	11.9	14.0	10.7	12.3	14.0	11.6
Calcium (Ca ²⁺)	mg/l	12	59.8	72.8	86.6	71.6	83.8	82.8	68.4	69.4	70.6
Magnesium (Mg ²⁺)	mg/l	12	21.0	25.6	31.1	26.0	28.9	28.5	25.1	24.1	24.8
Chloride (Cl ⁻)	mg/l	12	32	45	52	46	51	49	46	46	38
Sulphate (SO ₄ ²⁻)	mg/l	12	94	130	173	127	165	166	139	102	113
Iron (Fe)	mg/l	12	0.210	0.348	0.810	0.290	0.526	0.283	0.463	0.347	0.300
Manganese (Mn)	mg/l	12	0.070	0.168	0.400	0.130	0.275	0.093	0.167	0.303	0.110
Zinc (Zn)	µg/l	12	12.0	23.8	55.0	19.0	44.7	30.0	17.0	30.0	18.3
Copper (Cu)	µg/l	12	0.5	4.0	6.4	4.0	5.9	5.2	4.5	2.9	3.5
Chromium (Cr) - total	µg/l	12	0.5	0.8	2.2	0.5	1.2	1.1	0.5	1.1	0.5
Lead (Pb)	µg/l	12	1.2	2.0	3.4	2.2	2.4	2.2	2.0	1.9	2.0
Cadmium (Cd)	µg/l	12	0.05	0.73	3.80	0.45	1.24	0.35	1.87	0.30	0.40
Mercury (Hg)	µg/l	12	0.050	0.067	0.100	0.050	0.100	0.083	0.067	0.050	0.067
Nickel (Ni)	µg/l	12	1.3	3.6	5.3	3.8	4.9	3.2	3.5	4.4	3.2
Arsenic (As)	µg/l	12	1.3	2.2	4.3	1.9	3.1	1.8	2.2	3.4	1.3
Aluminium (Al)	µg/l	12	31.0	95.9	384.4	73.3	109.5	81.0	180.3	62.8	59.7
BOD ₅	mg/l	12	3.3	6.4	11.5	6.3	8.4	6.5	6.3	7.9	5.1
COD _{Cr}	mg/l	12	25.7	36.4	47.7	37.8	43.4	38.3	36.8	42.3	28.3
COD _{Mn}	mg/l	12	6.5	9.0	11.7	9.1	11.1	8.2	9.0	10.8	8.1
DOC	mg/l	12	3.7	11.3	25.8	10.4	14.6	10.7	9.0	17.0	8.5
Phenol index	mg/l	12	0.002	0.014	0.038	0.012	0.027	0.013	0.007	0.019	0.018
Anionic active surfactants	mg/l	12	0.005	0.010	0.030	0.005	0.020	0.012	0.020	0.005	0.005
Petroleum hydrocarbons	mg/l	12	0.015	0.028	0.090	0.015	0.059	0.028	0.015	0.055	0.015
AOX	µg/l	12	18.20	23.04	30.40	22.00	29.67	23.00	19.43	26.77	22.97
Lindane	µg/l	12	0.001	0.059	0.384	0.030	0.050	0.150	0.030	0.027	0.030
pp'DDT	µg/l	12	0.001	0.012	0.037	0.012	0.020	0.017	0.014	0.017	0.001
Atrazine	µg/l	12	0.050	0.171	0.700	0.050	0.390	0.050	0.467	0.117	0.050
Chloroform	µg/l	12	0.02	0.10	0.60	0.02	0.29	0.21	0.11	0.02	0.08
Carbon tetrachloride	µg/l	12	0.05	0.05	0.05						
Trichloroethylene	µg/l	12	0.05	0.05	0.05						
Tetrachloroethylene	µg/l	12	0.05	0.05	0.05						
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	3.600	6.033	8.600	6.100	8.200	4.933	4.533	6.933	7.733
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	12	1.000	2.167	3.600	2.000	3.560	1.400	1.533	2.667	3.067
Faecal Streptococci	10 ³ CFU/100 ml	12	0.000	0.633	1.600	0.700	1.000	0.733	0.867	0.267	0.667
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	4	20	21	22						
Macrozoobenthos	sapr.index	4	2.0	2.1	2.2						
Chlorophyll-a	µg/l	12	3.5	20.0	44.9	17.1	37.4	13.7	12.7	37.0	16.4

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	131329 km ²	SK01
Distance from the mouth [km]	1869.0	Altitude	128 m	
Location	Bratislava M			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	365	944.4	1967.6	5443.0	1806.0	2924.8	1474.6	1947.8	1957.8	2544.2
Temperature	°C	24	0.3	11.2	21.3	12.0	19.0	4.4	14.3	17.4	7.1
Suspended Solids	mg/l	24	4	22	137	13	29	9	15	30	33
Dissolved Oxygen	mg/l	24	7.5	10.3	12.8	10.9	8.0	11.7	10.5	8.7	10.8
pH	-	24	7.9	8.2	8.7	8.1	8.5	8.1	8.3	8.1	8.1
Conductivity @ 20°C	µS/cm	24	290	372	463	365	455	447	345	318	389
Alkalinity	mmol/l	24	2.5	3.0	3.6	3.0	3.5	3.5	2.8	2.7	3.2
Ammonium-N (NH ₄ ⁺ -N)	mg/l	24	0.02	0.14	0.31	0.12	0.27	0.20	0.10	0.10	0.17
Nitrite-N (NO ₂ ⁻ -N)	mg/l	24	0.002	0.074	0.639	0.020	0.233	0.226	0.023	0.026	0.019
Nitrate-N (NO ₃ ⁻ -N)	mg/l	24	0.63	1.99	3.19	1.89	2.98	2.85	1.58	1.22	2.52
Organic Nitrogen	mg/l	24	0.10	0.50	1.88	0.34	1.17	0.26	0.41	0.58	0.78
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	24	0.008	0.044	0.126	0.036	0.072	0.060	0.025	0.035	0.062
Total Phosphorus	mg/l	24	0.03	0.07	0.16	0.06	0.12	0.08	0.04	0.06	0.10
Sodium (Na ⁺)	mg/l	24	6.0	10.0	14.5	10.0	13.4	12.6	8.6	7.8	11.9
Potassium (K ⁺)	mg/l	24	1.7	2.6	3.8	2.7	3.3	3.1	2.2	2.3	3.2
Calcium (Ca ²⁺)	mg/l	24	42.3	55.8	69.1	55.0	67.5	64.3	51.7	49.5	59.4
Magnesium (Mg ²⁺)	mg/l	24	6.1	13.9	19.4	14.6	17.4	17.3	12.9	11.2	14.7
Chloride (Cl ⁻)	mg/l	24	11	17	23	16	22	22	15	14	17
Sulphate (SO ₄ ²⁻)	mg/l	24	23	32	46	30	44	41	29	26	33
Iron (Fe)	mg/l	24	0.100	0.348	1.860	0.260	0.494	0.197	0.238	0.609	0.294
Manganese (Mn)	mg/l	24	0.025	0.040	0.250	0.025	0.050	0.029	0.063	0.025	0.047
Zinc (Zn)	µg/l	4	10.0	18.0	22.0	20.0	21.4	10.0	22.0	20.0	20.0
Copper (Cu)	µg/l	4	1.9	2.6	3.0	2.8	2.9	2.8	1.9	3.0	2.8
Chromium (Cr) - total	µg/l	4	0.1	0.7	1.4	0.7	1.2	0.6	1.4	0.1	0.8
Lead (Pb)	µg/l	4	0.1	1.2	2.3	1.2	2.0	1.4	0.1	1.0	2.3
Cadmium (Cd)	µg/l	4	0.01	0.05	0.07	0.06	0.07	0.05	0.01	0.07	0.06
Mercury (Hg)	µg/l	4	0.050	0.088	0.200	0.050	0.155	0.050	0.200	0.050	0.050
Nickel (Ni)	µg/l	4	1.2	2.6	4.3	2.4	3.8	2.2	1.2	4.3	2.5
Arsenic (As)	µg/l	4	0.5	0.9	1.4	0.8	1.3	0.5	1.1	1.4	0.5
Aluminium (Al)	µg/l										
BOD ₅	mg/l	24	0.3	2.0	3.8	1.9	3.6	2.5	2.8	1.2	1.3
COD _{Cr}	mg/l	24	5.7	10.6	16.8	11.0	13.3	11.1	11.3	8.8	11.7
COD _{Mn}	mg/l	24	2.5	3.7	6.2	3.6	4.5	3.7	3.7	3.3	4.3
DOC	mg/l										
Phenol index	mg/l	24	0.001	0.004	0.009	0.004	0.006	0.005	0.005	0.003	0.003
Anionic active surfactants	mg/l	24	0.020	0.046	0.111	0.038	0.076	0.027	0.051	0.034	0.079
Petroleum hydrocarbons	mg/l	24	0.020	0.030	0.050	0.030	0.050	0.030	0.037	0.023	0.034
AOX	µg/l	23	4.50	51.96	229.00	38.40	87.42	35.06	53.72	30.56	112.13
Lindane	µg/l	4	0.003	0.014	0.037	0.008	0.030	0.013	0.003	0.003	0.037
pp'DDT	µg/l	4	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Atrazine	µg/l	4	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
Chloroform	µg/l	4	0.50	2.63	9.00	0.50	6.45	9.00	0.50	0.50	0.50
Carbon tetrachloride	µg/l	4	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Trichloroethylene	µg/l	4	0.05	0.26	0.90	0.05	0.65	0.90	0.05	0.05	0.05
Tetrachloroethylene	µg/l	4	0.50	0.63	1.00	0.50	0.85	0.50	0.50	1.00	0.50
Total Coliforms (37°C)	10 ³ CFU/100 ml	24	0.022	0.062	0.134	0.056	0.106	0.037	0.051	0.086	0.070
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	24	0.005	0.028	0.066	0.029	0.042	0.018	0.027	0.038	0.029
Faecal Streptococci	10 ³ CFU/100 ml	24	0.100	0.679	1.300	0.550	1.170	0.567	0.567	0.700	0.920
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	6	10	16	22	18	21	18		21	11
Macrozoobenthos	sapr.index	6	2.0	2.0	2.1	2.1	2.1	2.1		2.1	2.0
Chlorophyll-a	µg/l	24	2.4	22.7	89.3	12.5	45.9	26.4	45.5	14.1	2.9

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	132168 km ²	SK02
Distance from the mouth [km]	1806.0	Altitude	108 m	
Location	Medvedov/Medve M			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	365	921.2	1886.4	4991.0	1733.0	2986.6	1391.9	1871.0	1869.0	2467.6
Temperature	°C	12	2.1	12.1	22.0	11.7	21.0	6.0	16.3	18.5	7.5
Suspended Solids	mg/l	12	3	18	62	15	21	10	14	19	29
Dissolved Oxygen	mg/l	12	8.0	10.2	12.3	10.8	8.0	11.7	10.6	8.0	10.6
pH	-	12	7.8	8.2	8.5	8.2	8.3	8.1	8.4	8.0	8.1
Conductivity @ 20°C	µS/cm	12	299	371	445	363	441	442	343	317	383
Alkalinity	mmol/l	12	2.5	3.0	3.6	3.0	3.5	3.5	2.8	2.6	3.2
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.04	0.14	0.30	0.13	0.20	0.09	0.11	0.14	0.20
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.012	0.022	0.034	0.021	0.031	0.025	0.014	0.019	0.028
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.80	1.90	2.80	1.92	2.66	2.56	1.35	1.22	2.47
Organic Nitrogen	mg/l	12	0.11	0.54	1.36	0.48	0.92	0.27	0.81	0.58	0.49
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.008	0.045	0.125	0.042	0.081	0.039	0.013	0.044	0.084
Total Phosphorus	mg/l	12	0.03	0.08	0.22	0.05	0.18	0.05	0.03	0.10	0.13
Sodium (Na ⁺)	mg/l	12	6.3	9.6	12.8	9.6	12.5	12.5	8.1	6.5	11.1
Potassium (K ⁺)	mg/l	12	2.0	2.7	4.3	2.7	3.5	2.8	2.3	2.8	3.1
Calcium (Ca ²⁺)	mg/l	12	24.0	54.3	69.1	56.3	67.8	67.1	42.1	48.7	59.3
Magnesium (Mg ²⁺)	mg/l	12	9.7	14.6	30.4	13.7	15.8	15.8	19.5	10.0	13.2
Chloride (Cl ⁻)	mg/l	12	13	17	22	15	21	21	16	13	16
Sulphate (SO ₄ ²⁻)	mg/l	12	19	30	39	30	38	37	28	22	32
Iron (Fe)	mg/l	12	0.060	0.182	0.490	0.155	0.326	0.163	0.083	0.200	0.280
Manganese (Mn)	mg/l	12	0.025	0.048	0.170	0.025	0.122	0.033	0.060	0.073	0.025
Zinc (Zn)	µg/l	4	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Copper (Cu)	µg/l	4	1.5	1.9	2.5	1.9	2.4	1.7	1.5	2.0	2.5
Chromium (Cr) - total	µg/l	4	0.1	0.4	1.1	0.2	0.9	0.4	0.1	0.1	1.1
Lead (Pb)	µg/l	4	0.1	0.7	2.6	0.1	1.8	0.1	0.1	0.1	2.6
Cadmium (Cd)	µg/l	4	0.01	0.04	0.12	0.02	0.09	0.03	0.01	0.01	0.12
Mercury (Hg)	µg/l	4	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
Nickel (Ni)	µg/l	4	1.4	3.3	6.2	2.7	5.4	1.4	1.9	6.2	3.5
Arsenic (As)	µg/l	4	0.5	0.8	1.2	0.8	1.1	0.5	0.5	1.2	1.0
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	0.6	2.0	3.5	2.3	3.1	2.2	2.8	2.1	0.7
COD _{Cr}	mg/l	12	7.0	10.9	16.0	10.3	14.6	10.5	13.5	9.4	10.0
COD _{Mn}	mg/l	12	2.9	3.8	6.2	3.5	4.8	3.5	4.0	3.2	4.3
DOC	mg/l										
Phenol index	mg/l	12	0.001	0.003	0.006	0.004	0.006	0.004	0.004	0.004	0.001
Anionic active surfactants	mg/l	12	0.020	0.044	0.090	0.035	0.085	0.026	0.053	0.033	0.065
Petroleum hydrocarbons	mg/l	12	0.020	0.037	0.130	0.025	0.040	0.033	0.033	0.020	0.060
AOX	µg/l	10	21.70	52.28	129.00	42.15	90.21	69.30	37.55	73.60	29.43
Lindane	µg/l	4	0.003	0.008	0.018	0.005	0.015	0.003	0.007	0.003	0.018
pp'DDT	µg/l	4	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Atrazine	µg/l	4	0.025	0.031	0.050	0.025	0.043	0.025	0.050	0.025	0.025
Chloroform	µg/l	4	0.50	1.13	2.00	1.00	1.70	1.00	1.00	2.00	0.50
Carbon tetrachloride	µg/l	4	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Trichloroethylene	µg/l	4	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Tetrachloroethylene	µg/l	4	0.50	3.00	10.00	0.75	7.30	0.50	0.50	10.00	1.00
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	0.001	0.014	0.048	0.007	0.034	0.005	0.003	0.020	0.028
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	12	0.001	0.004	0.012	0.003	0.009	0.003	0.002	0.006	0.007
Faecal Streptococci	10 ³ CFU/100 ml	12	0.000	0.083	0.300	0.000	0.290	0.033	0.000	0.067	0.233
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	3	16	19	22						
Macrozoobenthos	sapr.index	3	2.0	2.1	2.1						
Chlorophyll-a	µg/l	12	2.0	22.5	69.4	7.1	54.6	30.0	50.9	6.7	2.4

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	151961 km ²	SK03
Distance from the mouth [km]	1768.0	Altitude	103 m	
Location	Komarom/Komarom M			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	365	956.5	1947.5	5008.0	1835.0	2875.2	1456.6	1911.4	1926.8	2554.1
Temperature	°C	12	1.9	11.7	22.0	10.8	20.4	5.7	15.8	18.4	6.9
Suspended Solids	mg/l	12	4	21	72	12	49	11	14	24	36
Dissolved Oxygen	mg/l	12	7.9	10.3	12.5	10.7	8.0	12.0	10.9	8.0	10.3
pH	-	12	7.7	8.2	8.5	8.2	8.4	8.1	8.4	8.0	8.2
Conductivity @ 20°C	µS/cm	12	308	391	487	383	478	479	353	319	414
Alkalinity	mmol/l	12	2.6	3.1	3.8	3.1	3.7	3.7	2.8	2.7	3.3
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.06	0.14	0.32	0.11	0.27	0.15	0.08	0.16	0.18
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.007	0.021	0.038	0.020	0.036	0.030	0.013	0.017	0.023
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.76	1.99	3.07	1.86	3.02	2.92	1.27	1.27	2.50
Organic Nitrogen	mg/l	12	0.13	0.60	1.80	0.55	1.18	0.30	0.80	0.85	0.45
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.008	0.039	0.079	0.034	0.074	0.037	0.012	0.042	0.063
Total Phosphorus	mg/l	12	0.03	0.07	0.18	0.06	0.10	0.05	0.03	0.09	0.09
Sodium (Na ⁺)	mg/l	12	6.2	10.7	16.8	10.2	15.0	14.7	8.6	6.8	12.7
Potassium (K ⁺)	mg/l	12	2.1	3.0	4.3	3.1	4.2	3.4	2.5	2.9	3.3
Calcium (Ca ²⁺)	mg/l	12	44.3	56.3	69.1	57.0	68.8	67.1	49.8	47.3	61.0
Magnesium (Mg ²⁺)	mg/l	12	9.8	14.6	20.7	13.7	19.8	19.6	14.4	10.6	13.8
Chloride (Cl ⁻)	mg/l	12	12	18	25	17	23	24	16	13	19
Sulphate (SO ₄ ²⁻)	mg/l	12	25	35	49	35	48	48	30	25	39
Iron (Fe)	mg/l	12	0.110	0.284	0.760	0.245	0.457	0.230	0.120	0.487	0.300
Manganese (Mn)	mg/l	11	0.025	0.027	0.050	0.025	0.025	0.038	0.025	0.025	0.025
Zinc (Zn)	µg/l	4	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Copper (Cu)	µg/l	4	1.2	2.3	3.0	2.4	2.9	2.3	1.2	3.0	2.5
Chromium (Cr) - total	µg/l	4	0.1	0.6	1.1	0.7	1.0	0.6	0.7	0.1	1.1
Lead (Pb)	µg/l	4	0.1	0.7	1.7	0.5	1.5	1.0	0.1	0.1	1.7
Cadmium (Cd)	µg/l	4	0.01	0.03	0.05	0.02	0.05	0.04	0.01	0.05	0.01
Mercury (Hg)	µg/l	4	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
Nickel (Ni)	µg/l	4	0.5	3.1	6.2	2.9	5.5	3.8	0.5	6.2	1.9
Arsenic (As)	µg/l	4	0.5	1.1	1.9	1.1	1.7	0.5	1.0	1.9	1.1
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	0.9	2.2	3.9	2.2	3.3	2.8	2.8	2.1	1.2
COD _{Cr}	mg/l	12	7.5	11.9	20.4	11.0	14.5	11.3	12.3	10.9	13.0
COD _{Mn}	mg/l	12	2.6	3.9	6.7	3.7	4.8	3.7	4.1	3.6	4.3
DOC	mg/l										
Phenol index	mg/l	12	0.002	0.004	0.007	0.004	0.005	0.005	0.004	0.005	0.004
Anionic active surfactants	mg/l	12	0.030	0.048	0.089	0.042	0.078	0.039	0.054	0.035	0.063
Petroleum hydrocarbons	mg/l	12	0.020	0.029	0.050	0.025	0.040	0.037	0.033	0.027	0.020
AOX	µg/l	10	22.40	50.93	130.00	46.10	64.48	36.20	45.95	69.33	45.67
Lindane	µg/l	4	0.003	0.009	0.029	0.003	0.021	0.003	0.003	0.003	0.029
pp'DDT	µg/l	4	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Atrazine	µg/l	4	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
Chloroform	µg/l	4	0.50	1.00	2.00	0.75	1.70	0.50	0.50	2.00	1.00
Carbon tetrachloride	µg/l	4	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Trichloroethylene	µg/l	4	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Tetrachloroethylene	µg/l	4	0.50	0.88	2.00	0.50	1.55	0.50	0.50	0.50	2.00
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	0.079	0.232	0.820	0.156	0.381	0.233	0.177	0.136	0.383
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	12	0.011	0.044	0.091	0.044	0.075	0.055	0.022	0.050	0.051
Faecal Streptococci	10 ³ CFU/100 ml	12	0.100	0.683	1.800	0.550	1.380	1.100	0.333	0.567	0.733
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	3	14	15	17						
Macrozoobenthos	sapr.index	3	2.1	2.1	2.1						
Chlorophyll-a	µg/l	12	1.8	26.0	92.8	10.3	55.5	30.1	63.0	8.5	2.3

* in case of dissolved oxygen C10 was calculated

River	/Vah	Catchment	19661 km ²	SK04
Distance from the mouth [km]	1.0	Altitude	106 m	
Location	Komarno M			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s										
Temperature	°C	13	0.0	11.5	25.0	11.5	22.8	3.6	17.6	20.0	7.2
Suspended Solids	mg/l	13	4	16	24	15	24	10	19	14	22
Dissolved Oxygen	mg/l	13	6.7	9.9	12.4	10.7	7.6	11.6	10.1	7.4	10.1
pH	-	13	7.8	8.1	8.3	8.1	8.2	7.9	8.2	8.1	8.1
Conductivity @ 20°C	µS/cm	13	368	430	495	430	479	452	427	394	438
Alkalinity	mmol/l	13	3.0	3.4	4.0	3.3	3.8	3.5	3.3	3.1	3.5
Ammonium-N (NH ₄ ⁺ -N)	mg/l	13	0.11	0.37	0.63	0.39	0.53	0.46	0.20	0.38	0.42
Nitrite-N (NO ₂ ⁻ -N)	mg/l	13	0.002	0.035	0.071	0.033	0.056	0.034	0.045	0.032	0.030
Nitrate-N (NO ₃ ⁻ -N)	mg/l	13	0.95	1.71	2.34	1.92	2.31	2.22	1.30	1.04	2.12
Organic Nitrogen	mg/l	13	0.17	0.46	1.25	0.38	0.67	0.46	0.62	0.47	0.27
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	13	0.008	0.099	0.147	0.103	0.129	0.093	0.086	0.105	0.115
Total Phosphorus	mg/l	13	0.03	0.12	0.16	0.12	0.14	0.11	0.10	0.12	0.14
Sodium (Na ⁺)	mg/l	13	10.1	13.3	17.7	13.0	16.1	14.0	13.5	11.2	14.4
Potassium (K ⁺)	mg/l	13	3.0	3.8	5.5	3.6	4.7	3.5	3.7	3.9	4.3
Calcium (Ca ²⁺)	mg/l	13	50.4	60.9	73.2	58.8	71.3	64.4	61.5	54.4	62.4
Magnesium (Mg ²⁺)	mg/l	13	10.9	15.8	23.2	15.8	18.1	16.7	15.4	17.1	13.5
Chloride (Cl ⁻)	mg/l	13	14	20	27	19	25	20	21	20	18
Sulphate (SO ₄ ²⁻)	mg/l	13	39	46	60	45	52	48	44	48	45
Iron (Fe)	mg/l	13	0.100	0.223	0.320	0.240	0.298	0.243	0.257	0.193	0.193
Manganese (Mn)	mg/l	13	0.025	0.048	0.120	0.025	0.096	0.063	0.058	0.033	0.033
Zinc (Zn)	µg/l	4	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Copper (Cu)	µg/l	4	1.5	2.3	3.4	2.2	3.2	1.5	1.7	3.4	2.7
Chromium (Cr) - total	µg/l	4	0.1	1.6	4.8	0.8	3.6	0.7	4.8	0.1	0.9
Lead (Pb)	µg/l	4	0.1	0.9	1.6	0.9	1.4	0.8	0.1	1.0	1.6
Cadmium (Cd)	µg/l	4	0.01	0.01	0.02	0.01	0.02	0.02	0.01	0.01	0.01
Mercury (Hg)	µg/l	4	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
Nickel (Ni)	µg/l	4	1.2	2.0	2.6	2.1	2.5	1.7	2.4	1.2	2.6
Arsenic (As)	µg/l	4	1.7	2.3	2.8	2.4	2.8	2.8	2.1	2.7	1.7
Aluminium (Al)	µg/l										
BOD ₅	mg/l	13	1.0	2.6	4.1	2.8	3.6	2.8	3.7	2.1	1.7
COD _{Cr}	mg/l	13	9.8	13.3	17.9	14.0	16.2	12.3	15.5	14.0	11.9
COD _{Mn}	mg/l	13	2.9	4.1	5.5	4.2	5.0	4.1	5.1	3.4	3.9
DOC	mg/l										
Phenol index	mg/l	13	0.001	0.004	0.008	0.005	0.007	0.006	0.005	0.004	0.003
Anionic active surfactants	mg/l	13	0.027	0.057	0.110	0.052	0.079	0.042	0.079	0.042	0.071
Petroleum hydrocarbons	mg/l	13	0.030	0.040	0.070	0.040	0.050	0.035	0.047	0.040	0.040
AOX	µg/l	6	11.10	101.53	183.00	91.95	180.50	106.33	91.95		
Lindane	µg/l	4	0.003	0.009	0.029	0.003	0.021	0.003	0.003	0.003	0.029
pp'DDT	µg/l	4	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Atrazine	µg/l	4	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
Chloroform	µg/l	4	0.50	0.63	1.00	0.50	0.85	1.00	0.50	0.50	0.50
Carbon tetrachloride	µg/l	4	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Trichloroethylene	µg/l	4	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Tetrachloroethylene	µg/l	4	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Total Coliforms (37°C)	10 ³ CFU/100 ml	13	0.420	0.898	1.930	0.750	1.358	0.643	1.137	1.240	0.660
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	13	0.066	0.212	0.450	0.200	0.344	0.225	0.175	0.303	0.139
Faecal Streptococci	10 ³ CFU/100 ml	13	1.700	4.131	10.300	3.800	6.040	6.025	2.900	3.133	3.833
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	3	11	17	22						
Macrozoobenthos	sapr.index	3	2.3	2.5	2.6						
Chlorophyll-a	µg/l	13	1.2	27.0	93.3	14.4	75.5	12.9	77.0	21.3	1.7

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	131605 km ²	H01
Distance from the mouth [km]	1806.0	Altitude	108 m	
Location	Medve/Medvedov M			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	362	894.0	1816.6	4430.0	1670.0	2775.0	1347.8	1777.7	1848.0	2282.7
Temperature	°C	26	1.7	11.7	22.4	12.6	20.2	6.0	15.9	17.9	6.9
Suspended Solids	mg/l	13	0	15	30	14	30	8	14	30	19
Dissolved Oxygen	mg/l	26	7.5	9.3	12.3	8.8	7.6	9.8	10.0	8.1	9.3
pH	-	26	7.8	8.2	8.6	8.2	8.5	8.3	8.5	8.2	8.0
Conductivity @ 20°C	µS/cm	26	300	370	472	362	441	426	338	320	396
Alkalinity	mmol/l	12	2.7	3.1	3.7	3.1	3.4	3.4	3.0	2.9	3.1
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	0.01	0.06	0.21	0.03	0.14	0.05	0.03	0.05	0.12
Nitrite-N (NO ₂ ⁻ -N)	mg/l	26	0.011	0.024	0.046	0.021	0.040	0.030	0.020	0.016	0.031
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	1.05	1.90	2.83	1.74	2.82	2.57	1.37	1.26	2.41
Organic Nitrogen	mg/l	24	0.71	2.49	9.68	1.85	4.65	4.33	1.81	1.61	1.80
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	0.007	0.050	0.215	0.051	0.067	0.066	0.022	0.049	0.060
Total Phosphorus	mg/l	26	0.04	0.10	0.23	0.10	0.15	0.12	0.09	0.10	0.11
Sodium (Na ⁺)	mg/l	13	9.0	12.3	18.0	11.4	17.1	16.3	11.3	9.9	10.4
Potassium (K ⁺)	mg/l	13	2.0	2.5	3.6	2.4	3.2	3.1	2.1	2.1	2.5
Calcium (Ca ²⁺)	mg/l	12	42.0	51.8	60.0	51.0	59.8	54.0	50.7	49.3	53.3
Magnesium (Mg ²⁺)	mg/l	12	9.7	15.1	24.3	14.6	19.5	16.1	15.8	12.2	16.2
Chloride (Cl ⁻)	mg/l	13	16	22	28	20	27	26	20	17	20
Sulphate (SO ₄ ²⁻)	mg/l	12	33	42	51	42	48	44	40	36	45
Iron (Fe)	mg/l	13	0.150	0.451	0.900	0.440	0.678	0.313	0.490	0.477	0.570
Manganese (Mn)	mg/l	13	0.030	0.095	0.260	0.060	0.204	0.045	0.090	0.157	0.107
Zinc (Zn)	µg/l	24	3.0	28.4	117.0	22.5	47.4	25.2	21.2	41.8	25.4
Copper (Cu)	µg/l	24	0.5	5.6	14.7	3.4	11.6	4.7	5.3	6.6	5.9
Chromium (Cr) - total	µg/l	24	0.1	1.5	3.7	1.6	2.7	1.7	1.8	1.2	1.5
Lead (Pb)	µg/l	24	0.1	1.3	5.1	0.6	3.8	1.6	1.5	1.2	1.1
Cadmium (Cd)	µg/l	24	0.01	0.13	1.60	0.01	0.19	0.06	0.46	0.01	0.01
Mercury (Hg)	µg/l	24	0.050	0.050	0.050						
Nickel (Ni)	µg/l	24	0.3	1.7	10.7	1.1	2.6	1.3	1.0	3.0	1.5
Arsenic (As)	µg/l	13	0.5	1.2	5.1	0.5	2.4	1.7	2.0	0.5	0.5
Aluminium (Al)	µg/l	24	5.4	55.0	99.0	57.6	95.4	55.8	53.5	50.1	60.6
BOD ₅	mg/l	26	1.2	2.7	4.6	2.5	3.8	3.0	2.3	2.8	2.6
COD _{Cr}	mg/l	26	1.0	5.7	17.0	1.0	13.5	6.6	10.8	1.0	5.2
COD _{Mn}	mg/l	26	2.1	3.3	6.2	3.1	4.7	3.4	3.8	2.8	3.5
DOC	mg/l										
Phenol index	mg/l	18	0.001	0.001	0.001						
Anionic active surfactants	mg/l	25	0.010	0.010	0.010						
Petroleum hydrocarbons	mg/l	14	0.036	0.060	0.080	0.060	0.070	0.070	0.055	0.049	0.066
AOX	µg/l	10	0.01	16.40	55.00	13.00	37.00	22.34	35.50	8.67	0.01
Lindane	µg/l	12	0.001	2.333	6.600	1.700	5.660	2.100	4.200	1.267	1.767
pp'DDT	µg/l	12	0.001	0.001	0.001						
Atrazine	µg/l	12	0.001	7.059	26.000	3.251	22.700	2.401	2.167	3.667	20.000
Chloroform	µg/l	12	0.05	0.14	0.40	0.05	0.38	0.10	0.17	0.17	0.12
Carbon tetrachloride	µg/l	12	0.05	0.22	1.50	0.05	0.47	0.25	0.05	0.05	0.53
Trichloroethylene	µg/l	12	0.05	0.06	0.20	0.05	0.05	0.05	0.10	0.05	0.05
Tetrachloroethylene	µg/l	12	0.05	0.05	0.05						
Total Coliforms (37°C)	10 ³ CFU/100 ml	26	2.200	75.158	920.000	13.000	160.000	4.057	11.750	226.757	44.650
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	12	0.200	9.800	35.000	7.900	17.000	1.100	12.833	10.933	14.333
Faecal Streptococci	10 ³ CFU/100 ml	12	0.000	2.142	16.000	0.950	1.990	0.433	0.167	1.467	6.500
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index	2	2.2	2.2	2.2	2.2	2.2		2.2	2.2	
Chlorophyll-a	µg/l	26	0.3	24.0	94.7	10.7	55.7	30.5	56.7	9.9	0.3

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	150820 km ²	H02
Distance from the mouth [km]	1768.0	Altitude	101 m	
Location	Komarom/Komarno M			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	362	1000.0	1946.5	4940.0	1810.0	2838.0	1497.1	1871.0	1900.2	2508.0
Temperature	°C	25	1.0	18.5	185.0	12.9	20.0	5.2	15.9	45.5	9.5
Suspended Solids	mg/l	12	4	23	65	18	38	14	14	33	38
Dissolved Oxygen	mg/l	25	7.8	10.0	13.2	10.0	8.1	10.9	10.5	8.3	10.3
pH	-	25	7.8	8.2	8.7	8.3	8.5	8.3	8.4	8.1	8.1
Conductivity @ 20°C	µS/cm	25	296	387	479	385	470	448	345	319	426
Alkalinity	mmol/l	12	2.8	3.2	3.9	3.1	3.6	3.4	3.0	3.2	3.2
Ammonium-N (NH ₄ ⁺ -N)	mg/l	25	0.02	0.08	0.23	0.05	0.18	0.10	0.02	0.06	0.14
Nitrite-N (NO ₂ ⁻ -N)	mg/l	25	0.015	0.027	0.047	0.024	0.045	0.032	0.019	0.020	0.036
Nitrate-N (NO ₃ ⁻ -N)	mg/l	25	0.89	2.08	3.19	2.05	3.08	2.88	1.44	1.32	2.55
Organic Nitrogen	mg/l	25	0.90	2.43	5.19	2.10	3.97	3.25	2.18	1.92	2.26
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	25	0.007	0.049	0.088	0.055	0.079	0.058	0.024	0.046	0.068
Total Phosphorus	mg/l	25	0.06	0.11	0.22	0.11	0.15	0.10	0.09	0.12	0.14
Sodium (Na ⁺)	mg/l	12	10.5	13.9	19.5	13.0	18.3	16.9	12.4	11.0	13.5
Potassium (K ⁺)	mg/l	11	2.0	2.7	4.0	2.8	3.6	3.2	2.3	2.2	3.0
Calcium (Ca ²⁺)	mg/l	12	26.0	53.8	70.0	57.0	61.8	53.5	54.7	38.0	64.0
Magnesium (Mg ²⁺)	mg/l	12	6.1	15.3	23.1	15.2	21.9	19.5	11.8	17.0	12.2
Chloride (Cl ⁻)	mg/l	12	18	23	30	23	29	26	22	18	25
Sulphate (SO ₄ ²⁻)	mg/l	12	30	43	49	46	49	44	42	33	48
Iron (Fe)	mg/l	12	0.050	0.399	1.990	0.275	0.565	0.233	0.233	0.345	0.823
Manganese (Mn)	mg/l	12	0.030	0.119	0.350	0.090	0.199	0.050	0.100	0.140	0.217
Zinc (Zn)	µg/l	23	8.0	32.4	82.0	30.0	54.8	44.2	29.0	24.4	30.8
Copper (Cu)	µg/l	23	0.1	4.3	13.2	3.6	7.3	3.1	5.7	4.2	4.0
Chromium (Cr) - total	µg/l	23	0.1	1.3	2.9	1.1	2.7	1.7	1.3	1.1	1.1
Lead (Pb)	µg/l	23	0.1	1.0	7.4	0.4	2.4	1.1	1.6	0.8	0.5
Cadmium (Cd)	µg/l	23	0.01	0.09	1.70	0.01	0.01	0.02	0.01	0.01	0.29
Mercury (Hg)	µg/l	23	0.050	0.091	1.000	0.050	0.050	0.050	0.050	0.240	0.050
Nickel (Ni)	µg/l	23	0.3	1.1	3.2	1.0	1.9	1.1	0.9	1.0	1.2
Arsenic (As)	µg/l	13	0.5	1.2	3.2	0.5	2.7	1.9	1.4	0.7	0.5
Aluminium (Al)	µg/l	23	6.6	49.9	104.0	37.7	96.4	46.2	51.1	46.2	55.5
BOD ₅	mg/l	25	2.0	3.3	5.5	3.2	4.4	3.9	3.5	2.7	3.1
COD _{Cr}	mg/l	25	1.0	8.4	18.0	10.0	14.6	8.0	11.5	4.2	10.0
COD _{Mn}	mg/l	25	2.3	4.2	10.7	3.8	6.0	3.6	6.1	3.1	4.0
DOC	mg/l										
Phenol index	mg/l	20	0.001	0.001	0.001						
Anionic active surfactants	mg/l	24	0.010	0.015	0.121	0.010	0.010	0.026	0.010	0.010	0.010
Petroleum hydrocarbons	mg/l	12	0.024	0.064	0.090	0.067	0.080	0.080	0.063	0.037	0.061
AOX	µg/l	10	0.01	20.30	57.00	13.00	52.50	29.67	32.00	13.33	5.00
Lindane	µg/l	12	0.600	3.108	6.300	2.750	5.560	4.967	2.967	2.167	2.333
pp'DDT	µg/l	12	0.001	0.001	0.001						
Atrazine	µg/l	12	0.001	11.917	63.300	3.051	37.800	0.001	5.200	2.034	40.433
Chloroform	µg/l	11	0.05	0.36	2.20	0.20	0.40	0.13	0.17	0.25	0.82
Carbon tetrachloride	µg/l	12	0.05	0.12	0.40	0.08	0.28	0.17	0.08	0.07	0.15
Trichloroethylene	µg/l	12	0.05	0.19	1.70	0.05	0.05	0.05	0.05	0.05	0.60
Tetrachloroethylene	µg/l	12	0.05	0.05	0.05						
Total Coliforms (37°C)	10 ³ CFU/100 ml	25	7.900	245.276	1600.000	92.000	540.000	127.986	127.333	236.833	508.500
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	5	3.300	57.260	220.000	22.000	141.600	17.000	12.650		122.000
Faecal Streptococci	10 ³ CFU/100 ml	5	0.400	6.100	12.000	5.600	12.000	5.600	0.450		12.000
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index	1	2.3	2.3	2.3						
Chlorophyll-a	µg/l	25	0.3	25.0	101.8	5.9	83.1	24.1	57.5	18.3	0.3

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	183350 km ²	H03
Distance from the mouth [km]	1708.0	Altitude	100 m	
Location	Szob L			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	27	1090.0	1908.5	3690.0	1850.0	2624.0	1475.0	1841.3	1922.9	2415.0
Temperature	°C	26	0.1	11.4	23.0	11.1	21.5	4.3	15.2	18.7	5.2
Suspended Solids	mg/l	26	3	21	47	20	40	13	29	20	22
Dissolved Oxygen	mg/l	26	6.6	9.8	12.5	9.7	7.6	11.5	9.5	7.8	10.9
pH	-	26	7.6	8.3	8.8	8.4	8.8	8.4	8.5	8.3	8.0
Conductivity @ 20°C	µS/cm	26	330	414	540	395	490	486	404	368	408
Alkalinity	mmol/l	26	2.0	3.0	3.9	2.9	3.5	3.5	2.9	2.6	2.9
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	0.02	0.12	0.29	0.09	0.25	0.15	0.06	0.12	0.14
Nitrite-N (NO ₂ ⁻ -N)	mg/l	26	0.011	0.024	0.046	0.024	0.033	0.029	0.021	0.023	0.026
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	0.68	1.90	2.83	1.98	2.71	2.60	1.55	1.41	2.19
Organic Nitrogen	mg/l	26	0.10	0.32	0.73	0.31	0.51	0.38	0.30	0.31	0.29
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	0.010	0.079	0.152	0.078	0.117	0.065	0.059	0.092	0.100
Total Phosphorus	mg/l	26	0.01	0.21	0.42	0.19	0.31	0.16	0.21	0.25	0.20
Sodium (Na ⁺)	mg/l	26	11.0	13.9	19.0	13.5	17.5	16.3	12.6	12.4	14.7
Potassium (K ⁺)	mg/l	26	2.6	3.5	5.0	3.4	4.2	3.8	3.3	3.4	3.9
Calcium (Ca ²⁺)	mg/l	26	37.0	51.5	64.0	50.1	61.5	59.8	49.1	44.2	54.3
Magnesium (Mg ²⁺)	mg/l	26	9.0	12.7	19.0	13.0	15.0	14.4	13.5	10.9	12.3
Chloride (Cl ⁻)	mg/l	26	14	19	28	18	25	24	17	16	22
Sulphate (SO ₄ ²⁻)	mg/l	26	24	40	70	39	50	48	39	29	46
Iron (Fe)	mg/l	26	0.040	0.099	0.220	0.080	0.190	0.100	0.087	0.116	0.092
Manganese (Mn)	mg/l	26	0.001	0.143	0.900	0.080	0.350	0.001	0.193	0.091	0.287
Zinc (Zn)	µg/l	4	20.0	31.3	40.0						
Copper (Cu)	µg/l	4	2.2	2.8	4.0						
Chromium (Cr) - total	µg/l	4	1.5	1.8	2.2						
Lead (Pb)	µg/l	4	2.0	2.9	3.5						
Cadmium (Cd)	µg/l	4	0.01	1.03	1.60						
Mercury (Hg)	µg/l	4	0.050	0.050	0.050						
Nickel (Ni)	µg/l	4	2.0	2.4	3.1						
Arsenic (As)	µg/l	4	1.8	1.9	2.2						
Aluminium (Al)	µg/l										
BOD ₅	mg/l	26	2.5	4.1	6.4	4.0	5.2	4.1	4.2	3.9	4.4
COD _{Cr}	mg/l	26	1.0	13.9	22.0	14.0	19.0	12.2	14.7	14.9	13.7
COD _{Mn}	mg/l	26	3.2	4.4	7.3	4.3	5.7	3.8	4.6	4.5	4.7
DOC	mg/l										
Phenol index	mg/l	26	0.001	0.001	0.001						
Anionic active surfactants	mg/l	26	0.010	0.028	0.140	0.010	0.120	0.050	0.010	0.026	0.032
Petroleum hydrocarbons	mg/l	26	0.005	0.074	0.231	0.065	0.144	0.021	0.056	0.092	0.127
AOX	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										
Total Coliforms (37°C)	10 ³ CFU/100 ml	24	9.000	80.583	380.000	46.000	197.000	64.000	35.167	168.667	54.500
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	6	4.000	13.000	30.000	8.000	25.500	4.000	7.000	30.000	15.000
Faecal Streptococci	10 ³ CFU/100 ml	6	1.100	4.333	8.000	3.650	8.000	1.600	2.950	8.000	5.250
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index	1	2.3	2.3	2.3						
Chlorophyll-a	µg/l	26	0.3	16.5	61.8	10.9	42.5	10.6	31.9	20.1	0.3

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	183350 km ²	H03
Distance from the mouth [km]	1708.0	Altitude	100 m	
Location	Szob M			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	360	997.0	2114.3	5330.0	1960.0	3204.0	1605.4	2025.6	2030.8	2799.3
Temperature	°C	26	0.8	11.2	22.0	10.9	21.0	4.5	14.6	18.2	5.7
Suspended Solids	mg/l	26	4	17	52	17	28	7	22	21	19
Dissolved Oxygen	mg/l	26	6.4	9.9	12.1	10.3	7.7	11.5	10.1	7.9	10.4
pH	-	26	7.6	8.4	8.9	8.4	8.8	8.4	8.7	8.3	8.1
Conductivity @ 20°C	µS/cm	26	330	410	530	420	493	492	391	354	417
Alkalinity	mmol/l	26	2.5	3.1	3.9	3.2	3.8	3.6	3.0	2.7	3.3
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	0.02	0.11	0.26	0.09	0.19	0.11	0.09	0.12	0.11
Nitrite-N (NO ₂ ⁻ -N)	mg/l	26	0.008	0.021	0.041	0.019	0.037	0.029	0.013	0.015	0.029
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	0.68	1.92	3.16	1.87	2.71	2.75	1.39	1.32	2.41
Organic Nitrogen	mg/l	26	0.05	0.28	0.74	0.27	0.40	0.29	0.28	0.28	0.26
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	0.003	0.057	0.199	0.062	0.078	0.047	0.061	0.052	0.067
Total Phosphorus	mg/l	26	0.01	0.17	0.78	0.15	0.26	0.13	0.24	0.16	0.15
Sodium (Na ⁺)	mg/l	26	8.0	12.5	19.0	11.5	17.0	16.7	10.9	10.0	13.2
Potassium (K ⁺)	mg/l	26	1.9	2.6	3.8	2.6	3.0	3.2	2.2	2.3	2.7
Calcium (Ca ²⁺)	mg/l	26	43.0	53.8	66.0	56.0	63.5	61.2	50.2	45.4	60.2
Magnesium (Mg ²⁺)	mg/l	26	9.0	12.5	19.0	12.0	15.5	14.1	12.3	10.4	13.8
Chloride (Cl ⁻)	mg/l	26	13	20	28	20	27	25	18	15	22
Sulphate (SO ₄ ²⁻)	mg/l	26	21	36	68	35	51	47	29	27	44
Iron (Fe)	mg/l	26	0.030	0.087	0.310	0.055	0.215	0.075	0.056	0.119	0.100
Manganese (Mn)	mg/l	26	0.001	0.067	0.500	0.040	0.100	0.001	0.123	0.069	0.067
Zinc (Zn)	µg/l	17	2.5	24.5	60.0	23.0	35.8	23.8	29.0	19.3	25.3
Copper (Cu)	µg/l	17	0.1	2.6	5.3	2.6	4.0	2.2	3.8	2.5	2.2
Chromium (Cr) - total	µg/l	17	0.1	1.3	3.8	1.2	2.5	0.8	2.2	1.1	1.6
Lead (Pb)	µg/l	17	0.1	0.7	1.9	0.3	1.7	0.7	0.7	0.5	0.7
Cadmium (Cd)	µg/l	17	0.01	0.27	1.30	0.01	1.04	0.50	0.26	0.01	0.01
Mercury (Hg)	µg/l	17	0.050	0.144	1.300	0.050	0.190	0.050	0.050	0.583	0.050
Nickel (Ni)	µg/l	17	0.3	1.8	4.0	1.7	3.2	1.8	1.5	1.6	2.2
Arsenic (As)	µg/l	17	0.5	1.8	9.1	0.5	3.1	2.0	3.3	0.5	0.5
Aluminium (Al)	µg/l	12	0.7	53.1	382.0	20.9	79.7	5.7	25.5	43.5	137.6
BOD ₅	mg/l	26	2.4	3.7	5.2	3.8	4.9	3.7	3.7	3.5	4.0
COD _{Cr}	mg/l	26	1.0	11.7	18.0	13.0	15.0	10.3	12.7	10.9	12.7
COD _{Mn}	mg/l	26	2.7	3.9	6.5	3.9	4.7	3.6	4.2	3.6	4.4
DOC	mg/l										
Phenol index	mg/l	26	0.001	0.001	0.001						
Anionic active surfactants	mg/l	26	0.010	0.021	0.120	0.010	0.055	0.010	0.010	0.010	0.058
Petroleum hydrocarbons	mg/l	26	0.005	0.069	0.279	0.065	0.110	0.021	0.060	0.075	0.120
AOX	µg/l	10	0.01	16.80	39.00	16.00	34.50	20.00	16.00	21.34	6.00
Lindane	µg/l	12	0.001	1.925	4.500	1.400	3.920	2.133	1.834	1.467	2.267
pp'DDT	µg/l	12	0.001	0.001	0.001						
Atrazine	µg/l	12	0.001	17.967	154.000	2.801	23.000	2.667	5.200	0.001	64.000
Chloroform	µg/l	12	0.05	0.17	0.60	0.05	0.30	0.32	0.13	0.10	0.13
Carbon tetrachloride	µg/l	12	0.05	0.12	0.60	0.05	0.28	0.07	0.05	0.05	0.32
Trichloroethylene	µg/l	12	0.05	0.05	0.05						
Tetrachloroethylene	µg/l	12	0.05	0.05	0.05						
Total Coliforms (37°C)	10 ³ CFU/100 ml	26	11.000	78.500	320.000	55.500	170.000	47.667	81.214	110.500	68.833
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	6	3.200	10.700	30.000	8.500	20.000	9.000	5.600	4.000	20.000
Faecal Streptococci	10 ³ CFU/100 ml	6	0.000	2.917	9.000	1.900	6.250	1.800	0.600	2.000	6.250
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	26	0.3	15.0	56.2	7.2	42.8	14.7	31.0	11.8	0.3

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	183350 km ²	H03
Distance from the mouth [km]	1708.0	Altitude	100 m	
Location	Szob R			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	26	1090.0	1918.8	3690.0	1850.0	2625.0	1475.0	1870.0	1922.9	2415.0
Temperature	°C	26	2.0	11.7	23.0	11.5	21.0	4.5	15.2	18.2	7.4
Suspended Solids	mg/l	26	4	17	43	13	31	7	21	21	16
Dissolved Oxygen	mg/l	26	7.1	10.0	12.3	10.3	7.7	11.7	10.1	7.9	10.7
pH	-	26	7.5	8.3	9.0	8.4	8.8	8.4	8.6	8.3	8.0
Conductivity @ 20°C	µS/cm	26	340	418	530	420	500	497	394	359	435
Alkalinity	mmol/l	26	2.5	3.4	9.2	3.3	3.9	3.6	3.1	2.8	4.4
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	0.02	0.10	0.23	0.07	0.20	0.11	0.06	0.12	0.11
Nitrite-N (NO ₂ ⁻ -N)	mg/l	26	0.007	0.021	0.040	0.019	0.037	0.028	0.014	0.015	0.030
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	0.68	1.93	3.39	1.81	2.77	2.83	1.42	1.24	2.45
Organic Nitrogen	mg/l	26	0.10	0.30	0.69	0.28	0.46	0.37	0.28	0.30	0.27
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	0.003	0.059	0.235	0.059	0.092	0.045	0.068	0.049	0.074
Total Phosphorus	mg/l	26	0.01	0.17	0.80	0.15	0.25	0.13	0.23	0.16	0.14
Sodium (Na ⁺)	mg/l	26	9.0	12.9	20.0	12.0	17.5	17.3	11.3	10.4	13.3
Potassium (K ⁺)	mg/l	26	1.9	3.4	10.0	3.0	4.9	3.7	2.5	4.1	3.2
Calcium (Ca ²⁺)	mg/l	26	41.0	52.8	64.0	53.0	61.5	60.4	50.2	44.6	57.7
Magnesium (Mg ²⁺)	mg/l	26	9.6	12.9	19.0	12.5	15.1	14.5	12.4	10.7	14.7
Chloride (Cl ⁻)	mg/l	26	12	20	28	20	27	25	18	15	21
Sulphate (SO ₄ ²⁻)	mg/l	26	21	36	65	35	49	46	28	27	44
Iron (Fe)	mg/l	26	0.040	0.083	0.330	0.065	0.130	0.083	0.067	0.114	0.065
Manganese (Mn)	mg/l	26	0.001	0.043	0.100	0.045	0.090	0.001	0.059	0.066	0.040
Zinc (Zn)	µg/l	4	40.0	50.0	60.0						
Copper (Cu)	µg/l	4	2.1	2.5	3.0						
Chromium (Cr) - total	µg/l	4	0.1	1.0	1.6						
Lead (Pb)	µg/l	4	3.6	4.4	5.0						
Cadmium (Cd)	µg/l	4	0.01	0.80	1.20						
Mercury (Hg)	µg/l	4	0.050	0.050	0.050						
Nickel (Ni)	µg/l	4	2.0	2.3	2.6						
Arsenic (As)	µg/l	4	2.6	2.8	3.0						
Aluminium (Al)	µg/l										
BOD ₅	mg/l	26	2.3	3.8	5.4	3.7	4.9	3.6	3.7	3.6	4.2
COD _{Cr}	mg/l	26	1.0	11.8	20.0	12.0	16.5	9.5	11.3	12.3	14.0
COD _{Mn}	mg/l	26	2.8	4.0	6.0	3.9	4.8	3.5	4.2	3.6	4.5
DOC	mg/l										
Phenol index	mg/l	26	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Anionic active surfactants	mg/l	26	0.010	0.024	0.150	0.010	0.065	0.010	0.010	0.010	0.070
Petroleum hydrocarbons	mg/l	26	0.005	0.094	0.434	0.080	0.145	0.046	0.057	0.098	0.181
AOX	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										
Total Coliforms (37°C)	10 ³ CFU/100 ml	22	7.600	71.800	300.000	40.000	149.000	64.200	30.600	149.167	35.100
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	5	3.500	17.100	50.000	9.000	36.000		26.750	8.000	12.000
Faecal Streptococci	10 ³ CFU/100 ml	5	1.000	2.240	3.600	2.000	3.360		2.000	1.600	2.800
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	26	0.3	14.5	55.2	3.9	48.6	13.7	30.8	11.0	0.3

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	188700 km ²	H04
Distance from the mouth [km]	1560.0	Altitude	89 m	
Location	Dunafoldvar	M		1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	360	1250.0	2206.2	5290.0	2020.0	3130.0	1741.1	2056.8	2052.1	2964.9
Temperature	°C	39	0.4	13.0	23.4	14.8	22.0	5.0	15.8	20.2	7.8
Suspended Solids	mg/l	27	5	22	50	20	33	12	32	22	24
Dissolved Oxygen	mg/l	39	8.0	11.1	15.1	11.5	8.6	12.8	12.0	9.9	9.9
pH	-	39	7.9	8.3	8.7	8.3	8.6	8.2	8.5	8.3	8.0
Conductivity @ 20°C	µS/cm	39	300	378	490	368	461	462	354	322	399
Alkalinity	mmol/l	27	2.2	2.9	3.7	2.8	3.6	3.6	2.7	2.5	3.1
Ammonium-N (NH ₄ ⁺ -N)	mg/l	39	0.02	0.07	0.23	0.05	0.19	0.12	0.03	0.04	0.11
Nitrite-N (NO ₂ ⁻ -N)	mg/l	39	0.009	0.022	0.055	0.018	0.037	0.033	0.014	0.016	0.029
Nitrate-N (NO ₃ ⁻ -N)	mg/l	39	0.68	1.79	3.25	1.74	2.74	2.75	1.30	1.17	2.22
Organic Nitrogen	mg/l	24	0.11	0.39	0.64	0.41	0.59	0.32	0.45	0.42	0.39
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	39	0.007	0.040	0.098	0.033	0.077	0.045	0.012	0.037	0.072
Total Phosphorus	mg/l	39	0.02	0.14	0.23	0.15	0.18	0.15	0.14	0.14	0.14
Sodium (Na ⁺)	mg/l	27	8.6	12.0	17.0	11.0	16.0	15.7	11.7	9.8	11.9
Potassium (K ⁺)	mg/l	27	2.0	3.0	5.2	2.9	3.9	3.2	2.3	3.1	3.2
Calcium (Ca ²⁺)	mg/l	27	37.2	52.9	72.0	51.0	64.8	66.3	47.8	45.5	55.5
Magnesium (Mg ²⁺)	mg/l	27	10.5	13.6	22.1	12.7	17.0	16.7	13.5	11.1	14.3
Chloride (Cl ⁻)	mg/l	27	13	19	26	18	24	23	18	15	20
Sulphate (SO ₄ ²⁻)	mg/l	27	34	45	58	42	57	56	45	38	43
Iron (Fe)	mg/l	27	0.020	0.056	0.260	0.030	0.104	0.067	0.020	0.041	0.105
Manganese (Mn)	mg/l	27	0.010	0.022	0.060	0.020	0.040	0.027	0.022	0.016	0.028
Zinc (Zn)	µg/l	36	1.0	18.3	45.0	15.0	32.5	18.3	20.4	15.1	20.6
Copper (Cu)	µg/l	35	1.2	5.3	11.0	5.1	8.0	4.7	6.0	4.9	6.1
Chromium (Cr) - total	µg/l	36	0.1	0.9	2.9	1.0	2.1	1.3	1.0	0.6	0.7
Lead (Pb)	µg/l	33	0.1	1.2	12.0	0.6	2.3	0.9	2.2	1.1	0.3
Cadmium (Cd)	µg/l	36	0.01	0.05	1.46	0.01	0.02	0.02	0.01	0.01	0.22
Mercury (Hg)	µg/l	32	0.050	0.095	1.100	0.050	0.050	0.050	0.050	0.145	0.183
Nickel (Ni)	µg/l	36	0.3	1.5	15.5	1.1	2.4	0.9	0.9	2.7	1.1
Arsenic (As)	µg/l	33	0.5	1.2	6.3	0.5	2.8	1.8	0.9	1.1	0.9
Aluminium (Al)	µg/l	28	0.3	19.7	87.0	18.1	33.3	13.2	29.9	21.4	13.3
BOD ₅	mg/l	39	1.0	4.4	8.8	4.6	7.0	5.3	5.9	4.0	2.0
COD _{Cr}	mg/l	39	11.0	17.5	32.0	17.0	21.2	18.2	21.4	14.8	16.0
COD _{Mn}	mg/l	39	3.0	4.4	7.5	4.2	5.7	4.1	5.5	4.1	4.2
DOC	mg/l										
Phenol index	mg/l	27	0.001	0.630	6.000	0.001	2.000	2.834	0.001	0.001	0.001
Anionic active surfactants	mg/l	39	0.010	0.010	0.010						
Petroleum hydrocarbons	mg/l	27	0.005	0.049	0.103	0.045	0.089	0.044	0.046	0.042	0.069
AOX	µg/l	12	0.01	27.67	200.00	10.50	36.00	73.67	12.67	21.00	3.34
Lindane	µg/l	16	0.001	2.375	6.700	2.400	4.750	3.234	1.660	1.360	4.400
pp'DDT	µg/l	14	0.001	0.007	0.030	0.001	0.030	0.011	0.001	0.013	0.001
Atrazine	µg/l	14	0.001	12.136	81.800	0.100	43.100	4.367	1.934	0.041	50.267
Chloroform	µg/l	12	0.05	0.23	0.80	0.05	0.76	0.17	0.42	0.30	0.05
Carbon tetrachloride	µg/l	12	0.05	0.08	0.40	0.05	0.10	0.07	0.05	0.05	0.17
Trichloroethylene	µg/l	12	0.05	0.07	0.20	0.05	0.10	0.07	0.10	0.05	0.05
Tetrachloroethylene	µg/l	12	0.05	0.05	0.10	0.05	0.05	0.07	0.05	0.05	0.05
Total Coliforms (37°C)	10 ³ CFU/100 ml	35	8.000	195.657	2400.000	76.000	312.000	123.500	33.900	426.167	81.400
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	5	1.400	23.280	70.000	20.000	50.400	70.000	1.400	15.000	
Faecal Streptococci	10 ³ CFU/100 ml	5	0.000	2.400	11.000	0.400	6.840	11.000	0.000	0.333	
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	39	0.3	36.2	101.0	33.0	88.0	25.3	69.5	39.8	1.6

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	211503 km ²	H05
Distance from the mouth [km]	1435.0	Altitude	79 m	
Location	Hercegszanto M			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	362	1150.0	2123.9	5280.0	1970.0	3020.0	1601.5	2012.6	2024.7	2845.2
Temperature	°C	26	0.8	12.3	23.8	12.7	20.5	5.3	16.4	19.1	8.5
Suspended Solids	mg/l	12	8	24	48	22	45	14	34	24	25
Dissolved Oxygen	mg/l	26	8.4	11.2	14.5	11.5	8.7	12.5	12.8	9.6	10.0
pH	-	26	7.9	8.3	8.7	8.3	8.6	8.3	8.5	8.3	8.0
Conductivity @ 20°C	µS/cm	26	280	371	476	365	455	445	334	313	390
Alkalinity	mmol/l	12	2.1	2.9	3.5	2.9	3.5	3.5	2.6	2.5	3.1
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	0.01	0.07	0.21	0.04	0.19	0.10	0.02	0.04	0.12
Nitrite-N (NO ₂ ⁻ -N)	mg/l	26	0.012	0.025	0.061	0.020	0.046	0.035	0.017	0.016	0.031
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	0.61	1.84	2.98	1.93	2.71	2.65	1.22	1.20	2.27
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	0.003	0.039	0.098	0.029	0.076	0.042	0.011	0.031	0.072
Total Phosphorus	mg/l	26	0.10	0.15	0.26	0.14	0.19	0.16	0.13	0.15	0.16
Sodium (Na ⁺)	mg/l	12	8.7	11.9	16.0	10.9	15.9	15.3	11.1	9.4	11.7
Potassium (K ⁺)	mg/l	12	2.2	3.0	4.8	2.9	3.6	3.1	2.3	3.2	3.2
Calcium (Ca ²⁺)	mg/l	12	35.8	53.5	66.0	52.5	64.9	64.7	47.1	45.5	56.7
Magnesium (Mg ²⁺)	mg/l	12	10.8	13.1	16.6	12.6	15.9	16.0	12.1	11.2	13.1
Chloride (Cl ⁻)	mg/l	12	13	19	25	18	23	22	17	14	20
Sulphate (SO ₄ ²⁻)	mg/l	12	37	48	63	47	60	58	46	39	50
Iron (Fe)	mg/l	12	0.020	0.053	0.260	0.025	0.069	0.047	0.020	0.040	0.107
Manganese (Mn)	mg/l	12	0.010	0.020	0.070	0.015	0.029	0.013	0.017	0.013	0.037
Zinc (Zn)	µg/l	22	2.5	16.9	66.0	13.0	30.3	15.6	31.2	6.3	15.2
Copper (Cu)	µg/l	22	1.6	4.8	18.0	3.8	8.3	4.5	4.0	3.9	7.1
Chromium (Cr) - total	µg/l	22	0.1	1.1	3.3	1.1	2.2	0.9	1.9	0.8	0.9
Lead (Pb)	µg/l	20	0.1	0.8	2.8	0.6	2.2	1.1	0.8	1.0	0.2
Cadmium (Cd)	µg/l	22	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01
Mercury (Hg)	µg/l	20	0.050	0.058	0.200	0.050	0.050	0.050	0.050	0.050	0.100
Nickel (Ni)	µg/l	22	0.3	1.1	2.1	1.0	1.9	0.5	0.8	1.4	1.7
Arsenic (As)	µg/l	12	0.5	1.0	2.7	0.5	1.7	2.0	0.9	0.7	0.5
Aluminium (Al)	µg/l	21	0.3	13.0	36.0	9.0	32.0	10.8	18.6	13.4	9.7
BOD ₅	mg/l	26	1.5	4.3	9.0	4.0	7.2	4.6	7.0	3.2	2.8
COD _{Cr}	mg/l	26	11.0	18.4	31.0	18.0	25.0	18.1	23.0	16.1	16.7
COD _{Mn}	mg/l	26	3.0	4.5	7.2	4.5	6.9	3.9	5.7	4.4	4.3
DOC	mg/l										
Phenol index	mg/l	12	0.001	1.500	8.000	0.001	5.000	3.334	0.001	0.001	2.667
Anionic active surfactants	mg/l	26	0.010	0.021	0.303	0.010	0.010	0.010	0.010	0.010	0.059
Petroleum hydrocarbons	mg/l	12	0.005	0.052	0.222	0.039	0.062	0.041	0.087	0.025	0.054
AOX	µg/l	12	0.01	34.75	130.00	17.50	89.60	53.34	16.67	56.00	13.00
Lindane	µg/l	12	0.700	3.150	4.800	3.000	4.780	3.000	2.567	2.833	4.200
pp'DDT	µg/l	12	0.001	0.001	0.001						
Atrazine	µg/l	12	0.001	16.117	136.000	2.501	22.200	7.667	3.067	1.667	52.067
Chloroform	µg/l	12	0.05	0.38	1.20	0.18	1.07	0.20	0.52	0.30	0.52
Carbon tetrachloride	µg/l	12	0.05	0.10	0.30	0.05	0.28	0.07	0.08	0.05	0.22
Trichloroethylene	µg/l	12	0.05	0.07	0.20	0.05	0.10	0.07	0.10	0.05	0.05
Tetrachloroethylene	µg/l	12	0.05	0.05	0.10	0.05	0.05	0.07	0.05	0.05	0.05
Total Coliforms (37°C)	10 ³ CFU/100 ml	24	4.000	269.750	1200.000	175.000	662.000	144.000	71.667	430.857	505.000
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	6	5.500	34.750	80.000	29.000	68.000	20.500	5.500	54.000	
Faecal Streptococci	10 ³ CFU/100 ml	6	0.400	1.800	3.000	2.000	2.800	2.500	0.400	1.800	
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	26	0.3	36.3	118.0	26.5	87.0	30.0	77.9	36.2	2.1

* in case of dissolved oxygen C10 was calculated

River	/Sio	Catchment	14693 km ²	H06
Distance from the mouth [km]	13.0	Altitude	85 m	
Location	Szekszard-Palank M			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	361	2.5	23.9	97.0	12.8	63.9	15.4	17.0	8.3	55.1
Temperature	°C	25	0.2	12.4	26.6	13.5	23.4	5.1	17.9	20.9	7.0
Suspended Solids	mg/l	11	8	85	338	72	116	38	159	101	46
Dissolved Oxygen	mg/l	25	6.5	10.2	17.4	9.6	7.7	11.7	9.0	9.7	10.7
pH	-	25	8.0	8.3	8.5	8.4	8.4	8.3	8.3	8.4	8.3
Conductivity @ 20°C	µS/cm	25	163	832	1037	851	992	890	901	862	691
Alkalinity	mmol/l	11	5.4	6.6	8.1	6.6	7.9	6.6	7.1	6.8	6.1
Ammonium-N (NH ₄ ⁺ -N)	mg/l	25	0.02	0.33	1.28	0.19	0.79	0.69	0.14	0.32	0.23
Nitrite-N (NO ₂ ⁻ -N)	mg/l	25	0.015	0.103	0.491	0.080	0.206	0.051	0.123	0.225	0.040
Nitrate-N (NO ₃ ⁻ -N)	mg/l	25	1.22	3.95	8.61	3.50	6.57	4.84	4.11	5.20	2.15
Organic Nitrogen	mg/l	25	0.98	1.65	2.87	1.40	2.54	1.26	1.90	2.35	1.24
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	25	0.082	0.303	0.705	0.282	0.480	0.263	0.354	0.485	0.156
Total Phosphorus	mg/l	25	0.13	0.76	3.84	0.56	1.37	0.40	0.83	0.94	0.87
Sodium (Na ⁺)	mg/l	11	29.8	40.2	50.8	41.1	50.0	40.2	44.6	42.6	34.2
Potassium (K ⁺)	mg/l	11	7.2	8.1	9.9	7.8	9.3	7.5	7.7	9.5	8.2
Calcium (Ca ²⁺)	mg/l	11	61.5	84.3	112.7	88.0	107.8	83.0	92.2	93.4	71.7
Magnesium (Mg ²⁺)	mg/l	11	45.0	58.7	85.2	57.9	65.7	59.6	55.8	50.2	66.4
Chloride (Cl ⁻)	mg/l	11	35	49	61	52	60	51	50	56	43
Sulphate (SO ₄ ²⁻)	mg/l	11	100	142	162	154	161	158	145	138	125
Iron (Fe)	mg/l	11	0.020	0.038	0.130	0.020	0.070	0.023	0.057	0.055	0.023
Manganese (Mn)	mg/l	10	0.010	0.036	0.070	0.030	0.070	0.053	0.040	0.030	0.010
Zinc (Zn)	µg/l	22	8.0	28.1	72.0	31.0	43.9	32.5	40.8	14.6	21.0
Copper (Cu)	µg/l	22	1.1	5.3	13.1	4.4	11.3	4.9	6.9	3.3	5.9
Chromium (Cr) - total	µg/l	22	0.1	1.4	5.1	1.1	3.1	1.1	2.5	1.0	0.9
Lead (Pb)	µg/l	22	0.1	0.3	1.2	0.1	1.0	0.2	0.4	0.6	0.1
Cadmium (Cd)	µg/l	22	0.01	0.02	0.06	0.01	0.04	0.03	0.01	0.01	0.02
Mercury (Hg)	µg/l	21	0.050	0.107	1.100	0.050	0.050	0.050	0.050	0.313	0.080
Nickel (Ni)	µg/l	22	0.4	3.8	29.0	2.2	5.9	1.2	3.8	3.1	7.7
Arsenic (As)	µg/l	14	0.5	3.1	8.0	2.5	6.8	4.6	1.1	4.7	1.0
Aluminium (Al)	µg/l	22	3.3	87.2	665.0	38.5	237.3	115.9	145.2	47.9	22.5
BOD ₅	mg/l	25	0.7	3.9	10.4	3.5	6.3	3.3	4.8	5.7	2.1
COD _{Cr}	mg/l	25	15.0	29.0	63.0	23.0	49.2	20.0	26.9	45.8	27.0
COD _{Mn}	mg/l	25	5.0	10.5	20.9	9.3	15.6	8.2	11.6	15.9	7.4
DOC	mg/l										
Phenol index	mg/l	11	0.001	0.546	6.000	0.001	0.001	2.000	0.001	0.001	0.001
Anionic active surfactants	mg/l	25	0.010	0.010	0.010						
Petroleum hydrocarbons	mg/l	10	0.025	0.075	0.112	0.081	0.106	0.075	0.063	0.073	0.088
AOX	µg/l	11	11.00	36.36	108.00	24.00	60.00	56.00	22.67	56.00	17.33
Lindane	µg/l	11	1.000	3.736	13.000	3.000	4.700	6.000	3.867	2.250	2.333
pp'DDT	µg/l	11	0.001	0.910	10.000	0.001	0.001	0.001	0.001	0.001	3.334
Atrazine	µg/l	11	0.001	141.637	620.000	86.000	225.000	301.000	134.333	0.001	84.000
Chloroform	µg/l	11	0.05	0.30	0.70	0.40	0.50	0.17	0.32	0.18	0.50
Carbon tetrachloride	µg/l	11	0.05	0.26	1.80	0.05	0.40	0.07	0.10	0.05	0.75
Trichloroethylene	µg/l	11	0.05	0.05	0.05						
Tetrachloroethylene	µg/l	11	0.05	0.05	0.10	0.05	0.05	0.07	0.05	0.05	0.05
Total Coliforms (37°C)	10 ³ CFU/100 ml	6	4.000	31.333	50.000	32.000	50.000	4.000	32.000	41.000	35.000
Faecal Coliforms (44°C)	10 ³ CFU/100 ml										
Faecal Streptococci	10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	10	8.9	46.5	170.2	34.5	78.3	20.7	71.8	49.6	45.9

* in case of dissolved oxygen C10 was calculated

River	/Drava	Catchment	35764 km ²	H07
Distance from the mouth [km]	68.0	Altitude	87 m	
Location	Dravaszabolcs M			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	362	220.0	532.9	1600.0	481.0	859.8	303.7	425.6	643.3	753.8
Temperature	°C	26	1.5	12.6	25.5	12.5	22.2	6.4	17.6	19.6	6.5
Suspended Solids	mg/l	14	9	22	68	15	42	10	31	22	30
Dissolved Oxygen	mg/l	26	7.1	9.8	12.8	9.9	8.1	11.2	8.8	8.3	11.2
pH	-	26	7.5	8.1	8.3	8.2	8.3	8.2	8.1	8.2	8.0
Conductivity @ 20°C	µS/cm	26	244	324	400	320	390	384	294	275	341
Alkalinity	mmol/l	14	2.2	3.0	3.6	3.1	3.6	3.5	2.9	2.5	3.3
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	0.01	0.06	0.12	0.05	0.11	0.10	0.04	0.02	0.07
Nitrite-N (NO ₂ ⁻ -N)	mg/l	26	0.005	0.030	0.210	0.024	0.041	0.053	0.020	0.014	0.032
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	0.81	1.43	2.26	1.42	1.91	1.85	1.22	1.13	1.49
Organic Nitrogen	mg/l	7	0.14	0.63	1.25	0.67	1.00	0.23	0.39	1.05	0.73
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	0.039	0.060	0.209	0.059	0.078	0.076	0.053	0.057	0.052
Total Phosphorus	mg/l	26	0.06	0.12	0.26	0.11	0.16	0.11	0.15	0.12	0.11
Sodium (Na ⁺)	mg/l	14	5.3	7.7	11.4	7.5	10.8	10.3	6.8	6.4	6.9
Potassium (K ⁺)	mg/l	14	1.6	2.0	2.4	2.1	2.3	2.3	1.7	1.9	2.1
Calcium (Ca ²⁺)	mg/l	14	34.5	49.9	62.3	50.6	60.1	57.9	47.8	41.3	52.6
Magnesium (Mg ²⁺)	mg/l	14	7.3	15.4	23.4	16.2	19.8	16.2	14.9	12.4	18.9
Chloride (Cl ⁻)	mg/l	14	10	14	19	15	16	16	15	11	14
Sulphate (SO ₄ ²⁻)	mg/l	14	25	36	47	36	41	37	35	30	41
Iron (Fe)	mg/l	13	0.010	0.029	0.100	0.020	0.046	0.030	0.043	0.023	0.020
Manganese (Mn)	mg/l	13	0.010	0.024	0.060	0.020	0.038	0.028	0.017	0.028	0.020
Zinc (Zn)	µg/l	24	5.0	23.0	157.0	15.0	35.6	17.0	45.3	10.6	21.8
Copper (Cu)	µg/l	25	0.3	2.5	5.3	2.2	4.1	3.1	3.4	1.7	1.7
Chromium (Cr) - total	µg/l	25	0.1	0.9	3.6	0.7	2.6	0.6	1.8	0.6	0.7
Lead (Pb)	µg/l	25	0.1	1.1	4.2	1.1	2.5	1.4	1.4	0.8	1.0
Cadmium (Cd)	µg/l	25	0.01	0.02	0.14	0.01	0.05	0.02	0.04	0.01	0.02
Mercury (Hg)	µg/l	25	0.050	0.052	0.100	0.050	0.050	0.050	0.050	0.050	0.060
Nickel (Ni)	µg/l	25	0.3	1.7	9.2	1.2	3.4	3.0	0.8	1.1	1.8
Arsenic (As)	µg/l	12	0.5	1.5	3.7	0.9	3.6	2.0	1.6	1.5	0.5
Aluminium (Al)	µg/l	25	0.0	20.5	57.0	14.0	43.3	28.5	24.4	14.4	13.0
BOD ₅	mg/l	26	1.3	3.0	6.9	2.7	5.1	2.1	2.1	2.8	5.0
COD _{Cr}	mg/l	26	1.0	5.5	13.0	1.0	11.5	2.6	7.8	6.3	5.5
COD _{Mn}	mg/l	26	2.7	3.7	4.9	3.6	4.5	3.4	4.0	3.6	3.7
DOC	mg/l										
Phenol index	mg/l	14	0.001	1.358	8.000	0.001	5.700	2.750	2.667	0.001	0.001
Anionic active surfactants	mg/l	24	0.010	0.010	0.010						
Petroleum hydrocarbons	mg/l	14	0.005	0.044	0.100	0.050	0.050	0.028	0.050	0.051	0.050
AOX	µg/l	12	0.01	24.59	91.00	28.00	49.50	47.34	10.00	16.75	28.00
Lindane	µg/l	12	0.001	2.475	5.700	1.750	4.350	2.667	2.533	1.575	3.900
pp'DDT	µg/l	12	0.001	0.001	0.001						
Atrazine	µg/l	12	0.001	7.667	18.000	6.000	18.000	2.334	8.667	5.751	18.000
Chloroform	µg/l	12	0.05	0.25	0.70	0.20	0.58	0.13	0.45	0.15	0.30
Carbon tetrachloride	µg/l	12	0.05	0.21	0.70	0.05	0.50	0.05	0.27	0.14	0.50
Trichloroethylene	µg/l	12	0.05	0.07	0.30	0.05	0.05	0.05	0.13	0.05	0.05
Tetrachloroethylene	µg/l	12	0.05	0.05	0.05						
Total Coliforms (37°C)	10 ³ CFU/100 ml	26	0.000	86.962	920.000	32.000	170.000	10.571	27.333	199.000	105.000
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	25	0.000	7.248	35.000	3.000	22.000	3.000	1.240	7.857	16.500
Faecal Streptococci	10 ³ CFU/100 ml	4	0.000	2.000	6.000						
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	26	0.3	5.3	20.0	0.3	15.5	1.2	12.8	7.2	0.3

* in case of dissolved oxygen C10 was calculated

River	/Tisza	Catchment	138498 km ²	H08
Distance from the mouth [km]	163.0	Altitude	74 m	
Location	Tiszasziget L			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	26	438.0	1220.9	2390.0	1100.0	1890.0	804.7	1420.4	1117.3	1467.0
Temperature	°C	26	0.5	12.2	24.9	12.0	23.3	4.2	15.3	20.7	8.4
Suspended Solids	mg/l	12	30	193	581	146	414	104	334	200	135
Dissolved Oxygen	mg/l	26	5.0	9.1	12.5	8.9	6.9	11.5	8.2	7.2	9.5
pH	-	26	6.7	7.9	8.1	7.9	8.1	7.8	7.9	7.9	7.9
Conductivity @ 20°C	µS/cm	26	268	417	685	396	543	498	357	438	390
Alkalinity	mmol/l	12	1.8	2.7	3.9	2.7	3.6	2.7	2.3	2.9	2.9
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	0.02	0.08	0.32	0.05	0.20	0.15	0.05	0.04	0.06
Nitrite-N (NO ₂ ⁻ -N)	mg/l	26	0.005	0.027	0.152	0.021	0.038	0.048	0.022	0.018	0.021
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	0.86	1.57	2.24	1.48	2.13	2.08	1.56	1.12	1.53
Organic Nitrogen	mg/l	26	0.13	0.27	0.72	0.24	0.40	0.26	0.37	0.26	0.18
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	0.003	0.053	0.108	0.049	0.084	0.055	0.062	0.040	0.052
Total Phosphorus	mg/l	26	0.08	0.21	0.39	0.20	0.32	0.23	0.23	0.16	0.21
Sodium (Na ⁺)	mg/l	12	13.5	24.3	53.0	22.5	34.3	33.3	17.8	23.7	22.5
Potassium (K ⁺)	mg/l	12	2.4	3.7	5.0	3.5	4.4	3.5	3.7	3.7	3.7
Calcium (Ca ²⁺)	mg/l	12	37.2	52.7	87.0	50.5	69.7	60.3	45.8	53.0	51.8
Magnesium (Mg ²⁺)	mg/l	12	7.5	10.2	14.6	9.8	12.5	9.6	9.5	11.1	10.3
Chloride (Cl ⁻)	mg/l	12	14	32	79	29	42	45	21	34	27
Sulphate (SO ₄ ²⁻)	mg/l	12	37	53	80	52	74	61	49	48	53
Iron (Fe)	mg/l	13	0.010	0.053	0.100	0.060	0.098	0.080	0.077	0.033	0.013
Manganese (Mn)	mg/l	13	0.010	0.705	8.000	0.010	0.808	0.020	0.013	0.010	3.003
Zinc (Zn)	µg/l	13	5.0	7.2	23.0	5.0	9.4	9.5	6.0	5.7	6.7
Copper (Cu)	µg/l	12	2.5	4.1	7.0	3.5	5.5	4.6	3.7	4.7	3.0
Chromium (Cr) - total	µg/l	11	0.1	4.2	17.5	3.0	9.0	5.5	1.5	6.3	3.5
Lead (Pb)	µg/l	11	0.1	0.2	1.0	0.1	0.1	0.3	0.1	0.1	0.1
Cadmium (Cd)	µg/l	11	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Mercury (Hg)	µg/l	12	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
Nickel (Ni)	µg/l	9	0.3	1.9	3.0	2.0	3.0	1.8	1.1	3.0	2.0
Arsenic (As)	µg/l	3	2.0	2.0	2.0						
Aluminium (Al)	µg/l	9	0.3	0.3	0.3						
BOD ₅	mg/l	26	0.5	1.8	3.3	1.7	2.8	2.1	1.8	2.0	1.6
COD _{Cr}	mg/l	26	17.0	23.3	37.0	22.0	28.0	23.5	23.9	25.0	21.0
COD _{Mn}	mg/l	26	2.8	5.8	13.5	5.5	8.5	4.6	7.2	6.4	5.0
DOC	mg/l										
Phenol index	mg/l	12	0.001	2.584	10.000	0.001	5.900	3.334	3.667	1.667	1.667
Anionic active surfactants	mg/l	26	0.010	0.010	0.010						
Petroleum hydrocarbons	mg/l	11	0.020	0.044	0.180	0.020	0.060	0.035	0.040	0.023	0.073
AOX	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										
Total Coliforms (37°C)	10 ³ CFU/100 ml	26	20.000	216.000	1200.000	135.000	415.000	134.167	127.286	530.333	105.429
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	18	9.000	41.133	216.000	23.500	83.900	28.900	10.000	41.667	52.114
Faecal Streptococci	10 ³ CFU/100 ml	18	1.700	9.228	38.000	7.250	20.240	14.300	1.700	9.617	7.071
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	26	0.3	10.6	67.5	0.3	30.7	1.3	8.8	29.9	3.6

* in case of dissolved oxygen C10 was calculated

River	/Tisza	Catchment	138498 km ²	H08
Distance from the mouth [km]	163.0	Altitude	74 m	
Location	Tiszasziget M			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	364	406.0	1230.2	2650.0	1060.0	2100.0	853.9	1417.3	1159.9	1486.4
Temperature	°C	26	0.5	12.0	25.0	12.0	23.4	4.1	15.2	20.4	8.4
Suspended Solids	mg/l	12	28	175	479	136	373	110	286	179	125
Dissolved Oxygen	mg/l	26	4.7	9.0	12.6	9.1	6.7	11.6	8.1	7.0	9.5
pH	-	26	7.7	7.9	8.2	7.9	8.1	8.0	7.9	8.0	7.9
Conductivity @ 20°C	µS/cm	26	260	393	645	376	510	452	345	417	370
Alkalinity	mmol/l	12	1.9	2.7	3.9	2.6	3.7	2.8	2.3	2.8	2.8
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	0.01	0.07	0.34	0.05	0.17	0.16	0.04	0.04	0.06
Nitrite-N (NO ₂ ⁻ -N)	mg/l	26	0.005	0.019	0.040	0.018	0.030	0.021	0.019	0.020	0.018
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	0.70	1.52	2.64	1.42	2.05	2.05	1.54	1.04	1.45
Organic Nitrogen	mg/l	26	0.11	0.27	0.95	0.23	0.36	0.23	0.30	0.38	0.19
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	0.016	0.056	0.124	0.057	0.082	0.063	0.065	0.043	0.054
Total Phosphorus	mg/l	26	0.02	0.19	0.54	0.18	0.32	0.28	0.19	0.15	0.16
Sodium (Na ⁺)	mg/l	12	12.5	22.1	49.0	20.0	31.4	30.7	16.5	21.3	20.0
Potassium (K ⁺)	mg/l	12	2.2	3.3	4.2	3.3	4.0	3.3	3.1	3.4	3.5
Calcium (Ca ²⁺)	mg/l	12	32.9	50.7	80.0	48.0	68.5	57.5	42.3	50.3	52.9
Magnesium (Mg ²⁺)	mg/l	12	4.2	9.9	12.9	10.6	12.3	11.1	9.6	10.8	8.2
Chloride (Cl ⁻)	mg/l	12	14	29	69	27	39	41	20	31	25
Sulphate (SO ₄ ²⁻)	mg/l	12	31	51	84	45	76	60	42	47	53
Iron (Fe)	mg/l	13	0.010	0.059	0.140	0.050	0.108	0.073	0.107	0.033	0.020
Manganese (Mn)	mg/l	13	0.010	0.016	0.060	0.010	0.034	0.018	0.010	0.010	0.027
Zinc (Zn)	µg/l	25	5.0	19.7	69.0	13.0	44.0	14.7	25.6	22.7	14.8
Copper (Cu)	µg/l	24	2.1	4.8	15.4	4.0	6.1	5.5	6.1	3.9	3.3
Chromium (Cr) - total	µg/l	22	0.1	3.7	15.6	2.4	8.2	3.1	4.9	3.4	3.2
Lead (Pb)	µg/l	24	0.1	0.4	1.2	0.1	1.0	0.4	0.4	0.5	0.3
Cadmium (Cd)	µg/l	23	0.01	0.03	0.12	0.01	0.08	0.05	0.04	0.02	0.02
Mercury (Hg)	µg/l	24	0.050	0.056	0.200	0.050	0.050	0.050	0.050	0.050	0.080
Nickel (Ni)	µg/l	23	0.9	1.9	4.0	2.0	2.5	1.7	1.8	2.2	1.8
Arsenic (As)	µg/l	16	0.5	2.3	10.3	2.0	3.4	2.7	1.1	4.3	1.3
Aluminium (Al)	µg/l	21	0.3	11.8	64.0	4.8	41.0	4.8	20.7	4.3	23.2
BOD ₅	mg/l	26	0.5	1.8	3.5	1.7	2.7	2.3	1.6	1.7	1.6
COD _{Cr}	mg/l	26	16.0	21.3	31.0	20.5	25.5	22.0	20.7	23.3	19.6
COD _{Mn}	mg/l	26	2.6	5.6	12.3	5.4	7.9	4.7	6.6	6.2	4.9
DOC	mg/l										
Phenol index	mg/l	12	0.001	1.500	13.000	0.001	4.500	4.334	1.667	0.001	0.001
Anionic active surfactants	mg/l	26	0.010	0.010	0.010						
Petroleum hydrocarbons	mg/l	11	0.020	0.052	0.160	0.040	0.080	0.045	0.027	0.040	0.093
AOX	µg/l	12	0.01	12.50	41.00	6.50	36.80	13.67	9.00	27.33	0.01
Lindane	µg/l	11	2.600	5.745	10.000	6.200	8.800	6.567	6.800	3.300	5.500
pp'DDT	µg/l	11	0.001	1.274	14.000	0.001	0.001	0.001	0.001	0.001	4.667
Atrazine	µg/l	11	0.001	19.200	61.000	13.000	48.000	6.734	11.334	0.001	52.333
Chloroform	µg/l	12	0.05	0.29	0.90	0.25	0.59	0.47	0.32	0.23	0.13
Carbon tetrachloride	µg/l	12	0.05	0.15	0.40	0.05	0.40	0.10	0.05	0.05	0.40
Trichloroethylene	µg/l	12	0.05	0.05	0.05						
Tetrachloroethylene	µg/l	12	0.05	0.05	0.05						
Total Coliforms (37°C)	10 ³ CFU/100 ml	25	26.000	355.920	2600.000	140.000	648.000	109.833	444.000	720.833	178.571
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	17	8.000	42.459	165.000	26.000	95.000	25.575	35.750	59.833	37.800
Faecal Streptococci	10 ³ CFU/100 ml	17	0.700	7.671	31.000	6.500	14.600	17.250	4.150	4.900	4.740
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	25	0.3	11.3	66.1	5.1	42.1	1.3	7.7	35.0	2.7

* in case of dissolved oxygen C10 was calculated

River	/Tisza	Catchment	138498 km ²	H08
Distance from the mouth [km]	163.0	Altitude	74 m	
Location	Tiszasziget R			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	26	438.0	1220.9	2390.0	1100.0	1890.0	804.7	1420.4	1117.3	1467.0
Temperature	°C	26	0.5	12.0	25.0	11.9	23.4	4.0	15.1	20.8	8.3
Suspended Solids	mg/l	12	22	167	441	125	337	102	265	174	127
Dissolved Oxygen	mg/l	26	4.8	8.8	12.4	8.2	6.6	11.5	8.1	6.7	9.0
pH	-	26	7.0	7.9	8.1	7.9	8.1	7.8	7.9	7.9	7.8
Conductivity @ 20°C	µS/cm	26	254	378	595	366	484	426	338	403	356
Alkalinity	mmol/l	12	1.8	2.7	3.7	2.6	3.6	2.8	2.3	2.8	2.8
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	0.01	0.09	0.40	0.05	0.17	0.19	0.08	0.05	0.05
Nitrite-N (NO ₂ ⁻ -N)	mg/l	26	0.005	0.018	0.030	0.018	0.027	0.020	0.018	0.019	0.015
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	0.63	1.44	2.19	1.45	1.88	1.90	1.47	1.00	1.41
Organic Nitrogen	mg/l	26	0.04	0.22	0.35	0.22	0.29	0.21	0.28	0.22	0.16
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	0.029	0.065	0.189	0.059	0.096	0.068	0.067	0.072	0.055
Total Phosphorus	mg/l	26	0.07	0.20	0.55	0.18	0.32	0.27	0.20	0.18	0.17
Sodium (Na ⁺)	mg/l	12	10.0	20.1	45.0	17.3	29.6	25.3	16.2	20.2	18.8
Potassium (K ⁺)	mg/l	12	2.0	5.5	30.0	3.4	3.8	12.3	3.0	3.5	3.4
Calcium (Ca ²⁺)	mg/l	13	21.0	47.6	70.0	44.3	64.8	54.9	43.2	42.7	51.2
Magnesium (Mg ²⁺)	mg/l	12	6.4	10.2	18.3	10.2	12.8	12.0	9.3	10.7	8.9
Chloride (Cl ⁻)	mg/l	12	13	26	56	23	37	34	19	29	21
Sulphate (SO ₄ ²⁻)	mg/l	12	33	52	84	46	76	61	46	46	54
Iron (Fe)	mg/l	13	0.010	0.051	0.110	0.060	0.086	0.075	0.063	0.040	0.017
Manganese (Mn)	mg/l	13	0.010	0.027	0.080	0.010	0.068	0.035	0.010	0.027	0.033
Zinc (Zn)	µg/l	13	5.0	7.1	23.0	5.0	10.8	6.8	5.7	11.0	5.0
Copper (Cu)	µg/l	12	2.5	4.2	8.5	4.0	5.5	4.0	3.2	5.7	3.8
Chromium (Cr) - total	µg/l	11	0.1	1.4	3.5	1.5	3.0	1.5	0.5	2.2	1.3
Lead (Pb)	µg/l	12	0.1	0.2	1.0	0.1	0.1	0.1	0.1	0.4	0.1
Cadmium (Cd)	µg/l	11	0.01	0.01	0.01						
Mercury (Hg)	µg/l	12	0.050	0.050	0.050						
Nickel (Ni)	µg/l	11	0.3	1.7	4.0	1.5	3.5	2.2	0.5	2.7	1.1
Arsenic (As)	µg/l	4	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Aluminium (Al)	µg/l	9	0.3	2.7	22.0	0.3	4.6	7.5	0.3	0.3	
BOD ₅	mg/l	26	0.5	2.1	4.0	1.8	3.5	2.7	2.3	2.2	1.3
COD _{Cr}	mg/l	26	4.0	19.9	28.0	20.5	24.0	21.0	20.1	19.2	19.4
COD _{Mn}	mg/l	26	2.7	5.6	10.9	5.5	8.1	4.9	6.2	6.3	5.0
DOC	mg/l										
Phenol index	mg/l	12	0.001	0.834	5.000	0.001	4.500	1.667	1.667	0.001	0.001
Anionic active surfactants	mg/l	26	0.010	0.010	0.010						
Petroleum hydrocarbons	mg/l	11	0.020	0.035	0.080	0.020	0.080	0.050	0.027	0.023	0.043
AOX	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										
Total Coliforms (37°C)	10 ³ CFU/100 ml	26	0.000	1557.692	9200.000	462.500	4700.000	816.500	1049.286	4048.333	566.571
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	18	0.000	128.806	600.000	87.000	258.000	90.000	80.000	217.083	82.286
Faecal Streptococci	10 ³ CFU/100 ml	18	0.000	13.944	41.000	11.750	27.300	22.500	4.000	13.883	10.529
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	25	0.3	9.2	59.0	5.8	15.6	1.2	8.5	24.5	3.3

* in case of dissolved oxygen C10 was calculated

River	/Tisza/Sajo	Catchment	3224 km ²	H09
Distance from the mouth [km]	124.0	Altitude	148 m	
Location	Sajopusoki M			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	361	4.6	18.2	98.3	12.7	36.4	10.4	16.3	11.1	35.3
Temperature	°C	52	0.2	10.1	22.7	10.2	20.5	3.7	14.0	17.8	5.0
Suspended Solids	mg/l	12	8	38	92	35	72	11	48	38	53
Dissolved Oxygen	mg/l	52	7.0	10.7	14.6	10.2	8.2	12.8	9.3	8.6	12.0
pH	-	52	7.2	7.9	8.2	7.9	8.1	8.0	7.9	7.9	7.9
Conductivity @ 20°C	µS/cm	52	253	397	497	403	451	419	363	403	401
Alkalinity	mmol/l	12	2.6	3.0	3.7	3.0	3.3	3.0	2.9	3.4	3.0
Ammonium-N (NH ₄ ⁺ -N)	mg/l	52	0.05	0.18	0.44	0.17	0.26	0.18	0.16	0.12	0.24
Nitrite-N (NO ₂ ⁻ -N)	mg/l	52	0.018	1.019	30.000	0.036	0.067	1.642	0.059	2.348	0.026
Nitrate-N (NO ₃ ⁻ -N)	mg/l	52	0.03	2.02	2.78	1.97	2.58	2.34	1.86	1.68	2.18
Organic Nitrogen	mg/l	52	0.28	0.92	2.98	0.76	1.84	0.82	1.40	0.81	0.65
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	52	0.029	0.079	0.170	0.074	0.114	0.068	0.087	0.106	0.054
Total Phosphorus	mg/l	52	0.08	0.18	0.89	0.13	0.32	0.10	0.27	0.24	0.11
Sodium (Na ⁺)	mg/l	12	8.1	10.1	13.5	9.9	11.2	10.3	11.0	10.0	9.1
Potassium (K ⁺)	mg/l	12	3.3	4.1	5.4	4.0	5.1	4.0	4.1	4.6	3.5
Calcium (Ca ²⁺)	mg/l	12	46.8	59.5	72.2	60.6	67.2	60.9	54.9	65.8	56.2
Magnesium (Mg ²⁺)	mg/l	12	12.1	15.7	19.2	15.8	19.0	15.2	14.6	16.0	16.9
Chloride (Cl ⁻)	mg/l	12	9	15	24	16	22	17	14	18	13
Sulphate (SO ₄ ²⁻)	mg/l	12	51	66	85	68	77	72	64	67	62
Iron (Fe)	mg/l	12	0.003	0.035	0.120	0.021	0.078	0.048	0.042	0.034	0.015
Manganese (Mn)	mg/l	12	0.001	0.047	0.120	0.045	0.097	0.057	0.050	0.034	0.047
Zinc (Zn)	µg/l	23	2.5	61.9	144.0	65.0	109.2	71.5	65.7	56.6	52.2
Copper (Cu)	µg/l	23	0.8	3.7	8.1	3.7	6.4	4.2	3.6	4.3	2.6
Chromium (Cr) - total	µg/l	23	0.1	0.8	2.7	0.8	1.8	0.9	1.3	0.5	0.7
Lead (Pb)	µg/l	23	0.1	1.0	2.9	1.0	1.7	1.2	0.7	1.2	0.7
Cadmium (Cd)	µg/l	23	0.01	0.02	0.08	0.01	0.02	0.02	0.02	0.01	0.01
Mercury (Hg)	µg/l	23	0.050	0.050	0.050						
Nickel (Ni)	µg/l	23	0.3	1.4	4.6	1.4	1.9	1.2	1.3	1.3	2.2
Arsenic (As)	µg/l	15	0.5	1.5	4.6	1.5	2.8	2.1	1.9	1.0	1.0
Aluminium (Al)	µg/l	23	0.3	23.2	59.0	20.7	45.8	16.2	29.3	27.5	18.9
BOD ₅	mg/l	52	1.3	3.5	7.2	3.4	5.4	3.9	3.3	3.2	3.5
COD _{Cr}	mg/l	52	1.0	15.8	103.0	13.0	21.9	6.8	20.0	22.1	14.3
COD _{Mn}	mg/l	52	2.0	5.3	28.8	4.1	8.3	2.7	7.3	7.1	4.2
DOC	mg/l										
Phenol index	mg/l	12	0.001	0.001	0.001						
Anionic active surfactants	mg/l	52	0.010	0.010	0.010						
Petroleum hydrocarbons	mg/l	12	0.020	0.038	0.070	0.035	0.050	0.037	0.043	0.040	0.030
AOX	µg/l	12	0.01	11.17	44.00	5.50	28.10	11.34	9.00	24.34	0.01
Lindane	µg/l	15	0.100	2.167	3.600	2.600	3.480	2.000	2.475	2.300	1.925
pp'DDT	µg/l	12	0.001	0.001	0.001						
Atrazine	µg/l	15	0.001	10.260	43.000	0.200	43.000	0.051	3.051	4.001	32.375
Chloroform	µg/l	15	0.05	0.41	2.20	0.20	0.92	0.23	0.60	0.48	0.36
Carbon tetrachloride	µg/l	15	0.05	0.38	2.80	0.10	0.80	0.24	0.79	0.07	0.36
Trichloroethylene	µg/l	15	0.05	0.15	1.00	0.05	0.34	0.16	0.06	0.05	0.29
Tetrachloroethylene	µg/l	15	0.05	0.16	1.00	0.05	0.34	0.19	0.08	0.07	0.29
Total Coliforms (37°C)	10 ³ CFU/100 ml	24	0.000	208.667	800.000	175.000	488.000	41.667	208.333	208.000	376.667
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	6	5.000	19.167	40.000	16.000	35.500	16.000	31.000	17.333	
Faecal Streptococci	10 ³ CFU/100 ml	6	0.000	2.067	5.100	0.950	5.050	2.750	5.000	0.633	
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	52	0.3	4.3	27.4	2.6	9.7	2.0	8.0	5.3	1.9

* in case of dissolved oxygen C10 was calculated

River	/Drava	Catchment	15356 km ²	SI01
Distance from the mouth [km]	300.0	Altitude	200 m	
Location	Ormoz L			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	365	87.0	294.2	1988.0	239.0	490.8	144.7	240.3	371.2	416.4
Temperature	°C	12	2.0	10.5	20.6	9.1	19.5	4.2	14.6	17.8	5.4
Suspended Solids	mg/l	11	3	13	24	15	19	12	14	15	12
Dissolved Oxygen	mg/l	12	8.1	11.4	15.1	12.2	9.1	13.9	10.6	8.9	12.4
pH	-	12	7.8	8.1	8.4	8.2	8.3	8.3	8.1	7.9	8.1
Conductivity @ 20°C	µS/cm	12	199	260	302	274	299	291	266	219	265
Alkalinity	mmol/l	12	1.8	2.3	2.8	2.5	2.6	2.6	2.1	2.0	2.5
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.01	0.04	0.08	0.04	0.05	0.04	0.03	0.04	0.06
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.006	0.009	0.015	0.009	0.012	0.008	0.009	0.010	0.010
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.72	1.08	1.42	1.10	1.38	1.30	0.95	0.84	1.24
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.002	0.016	0.036	0.018	0.020	0.012	0.011	0.021	0.020
Total Phosphorus	mg/l	12	0.02	0.03	0.06	0.03	0.04	0.03	0.02	0.04	0.03
Sodium (Na ⁺)	mg/l	12	2.5	4.5	6.7	4.2	6.3	6.1	4.2	3.5	4.3
Potassium (K ⁺)	mg/l	12	1.0	1.4	1.8	1.5	1.7	1.5	1.3	1.5	1.5
Calcium (Ca ²⁺)	mg/l	12	30.0	39.0	45.8	41.1	45.7	44.6	35.3	34.1	41.9
Magnesium (Mg ²⁺)	mg/l	12	7.4	9.8	13.4	9.8	12.4	11.0	9.8	8.2	10.2
Chloride (Cl ⁻)	mg/l	12	2	5	6	4	6	6	4	4	4
Sulphate (SO ₄ ²⁻)	mg/l	12	22	28	39	27	36	36	28	23	27
Iron (Fe)	mg/l	12	0.010	0.041	0.100	0.035	0.068	0.037	0.027	0.047	0.053
Manganese (Mn)	mg/l										
Zinc (Zn)	µg/l	12	2.0	5.8	20.0	2.0	9.9	7.0	9.7	2.0	4.3
Copper (Cu)	µg/l	12	0.1	0.8	3.7	0.6	1.1	0.7	0.2	0.6	1.6
Chromium (Cr) - total	µg/l	12	0.2	1.3	3.3	1.2	2.8	1.2	1.4	1.7	0.8
Lead (Pb)	µg/l	12	0.4	6.1	34.1	3.1	10.2	15.2	1.5	3.1	4.6
Cadmium (Cd)	µg/l	12	0.02	0.46	3.32	0.10	0.84	1.58	0.10	0.13	0.03
Mercury (Hg)	µg/l	12	0.250	0.250	0.250						
Nickel (Ni)	µg/l	12	0.5	1.3	4.8	0.8	2.3	1.9	1.5	1.1	1.0
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l	12	5.0	16.7	30.0	20.0	30.0	23.3	20.0	18.3	5.0
BOD ₅	mg/l	12	0.4	2.2	4.1	2.1	3.5	2.7	2.9	1.1	1.9
COD _{Cr}	mg/l	12	4.1	7.2	13.8	6.7	9.4	5.6	8.0	8.5	6.6
COD _{Mn}	mg/l	12	1.6	2.3	3.5	2.1	2.9	2.2	2.2	2.7	2.0
DOC	mg/l										
Phenol index	mg/l	12	0.001	0.003	0.007	0.003	0.006	0.003	0.004	0.003	0.003
Anionic active surfactants	mg/l	12	0.010	0.019	0.040	0.015	0.039	0.030	0.020	0.010	0.017
Petroleum hydrocarbons	mg/l	5	0.003	0.010	0.025	0.010	0.020	0.025	0.012		0.003
AOX	µg/l	1	3.00	3.00	3.00						
Lindane	µg/l	1	0.005	0.005	0.005						
pp'DDT	µg/l	1	0.002	0.002	0.002						
Atrazine	µg/l	1	0.015	0.015	0.015						
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	10 ³ CFU/100 ml	1	2.500	2.500	2.500						
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	1	0.300	0.300	0.300						
Faecal Streptococci	10 ³ CFU/100 ml	1	0.050	0.050	0.050						
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	2	20	26	31	26	30	20			
Macrozoobenthos	sapr.index	2	2.3	2.3	2.3	2.3	2.3	2.3			
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	/Sava	Catchment	10878 km ²	S102
Distance from the mouth [km]	729.0	Altitude	133 m	
Location	Jesenice R			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	365	74.0	272.7	2458.0	177.0	516.4	144.9	188.7	274.3	480.8
Temperature	°C	12	6.7	12.6	21.2	11.8	18.7	9.2	15.5	16.8	8.8
Suspended Solids	mg/l	12	3	12	30	13	17	7	12	11	17
Dissolved Oxygen	mg/l	12	8.2	10.0	12.1	10.1	8.2	11.1	9.4	8.6	10.8
pH	-	12	7.7	7.9	8.2	8.0	8.1	8.0	7.8	7.9	8.0
Conductivity @ 20°C	µS/cm	12	324	354	400	354	381	380	345	335	357
Alkalinity	mmol/l	12	3.4	3.6	4.0	3.6	3.9	3.7	3.5	3.5	3.8
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.02	0.05	0.16	0.03	0.14	0.08	0.02	0.03	0.10
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.012	0.020	0.036	0.018	0.027	0.018	0.023	0.022	0.015
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.31	1.52	1.81	1.47	1.78	1.73	1.42	1.42	1.50
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.049	0.090	0.140	0.093	0.136	0.094	0.097	0.089	0.079
Total Phosphorus	mg/l	12	0.06	0.12	0.17	0.13	0.17	0.13	0.12	0.11	0.09
Sodium (Na ⁺)	mg/l	12	3.3	5.6	9.1	5.3	8.7	7.0	6.5	4.7	4.2
Potassium (K ⁺)	mg/l	12	0.9	1.4	1.8	1.4	1.7	1.4	1.3	1.6	1.2
Calcium (Ca ²⁺)	mg/l	12	54.3	58.5	65.8	57.9	64.6	58.8	55.1	56.5	63.7
Magnesium (Mg ²⁺)	mg/l	12	10.8	13.8	17.3	13.9	16.4	15.9	13.4	12.7	13.0
Chloride (Cl ⁻)	mg/l	12	5	7	11	6	9	8	8	6	6
Sulphate (SO ₄ ²⁻)	mg/l	12	14	24	34	24	31	29	22	22	22
Iron (Fe)	mg/l	12	0.030	0.053	0.100	0.040	0.097	0.043	0.037	0.067	0.063
Manganese (Mn)	mg/l										
Zinc (Zn)	µg/l	12	2.0	6.5	20.0	2.0	18.2	4.3	9.7	2.0	10.1
Copper (Cu)	µg/l	12	0.1	0.7	1.6	0.8	1.5	0.9	0.4	1.2	0.4
Chromium (Cr) - total	µg/l	12	0.2	1.7	4.0	1.7	3.3	1.7	1.5	2.0	1.7
Lead (Pb)	µg/l	12	0.4	1.7	4.6	1.0	3.7	1.3	1.5	1.3	2.5
Cadmium (Cd)	µg/l	12	0.02	0.14	0.89	0.04	0.31	0.33	0.16	0.04	0.03
Mercury (Hg)	µg/l	12	0.250	0.250	0.250						
Nickel (Ni)	µg/l	12	0.5	1.0	3.3	0.5	2.2	1.1	0.5	2.1	0.5
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l	12	5.0	25.8	70.0	30.0	40.0	30.0	33.3	35.0	5.0
BOD ₅	mg/l	12	1.7	2.5	3.8	2.2	3.5	2.8	3.1	2.2	1.9
COD _{Cr}	mg/l	12	6.4	12.5	26.3	11.8	15.3	17.1	11.8	11.1	10.2
COD _{Mn}	mg/l	12	2.8	4.9	7.4	4.9	6.2	5.8	4.6	5.0	4.2
DOC	mg/l										
Phenol index	mg/l	12	0.001	0.007	0.016	0.007	0.011	0.009	0.010	0.005	0.004
Anionic active surfactants	mg/l	12	0.010	0.029	0.080	0.020	0.058	0.060	0.027	0.020	0.010
Petroleum hydrocarbons	mg/l	5	0.024	0.043	0.087	0.036	0.070	0.024	0.035		0.062
AOX	µg/l	1	130.00	130.00	130.00						
Lindane	µg/l	2	0.005	0.005	0.005						
pp'DDT	µg/l	2	0.002	0.002	0.002						
Atrazine	µg/l	2	0.015	0.015	0.015						
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	10 ³ CFU/100 ml	1	6.200	6.200	6.200						
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	1	2.600	2.600	2.600						
Faecal Streptococci	10 ³ CFU/100 ml	1	0.200	0.200	0.200						
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	2	14	20	26						
Macrozoobenthos	sapr.index	2	2.2	2.4	2.6						
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	/Drava	Catchment	15616 km ²	HR03
Distance from the mouth [km]	288.0	Altitude	167 m	
Location	Varazdin M			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s										
Temperature	°C	12	1.0	11.1	21.5	12.5	19.3	3.3	15.1	18.1	7.8
Suspended Solids	mg/l	12	3	13	36	11	21	7	9	23	13
Dissolved Oxygen	mg/l	12	8.4	10.6	14.3	10.1	8.6	13.0	10.0	9.1	10.5
pH	-	12	7.2	7.4	7.7	7.4	7.5	7.5	7.5	7.3	7.4
Conductivity @ 20°C	µS/cm	12	208	290	357	299	352	337	297	230	297
Alkalinity	mmol/l	12	0.8	2.0	2.7	2.3	2.6	2.6	1.9	1.4	1.9
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.01	0.06	0.14	0.05	0.12	0.11	0.05	0.04	0.04
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.008	0.013	0.020	0.015	0.015	0.013	0.015	0.014	0.011
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.55	0.94	1.42	0.94	1.35	1.16	0.86	0.61	1.13
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.010	0.018	0.040	0.015	0.029	0.018	0.010	0.027	0.017
Total Phosphorus	mg/l	12	0.02	0.05	0.16	0.04	0.08	0.03	0.04	0.09	0.03
Sodium (Na ⁺)	mg/l	12	3.0	5.0	7.5	4.7	6.7	6.5	5.8	3.6	4.1
Potassium (K ⁺)	mg/l	12	1.1	1.4	2.0	1.3	1.7	1.6	1.3	1.4	1.3
Calcium (Ca ²⁺)	mg/l	12	18.0	43.1	57.0	47.0	55.0	55.7	44.3	33.3	39.0
Magnesium (Mg ²⁺)	mg/l	12	3.0	11.4	23.0	9.5	20.8	18.7	5.7	6.0	15.3
Chloride (Cl ⁻)	mg/l	12	1	4	6	4	6	5	5	3	4
Sulphate (SO ₄ ²⁻)	mg/l	12	11	24	39	21	37	31	24	17	24
Iron (Fe)	mg/l	12	0.007	0.295	1.800	0.060	0.700	0.012	0.043	0.850	0.274
Manganese (Mn)	mg/l	12	0.001	0.021	0.080	0.015	0.039	0.029	0.014	0.029	0.011
Zinc (Zn)	µg/l	12	7.0	13.6	28.0	10.5	26.0	9.7	9.7	16.0	19.0
Copper (Cu)	µg/l	12	1.1	2.4	4.1	2.2	3.7	2.6	1.7	2.8	2.4
Chromium (Cr) - total	µg/l	12	0.1	0.6	2.1	0.4	1.3	0.3	0.4	0.7	1.1
Lead (Pb)	µg/l	12	4.8	9.2	15.3	8.6	13.4	7.1	8.5	10.1	10.9
Cadmium (Cd)	µg/l	12	0.60	1.04	1.60	0.98	1.57	1.17	0.97	0.87	1.14
Mercury (Hg)	µg/l	12	0.003	0.061	0.170	0.050	0.100	0.068	0.018	0.090	0.067
Nickel (Ni)	µg/l	12	3.9	6.6	9.8	6.5	8.6	6.6	6.4	6.4	7.0
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	1.2	2.8	5.2	2.7	4.5	3.3	4.0	2.1	1.9
COD _{Cr}	mg/l	12	3.2	5.8	12.0	4.9	9.7	5.3	7.8	5.7	4.4
COD _{Mn}	mg/l	12	1.4	2.2	4.3	1.8	3.4	1.5	2.5	2.7	2.0
DOC	mg/l										
Phenol index	mg/l	12	0.001	0.002	0.005	0.002	0.004	0.002	0.002	0.003	0.001
Anionic active surfactants	mg/l	12	0.012	0.037	0.070	0.030	0.060	0.039	0.027	0.037	0.047
Petroleum hydrocarbons	mg/l	12	0.012	0.093	0.160	0.108	0.142	0.140	0.091	0.042	0.097
AOX	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										
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	0.400	17.117	110.000	6.650	23.900	12.000	2.233	40.467	13.767
Faecal Coliforms (44°C)	10 ³ CFU/100 ml										
Faecal Streptococci	10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	/Drava	Catchment	31038 km ²	HR04
Distance from the mouth [km]	226.0	Altitude	123 m	
Location	Botovo M			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s										
Temperature	°C	12	2.5	12.4	25.2	12.2	21.0	5.4	15.4	20.5	8.4
Suspended Solids	mg/l	12	4	26	106	14	85	8	18	69	11
Dissolved Oxygen	mg/l	12	7.9	9.5	12.3	9.3	8.0	11.2	8.6	8.1	10.2
pH	-	12	7.1	7.7	8.2	7.7	8.1	7.6	7.8	7.7	7.8
Conductivity @ 20°C	µS/cm	12	232	298	378	297	360	362	282	240	306
Alkalinity	mmol/l	12	1.0	2.3	3.2	2.6	3.0	3.0	2.4	1.1	2.8
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.01	0.04	0.10	0.03	0.09	0.07	0.03	0.02	0.04
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.015	0.021	0.035	0.020	0.028	0.024	0.025	0.017	0.020
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.78	1.32	1.77	1.30	1.70	1.57	1.21	1.09	1.40
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.020	0.035	0.090	0.030	0.039	0.030	0.030	0.050	0.030
Total Phosphorus	mg/l	12	0.04	0.10	0.31	0.06	0.28	0.04	0.06	0.22	0.06
Sodium (Na ⁺)	mg/l	12	4.6	6.3	8.8	5.8	8.5	8.4	6.0	4.7	5.8
Potassium (K ⁺)	mg/l	12	1.1	1.7	2.2	1.8	2.1	2.0	1.5	1.7	1.7
Calcium (Ca ²⁺)	mg/l	12	35.0	46.1	64.0	45.5	59.5	59.7	43.0	35.3	46.3
Magnesium (Mg ²⁺)	mg/l	12	6.0	12.2	16.0	12.5	15.0	13.7	13.0	8.7	13.3
Chloride (Cl ⁻)	mg/l	12	5	9	14	10	12	9	11	7	10
Sulphate (SO ₄ ²⁻)	mg/l	12	15	26	36	26	34	30	25	21	28
Iron (Fe)	mg/l	12	0.008	0.022	0.070	0.020	0.029	0.016	0.033	0.024	0.017
Manganese (Mn)	mg/l	12	0.004	0.015	0.030	0.017	0.020	0.018	0.017	0.012	0.015
Zinc (Zn)	µg/l	12	4.0	10.8	16.0	10.0	14.9	9.7	11.3	10.3	11.7
Copper (Cu)	µg/l	12	0.6	1.7	2.8	1.7	2.7	1.4	2.3	1.4	1.8
Chromium (Cr) - total	µg/l	12	0.2	0.4	0.8	0.3	0.7	0.3	0.6	0.3	0.5
Lead (Pb)	µg/l	12	1.1	3.6	7.7	2.8	6.4	5.1	4.0	2.6	2.7
Cadmium (Cd)	µg/l	12	0.05	0.45	1.80	0.10	1.16	0.70	0.67	0.20	0.23
Mercury (Hg)	µg/l	12	0.003	0.038	0.100	0.025	0.089	0.041	0.024	0.028	0.058
Nickel (Ni)	µg/l	12	1.1	3.5	8.1	2.3	7.6	5.0	4.1	2.7	2.3
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	1.1	2.5	4.4	2.4	4.2	2.1	2.7	2.8	2.4
COD _{Cr}	mg/l	12	4.4	8.8	20.0	7.1	16.4	6.3	9.3	13.8	5.6
COD _{Mn}	mg/l	12	1.7	3.5	8.0	2.7	6.7	2.6	3.3	5.9	2.0
DOC	mg/l										
Phenol index	mg/l	12	0.001	0.004	0.008	0.004	0.006	0.004	0.005	0.004	0.004
Anionic active surfactants	mg/l	12	0.010	0.033	0.060	0.029	0.057	0.040	0.026	0.024	0.042
Petroleum hydrocarbons	mg/l	12	0.020	0.072	0.138	0.072	0.114	0.091	0.065	0.055	0.075
AOX	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										
Total Coliforms (37°C)	10 ³ CFU/100 ml	8	0.900	7.738	24.000	5.750	17.700	9.500	4.200	15.750	1.500
Faecal Coliforms (44°C)	10 ³ CFU/100 ml										
Faecal Streptococci	10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	/Drava	Catchment	37142 km ²	HR05
Distance from the mouth [km]	78.0	Altitude	89 m	
Location	D. Miholjac R			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s										
Temperature	°C	12	1.2	13.1	25.3	13.6	23.4	4.9	17.3	21.5	8.8
Suspended Solids	mg/l	12	5	17	38	16	25	9	20	18	22
Dissolved Oxygen	mg/l	12	8.0	9.7	13.0	9.6	8.1	11.5	8.8	8.2	10.3
pH	-	12	7.4	7.8	8.2	7.8	8.2	7.8	7.9	7.8	7.8
Conductivity @ 20°C	µS/cm	12	238	325	422	310	395	403	292	274	329
Alkalinity	mmol/l	12	1.0	2.3	3.6	2.3	3.2	3.3	1.7	1.2	2.9
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.01	0.04	0.10	0.02	0.09	0.08	0.02	0.01	0.04
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.004	0.020	0.060	0.019	0.026	0.034	0.017	0.007	0.022
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.84	1.31	2.01	1.23	1.72	1.68	1.15	1.03	1.38
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.030	0.053	0.110	0.045	0.070	0.063	0.037	0.060	0.050
Total Phosphorus	mg/l	12	0.07	0.10	0.18	0.09	0.13	0.08	0.12	0.10	0.10
Sodium (Na ⁺)	mg/l	12	5.3	7.2	10.6	6.7	9.5	9.7	6.8	6.4	6.1
Potassium (K ⁺)	mg/l	12	1.3	3.1	8.7	2.0	6.0	2.1	6.8	1.5	1.8
Calcium (Ca ²⁺)	mg/l	12	38.0	49.2	68.0	45.0	63.8	64.7	45.0	40.3	46.7
Magnesium (Mg ²⁺)	mg/l	12	6.0	14.6	20.0	15.0	19.0	17.7	13.7	9.3	17.7
Chloride (Cl ⁻)	mg/l	12	5	11	16	11	16	11	12	9	10
Sulphate (SO ₄ ²⁻)	mg/l	12	21	30	42	30	36	34	32	24	31
Iron (Fe)	mg/l	12	0.020	0.116	1.100	0.026	0.040	0.023	0.383	0.026	0.030
Manganese (Mn)	mg/l	12	0.004	0.016	0.030	0.018	0.020	0.020	0.013	0.014	0.015
Zinc (Zn)	µg/l	12	5.0	10.2	17.0	9.0	15.7	10.0	9.7	8.7	12.3
Copper (Cu)	µg/l	12	0.8	1.9	3.5	1.9	2.7	2.0	1.7	1.7	2.0
Chromium (Cr) - total	µg/l	12	0.3	0.6	1.5	0.5	0.9	0.4	0.6	0.6	1.0
Lead (Pb)	µg/l	12	1.1	5.1	9.3	5.3	8.8	6.4	5.4	4.7	3.7
Cadmium (Cd)	µg/l	12	0.05	0.46	1.50	0.10	1.26	0.77	0.57	0.23	0.28
Mercury (Hg)	µg/l	12	0.003	0.065	0.100	0.090	0.100	0.041	0.060	0.097	0.064
Nickel (Ni)	µg/l	12	0.8	3.7	8.9	2.9	7.9	5.2	4.2	2.2	3.0
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	1.2	2.4	3.9	2.2	3.5	2.8	2.5	2.0	2.2
COD _{Cr}	mg/l	12	4.6	7.9	12.0	7.7	10.0	7.0	10.2	6.9	7.6
COD _{Mn}	mg/l	12	2.2	3.2	4.0	3.1	3.9	2.9	3.9	3.0	3.0
DOC	mg/l										
Phenol index	mg/l	12	0.001	0.004	0.008	0.003	0.005	0.003	0.005	0.004	0.002
Anionic active surfactants	mg/l	12	0.005	0.029	0.072	0.022	0.052	0.043	0.020	0.022	0.029
Petroleum hydrocarbons	mg/l	12	0.010	0.072	0.140	0.061	0.136	0.096	0.069	0.054	0.070
AOX	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										
Total Coliforms (37°C)	10 ³ CFU/100 ml	8	0.800	16.125	110.000	3.150	36.010	4.000	2.900	55.400	2.200
Faecal Coliforms (44°C)	10 ³ CFU/100 ml										
Faecal Streptococci	10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	/Sava	Catchment	10834 km ²	HR06
Distance from the mouth [km]	729.0	Altitude	132 m	
Location	Jesenice R			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	51.4	277.7	1140.0	130.0	880.2	106.3	162.0	447.8	394.6
Temperature	°C	12	0.5	12.3	24.8	11.1	20.9	8.5	16.5	18.4	5.8
Suspended Solids	mg/l	12	1	89	820	16	112	9	24	282	42
Dissolved Oxygen	mg/l	12	4.7	9.1	11.3	9.7	7.6	9.3	9.0	7.2	10.8
pH	-	12	7.6	7.9	8.3	7.9	8.1	7.8	8.0	7.7	8.0
Conductivity @ 20°C	µS/cm	12	240	349	405	355	398	360	338	320	377
Alkalinity	mmol/l	12	1.5	1.9	2.1	2.0	2.1	2.0	1.6	1.9	2.1
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.01	0.23	0.40	0.25	0.39	0.26	0.20	0.27	0.20
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.024	0.034	0.057	0.031	0.044	0.030	0.043	0.030	0.034
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.90	2.47	3.80	2.75	3.08	2.87	2.57	1.73	2.70
Organic Nitrogen	mg/l	12	0.20	1.21	5.30	0.40	2.95	0.23	2.00	2.07	0.53
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.010	0.047	0.150	0.026	0.130	0.045	0.071	0.053	0.020
Total Phosphorus	mg/l										
Sodium (Na ⁺)	mg/l	12	2.5	6.2	9.6	6.4	8.4	7.1	6.3	6.4	5.1
Potassium (K ⁺)	mg/l	12	0.7	1.3	2.0	1.3	1.6	1.3	1.3	1.6	0.9
Calcium (Ca ²⁺)	mg/l	12	42.0	56.8	68.0	57.5	65.6	63.3	49.7	51.7	62.7
Magnesium (Mg ²⁺)	mg/l	12	13.0	16.9	20.0	17.0	19.0	16.0	16.7	16.3	18.7
Chloride (Cl ⁻)	mg/l	12	1	7	12	8	10	10	7	7	5
Sulphate (SO ₄ ²⁻)	mg/l	12	13	21	28	21	27	25	22	18	21
Iron (Fe)	mg/l	12	0.003	0.313	2.000	0.150	0.480	0.101	0.150	0.701	0.300
Manganese (Mn)	mg/l	12	0.001	0.073	0.750	0.001	0.056	0.007	0.007	0.257	0.020
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										
BOD ₅	mg/l	12	0.8	3.4	12.2	2.6	4.6	2.6	3.2	6.4	1.5
COD _{Cr}	mg/l	12	7.0	18.4	78.2	12.7	21.5	16.4	13.9	33.7	9.7
COD _{Mn}	mg/l	12	2.0	6.2	22.0	4.4	8.2	5.4	5.2	11.4	2.9
DOC	mg/l	12	1.7	2.9	4.6	2.7	4.2	3.4	2.8	3.5	2.1
Phenol index	mg/l	12	0.001	0.014	0.131	0.003	0.008	0.003	0.003	0.044	0.005
Anionic active surfactants	mg/l	12	0.005	0.010	0.070	0.005	0.005	0.005	0.005	0.027	0.005
Petroleum hydrocarbons	mg/l	12	0.010	0.193	1.210	0.100	0.246	0.147	0.110	0.457	0.057
AOX	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										
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	0.910	28.568	240.000	9.300	39.630	9.300	4.170	81.933	18.867
Faecal Coliforms (44°C)	10 ³ CFU/100 ml										
Faecal Streptococci	10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index	4	2.6	2.7	2.8	2.7	2.8	2.8	2.6	2.7	2.7
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	/Sava	Catchment	29585 km ²	HR07
Distance from the mouth [km]	525.0	Altitude	89 m	
Location	us. Una Jasenovac L			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	11	214.0	575.5	1200.0	437.0	1030.0	766.0	478.0	332.3	800.5
Temperature	°C	11	4.0	12.6	24.0	12.0	22.0	5.3	16.7	21.3	4.5
Suspended Solids	mg/l	11	2	54	268	13	218	79	14	98	12
Dissolved Oxygen	mg/l	11	5.4	8.5	10.2	9.5	6.0	9.7	8.7	6.0	10.0
pH	-	11	7.3	7.9	8.4	8.0	8.2	7.3	8.3	8.1	7.7
Conductivity @ 20°C	µS/cm	11	350	439	522	446	485	449	459	399	454
Alkalinity	mmol/l										
Ammonium-N (NH ₄ ⁺ -N)	mg/l	11	0.08	0.32	0.71	0.17	0.66	0.65	0.13	0.17	0.34
Nitrite-N (NO ₂ ⁻ -N)	mg/l	11	0.003	0.037	0.071	0.035	0.070	0.024	0.047	0.055	0.017
Nitrate-N (NO ₃ ⁻ -N)	mg/l	11	0.70	1.19	1.60	1.20	1.60	1.37	1.20	1.33	0.71
Organic Nitrogen	mg/l	11	0.28	0.78	3.22	0.49	1.61	0.30	0.47	1.40	1.06
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	11	0.046	0.136	0.303	0.124	0.153	0.132	0.192	0.096	0.121
Total Phosphorus	mg/l	11	0.10	0.24	0.52	0.21	0.39	0.18	0.27	0.29	0.19
Sodium (Na ⁺)	mg/l										
Potassium (K ⁺)	mg/l										
Calcium (Ca ²⁺)	mg/l	11	27.1	47.7	81.2	52.1	70.1	30.8	38.8	54.8	75.7
Magnesium (Mg ²⁺)	mg/l	11	4.3	9.7	21.9	7.9	15.2	6.5	9.7	14.8	6.7
Chloride (Cl ⁻)	mg/l	11	5	8	12	7	12	9	10	6	7
Sulphate (SO ₄ ²⁻)	mg/l	11	14	21	37	20	29	26	23	18	16
Iron (Fe)	mg/l	11	0.300	0.959	5.430	0.440	0.900	0.620	0.620	2.020	0.385
Manganese (Mn)	mg/l	11	0.001	0.069	0.300	0.040	0.090	0.037	0.023	0.143	0.075
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										
BOD ₅	mg/l	9	0.2	1.7	3.2	1.4	3.1	2.9	1.6	1.3	1.3
COD _{Cr}	mg/l										
COD _{Mn}	mg/l	11	2.8	4.7	10.9	3.9	6.0	4.1	4.2	6.1	4.1
DOC	mg/l										
Phenol index	mg/l	11	0.001	0.003	0.006	0.003	0.005	0.002	0.002	0.005	0.005
Anionic active surfactants	mg/l	11	0.040	0.088	0.190	0.070	0.135	0.088	0.122	0.080	0.050
Petroleum hydrocarbons	mg/l	11	0.010	0.026	0.100	0.010	0.100	0.070	0.010	0.010	0.010
AOX	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										
Total Coliforms (37°C)	10 ³ CFU/100 ml	11	0.880	12.353	24.000	3.800	24.000	9.967	2.060	17.267	24.000
Faecal Coliforms (44°C)	10 ³ CFU/100 ml										
Faecal Streptococci	10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index	3	2.4	2.6	2.8	2.6	2.8	2.8		2.4	2.6
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	/Sava	Catchment	62890 km ²	HR08
Distance from the mouth [km]	254.0	Altitude	79 m	
Location	ds. Zupanja R			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	243.0	1042.6	2300.0	911.5	1627.0	1021.0	814.0	545.3	1790.0
Temperature	°C	12	3.0	12.8	26.0	12.8	20.9	5.7	16.2	21.3	8.0
Suspended Solids	mg/l	12	13	33	73	25	62	30	21	23	59
Dissolved Oxygen	mg/l	12	4.6	8.5	11.2	8.7	5.5	10.6	8.0	5.5	9.6
pH	-	12	7.6	7.9	8.2	7.9	8.0	7.8	7.9	8.0	7.8
Conductivity @ 20°C	µS/cm	12	294	375	509	371	437	420	367	372	342
Alkalinity	mmol/l										
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.06	0.18	0.34	0.15	0.34	0.21	0.19	0.18	0.12
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.007	0.023	0.070	0.020	0.042	0.019	0.026	0.032	0.017
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.18	1.98	3.58	1.95	2.46	1.25	2.05	2.62	2.00
Organic Nitrogen	mg/l	12	0.63	2.06	6.33	1.21	3.88	4.10	1.59	1.86	0.69
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.029	0.133	0.359	0.121	0.235	0.071	0.080	0.240	0.140
Total Phosphorus	mg/l										
Sodium (Na ⁺)	mg/l										
Potassium (K ⁺)	mg/l										
Calcium (Ca ²⁺)	mg/l	12	36.0	53.8	65.0	55.0	62.0	57.0	54.3	52.0	52.0
Magnesium (Mg ²⁺)	mg/l	12	9.7	18.9	27.2	20.0	23.5	17.6	20.2	20.0	17.7
Chloride (Cl ⁻)	mg/l	12	7	16	39	13	26	22	14	19	9
Sulphate (SO ₄ ²⁻)	mg/l	12	26	37	68	35	42	38	34	45	33
Iron (Fe)	mg/l	12	0.070	0.693	1.550	0.640	1.192	0.773	0.423	0.420	1.153
Manganese (Mn)	mg/l	12	0.080	0.167	0.330	0.160	0.250	0.120	0.080	0.247	0.220
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										
BOD ₅	mg/l	12	1.6	2.7	4.5	2.8	3.4	2.9	2.1	2.1	3.4
COD _{Cr}	mg/l	12	12.0	17.2	24.0	17.0	21.9	19.3	14.7	15.3	19.3
COD _{Mn}	mg/l	12	2.4	4.5	5.6	4.5	5.6	4.4	3.8	4.5	5.2
DOC	mg/l										
Phenol index	mg/l	12	0.002	0.005	0.010	0.005	0.007	0.003	0.006	0.007	0.004
Anionic active surfactants	mg/l	12	0.040	0.068	0.180	0.060	0.080	0.087	0.067	0.067	0.053
Petroleum hydrocarbons	mg/l	3	0.041	0.061	0.087	0.056	0.081				0.061
AOX	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										
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	3.900	18.025	110.000	4.300	42.600	4.300	5.967	53.300	8.533
Faecal Coliforms (44°C)	10 ³ CFU/100 ml										
Faecal Streptococci	10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index	3	2.7	2.8	2.9	2.8	2.9	2.7		2.8	2.9
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	570896 km ²	RO01
Distance from the mouth [km]	1071.0	Altitude	58 m	
Location	Bazias L			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	11	3195.0	5293.5	8300.0	5500.0	6593.0	4386.7	5351.0	4322.5	6790.0
Temperature	°C	12	1.9	12.4	26.0	11.4	21.6	5.2	14.4	21.9	8.2
Suspended Solids	mg/l	11	28	57	85	60	67	74	55	48	57
Dissolved Oxygen	mg/l	12	5.4	9.3	11.9	9.6	6.6	11.5	8.2	7.0	10.4
pH	-	11	7.5	7.8	8.1	7.8	8.0	8.1	7.7	7.8	7.8
Conductivity @ 20°C	µS/cm	11	327	352	389	349	372	366	336	366	345
Alkalinity	mmol/l	11	2.3	2.9	3.4	3.0	3.2	3.2	2.8	2.6	3.1
Ammonium-N (NH ₄ ⁺ -N)	mg/l	11	0.24	0.46	0.76	0.41	0.62	0.38	0.44	0.43	0.56
Nitrite-N (NO ₂ ⁻ -N)	mg/l	11	0.020	0.036	0.060	0.030	0.050	0.030	0.033	0.043	0.037
Nitrate-N (NO ₃ ⁻ -N)	mg/l	11	0.74	1.44	2.36	1.39	2.09	2.23	1.44	0.87	1.50
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	11	0.030	0.060	0.090	0.060	0.080	0.035	0.057	0.063	0.077
Total Phosphorus	mg/l	11	0.07	0.10	0.13	0.10	0.12	0.11	0.09	0.09	0.11
Sodium (Na ⁺)	mg/l	11	11.0	15.4	18.1	16.1	17.5	17.0	15.0	13.1	16.9
Potassium (K ⁺)	mg/l	11	2.1	2.7	3.7	2.5	3.5	3.0	2.4	2.7	2.7
Calcium (Ca ²⁺)	mg/l	11	48.7	55.2	62.7	53.7	60.9	61.0	54.1	51.5	56.2
Magnesium (Mg ²⁺)	mg/l	11	8.7	12.4	19.4	11.6	14.5	14.1	13.8	11.9	10.3
Chloride (Cl ⁻)	mg/l	11	16	21	28	21	24	22	21	24	19
Sulphate (SO ₄ ²⁻)	mg/l	11	30	43	61	42	53	44	49	41	40
Iron (Fe)	mg/l	11	0.220	0.521	1.130	0.400	0.820	0.815	0.320	0.630	0.417
Manganese (Mn)	mg/l	11	0.003	0.047	0.104	0.044	0.085	0.058	0.045	0.045	0.042
Zinc (Zn)	µg/l	11	4.0	55.8	268.0	21.0	122.0	71.5	25.3	95.0	36.7
Copper (Cu)	µg/l	11	2.0	22.1	64.0	11.0	46.8	39.2	14.2	25.0	15.7
Chromium (Cr) - total	µg/l	11	1.0	11.6	34.0	14.0	18.5	17.8	5.4	14.7	10.7
Lead (Pb)	µg/l	11	12.0	37.3	181.1	17.5	82.0	100.6	16.5	39.7	13.7
Cadmium (Cd)	µg/l	11	0.12	1.09	4.10	0.93	1.45	0.79	2.13	0.50	0.84
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l										
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	11	3.1	4.6	6.6	4.4	6.1	5.3	5.6	4.4	3.4
COD _{Cr}	mg/l	11	9.7	12.3	19.3	11.2	15.2	11.6	12.3	14.3	10.6
COD _{Mn}	mg/l	11	3.9	6.0	8.4	5.7	7.9	7.2	7.1	5.6	4.5
DOC	mg/l										
Phenol index	mg/l	11	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Anionic active surfactants	mg/l	11	0.040	0.055	0.080	0.050	0.060	0.045	0.063	0.060	0.050
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	5	0.010	0.040	0.126	0.020	0.085	0.022	0.052		
pp'DDT	µg/l	4	0.020	0.070	0.186						
Atrazine	µg/l	5	0.020	0.041	0.060	0.040	0.057	0.026	0.051		
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	10 ³ CFU/100 ml	11	0.100	3.114	16.000	1.100	9.200	0.335	0.627	1.000	9.567
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	10	0.010	0.174	1.400	0.039	0.223	0.016	0.065	0.024	0.723
Faecal Streptococci	10 ³ CFU/100 ml	7	0.004	0.007	0.011	0.008	0.009	0.011	0.008	0.007	0.004
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	570896 km ²	RO01
Distance from the mouth [km]	1071.0	Altitude	58 m	
Location	Bazias M			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	3195.0	5119.0	8300.0	5475.0	6585.7	4386.7	5351.0	3948.3	6790.0
Temperature	°C	12	2.0	12.2	26.0	11.3	21.5	4.8	13.9	22.0	8.2
Suspended Solids	mg/l	12	31	53	75	55	64	62	50	45	54
Dissolved Oxygen	mg/l	12	5.0	9.2	11.8	9.6	6.8	11.6	8.3	6.5	10.4
pH	-	12	7.3	7.8	8.1	7.8	8.1	7.7	7.8	7.8	7.8
Conductivity @ 20°C	µS/cm	12	323	346	370	343	359	352	342	346	342
Alkalinity	mmol/l	12	2.3	2.9	3.4	2.9	3.2	3.1	2.8	2.6	3.1
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.19	0.33	0.53	0.30	0.51	0.26	0.29	0.42	0.36
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.075	0.520	0.030	0.069	0.030	0.020	0.207	0.043
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.85	1.39	2.20	1.16	2.08	2.10	1.36	0.98	1.10
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.030	0.061	0.110	0.060	0.079	0.040	0.053	0.067	0.083
Total Phosphorus	mg/l	12	0.06	0.11	0.15	0.11	0.14	0.13	0.09	0.10	0.12
Sodium (Na ⁺)	mg/l	12	10.5	15.3	18.6	15.8	17.2	15.6	15.3	12.9	17.4
Potassium (K ⁺)	mg/l	12	2.1	2.8	4.2	2.5	3.6	2.9	2.5	2.8	2.8
Calcium (Ca ²⁺)	mg/l	12	48.7	55.4	62.7	54.0	61.2	58.4	56.1	50.3	56.9
Magnesium (Mg ²⁺)	mg/l	12	8.7	15.5	50.2	12.6	18.9	13.7	13.1	24.1	11.0
Chloride (Cl ⁻)	mg/l	12	16	21	27	22	24	22	21	24	19
Sulphate (SO ₄ ²⁻)	mg/l	12	29	40	58	40	47	41	47	34	39
Iron (Fe)	mg/l	12	0.280	0.688	1.500	0.630	1.070	1.187	0.483	0.730	0.353
Manganese (Mn)	mg/l	12	0.021	0.075	0.157	0.068	0.122	0.075	0.063	0.079	0.082
Zinc (Zn)	µg/l	12	3.0	66.8	217.0	49.0	127.2	78.3	36.3	52.3	100.3
Copper (Cu)	µg/l	12	2.0	21.0	53.8	22.3	33.4	26.7	21.3	17.7	18.3
Chromium (Cr) - total	µg/l	12	1.0	12.8	45.1	11.0	20.9	19.6	16.0	6.3	9.3
Lead (Pb)	µg/l	12	11.0	38.8	123.8	24.5	75.5	75.3	26.6	38.3	15.0
Cadmium (Cd)	µg/l	12	0.29	1.98	7.00	1.87	2.87	1.12	2.21	3.87	0.73
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l										
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	2.9	4.4	6.3	4.4	5.8	5.1	4.9	4.3	3.3
COD _{Cr}	mg/l	12	7.6	10.8	13.4	10.8	13.1	11.2	11.1	12.1	8.9
COD _{Mn}	mg/l	12	3.7	5.3	7.5	5.4	6.6	6.7	6.0	4.5	4.1
DOC	mg/l										
Phenol index	mg/l	12	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Anionic active surfactants	mg/l	12	0.040	0.058	0.090	0.060	0.060	0.047	0.070	0.060	0.057
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	6	0.016	0.065	0.143	0.044	0.134		0.077	0.052	
pp'DDT	µg/l	5	0.018	0.208	0.885	0.038	0.563		0.314	0.049	
Atrazine	µg/l	6	0.020	0.034	0.050	0.037	0.046		0.025	0.043	
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	10 ³ CFU/100 ml	11	0.046	2.339	9.200	0.920	8.500	0.335	0.995	6.400	0.957
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	10	0.012	0.105	0.240	0.100	0.186	0.145	0.072	0.160	0.031
Faecal Streptococci	10 ³ CFU/100 ml	5	0.005	0.015	0.049	0.005	0.033	0.027	0.008	0.005	
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	570896 km ²	RO01
Distance from the mouth [km]	1071.0	Altitude	58 m	
Location	Bazias R			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	11	3195.0	5293.5	8300.0	5500.0	6593.0	4386.7	5351.0	4322.5	6790.0
Temperature	°C	12	2.0	12.6	26.0	11.3	22.0	5.1	15.1	22.0	8.2
Suspended Solids	mg/l	12	33	55	80	59	65	67	52	46	55
Dissolved Oxygen	mg/l	12	5.2	9.1	11.6	9.5	6.5	11.4	8.0	6.5	10.3
pH	-	12	7.2	7.7	8.2	7.8	8.1	7.6	7.8	7.8	7.8
Conductivity @ 20°C	µS/cm	12	328	351	363	354	360	352	345	352	356
Alkalinity	mmol/l	12	2.3	2.9	3.5	3.0	3.2	3.2	2.9	2.5	3.1
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.24	0.39	0.64	0.32	0.60	0.32	0.41	0.35	0.47
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.062	0.310	0.040	0.070	0.033	0.027	0.137	0.050
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.67	1.31	2.31	1.17	2.17	2.19	1.17	0.78	1.11
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.030	0.063	0.100	0.065	0.089	0.037	0.060	0.070	0.087
Total Phosphorus	mg/l	12	0.07	0.11	0.14	0.11	0.12	0.11	0.10	0.10	0.12
Sodium (Na ⁺)	mg/l	12	10.8	15.4	18.8	16.0	17.4	15.5	15.5	13.1	17.4
Potassium (K ⁺)	mg/l	12	2.2	2.7	3.8	2.7	3.5	2.9	2.6	2.7	2.8
Calcium (Ca ²⁺)	mg/l	12	50.5	56.4	62.7	55.6	62.6	60.1	55.6	53.0	56.9
Magnesium (Mg ²⁺)	mg/l	12	3.7	14.9	55.4	11.2	19.0	12.9	10.4	25.5	10.7
Chloride (Cl ⁻)	mg/l	12	15	22	27	22	25	21	21	25	19
Sulphate (SO ₄ ²⁻)	mg/l	12	34	43	59	40	56	42	46	42	44
Iron (Fe)	mg/l	12	0.320	0.573	0.800	0.580	0.787	0.697	0.457	0.713	0.427
Manganese (Mn)	mg/l	12	0.006	0.058	0.131	0.065	0.098	0.040	0.056	0.057	0.079
Zinc (Zn)	µg/l	12	3.0	68.4	244.0	47.5	155.8	62.7	33.7	64.7	112.7
Copper (Cu)	µg/l	12	2.0	20.6	71.3	18.7	36.4	17.7	26.4	16.0	22.3
Chromium (Cr) - total	µg/l	12	1.0	8.6	17.8	8.8	17.3	14.9	3.4	7.0	9.0
Lead (Pb)	µg/l	12	13.0	27.7	79.3	19.0	44.9	47.4	23.5	24.0	16.0
Cadmium (Cd)	µg/l	12	0.11	1.20	3.00	1.14	2.56	0.41	1.21	2.42	0.75
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l										
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	3.0	4.6	6.9	4.4	6.1	4.9	5.6	4.3	3.3
COD _{Cr}	mg/l	12	8.1	12.1	19.2	11.5	14.7	11.4	13.0	13.6	10.4
COD _{Mn}	mg/l	12	3.5	6.0	8.8	6.4	8.2	6.8	8.0	4.9	4.4
DOC	mg/l										
Phenol index	mg/l	12	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Anionic active surfactants	mg/l	12	0.040	0.054	0.090	0.050	0.060	0.050	0.067	0.053	0.047
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	6	0.010	0.037	0.126	0.023	0.078	0.025	0.050		
pp'DDT	µg/l	5	0.013	0.054	0.102	0.048	0.094	0.057	0.048		
Atrazine	µg/l	6	0.020	0.043	0.071	0.037	0.068	0.027	0.059		
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	10 ³ CFU/100 ml	10	0.140	4.480	16.000	1.200	14.200	0.140	3.207	10.233	1.447
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	9	0.006	0.124	0.390	0.040	0.350	0.014	0.079	0.257	0.049
Faecal Streptococci	10 ³ CFU/100 ml	4	0.006	0.035	0.092						
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	580100 km ²	RO02
Distance from the mouth [km]	834.0	Altitude	31 m	
Location	Pristol/Novo Selo Harbour L			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	11	2822.0	5493.5	9037.0	5800.0	7260.0	4588.0	5406.7	4066.0	7437.7
Temperature	°C	12	1.0	12.5	26.5	10.7	21.7	5.2	15.0	22.4	7.4
Suspended Solids	mg/l	12	39	54	77	53	67	70	57	46	43
Dissolved Oxygen	mg/l	12	5.1	8.7	12.4	8.7	6.2	11.1	7.9	6.0	9.7
pH	-	12	7.3	7.8	8.0	7.8	7.9	7.6	7.9	7.8	7.8
Conductivity @ 20°C	µS/cm	12	330	359	408	354	392	365	347	351	373
Alkalinity	mmol/l	12	2.3	3.0	3.4	3.1	3.4	3.2	3.0	2.6	3.2
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.18	0.29	0.49	0.28	0.35	0.34	0.30	0.21	0.31
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.020	0.035	0.050	0.035	0.040	0.033	0.037	0.033	0.037
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.90	1.53	2.25	1.58	1.90	1.78	1.48	1.00	1.83
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.020	0.063	0.110	0.070	0.098	0.027	0.063	0.067	0.093
Total Phosphorus	mg/l	12	0.07	0.10	0.14	0.10	0.13	0.09	0.10	0.10	0.13
Sodium (Na ⁺)	mg/l	12	13.9	16.3	20.0	15.8	19.0	17.7	16.0	14.6	16.8
Potassium (K ⁺)	mg/l	12	2.3	2.8	3.6	2.8	3.5	3.1	2.6	2.7	2.8
Calcium (Ca ²⁺)	mg/l	12	45.0	55.8	62.7	55.7	61.0	57.4	57.5	49.0	59.2
Magnesium (Mg ²⁺)	mg/l	12	9.7	14.0	19.4	13.6	17.4	16.8	14.2	11.6	13.2
Chloride (Cl ⁻)	mg/l	12	18	21	26	21	25	22	21	23	19
Sulphate (SO ₄ ²⁻)	mg/l	12	34	46	60	45	56	50	46	40	48
Iron (Fe)	mg/l	12	0.100	0.384	0.570	0.395	0.538	0.523	0.330	0.333	0.350
Manganese (Mn)	mg/l	12	0.026	0.062	0.124	0.058	0.101	0.075	0.042	0.072	0.060
Zinc (Zn)	µg/l	12	7.0	47.0	90.0	40.5	85.9	55.3	36.3	37.3	59.0
Copper (Cu)	µg/l	12	1.0	17.2	32.9	13.2	31.7	24.9	13.0	13.7	17.3
Chromium (Cr) - total	µg/l	12	1.0	8.3	18.5	9.8	15.5	15.1	3.9	8.7	5.7
Lead (Pb)	µg/l	12	5.0	22.0	37.0	22.0	33.8	25.2	12.2	31.7	19.0
Cadmium (Cd)	µg/l	12	0.10	1.48	5.00	1.11	3.49	0.73	1.09	2.99	1.10
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l										
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	2.4	4.5	7.4	4.7	6.6	5.1	6.4	4.0	2.7
COD _{Cr}	mg/l	12	8.5	11.9	15.9	11.2	15.5	10.4	14.5	12.7	9.8
COD _{Mn}	mg/l	12	3.2	6.0	9.1	6.4	8.8	6.9	8.7	4.8	3.7
DOC	mg/l										
Phenol index	mg/l	12	0.005	0.005	0.006	0.005	0.005	0.005	0.005	0.005	0.005
Anionic active surfactants	mg/l	12	0.040	0.053	0.090	0.050	0.060	0.043	0.067	0.057	0.043
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	6	0.016	0.077	0.242	0.030	0.182	0.097	0.057		
pp'DDT	µg/l	4	0.022	0.136	0.295						
Atrazine	µg/l	6	0.020	0.036	0.051	0.036	0.046	0.028	0.043		
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	10 ³ CFU/100 ml	11	0.033	2.699	16.000	0.350	9.200	0.280	3.094	0.533	6.083
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	10	0.008	0.123	0.460	0.028	0.451	0.046	0.234	0.061	0.161
Faecal Streptococci	10 ³ CFU/100 ml	6	0.002	0.026	0.130	0.005	0.069	0.005	0.067	0.005	
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	580100 km ²	RO02
Distance from the mouth [km]	834.0	Altitude	31 m	
Location	Pristol/Novo Selo Harbour M			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	11	2822.0	5297.2	9037.0	5800.0	7260.0	4588.0	5406.7	2986.0	7437.7
Temperature	°C	12	1.1	12.3	26.5	10.7	21.3	5.0	14.3	22.4	7.5
Suspended Solids	mg/l	12	30	49	75	47	68	69	52	37	38
Dissolved Oxygen	mg/l	12	5.4	8.8	12.4	8.6	6.5	11.2	8.2	6.1	9.7
pH	-	12	7.5	7.7	8.0	7.7	7.9	7.7	7.8	7.7	7.7
Conductivity @ 20°C	µS/cm	12	335	360	401	359	377	361	344	358	376
Alkalinity	mmol/l	12	2.3	3.0	3.4	3.0	3.3	3.1	2.9	2.6	3.2
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.18	0.34	0.64	0.26	0.63	0.35	0.37	0.28	0.37
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.020	0.034	0.050	0.030	0.040	0.033	0.033	0.037	0.033
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.85	1.37	2.22	1.26	1.80	1.94	1.14	0.93	1.45
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.020	0.051	0.100	0.050	0.069	0.027	0.043	0.063	0.070
Total Phosphorus	mg/l	12	0.06	0.09	0.14	0.10	0.13	0.09	0.08	0.10	0.10
Sodium (Na ⁺)	mg/l	12	13.1	16.2	20.5	15.6	19.4	18.1	15.4	14.6	16.7
Potassium (K ⁺)	mg/l	12	2.3	2.9	4.2	2.8	3.6	3.2	2.6	3.0	2.7
Calcium (Ca ²⁺)	mg/l	12	46.7	55.5	62.7	56.6	59.2	57.4	58.3	50.1	56.3
Magnesium (Mg ²⁺)	mg/l	12	10.7	14.9	19.4	14.6	18.4	17.8	15.6	11.9	14.2
Chloride (Cl ⁻)	mg/l	12	17	22	26	21	25	23	21	24	20
Sulphate (SO ₄ ²⁻)	mg/l	12	34	45	60	43	53	48	48	40	43
Iron (Fe)	mg/l	12	0.190	0.388	0.790	0.365	0.460	0.560	0.253	0.380	0.360
Manganese (Mn)	mg/l	12	0.020	0.042	0.089	0.033	0.076	0.052	0.034	0.040	0.040
Zinc (Zn)	µg/l	12	16.0	38.3	97.0	26.0	80.6	28.7	19.0	30.7	74.7
Copper (Cu)	µg/l	12	1.0	20.5	71.8	12.3	37.1	22.7	28.3	19.3	11.7
Chromium (Cr) - total	µg/l	12	1.0	8.1	19.6	6.5	17.2	17.1	3.0	3.0	9.3
Lead (Pb)	µg/l	12	8.0	23.7	82.4	19.5	35.5	41.8	14.2	26.3	12.3
Cadmium (Cd)	µg/l	12	0.28	0.99	1.88	0.84	1.62	1.04	1.13	0.84	0.94
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l										
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	2.2	4.2	7.0	4.3	6.3	5.0	5.9	3.6	2.5
COD _{Cr}	mg/l	12	8.2	11.0	14.4	11.0	13.1	11.0	11.8	12.3	8.9
COD _{Mn}	mg/l	12	3.3	5.5	8.1	5.4	8.1	6.7	7.3	4.3	3.5
DOC	mg/l										
Phenol index	mg/l	12	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Anionic active surfactants	mg/l	12	0.013	0.054	0.080	0.060	0.069	0.041	0.063	0.057	0.057
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	6	0.010	0.064	0.120	0.060	0.111	0.069	0.058		
pp'DDT	µg/l	4	0.025	0.258	0.775						
Atrazine	µg/l	6	0.020	0.029	0.040	0.030	0.038	0.023	0.035		
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	0.031	2.871	16.000	0.615	5.400	1.940	0.160	3.507	5.877
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	11	0.005	0.114	0.700	0.023	0.220	0.245	0.006	0.129	0.040
Faecal Streptococci	10 ³ CFU/100 ml	5	0.003	0.011	0.033	0.006	0.024	0.017	0.004	0.003	
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	580100 km ²	RO02
Distance from the mouth [km]	834.0	Altitude	31 m	
Location	Pristol/Novo Selo Harbour R			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	10	2822.0	5511.9	9037.0	5908.0	7437.7	4588.0	5406.7	2822.0	7437.7
Temperature	°C	12	1.1	12.6	26.5	11.0	21.8	5.3	14.9	22.6	7.7
Suspended Solids	mg/l	12	32	52	76	50	69	71	56	43	39
Dissolved Oxygen	mg/l	12	4.8	8.6	12.2	8.4	6.1	10.9	7.8	5.9	9.7
pH	-	12	7.5	7.8	8.1	7.8	8.0	7.8	7.8	7.7	7.9
Conductivity @ 20°C	µS/cm	12	328	369	420	364	399	371	347	369	388
Alkalinity	mmol/l	12	2.4	3.0	3.5	3.0	3.4	3.2	2.8	2.7	3.3
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.18	0.38	0.74	0.33	0.65	0.41	0.37	0.36	0.36
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.020	0.035	0.060	0.030	0.049	0.027	0.047	0.037	0.030
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.88	1.42	2.31	1.38	1.91	2.03	1.24	0.93	1.49
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.020	0.058	0.120	0.060	0.079	0.030	0.053	0.067	0.083
Total Phosphorus	mg/l	12	0.07	0.11	0.17	0.10	0.15	0.09	0.09	0.12	0.13
Sodium (Na ⁺)	mg/l	12	13.3	16.5	20.6	15.8	19.1	17.9	15.8	15.0	17.3
Potassium (K ⁺)	mg/l	12	2.3	2.9	4.1	2.9	3.6	3.2	2.6	2.9	2.8
Calcium (Ca ²⁺)	mg/l	12	38.0	56.7	69.7	58.2	61.0	57.8	63.2	47.9	58.0
Magnesium (Mg ²⁺)	mg/l	12	8.7	14.0	17.5	14.9	17.3	16.5	14.5	11.9	12.9
Chloride (Cl ⁻)	mg/l	12	17	22	26	21	25	22	22	25	19
Sulphate (SO ₄ ²⁻)	mg/l	12	39	47	64	44	59	50	48	44	46
Iron (Fe)	mg/l	12	0.130	0.410	0.820	0.385	0.577	0.593	0.337	0.407	0.303
Manganese (Mn)	mg/l	12	0.020	0.086	0.341	0.038	0.269	0.148	0.035	0.115	0.048
Zinc (Zn)	µg/l	12	7.0	47.8	133.0	38.0	85.7	75.0	19.0	30.7	66.3
Copper (Cu)	µg/l	12	1.0	18.9	43.0	18.4	30.3	27.6	12.9	15.7	19.3
Chromium (Cr) - total	µg/l	12	1.0	11.3	36.0	9.8	18.0	15.4	3.6	9.7	16.7
Lead (Pb)	µg/l	12	7.5	29.4	79.8	22.8	61.3	41.8	10.8	46.0	19.0
Cadmium (Cd)	µg/l	12	0.10	1.88	8.00	1.38	2.99	1.65	1.46	3.38	1.02
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l										
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	2.4	4.5	7.3	4.3	6.2	5.0	5.9	4.2	2.9
COD _{Cr}	mg/l	12	9.0	11.8	15.6	11.3	14.6	11.0	12.9	13.3	10.2
COD _{Mn}	mg/l	12	3.4	5.9	9.1	5.6	8.4	6.8	7.8	4.9	3.9
DOC	mg/l										
Phenol index	mg/l	12	0.005	0.005	0.005						
Anionic active surfactants	mg/l	12	0.040	0.053	0.090	0.050	0.069	0.047	0.070	0.050	0.043
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	6	0.012	0.071	0.179	0.048	0.147	0.088	0.053		
pp'DDT	µg/l	5	0.016	0.140	0.464	0.095	0.316	0.073	0.240		
Atrazine	µg/l	6	0.020	0.034	0.046	0.034	0.043	0.032	0.036		
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	10 ³ CFU/100 ml	11	0.014	2.089	16.000	0.070	5.400	0.063	0.192	0.113	7.313
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	11	0.004	0.028	0.110	0.014	0.070	0.027	0.027	0.012	0.043
Faecal Streptococci	10 ³ CFU/100 ml	4	0.002	0.006	0.011						
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	676150 km ²	RO03
Distance from the mouth [km]	432.0	Altitude	16 m	
Location	us.Arges L			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	11	2940.0	5864.3	8104.0	6095.0	7308.0	5051.0	6365.7	4375.0	7169.0
Temperature	°C	12	1.5	14.4	26.0	15.0	25.0	5.9	19.0	24.0	8.8
Suspended Solids	mg/l	12	33	63	105	60	85	62	57	59	75
Dissolved Oxygen	mg/l	12	5.0	8.7	11.3	8.6	6.3	10.8	7.8	6.8	9.5
pH	-	12	7.7	7.8	8.1	7.8	7.9	7.8	7.9	7.8	7.8
Conductivity @ 20°C	µS/cm	12	358	392	437	394	421	409	380	400	380
Alkalinity	mmol/l	12	2.1	2.8	3.2	2.9	3.1	2.9	2.7	2.6	2.9
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.09	0.26	0.54	0.24	0.48	0.33	0.22	0.31	0.20
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.018	0.050	0.015	0.029	0.013	0.013	0.027	0.020
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.66	1.82	2.60	2.15	2.58	2.20	1.75	1.22	2.11
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.060	0.082	0.110	0.080	0.100	0.073	0.070	0.090	0.093
Total Phosphorus	mg/l	12	0.09	0.12	0.18	0.11	0.15	0.10	0.10	0.14	0.14
Sodium (Na ⁺)	mg/l	12	12.5	18.9	23.6	18.0	23.5	20.9	19.1	15.7	20.0
Potassium (K ⁺)	mg/l	12	2.2	3.2	5.7	3.0	3.8	3.4	3.0	3.5	3.0
Calcium (Ca ²⁺)	mg/l	12	48.0	61.4	67.2	64.0	67.0	66.1	61.5	56.0	62.0
Magnesium (Mg ²⁺)	mg/l	12	12.0	17.0	22.0	17.0	20.8	19.0	17.3	13.0	18.5
Chloride (Cl ⁻)	mg/l	12	21	31	39	31	39	35	32	26	31
Sulphate (SO ₄ ²⁻)	mg/l	12	38	65	97	67	87	86	61	56	57
Iron (Fe)	mg/l	12	0.320	0.722	1.340	0.620	1.153	0.977	0.667	0.807	0.437
Manganese (Mn)	mg/l	12	0.026	0.054	0.118	0.045	0.088	0.075	0.031	0.052	0.057
Zinc (Zn)	µg/l	12	6.0	41.2	82.0	37.0	67.9	51.3	27.7	35.3	50.3
Copper (Cu)	µg/l	12	2.0	22.8	80.9	18.8	37.8	43.6	20.9	13.0	13.7
Chromium (Cr) - total	µg/l	12	1.0	11.8	23.8	12.1	21.9	20.6	6.8	8.0	12.0
Lead (Pb)	µg/l	12	3.0	23.9	104.4	17.2	30.9	50.4	13.7	13.7	17.7
Cadmium (Cd)	µg/l	12	0.12	1.06	3.00	0.91	2.12	1.12	0.97	1.37	0.77
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l										
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	2.8	3.7	4.5	3.5	4.4	3.5	3.5	3.8	4.0
COD _{Cr}	mg/l	12	7.0	10.8	15.4	9.5	15.1	10.7	10.9	10.5	11.1
COD _{Mn}	mg/l	12	3.2	4.9	6.8	4.7	6.1	4.9	4.6	4.6	5.4
DOC	mg/l										
Phenol index	mg/l	12	0.005	0.005	0.007	0.005	0.006	0.005	0.006	0.005	0.006
Anionic active surfactants	mg/l	12	0.040	0.063	0.110	0.055	0.089	0.053	0.083	0.053	0.063
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	6	0.012	0.067	0.202	0.030	0.159	0.082	0.053		
pp'DDT	µg/l	5	0.010	0.196	0.516	0.031	0.472	0.186	0.212		
Atrazine	µg/l	6	0.024	0.056	0.102	0.056	0.084	0.040	0.071		
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	10 ³ CFU/100 ml	11	0.008	1.712	9.200	0.850	3.500	2.007	3.353	0.380	0.809
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	9	0.006	0.087	0.240	0.048	0.216	0.044	0.125	0.143	0.006
Faecal Streptococci	10 ³ CFU/100 ml	5	0.004	0.024	0.092	0.008	0.059	0.092	0.008	0.004	
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	676150 km ²	RO03
Distance from the mouth [km]	432.0	Altitude	16 m	
Location	us.Arges M			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	2940.0	5658.9	8104.0	5967.5	7278.4	5051.0	6365.7	4050.0	7169.0
Temperature	°C	12	1.5	14.2	26.0	14.9	25.0	5.6	18.9	23.7	8.6
Suspended Solids	mg/l	12	26	57	93	53	77	60	49	52	65
Dissolved Oxygen	mg/l	12	5.4	8.8	11.2	8.9	6.5	10.7	7.9	7.0	9.7
pH	-	12	7.7	7.8	8.1	7.8	7.9	7.9	7.9	7.7	7.8
Conductivity @ 20°C	µS/cm	12	350	387	448	384	416	401	365	403	376
Alkalinity	mmol/l	12	2.1	2.7	3.3	2.9	2.9	2.8	2.6	2.5	2.9
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.07	0.25	0.41	0.23	0.36	0.28	0.22	0.28	0.22
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.019	0.060	0.015	0.029	0.013	0.013	0.027	0.023
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.55	1.66	2.30	1.93	2.20	2.05	1.58	1.09	1.91
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.050	0.078	0.110	0.080	0.090	0.077	0.070	0.077	0.090
Total Phosphorus	mg/l	12	0.09	0.12	0.19	0.11	0.13	0.11	0.10	0.11	0.14
Sodium (Na ⁺)	mg/l	12	14.4	18.1	22.2	17.7	21.9	19.3	18.2	15.7	19.3
Potassium (K ⁺)	mg/l	12	2.4	3.1	4.9	2.9	3.6	3.1	2.8	3.3	3.0
Calcium (Ca ²⁺)	mg/l	12	47.0	59.2	65.6	60.8	63.8	63.0	60.2	54.3	59.2
Magnesium (Mg ²⁺)	mg/l	12	12.0	16.0	19.5	16.7	18.4	17.5	15.5	13.7	17.2
Chloride (Cl ⁻)	mg/l	12	24	31	39	30	36	33	32	25	32
Sulphate (SO ₄ ²⁻)	mg/l	12	36	62	86	63	79	77	60	56	54
Iron (Fe)	mg/l	12	0.310	0.570	0.890	0.560	0.749	0.723	0.420	0.473	0.663
Manganese (Mn)	mg/l	12	0.010	0.046	0.086	0.045	0.084	0.067	0.023	0.042	0.051
Zinc (Zn)	µg/l	12	11.0	50.6	159.0	34.0	93.6	43.0	19.3	77.3	62.7
Copper (Cu)	µg/l	12	2.0	23.8	68.2	13.8	51.7	37.8	31.1	13.0	13.3
Chromium (Cr) - total	µg/l	12	1.0	10.6	17.6	13.1	16.5	15.0	9.2	5.3	13.0
Lead (Pb)	µg/l	12	8.0	23.2	48.5	20.5	37.8	33.1	18.3	24.7	16.7
Cadmium (Cd)	µg/l	12	0.33	1.18	4.00	0.88	2.20	0.59	0.70	2.14	1.30
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l										
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	2.6	3.4	4.6	3.3	4.1	3.8	3.3	3.0	3.4
COD _{Cr}	mg/l	12	7.0	10.2	14.4	9.9	13.4	11.0	9.7	9.2	10.8
COD _{Mn}	mg/l	12	3.2	4.4	6.0	4.3	5.4	4.8	4.3	3.7	4.9
DOC	mg/l										
Phenol index	mg/l	12	0.005	0.005	0.006	0.005	0.005	0.005	0.005	0.005	0.005
Anionic active surfactants	mg/l	12	0.040	0.057	0.100	0.050	0.069	0.053	0.070	0.050	0.053
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	6	0.010	0.037	0.118	0.018	0.080	0.017	0.057		
pp'DDT	µg/l	5	0.012	0.094	0.403	0.018	0.251	0.018	0.209		
Atrazine	µg/l	6	0.020	0.048	0.083	0.046	0.073	0.037	0.059		
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	10 ³ CFU/100 ml	10	0.022	0.325	1.700	0.170	0.656	0.390	0.631	0.121	0.110
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	7	0.004	0.046	0.130	0.034	0.094	0.038	0.032	0.130	0.020
Faecal Streptococci	10 ³ CFU/100 ml	4	0.010	0.019	0.026						
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	676150 km ²	RO03
Distance from the mouth [km]	432.0	Altitude	16 m	
Location	us.Arges R			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	11	2940.0	5864.3	8104.0	6095.0	7308.0	5051.0	6365.7	4375.0	7169.0
Temperature	°C	12	1.5	14.4	26.0	15.0	25.0	6.3	18.8	23.7	8.7
Suspended Solids	mg/l	12	29	61	99	62	91	62	51	56	75
Dissolved Oxygen	mg/l	12	5.2	8.8	11.3	8.8	6.4	10.7	7.9	6.9	9.7
pH	-	12	7.7	7.8	8.2	7.8	7.9	7.8	7.9	7.7	7.8
Conductivity @ 20°C	µS/cm	12	346	385	456	387	402	417	369	378	374
Alkalinity	mmol/l	12	2.2	2.8	3.3	3.0	3.1	2.9	2.7	2.7	3.0
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.07	0.26	0.43	0.25	0.38	0.31	0.21	0.26	0.25
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.021	0.070	0.015	0.030	0.013	0.013	0.030	0.027
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.64	1.83	2.80	1.99	2.59	2.29	1.82	1.11	2.11
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.040	0.083	0.110	0.085	0.109	0.077	0.080	0.083	0.093
Total Phosphorus	mg/l	12	0.09	0.13	0.17	0.13	0.17	0.10	0.12	0.14	0.14
Sodium (Na ⁺)	mg/l	12	14.6	18.8	23.6	18.8	22.4	20.2	19.5	15.7	19.7
Potassium (K ⁺)	mg/l	12	2.5	3.3	4.6	3.2	3.8	3.2	3.4	3.4	3.1
Calcium (Ca ²⁺)	mg/l	12	49.0	61.8	68.8	63.3	67.0	65.1	63.2	56.7	62.2
Magnesium (Mg ²⁺)	mg/l	12	12.0	17.9	27.0	18.8	19.5	18.9	17.7	14.5	20.3
Chloride (Cl ⁻)	mg/l	12	25	31	39	32	39	33	35	27	31
Sulphate (SO ₄ ²⁻)	mg/l	12	35	64	92	63	87	84	65	50	55
Iron (Fe)	mg/l	12	0.290	0.557	0.910	0.495	0.799	0.833	0.450	0.453	0.490
Manganese (Mn)	mg/l	12	0.009	0.058	0.130	0.049	0.105	0.095	0.026	0.049	0.061
Zinc (Zn)	µg/l	12	9.0	54.3	133.0	45.5	104.0	68.7	33.7	61.3	53.7
Copper (Cu)	µg/l	12	4.0	25.6	65.6	18.5	60.6	38.3	33.1	17.7	13.3
Chromium (Cr) - total	µg/l	12	1.0	13.9	34.0	13.1	22.7	15.4	10.3	15.7	14.3
Lead (Pb)	µg/l	12	9.4	31.5	112.5	22.0	43.5	49.8	17.1	34.0	25.0
Cadmium (Cd)	µg/l	12	0.10	1.47	5.00	1.23	2.88	2.12	1.21	1.52	1.01
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l										
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	3.0	3.6	4.5	3.7	4.0	3.7	3.7	3.3	3.7
COD _{Cr}	mg/l	12	7.4	11.0	14.8	11.1	13.9	11.8	10.5	9.8	11.7
COD _{Mn}	mg/l	12	3.6	4.7	6.4	4.6	5.7	5.2	4.7	4.0	4.9
DOC	mg/l										
Phenol index	mg/l	12	0.005	0.005	0.006	0.005	0.005	0.005	0.005	0.005	0.005
Anionic active surfactants	mg/l	12	0.040	0.061	0.100	0.060	0.079	0.053	0.073	0.050	0.067
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	6	0.010	0.037	0.121	0.021	0.080	0.018	0.056		
pp'DDT	µg/l	6	0.010	0.107	0.486	0.029	0.282	0.045	0.169		
Atrazine	µg/l	6	0.012	0.033	0.061	0.025	0.058	0.029	0.037		
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	10 ³ CFU/100 ml	9	0.026	1.592	9.200	0.540	3.200	1.100	3.230	0.975	0.305
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	7	0.002	0.052	0.200	0.013	0.122	0.054	0.135	0.012	0.002
Faecal Streptococci	10 ³ CFU/100 ml	6	0.005	0.014	0.045	0.007	0.029	0.009	0.021	0.005	
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	698600 km ²	RO04
Distance from the mouth [km]	375.0	Altitude	13 m	
Location	Chiciu/Silistra L			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	9	2884.0	6465.4	9685.0	6565.0	8657.0	6063.3	6202.5	2884.0	8236.7
Temperature	°C	12	3.6	12.8	25.0	13.7	24.8	4.4	17.5	21.2	8.3
Suspended Solids	mg/l	12	9	34	81	28	45	37	33	29	35
Dissolved Oxygen	mg/l	12	4.8	8.5	11.1	8.2	6.1	10.2	7.2	6.8	9.8
pH	-	12	7.8	8.0	8.3	8.0	8.2	8.0	8.2	7.9	7.9
Conductivity @ 20°C	µS/cm	12	370	426	508	414	501	488	394	419	402
Alkalinity	mmol/l	12	2.2	3.4	4.9	3.2	4.4	3.6	3.2	3.3	3.4
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.05	0.49	1.33	0.32	1.21	0.70	0.37	0.59	0.30
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.030	0.050	0.030	0.050	0.023	0.027	0.027	0.043
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.60	1.70	2.95	1.77	2.30	2.36	1.62	1.00	1.83
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.010	0.058	0.110	0.045	0.099	0.023	0.057	0.057	0.097
Total Phosphorus	mg/l	12	0.05	0.10	0.23	0.07	0.19	0.05	0.09	0.11	0.15
Sodium (Na ⁺)	mg/l	12	14.8	19.8	26.2	19.1	24.8	24.6	18.6	16.5	19.5
Potassium (K ⁺)	mg/l	12	2.4	3.5	5.2	3.6	4.4	3.7	3.2	3.4	3.6
Calcium (Ca ²⁺)	mg/l	12	46.9	56.1	76.7	55.1	64.3	66.9	53.9	47.5	56.2
Magnesium (Mg ²⁺)	mg/l	12	12.0	17.0	25.2	17.1	19.5	16.2	15.6	15.4	20.7
Chloride (Cl ⁻)	mg/l	12	26	36	51	33	49	45	37	27	34
Sulphate (SO ₄ ²⁻)	mg/l	12	30	45	58	46	54	45	42	42	50
Iron (Fe)	mg/l	12	0.250	0.790	2.320	0.685	1.244	1.190	0.763	0.733	0.473
Manganese (Mn)	mg/l	12	0.021	0.066	0.258	0.051	0.097	0.131	0.023	0.068	0.042
Zinc (Zn)	µg/l	12	20.0	34.6	58.0	29.0	56.7	44.0	29.3	36.0	29.0
Copper (Cu)	µg/l	12	3.0	21.6	45.0	20.0	38.3	23.6	19.7	28.7	14.7
Chromium (Cr) - total	µg/l	12	1.0	14.9	34.0	14.2	21.8	17.2	7.6	20.3	14.3
Lead (Pb)	µg/l	12	10.0	32.2	68.5	26.3	57.3	43.8	20.9	47.7	16.7
Cadmium (Cd)	µg/l	12	0.32	1.30	2.46	1.33	1.76	1.03	1.44	1.47	1.24
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l										
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	3.1	4.2	5.7	4.1	5.1	4.3	4.6	4.0	3.7
COD _{Cr}	mg/l	12	12.0	19.5	39.0	15.6	33.9	28.7	14.8	17.2	17.2
COD _{Mn}	mg/l	12	4.1	6.0	7.3	6.0	7.0	7.0	5.5	5.9	5.4
DOC	mg/l										
Phenol index	mg/l	12	0.005	0.005	0.007	0.005	0.007	0.005	0.005	0.006	0.006
Anionic active surfactants	mg/l	12	0.050	0.077	0.110	0.075	0.099	0.077	0.093	0.073	0.063
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	6	0.010	0.048	0.122	0.027	0.109	0.045	0.051		
pp'DDT	µg/l	6	0.010	0.052	0.242	0.014	0.131	0.013	0.090		
Atrazine	µg/l	4	0.028	0.059	0.109						
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	0.280	51.050	280.000	1.900	254.500	2.080	98.973	101.760	1.387
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	11	0.009	11.540	54.000	0.350	54.000	1.660	21.074	19.570	0.012
Faecal Streptococci	10 ³ CFU/100 ml	6	0.002	0.073	0.350	0.016	0.195	0.122	0.017	0.015	0.040
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	698600 km ²	RO04
Distance from the mouth [km]	375.0	Altitude	13 m	
Location	Chiciu/Silistra M			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	2884.0	6327.4	9685.0	6595.0	8258.5	6063.3	6418.3	4591.3	8236.7
Temperature	°C	12	3.4	12.8	25.0	13.8	24.8	4.4	17.5	21.2	8.3
Suspended Solids	mg/l	12	8	37	98	33	49	43	32	30	42
Dissolved Oxygen	mg/l	12	5.0	8.6	11.6	8.5	6.5	10.5	7.4	6.9	9.7
pH	-	12	7.8	8.0	8.3	8.0	8.2	8.1	8.1	7.9	7.9
Conductivity @ 20°C	µS/cm	12	320	415	503	401	494	485	361	414	398
Alkalinity	mmol/l	12	2.1	3.3	4.7	3.3	4.5	3.6	3.1	3.3	3.4
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.03	0.43	1.11	0.25	1.06	0.62	0.33	0.53	0.23
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.030	0.050	0.030	0.050	0.023	0.030	0.027	0.040
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.40	1.67	2.87	1.76	2.50	2.40	1.48	1.02	1.78
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.010	0.058	0.100	0.045	0.100	0.023	0.060	0.057	0.093
Total Phosphorus	mg/l	12	0.04	0.10	0.24	0.07	0.18	0.05	0.09	0.11	0.15
Sodium (Na ⁺)	mg/l	12	11.5	18.5	24.8	18.0	23.8	23.7	15.5	16.9	18.0
Potassium (K ⁺)	mg/l	12	2.4	3.4	5.3	3.4	4.0	3.7	3.0	3.4	3.5
Calcium (Ca ²⁺)	mg/l	12	44.5	55.2	68.8	55.0	67.5	65.6	52.7	48.9	53.8
Magnesium (Mg ²⁺)	mg/l	12	11.4	17.9	27.7	17.1	22.8	18.0	16.2	15.7	21.7
Chloride (Cl ⁻)	mg/l	12	19	34	46	32	43	43	33	27	31
Sulphate (SO ₄ ²⁻)	mg/l	12	30	44	56	45	55	48	41	40	48
Iron (Fe)	mg/l	12	0.160	0.778	2.950	0.670	0.922	1.497	0.610	0.577	0.430
Manganese (Mn)	mg/l	12	0.005	0.073	0.294	0.050	0.098	0.140	0.056	0.047	0.049
Zinc (Zn)	µg/l	12	9.0	39.8	82.0	35.5	69.8	49.3	27.0	35.3	47.3
Copper (Cu)	µg/l	12	3.0	23.4	64.0	19.2	37.6	29.6	14.5	32.0	17.3
Chromium (Cr) - total	µg/l	12	2.0	12.6	21.7	13.5	19.3	19.8	6.9	10.7	13.0
Lead (Pb)	µg/l	12	10.0	28.8	77.6	23.0	48.1	47.7	17.4	36.3	13.7
Cadmium (Cd)	µg/l	12	0.41	1.49	4.15	1.34	2.31	1.17	2.30	1.19	1.32
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l										
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	3.0	4.1	5.4	4.0	5.2	4.9	4.3	3.5	3.7
COD _{Cr}	mg/l	12	11.7	20.4	57.0	14.3	29.8	34.3	12.8	16.5	18.1
COD _{Mn}	mg/l	12	4.1	6.0	7.6	5.9	7.0	7.1	5.8	5.9	5.3
DOC	mg/l										
Phenol index	mg/l	12	0.005	0.005	0.008	0.005	0.006	0.005	0.005	0.006	0.006
Anionic active surfactants	mg/l	12	0.050	0.072	0.130	0.070	0.089	0.063	0.083	0.073	0.067
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	6	0.010	0.034	0.115	0.020	0.072	0.020	0.048		
pp'DDT	µg/l	6	0.010	0.058	0.284	0.013	0.151	0.015	0.101		
Atrazine	µg/l	4	0.020	0.030	0.049						
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	10 ³ CFU/100 ml	11	0.150	1.623	5.400	0.360	4.300	2.420	2.680	0.185	0.727
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	10	0.008	0.685	4.300	0.117	1.870	0.649	1.554	0.112	0.009
Faecal Streptococci	10 ³ CFU/100 ml	6	0.002	0.021	0.054	0.012	0.047	0.021	0.013	0.010	0.039
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	698600 km ²	RO04
Distance from the mouth [km]	375.0	Altitude	13 m	
Location	Chiciu/Silistra R			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	9	2884.0	6465.4	9685.0	6565.0	8657.0	6063.3	6202.5	2884.0	8236.7
Temperature	°C	12	3.6	12.9	25.0	13.7	24.8	4.5	17.4	21.2	8.3
Suspended Solids	mg/l	12	17	40	106	37	52	49	30	36	44
Dissolved Oxygen	mg/l	12	4.7	8.6	11.2	8.3	6.4	10.0	7.4	6.9	10.0
pH	-	12	7.8	8.0	8.2	8.1	8.2	8.1	8.2	7.9	7.9
Conductivity @ 20°C	µS/cm	12	350	424	533	419	498	488	384	419	405
Alkalinity	mmol/l	12	2.2	3.3	4.7	3.0	4.5	3.4	3.2	3.2	3.4
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.03	0.40	1.01	0.31	0.86	0.55	0.28	0.49	0.26
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.031	0.060	0.030	0.059	0.020	0.027	0.033	0.043
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.61	1.69	2.87	1.57	2.51	2.19	1.60	1.05	1.93
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.010	0.056	0.100	0.050	0.100	0.017	0.063	0.050	0.093
Total Phosphorus	mg/l	12	0.03	0.10	0.22	0.08	0.18	0.04	0.10	0.10	0.15
Sodium (Na ⁺)	mg/l	12	14.8	19.6	26.2	18.4	23.8	24.1	16.2	18.9	19.3
Potassium (K ⁺)	mg/l	12	2.4	3.3	4.3	3.1	4.0	3.5	2.8	3.2	3.6
Calcium (Ca ²⁺)	mg/l	12	47.6	56.5	76.7	55.2	71.4	68.3	53.6	49.2	54.7
Magnesium (Mg ²⁺)	mg/l	12	12.0	17.5	25.2	17.1	20.9	17.4	16.0	15.9	20.7
Chloride (Cl ⁻)	mg/l	12	26	36	50	34	47	45	34	32	33
Sulphate (SO ₄ ²⁻)	mg/l	12	36	47	64	44	58	51	44	44	52
Iron (Fe)	mg/l	12	0.130	0.736	2.880	0.620	0.826	1.410	0.613	0.530	0.390
Manganese (Mn)	mg/l	12	0.005	0.070	0.281	0.057	0.086	0.124	0.058	0.043	0.053
Zinc (Zn)	µg/l	12	13.0	37.1	75.0	30.5	69.5	57.7	27.3	31.3	32.0
Copper (Cu)	µg/l	12	3.0	20.3	42.7	16.5	36.8	33.5	17.7	14.0	16.0
Chromium (Cr) - total	µg/l	12	1.0	14.3	28.9	13.0	24.1	22.7	12.3	9.0	13.3
Lead (Pb)	µg/l	12	9.0	35.6	149.1	24.5	54.1	81.9	18.5	20.3	21.7
Cadmium (Cd)	µg/l	12	0.13	1.16	3.39	1.11	1.57	1.65	1.34	0.28	1.37
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l										
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	3.5	4.4	6.0	4.3	5.5	4.6	4.7	4.4	3.9
COD _{Cr}	mg/l	12	10.9	19.7	40.0	15.5	34.8	30.7	14.4	17.3	16.3
COD _{Mn}	mg/l	12	4.2	6.4	7.3	6.7	7.3	7.0	7.1	5.8	5.5
DOC	mg/l										
Phenol index	mg/l	12	0.005	0.006	0.007	0.005	0.007	0.005	0.006	0.006	0.006
Anionic active surfactants	mg/l	12	0.050	0.082	0.100	0.085	0.099	0.083	0.093	0.077	0.073
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	6	0.010	0.032	0.118	0.016	0.069	0.014	0.049		
pp'DDT	µg/l	6	0.012	0.057	0.261	0.016	0.141	0.014	0.099		
Atrazine	µg/l	4	0.020	0.034	0.062						
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	10 ³ CFU/100 ml	10	0.048	7.097	32.000	1.550	17.600	6.140	16.733	0.048	0.767
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	7	0.014	2.423	14.000	0.130	6.920	0.241	5.405	0.021	
Faecal Streptococci	10 ³ CFU/100 ml	6	0.002	0.033	0.140	0.016	0.082		0.071	0.011	0.023
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	805700 km ²	RO05
Distance from the mouth [km]	132.0	Altitude	4 m	
Location	Reni - Chilia/Kilia arm L			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	10	3145.0	6804.6	8200.0	7070.0	7960.6	6633.7	7316.0	3145.0	7684.0
Temperature	°C	12	1.5	13.6	26.0	14.5	24.9	5.3	19.0	23.0	7.0
Suspended Solids	mg/l	12	10	51	106	51	89	44	63	51	46
Dissolved Oxygen	mg/l	12	6.0	8.8	11.3	8.4	6.6	10.9	7.4	7.0	10.0
pH	-	12	7.8	8.1	8.3	8.1	8.2	8.1	8.1	8.0	8.0
Conductivity @ 20°C	µS/cm	12	394	455	556	450	535	527	433	422	436
Alkalinity	mmol/l	12	2.2	3.3	4.5	3.2	4.4	3.6	3.1	3.3	3.3
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.04	0.40	1.22	0.34	0.54	0.64	0.27	0.32	0.36
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.030	0.070	0.025	0.049	0.027	0.030	0.033	0.030
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.70	1.86	3.09	1.83	2.87	2.50	1.73	1.06	2.13
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.010	0.057	0.100	0.060	0.099	0.027	0.070	0.047	0.083
Total Phosphorus	mg/l	12	0.02	0.09	0.21	0.09	0.15	0.04	0.10	0.09	0.14
Sodium (Na ⁺)	mg/l	12	16.0	22.8	35.0	22.4	26.3	27.9	23.7	18.6	20.7
Potassium (K ⁺)	mg/l	12	2.6	4.2	7.6	3.6	5.1	5.3	3.6	3.7	4.0
Calcium (Ca ²⁺)	mg/l	12	47.6	58.6	72.4	59.1	68.2	64.0	62.3	53.2	55.0
Magnesium (Mg ²⁺)	mg/l	12	12.6	19.4	28.4	20.0	25.8	18.9	17.5	19.3	22.0
Chloride (Cl ⁻)	mg/l	12	27	41	65	37	60	53	46	31	36
Sulphate (SO ₄ ²⁻)	mg/l	12	38	51	68	50	65	47	52	52	52
Iron (Fe)	mg/l	12	0.500	1.383	2.930	1.195	1.927	1.450	1.667	1.203	1.210
Manganese (Mn)	mg/l	12	0.023	0.090	0.287	0.056	0.208	0.132	0.126	0.056	0.045
Zinc (Zn)	µg/l	12	5.0	41.1	124.0	35.5	56.5	28.0	36.7	37.7	62.0
Copper (Cu)	µg/l	12	4.0	25.2	44.0	22.5	43.2	40.8	16.8	19.7	23.7
Chromium (Cr) - total	µg/l	12	1.0	14.5	28.1	13.0	26.1	21.9	11.0	8.3	16.7
Lead (Pb)	µg/l	12	4.0	25.6	50.0	24.5	43.2	27.5	27.4	37.3	10.3
Cadmium (Cd)	µg/l	12	0.01	1.17	5.00	0.97	1.70	0.94	0.92	2.19	0.64
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l										
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	2.5	3.7	6.2	3.7	4.3	3.2	4.7	3.4	3.6
COD _{Cr}	mg/l	12	11.5	20.8	38.0	18.5	31.6	26.0	15.2	21.8	20.1
COD _{Mn}	mg/l	12	4.4	5.8	7.9	5.9	6.7	6.8	5.8	5.1	5.4
DOC	mg/l										
Phenol index	mg/l	12	0.005	0.006	0.007	0.006	0.007	0.005	0.006	0.006	0.006
Anionic active surfactants	mg/l	12	0.070	0.097	0.150	0.090	0.138	0.080	0.100	0.080	0.127
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	6	0.015	0.050	0.117	0.039	0.089	0.029	0.071		
pp'DDT	µg/l	6	0.012	0.052	0.212	0.015	0.129	0.013	0.091		
Atrazine	µg/l	4	0.020	0.057	0.085						
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	10 ³ CFU/100 ml	11	0.005	0.372	1.200	0.240	1.100	0.260	0.123	0.783	0.240
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	9	0.004	0.139	0.780	0.017	0.404	0.135	0.011	0.271	0.007
Faecal Streptococci	10 ³ CFU/100 ml	7	0.002	0.060	0.350	0.005	0.160	0.130	0.002	0.002	0.014
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	805700 km ²	RO05
Distance from the mouth [km]	132.0	Altitude	4 m	
Location	Reni - Chilia/Kilia arm M			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	3145.0	6654.1	8200.0	7070.0	7918.8	6533.7	7316.0	5082.7	7684.0
Temperature	°C	12	1.5	13.6	26.0	14.8	24.9	5.3	19.0	23.0	7.2
Suspended Solids	mg/l	12	7	45	96	36	94	41	39	49	51
Dissolved Oxygen	mg/l	12	5.8	8.8	11.4	8.5	6.7	11.0	7.5	6.9	9.9
pH	-	12	7.6	8.0	8.3	8.1	8.2	7.9	8.2	8.0	8.0
Conductivity @ 20°C	µS/cm	12	382	451	553	432	544	525	421	435	423
Alkalinity	mmol/l	12	2.3	3.3	4.5	3.4	4.1	3.6	3.0	3.3	3.3
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.06	0.41	1.53	0.24	0.72	0.74	0.30	0.35	0.26
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.026	0.060	0.020	0.039	0.023	0.020	0.033	0.027
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.74	1.79	2.84	1.87	2.60	2.22	1.84	1.24	1.85
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.010	0.061	0.100	0.070	0.099	0.023	0.077	0.053	0.090
Total Phosphorus	mg/l	12	0.02	0.10	0.24	0.10	0.15	0.04	0.11	0.11	0.14
Sodium (Na ⁺)	mg/l	12	16.0	22.2	31.6	22.7	23.8	26.1	22.4	19.7	20.7
Potassium (K ⁺)	mg/l	12	2.4	3.8	5.8	3.5	5.1	4.3	3.7	3.7	3.7
Calcium (Ca ²⁺)	mg/l	12	42.7	55.4	76.7	53.3	62.1	59.8	57.5	51.4	53.0
Magnesium (Mg ²⁺)	mg/l	12	12.6	19.7	31.1	19.2	25.5	21.6	17.9	18.1	21.1
Chloride (Cl ⁻)	mg/l	12	27	39	60	36	56	45	47	30	36
Sulphate (SO ₄ ²⁻)	mg/l	12	35	49	67	47	59	48	48	50	48
Iron (Fe)	mg/l	12	0.650	1.296	1.820	1.320	1.753	0.967	1.527	1.217	1.473
Manganese (Mn)	mg/l	12	0.026	0.081	0.246	0.068	0.138	0.128	0.089	0.041	0.066
Zinc (Zn)	µg/l	12	5.0	33.0	86.0	22.5	80.0	21.3	36.3	16.0	58.3
Copper (Cu)	µg/l	12	4.0	23.9	41.4	24.3	40.0	35.1	22.7	13.3	24.3
Chromium (Cr) - total	µg/l	12	1.0	15.1	26.2	14.8	25.8	21.6	12.1	7.7	19.0
Lead (Pb)	µg/l	12	11.0	22.3	43.3	18.5	39.2	27.6	24.1	25.3	12.3
Cadmium (Cd)	µg/l	12	0.01	1.11	4.00	0.68	2.36	1.05	1.51	1.51	0.37
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l										
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	2.3	3.7	5.8	3.7	4.6	3.5	4.4	3.4	3.4
COD _{Cr}	mg/l	12	10.9	21.0	39.0	20.0	28.9	25.3	16.4	22.6	19.6
COD _{Mn}	mg/l	12	5.0	6.3	8.2	6.4	6.9	7.2	6.5	5.6	6.0
DOC	mg/l										
Phenol index	mg/l	12	0.005	0.005	0.007	0.005	0.006	0.005	0.006	0.005	0.005
Anionic active surfactants	mg/l	12	0.070	0.091	0.160	0.080	0.100	0.080	0.093	0.077	0.113
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	6	0.011	0.091	0.341	0.037	0.223	0.125	0.058		
pp'DDT	µg/l	6	0.012	0.081	0.235	0.018	0.210	0.088	0.073		
Atrazine	µg/l	4	0.020	0.046	0.084						
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	10 ³ CFU/100 ml	11	0.002	0.619	2.600	0.240	2.100	0.488	0.121	1.574	0.126
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	9	0.002	0.231	1.100	0.023	0.612	0.171	0.012	0.441	0.220
Faecal Streptococci	10 ³ CFU/100 ml	6	0.002	0.008	0.033	0.003	0.019	0.019	0.002	0.002	0.003
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	805700 km ²	RO05
Distance from the mouth [km]	132.0	Altitude	4 m	
Location	Reni - Chilia/Kilia arm R			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	10	3145.0	6804.6	8200.0	7070.0	7960.6	6633.7	7316.0	3145.0	7684.0
Temperature	°C	12	1.5	13.6	26.0	14.8	24.9	5.3	19.0	23.0	7.2
Suspended Solids	mg/l	12	9	45	86	42	80	36	58	47	40
Dissolved Oxygen	mg/l	12	6.1	8.9	11.2	8.7	6.4	11.0	7.5	6.9	10.0
pH	-	12	7.8	8.1	8.3	8.1	8.2	8.1	8.2	8.1	8.0
Conductivity @ 20°C	µS/cm	12	382	453	564	440	549	532	410	426	442
Alkalinity	mmol/l	12	2.2	3.2	4.1	3.5	4.1	3.8	2.8	3.1	3.3
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.04	0.41	1.43	0.34	0.69	0.74	0.22	0.41	0.26
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.028	0.070	0.020	0.040	0.023	0.027	0.037	0.023
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.76	1.79	2.60	1.84	2.56	2.19	1.79	1.35	1.82
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.010	0.063	0.100	0.070	0.099	0.033	0.077	0.053	0.090
Total Phosphorus	mg/l	12	0.02	0.10	0.23	0.11	0.15	0.04	0.12	0.10	0.14
Sodium (Na ⁺)	mg/l	12	18.0	23.0	35.0	22.4	26.2	28.5	21.8	20.5	21.4
Potassium (K ⁺)	mg/l	12	2.8	3.9	7.4	3.7	5.0	4.9	3.3	3.7	3.8
Calcium (Ca ²⁺)	mg/l	12	43.6	56.9	72.4	57.2	64.0	62.5	58.8	51.2	54.9
Magnesium (Mg ²⁺)	mg/l	12	12.0	19.7	26.0	19.4	26.0	21.6	18.5	16.6	22.0
Chloride (Cl ⁻)	mg/l	12	28	41	65	39	54	50	44	32	38
Sulphate (SO ₄ ²⁻)	mg/l	12	36	50	67	46	66	48	51	50	50
Iron (Fe)	mg/l	12	0.640	1.200	1.670	1.245	1.489	0.903	1.490	1.093	1.313
Manganese (Mn)	mg/l	12	0.018	0.083	0.325	0.054	0.159	0.152	0.107	0.046	0.027
Zinc (Zn)	µg/l	12	8.0	33.9	120.0	26.5	48.6	22.3	35.0	20.3	58.0
Copper (Cu)	µg/l	12	3.0	24.6	46.3	22.5	44.2	35.0	23.5	14.0	26.0
Chromium (Cr) - total	µg/l	12	1.0	17.4	43.7	15.5	27.7	22.2	17.2	9.7	20.7
Lead (Pb)	µg/l	12	7.0	25.2	62.0	20.4	44.7	27.2	20.0	26.3	27.3
Cadmium (Cd)	µg/l	12	0.01	1.12	1.92	1.38	1.90	0.84	1.67	1.14	0.82
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l										
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	2.5	3.6	5.5	3.6	4.2	3.3	4.3	3.4	3.6
COD _{Cr}	mg/l	12	12.0	20.9	38.0	18.5	30.0	25.7	15.3	23.7	18.8
COD _{Mn}	mg/l	12	4.9	6.1	8.1	6.2	6.8	6.9	6.0	5.8	5.7
DOC	mg/l										
Phenol index	mg/l	12	0.005	0.006	0.007	0.005	0.007	0.005	0.007	0.005	0.006
Anionic active surfactants	mg/l	12	0.070	0.097	0.170	0.085	0.129	0.077	0.100	0.083	0.127
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	6	0.015	0.057	0.140	0.039	0.115	0.063	0.051		
pp'DDT	µg/l	6	0.010	0.083	0.269	0.019	0.220	0.102	0.064		
Atrazine	µg/l	4	0.020	0.041	0.080						
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	10 ³ CFU/100 ml	11	0.002	1.460	5.400	0.140	5.400	1.854	0.071	1.616	1.836
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	8	0.002	0.674	2.700	0.021	2.000	0.575	0.012	1.360	0.920
Faecal Streptococci	10 ³ CFU/100 ml	7	0.002	0.028	0.130	0.011	0.068	0.019	0.002	0.005	0.068
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	817000 km ²	RO06
Distance from the mouth [km]	18.0	Altitude	1 m	
Location	Vilkova - Chilia arm/Kilia arm L			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	10	1918.0	4132.5	5002.0	4344.5	4825.6	3979.0	4469.3	1918.0	4687.3
Temperature	°C	12	2.0	13.6	26.0	15.0	24.9	5.3	18.7	23.0	7.3
Suspended Solids	mg/l	12	10	48	112	39	99	44	41	56	52
Dissolved Oxygen	mg/l	12	5.6	8.7	11.2	8.4	6.4	10.9	7.4	7.0	9.6
pH	-	12	7.8	8.1	8.3	8.1	8.2	8.1	8.2	8.0	8.0
Conductivity @ 20°C	µS/cm	12	400	457	550	450	540	528	424	427	447
Alkalinity	mmol/l	12	2.2	3.2	4.3	3.3	3.9	3.4	2.9	2.9	3.5
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.06	0.50	1.83	0.28	1.17	0.90	0.46	0.36	0.26
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.026	0.070	0.020	0.039	0.020	0.027	0.033	0.023
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.81	1.91	2.84	2.07	2.61	2.40	1.90	1.38	1.94
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.010	0.052	0.100	0.055	0.090	0.017	0.063	0.043	0.083
Total Phosphorus	mg/l	12	0.02	0.09	0.17	0.09	0.15	0.03	0.10	0.08	0.14
Sodium (Na ⁺)	mg/l	12	18.8	22.7	26.8	22.6	25.9	25.8	22.8	21.3	20.7
Potassium (K ⁺)	mg/l	12	3.2	3.8	5.6	3.6	4.1	3.9	3.4	4.1	3.9
Calcium (Ca ²⁺)	mg/l	12	50.5	55.6	63.9	55.0	61.8	58.3	55.0	52.7	56.2
Magnesium (Mg ²⁺)	mg/l	12	12.2	20.0	28.4	20.6	28.1	25.0	17.6	15.4	22.1
Chloride (Cl ⁻)	mg/l	12	31	42	62	39	57	53	46	35	36
Sulphate (SO ₄ ²⁻)	mg/l	12	43	52	68	50	59	56	52	53	48
Iron (Fe)	mg/l	12	0.680	1.293	1.680	1.480	1.659	0.993	1.353	1.250	1.573
Manganese (Mn)	mg/l	12	0.015	0.076	0.398	0.049	0.077	0.173	0.051	0.039	0.041
Zinc (Zn)	µg/l	12	8.0	41.1	140.0	29.5	62.4	27.3	30.3	20.0	86.7
Copper (Cu)	µg/l	12	6.0	22.3	43.0	18.9	42.2	31.8	17.7	14.7	25.0
Chromium (Cr) - total	µg/l	12	2.0	15.4	27.5	18.0	26.0	22.8	8.6	9.0	21.0
Lead (Pb)	µg/l	12	9.0	22.9	63.4	18.3	36.7	32.7	19.4	24.3	15.3
Cadmium (Cd)	µg/l	12	0.01	1.29	5.00	0.83	2.49	0.30	1.70	2.64	0.52
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l										
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	2.6	3.8	5.7	3.8	4.6	3.9	4.6	3.6	3.4
COD _{Cr}	mg/l	12	11.8	23.0	42.0	24.0	30.0	34.0	16.9	22.3	18.6
COD _{Mn}	mg/l	12	4.6	6.3	8.2	6.3	7.5	7.7	6.5	5.3	5.6
DOC	mg/l										
Phenol index	mg/l	12	0.005	0.006	0.008	0.005	0.007	0.005	0.007	0.006	0.006
Anionic active surfactants	mg/l	12	0.060	0.090	0.140	0.090	0.109	0.080	0.110	0.083	0.087
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	6	0.013	0.050	0.100	0.044	0.089	0.037	0.064		
pp'DDT	µg/l	6	0.010	0.046	0.182	0.018	0.111	0.015	0.077		
Atrazine	µg/l	4	0.030	0.050	0.092						
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	10 ³ CFU/100 ml	11	0.002	3.883	36.000	0.140	3.500	0.444	0.038	12.061	1.707
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	9	0.002	0.141	0.490	0.140	0.282	0.241	0.009	0.108	0.200
Faecal Streptococci	10 ³ CFU/100 ml	8	0.002	0.024	0.120	0.011	0.052	0.048	0.002	0.005	0.013
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	817000 km ²		RO06
Distance from the mouth [km]	18.0	Altitude	1 m		
Location	Vilkova - Chilia arm/Kilia arm M				1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	1918.0	4020.9	5002.0	4344.5	4800.1	3979.0	4472.7	2944.7	4687.3
Temperature	°C	12	2.0	13.6	26.0	15.0	24.9	5.3	18.7	23.0	7.3
Suspended Solids	mg/l	12	18	48	93	45	80	40	42	48	63
Dissolved Oxygen	mg/l	12	5.8	8.8	11.2	8.6	6.7	11.1	7.6	7.0	9.7
pH	-	12	7.5	8.0	8.2	8.1	8.2	7.9	8.1	8.0	8.0
Conductivity @ 20°C	µS/cm	12	394	458	551	452	539	529	425	435	445
Alkalinity	mmol/l	12	2.2	3.2	4.1	3.4	3.7	3.6	2.8	2.9	3.4
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.06	0.54	2.35	0.37	1.01	1.03	0.41	0.40	0.32
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.028	0.060	0.020	0.049	0.027	0.027	0.030	0.027
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.80	1.82	2.91	1.91	2.75	2.34	1.88	1.12	1.92
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.010	0.053	0.100	0.055	0.089	0.023	0.067	0.037	0.083
Total Phosphorus	mg/l	12	0.02	0.09	0.19	0.09	0.15	0.03	0.10	0.08	0.14
Sodium (Na ⁺)	mg/l	12	19.8	23.3	31.2	23.4	26.3	27.2	22.9	21.6	21.4
Potassium (K ⁺)	mg/l	12	2.8	4.0	6.8	3.6	5.6	4.7	3.3	3.9	4.0
Calcium (Ca ²⁺)	mg/l	12	42.7	53.9	68.5	53.9	61.8	57.0	56.1	49.3	53.3
Magnesium (Mg ²⁺)	mg/l	12	12.0	20.3	33.6	19.1	28.0	25.0	18.5	15.6	22.1
Chloride (Cl ⁻)	mg/l	12	31	42	61	39	57	50	46	37	36
Sulphate (SO ₄ ²⁻)	mg/l	12	40	51	68	50	60	53	51	54	46
Iron (Fe)	mg/l	12	0.280	1.218	2.240	1.115	2.122	0.630	1.253	1.203	1.783
Manganese (Mn)	mg/l	12	0.019	0.100	0.385	0.068	0.145	0.163	0.084	0.062	0.092
Zinc (Zn)	µg/l	12	19.0	42.6	83.0	30.5	76.8	38.3	46.3	28.7	57.0
Copper (Cu)	µg/l	12	7.0	24.5	53.0	21.0	37.6	29.3	21.5	13.7	33.7
Chromium (Cr) - total	µg/l	12	1.0	16.4	37.1	15.5	31.6	27.9	10.9	7.3	19.3
Lead (Pb)	µg/l	12	12.0	24.4	76.7	18.1	40.6	38.0	16.1	23.3	20.0
Cadmium (Cd)	µg/l	12	0.01	0.72	2.05	0.41	1.47	0.29	1.60	0.41	0.56
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l										
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	2.5	3.7	5.3	3.7	4.7	3.9	4.3	3.3	3.6
COD _{Cr}	mg/l	12	10.9	22.3	45.0	19.0	30.9	35.3	14.9	20.0	19.1
COD _{Mn}	mg/l	12	5.1	6.4	8.6	6.4	7.4	7.7	6.2	5.6	6.2
DOC	mg/l										
Phenol index	mg/l	12	0.005	0.006	0.008	0.005	0.007	0.005	0.006	0.005	0.007
Anionic active surfactants	mg/l	12	0.070	0.089	0.120	0.090	0.100	0.083	0.097	0.083	0.093
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	6	0.012	0.060	0.113	0.052	0.108	0.060	0.059		
pp'DDT	µg/l	6	0.010	0.119	0.317	0.034	0.312	0.115	0.123		
Atrazine	µg/l	4	0.020	0.050	0.090						
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	10 ³ CFU/100 ml	11	0.008	0.583	2.800	0.170	1.700	1.306	0.126	0.626	0.121
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	8	0.004	0.413	2.800	0.056	0.980	0.992	0.009	0.149	0.009
Faecal Streptococci	10 ³ CFU/100 ml	9	0.002	0.025	0.130	0.013	0.052	0.021	0.002	0.046	0.012
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	817000 km ²		RO06
Distance from the mouth [km]	18.0	Altitude	1 m		
Location	Vilkova - Chilia arm/Kilia arm R				1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	9	1918.0	4106.6	5002.0	4313.0	4845.2	3979.0	4521.0	1918.0	4687.3
Temperature	°C	12	2.0	13.6	26.0	15.0	24.9	5.3	18.7	23.0	7.3
Suspended Solids	mg/l	12	15	49	105	43	92	47	50	45	51
Dissolved Oxygen	mg/l	12	5.7	8.8	11.2	8.6	6.5	11.0	7.5	7.1	9.8
pH	-	12	7.7	8.1	8.3	8.1	8.2	8.0	8.2	8.0	8.0
Conductivity @ 20°C	µS/cm	12	394	462	554	451	543	532	424	435	458
Alkalinity	mmol/l	12	2.2	3.2	4.5	3.4	4.1	3.4	3.0	3.0	3.5
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.05	0.54	2.63	0.32	1.19	1.11	0.47	0.31	0.28
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.025	0.060	0.020	0.040	0.017	0.027	0.030	0.027
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.99	1.93	2.88	1.88	2.81	2.34	1.98	1.42	1.96
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.010	0.057	0.100	0.060	0.090	0.027	0.073	0.043	0.083
Total Phosphorus	mg/l	12	0.02	0.10	0.21	0.11	0.15	0.04	0.11	0.09	0.14
Sodium (Na ⁺)	mg/l	12	15.2	23.0	26.6	23.6	26.2	25.9	21.1	21.9	22.9
Potassium (K ⁺)	mg/l	12	2.0	3.8	6.0	3.7	4.4	3.9	2.9	4.2	4.1
Calcium (Ca ²⁺)	mg/l	12	50.0	58.0	72.4	56.7	64.0	62.6	59.5	53.8	55.9
Magnesium (Mg ²⁺)	mg/l	12	12.0	19.7	28.4	20.5	25.7	22.5	18.1	15.3	23.0
Chloride (Cl ⁻)	mg/l	12	26	42	60	41	50	48	42	35	43
Sulphate (SO ₄ ²⁻)	mg/l	12	42	52	69	48	61	56	51	52	47
Iron (Fe)	mg/l	12	0.190	1.182	1.810	1.390	1.746	0.717	1.637	0.910	1.463
Manganese (Mn)	mg/l	12	0.012	0.108	0.450	0.087	0.173	0.190	0.125	0.048	0.069
Zinc (Zn)	µg/l	12	17.0	40.2	100.0	28.0	79.0	43.7	25.3	25.7	66.0
Copper (Cu)	µg/l	12	4.0	29.2	59.0	24.5	51.9	33.6	23.5	15.3	44.3
Chromium (Cr) - total	µg/l	12	1.0	18.5	54.2	16.5	29.7	24.4	20.4	12.0	17.3
Lead (Pb)	µg/l	12	11.0	21.9	37.7	16.2	35.7	27.3	20.1	26.3	14.0
Cadmium (Cd)	µg/l	12	0.01	1.33	2.42	1.55	2.33	0.96	1.93	1.92	0.51
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l										
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	2.1	3.7	5.4	3.9	4.9	3.9	4.5	3.2	3.3
COD _{Cr}	mg/l	12	11.2	23.6	48.0	24.5	29.9	34.3	17.0	23.2	19.8
COD _{Mn}	mg/l	12	4.5	5.9	8.9	5.8	6.9	7.5	5.6	5.1	5.3
DOC	mg/l										
Phenol index	mg/l	12	0.005	0.006	0.007	0.006	0.007	0.005	0.007	0.005	0.006
Anionic active surfactants	mg/l	12	0.070	0.093	0.110	0.095	0.110	0.090	0.097	0.083	0.103
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	6	0.013	0.033	0.107	0.019	0.065	0.019	0.046		
pp'DDT	µg/l	6	0.010	0.054	0.202	0.029	0.121	0.015	0.092		
Atrazine	µg/l	4	0.020	0.046	0.087						
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	10 ³ CFU/100 ml	11	0.020	1.966	16.000	0.390	2.100	6.040	0.325	0.367	0.587
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	9	0.004	0.272	1.700	0.031	0.652	0.703	0.024	0.095	0.004
Faecal Streptococci	10 ³ CFU/100 ml	7	0.002	0.012	0.022	0.008	0.021	0.015	0.005	0.008	0.012
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	817000 km ²	RO07
Distance from the mouth [km]	0.0	Altitude	1 m	
Location	Sulina - Sulina arm L			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	11	642.0	1460.9	1804.0	1528.0	1733.0	1409.7	1609.3	971.0	1690.3
Temperature	°C	12	1.5	13.5	26.0	15.0	24.4	5.3	18.3	23.0	7.5
Suspended Solids	mg/l	12	5	45	90	41	82	33	40	39	66
Dissolved Oxygen	mg/l	12	5.9	8.8	11.7	8.6	6.6	11.0	7.4	6.9	9.8
pH	-	12	7.7	8.0	8.2	8.1	8.2	8.0	8.1	8.0	8.0
Conductivity @ 20°C	µS/cm	12	382	455	560	439	545	532	412	426	448
Alkalinity	mmol/l	12	2.2	3.1	4.0	3.3	3.9	3.4	2.8	3.0	3.4
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.04	0.67	2.93	0.34	1.39	1.20	0.52	0.53	0.43
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.024	0.050	0.020	0.039	0.023	0.020	0.033	0.020
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.82	1.84	2.69	1.91	2.32	2.44	1.74	1.37	1.82
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.010	0.058	0.100	0.065	0.089	0.047	0.057	0.040	0.087
Total Phosphorus	mg/l	12	0.02	0.09	0.15	0.10	0.14	0.06	0.10	0.07	0.13
Sodium (Na ⁺)	mg/l	12	17.6	22.0	28.2	22.1	26.1	25.7	21.6	20.4	20.3
Potassium (K ⁺)	mg/l	12	2.9	3.7	5.8	3.6	4.0	3.7	3.2	4.1	3.7
Calcium (Ca ²⁺)	mg/l	12	50.5	56.0	76.7	55.0	59.8	62.6	55.2	52.7	53.6
Magnesium (Mg ²⁺)	mg/l	12	12.2	19.6	26.0	20.7	25.5	23.3	19.6	15.4	20.2
Chloride (Cl ⁻)	mg/l	12	28	40	60	37	50	48	43	33	36
Sulphate (SO ₄ ²⁻)	mg/l	12	46	56	91	50	67	63	52	50	57
Iron (Fe)	mg/l	12	0.480	1.315	1.950	1.275	1.856	1.350	0.960	1.243	1.707
Manganese (Mn)	mg/l	12	0.024	0.084	0.285	0.065	0.115	0.154	0.043	0.075	0.065
Zinc (Zn)	µg/l	12	5.0	57.3	316.0	29.5	80.0	34.7	43.3	39.7	111.7
Copper (Cu)	µg/l	12	2.0	26.8	62.4	24.5	45.0	47.3	20.7	18.0	21.3
Chromium (Cr) - total	µg/l	12	1.0	15.1	26.6	15.5	24.2	22.8	9.4	11.3	17.0
Lead (Pb)	µg/l	12	12.0	25.0	77.8	19.6	37.5	37.8	20.5	24.7	17.0
Cadmium (Cd)	µg/l	12	0.01	1.10	5.00	0.92	1.61	0.88	1.12	1.89	0.53
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l										
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	3.0	3.9	6.0	3.7	4.7	3.8	4.5	3.6	3.7
COD _{Cr}	mg/l	12	11.8	24.3	48.0	27.0	32.0	36.7	18.4	24.0	18.1
COD _{Mn}	mg/l	12	4.8	6.4	8.2	6.3	7.2	7.3	6.4	6.0	5.7
DOC	mg/l										
Phenol index	mg/l	12	0.005	0.005	0.007	0.005	0.006	0.005	0.006	0.005	0.005
Anionic active surfactants	mg/l	12	0.060	0.084	0.120	0.080	0.108	0.087	0.087	0.077	0.087
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	6	0.010	0.029	0.109	0.014	0.062	0.014	0.043		
pp'DDT	µg/l	6	0.010	0.065	0.298	0.017	0.167	0.015	0.114		
Atrazine	µg/l	4	0.020	0.047	0.065						
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	10 ³ CFU/100 ml	11	0.004	1.502	5.400	1.200	3.600	1.001	0.609	1.493	2.609
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	9	0.002	0.534	2.600	0.060	1.880	0.641	0.071	0.898	0.047
Faecal Streptococci	10 ³ CFU/100 ml	8	0.002	0.037	0.220	0.008	0.088	0.087	0.013	0.008	0.002
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	817000 km ²	RO07
Distance from the mouth [km]	0.0	Altitude	1 m	
Location	Sulina - Sulina arm M			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	11	642.0	1490.8	1804.0	1555.0	1733.0	1409.7	1609.3	1135.5	1690.3
Temperature	°C	12	1.5	13.5	26.0	15.0	24.4	5.3	18.3	23.0	7.5
Suspended Solids	mg/l	12	12	39	90	37	84	42	34	30	50
Dissolved Oxygen	mg/l	12	5.6	8.8	11.6	8.6	6.5	11.1	7.5	6.7	9.9
pH	-	12	7.7	8.0	8.3	8.0	8.2	7.9	8.1	8.0	8.0
Conductivity @ 20°C	µS/cm	12	382	454	588	443	538	538	412	416	450
Alkalinity	mmol/l	12	2.2	3.2	3.9	3.4	3.9	3.6	2.8	2.9	3.3
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.04	0.37	0.92	0.34	0.79	0.64	0.31	0.32	0.21
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.029	0.060	0.025	0.040	0.033	0.020	0.040	0.023
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.81	1.77	2.53	1.76	2.37	2.42	1.56	1.30	1.82
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.010	0.057	0.100	0.060	0.089	0.027	0.060	0.050	0.090
Total Phosphorus	mg/l	12	0.02	0.10	0.18	0.10	0.16	0.05	0.12	0.09	0.14
Sodium (Na ⁺)	mg/l	12	19.0	22.1	29.4	21.5	24.2	24.9	21.9	21.3	20.4
Potassium (K ⁺)	mg/l	12	2.9	3.8	5.9	3.6	4.3	3.7	3.3	4.3	3.7
Calcium (Ca ²⁺)	mg/l	12	47.6	56.6	72.4	55.2	61.0	62.6	57.8	52.5	53.3
Magnesium (Mg ²⁺)	mg/l	12	12.2	21.0	28.4	20.8	26.0	25.9	20.1	14.6	23.2
Chloride (Cl ⁻)	mg/l	12	31	42	60	40	57	48	45	35	39
Sulphate (SO ₄ ²⁻)	mg/l	12	43	54	87	48	67	62	51	48	53
Iron (Fe)	mg/l	12	0.590	1.313	1.750	1.365	1.739	1.270	1.317	1.137	1.527
Manganese (Mn)	mg/l	12	0.016	0.084	0.294	0.056	0.170	0.140	0.088	0.049	0.059
Zinc (Zn)	µg/l	12	5.0	31.7	96.0	24.5	48.1	29.3	34.0	25.0	38.3
Copper (Cu)	µg/l	12	2.0	26.2	64.9	21.0	39.4	44.1	19.2	17.7	23.7
Chromium (Cr) - total	µg/l	12	1.0	16.3	39.9	15.4	30.0	25.1	15.0	10.0	15.0
Lead (Pb)	µg/l	12	6.0	25.1	54.5	19.4	43.8	30.7	17.2	33.3	19.3
Cadmium (Cd)	µg/l	12	0.01	1.43	6.00	1.07	2.69	0.70	1.35	3.00	0.68
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l										
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	3.0	3.8	5.4	3.8	4.5	3.9	4.2	3.7	3.6
COD _{Cr}	mg/l	12	11.2	23.1	39.0	27.0	32.7	33.0	18.3	23.3	17.5
COD _{Mn}	mg/l	12	4.3	6.2	7.9	6.1	7.1	7.3	6.0	6.3	5.1
DOC	mg/l										
Phenol index	mg/l	12	0.005	0.006	0.009	0.005	0.008	0.005	0.006	0.007	0.006
Anionic active surfactants	mg/l	12	0.060	0.088	0.140	0.080	0.100	0.093	0.083	0.083	0.093
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	6	0.014	0.037	0.125	0.017	0.080	0.021	0.053		
pp'DDT	µg/l	6	0.010	0.102	0.523	0.017	0.277	0.013	0.190		
Atrazine	µg/l	4	0.039	0.053	0.070						
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	10 ³ CFU/100 ml	11	0.002	1.389	9.200	0.450	1.700	3.231	0.805	0.727	0.600
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	9	0.002	0.434	2.200	0.078	1.400	0.760	0.090	0.469	0.036
Faecal Streptococci	10 ³ CFU/100 ml	8	0.002	0.041	0.180	0.003	0.145	0.106	0.002	0.002	0.003
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	817000 km ²	RO07
Distance from the mouth [km]	0.0	Altitude	1 m	
Location	Sulina - Sulina arm R			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	10	642.0	1477.0	1804.0	1541.5	1740.1	1409.7	1609.3	642.0	1690.3
Temperature	°C	12	1.5	13.5	26.0	15.0	24.4	5.3	18.3	23.0	7.5
Suspended Solids	mg/l	12	5	44	104	39	86	38	40	40	60
Dissolved Oxygen	mg/l	12	5.7	8.8	11.6	8.5	6.8	11.1	7.5	6.9	9.9
pH	-	12	7.7	8.1	8.3	8.1	8.2	8.1	8.1	8.0	8.0
Conductivity @ 20°C	µS/cm	12	375	448	568	426	541	533	412	413	435
Alkalinity	mmol/l	12	2.2	3.1	4.1	3.3	3.7	3.4	2.8	2.9	3.4
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.04	0.43	2.02	0.29	0.76	0.90	0.31	0.28	0.24
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.028	0.060	0.025	0.040	0.030	0.023	0.037	0.023
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.80	1.82	2.84	1.83	2.34	2.48	1.67	1.31	1.80
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.010	0.058	0.100	0.055	0.090	0.027	0.067	0.043	0.093
Total Phosphorus	mg/l	12	0.02	0.10	0.18	0.10	0.16	0.05	0.12	0.08	0.14
Sodium (Na ⁺)	mg/l	12	18.6	22.2	29.2	22.2	24.9	26.1	22.1	20.1	20.4
Potassium (K ⁺)	mg/l	12	2.8	3.8	5.8	3.6	4.5	3.9	3.3	4.1	3.7
Calcium (Ca ²⁺)	mg/l	12	47.6	55.3	72.4	54.7	61.1	59.7	56.6	51.4	53.3
Magnesium (Mg ²⁺)	mg/l	12	12.0	20.6	31.1	20.9	26.0	26.8	19.9	14.3	21.2
Chloride (Cl ⁻)	mg/l	12	31	42	60	39	57	50	45	33	38
Sulphate (SO ₄ ²⁻)	mg/l	12	45	55	88	52	66	64	52	50	55
Iron (Fe)	mg/l	12	0.710	1.246	1.880	1.195	1.794	1.427	1.093	0.963	1.500
Manganese (Mn)	mg/l	12	0.010	0.081	0.382	0.048	0.127	0.174	0.066	0.031	0.054
Zinc (Zn)	µg/l	12	5.0	35.7	106.0	25.5	70.2	37.7	41.0	19.7	44.3
Copper (Cu)	µg/l	12	2.0	29.8	67.7	25.5	65.7	52.3	33.2	17.0	16.7
Chromium (Cr) - total	µg/l	12	1.0	18.1	38.0	17.0	34.4	30.4	9.2	16.7	16.3
Lead (Pb)	µg/l	12	11.0	28.9	61.6	19.3	50.5	44.4	21.6	37.0	12.7
Cadmium (Cd)	µg/l	12	0.01	0.91	2.12	0.89	1.83	1.42	1.28	0.38	0.55
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l										
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	3.1	3.9	5.8	3.7	4.7	3.8	4.6	3.5	3.5
COD _{Cr}	mg/l	12	11.5	23.7	46.0	25.5	36.2	36.0	18.2	22.4	18.2
COD _{Mn}	mg/l	12	4.3	5.9	8.2	5.8	7.1	7.4	5.9	5.3	4.8
DOC	mg/l										
Phenol index	mg/l	12	0.005	0.005	0.006	0.005	0.006	0.005	0.005	0.006	0.006
Anionic active surfactants	mg/l	12	0.070	0.088	0.130	0.085	0.100	0.093	0.090	0.077	0.093
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	6	0.013	0.054	0.121	0.051	0.095	0.041	0.066		
pp'DDT	µg/l	6	0.010	0.085	0.408	0.019	0.224	0.013	0.157		
Atrazine	µg/l	4	0.029	0.043	0.056						
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	10 ³ CFU/100 ml	11	0.002	1.302	9.200	0.430	1.600	0.297	4.617	0.777	0.622
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	9	0.002	0.254	0.780	0.200	0.500	0.221	0.199	0.383	0.072
Faecal Streptococci	10 ³ CFU/100 ml	7	0.002	0.059	0.360	0.005	0.164	0.132	0.002	0.005	0.004
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	817000 km ²	RO08
Distance from the mouth [km]	0.0	Altitude	1 m	
Location	Sf.Gheorge - Sf.Gheorge arm L			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	10	535.0	1152.0	1394.0	1210.0	1345.4	1109.3	1246.0	535.0	1306.3
Temperature	°C	12	2.0	13.6	25.5	15.0	24.4	5.5	18.8	22.7	7.3
Suspended Solids	mg/l	12	5	45	91	40	84	38	41	41	61
Dissolved Oxygen	mg/l	12	6.0	8.8	11.5	8.6	6.7	10.9	7.5	7.3	9.6
pH	-	12	7.7	8.0	8.3	8.1	8.2	7.9	8.2	8.0	8.0
Conductivity @ 20°C	µS/cm	12	346	464	575	459	557	548	424	443	441
Alkalinity	mmol/l	12	2.2	3.1	3.9	3.2	3.7	3.4	2.7	2.9	3.4
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.10	0.40	1.42	0.30	0.68	0.63	0.30	0.41	0.27
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.032	0.060	0.035	0.040	0.027	0.030	0.047	0.023
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.73	1.52	2.30	1.48	2.20	1.84	1.62	1.02	1.59
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.010	0.053	0.090	0.065	0.090	0.013	0.073	0.037	0.087
Total Phosphorus	mg/l	12	0.02	0.09	0.19	0.09	0.15	0.03	0.11	0.08	0.13
Sodium (Na ⁺)	mg/l	12	20.4	25.3	34.8	23.6	30.3	28.7	23.2	26.9	22.3
Potassium (K ⁺)	mg/l	12	2.9	4.5	7.0	4.2	6.1	4.8	3.6	5.5	4.2
Calcium (Ca ²⁺)	mg/l	12	47.1	56.3	72.4	55.2	62.6	56.9	59.1	54.2	54.9
Magnesium (Mg ²⁺)	mg/l	12	12.2	20.9	28.6	22.4	28.1	25.9	18.4	16.0	23.4
Chloride (Cl ⁻)	mg/l	12	31	46	65	43	61	53	46	43	41
Sulphate (SO ₄ ²⁻)	mg/l	12	44	52	88	48	59	63	52	48	47
Iron (Fe)	mg/l	12	0.910	1.474	2.170	1.400	2.068	1.867	1.417	1.397	1.217
Manganese (Mn)	mg/l	12	0.018	0.100	0.388	0.072	0.206	0.174	0.112	0.061	0.055
Zinc (Zn)	µg/l	12	5.0	35.0	73.0	37.0	58.4	43.0	52.7	22.7	21.7
Copper (Cu)	µg/l	12	2.0	25.1	66.6	24.9	38.8	39.8	23.0	12.7	25.0
Chromium (Cr) - total	µg/l	12	1.0	16.0	37.7	14.0	29.0	31.6	9.2	8.3	15.0
Lead (Pb)	µg/l	12	8.0	25.3	50.0	22.2	47.1	35.8	18.3	32.3	15.0
Cadmium (Cd)	µg/l	12	0.01	0.75	1.80	0.70	0.98	0.64	0.80	0.68	0.88
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l										
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	2.7	3.6	5.3	3.5	4.4	3.3	4.2	3.6	3.1
COD _{Cr}	mg/l	12	10.8	20.1	40.0	18.3	28.0	25.7	17.8	21.2	15.6
COD _{Mn}	mg/l	12	4.1	5.9	7.4	6.2	6.6	6.7	6.2	6.1	4.7
DOC	mg/l										
Phenol index	mg/l	12	0.005	0.005	0.007	0.005	0.006	0.005	0.006	0.005	0.005
Anionic active surfactants	mg/l	12	0.050	0.086	0.110	0.090	0.100	0.090	0.093	0.083	0.077
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	6	0.016	0.053	0.136	0.041	0.097	0.043	0.063		
pp'DDT	µg/l	6	0.010	0.053	0.228	0.019	0.129	0.014	0.092		
Atrazine	µg/l	4	0.029	0.044	0.069						
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	0.002	0.516	2.100	0.280	1.442	0.264	0.821	0.667	0.311
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	10	0.002	0.248	0.980	0.220	0.521	0.234	0.166	0.412	0.047
Faecal Streptococci	10 ³ CFU/100 ml	10	0.002	0.030	0.220	0.008	0.052	0.085	0.008	0.008	0.003
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	817000 km ²	RO08
Distance from the mouth [km]	0.0	Altitude	1 m	
Location	Sf.Gheorge - Sf.Gheorge arm M			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	535.0	1131.5	1394.0	1210.0	1338.3	1109.3	1246.0	864.3	1306.3
Temperature	°C	12	2.0	13.6	25.5	15.0	24.4	5.5	18.8	22.7	7.3
Suspended Solids	mg/l	12	14	45	89	43	85	41	40	47	51
Dissolved Oxygen	mg/l	12	5.9	8.8	11.1	8.8	6.6	10.8	7.5	7.3	9.8
pH	-	12	7.5	8.0	8.3	8.1	8.3	7.8	8.2	8.0	8.0
Conductivity @ 20°C	µS/cm	12	382	456	582	444	545	541	414	435	435
Alkalinity	mmol/l	12	2.2	3.1	3.9	3.3	3.8	3.4	2.8	2.8	3.5
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.08	0.53	1.64	0.36	1.44	0.90	0.61	0.33	0.29
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.025	0.070	0.020	0.039	0.020	0.027	0.033	0.020
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.43	1.68	2.36	1.79	2.33	2.07	1.55	1.30	1.79
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.010	0.058	0.090	0.070	0.090	0.040	0.070	0.033	0.087
Total Phosphorus	mg/l	12	0.02	0.10	0.18	0.11	0.15	0.06	0.11	0.08	0.14
Sodium (Na ⁺)	mg/l	12	19.6	24.2	31.6	24.1	27.5	26.9	22.8	24.8	22.1
Potassium (K ⁺)	mg/l	12	3.3	4.2	6.0	3.9	5.7	4.1	3.4	5.3	4.0
Calcium (Ca ²⁺)	mg/l	12	47.1	53.7	63.9	53.8	59.6	55.5	54.9	50.7	53.6
Magnesium (Mg ²⁺)	mg/l	12	12.0	21.1	31.1	20.8	28.6	27.7	17.2	15.0	24.5
Chloride (Cl ⁻)	mg/l	12	31	43	61	40	57	50	45	42	36
Sulphate (SO ₄ ²⁻)	mg/l	12	43	51	88	47	58	63	49	48	46
Iron (Fe)	mg/l	12	0.690	1.346	2.000	1.310	1.950	1.560	1.263	1.340	1.220
Manganese (Mn)	mg/l	12	0.044	0.090	0.297	0.070	0.120	0.152	0.087	0.062	0.060
Zinc (Zn)	µg/l	12	5.0	40.1	129.0	28.5	75.3	41.3	43.0	21.7	54.3
Copper (Cu)	µg/l	12	3.0	24.3	48.7	26.0	39.5	34.1	23.2	17.7	22.3
Chromium (Cr) - total	µg/l	12	1.0	15.2	32.8	15.5	28.7	25.5	11.3	11.7	12.3
Lead (Pb)	µg/l	12	13.0	22.4	49.4	17.1	43.1	26.5	16.2	32.0	15.0
Cadmium (Cd)	µg/l	12	0.01	1.12	6.00	0.75	1.52	0.44	0.89	2.75	0.39
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l										
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	2.5	3.6	5.7	3.7	4.5	3.6	4.2	3.5	3.1
COD _{Cr}	mg/l	12	11.2	20.8	42.0	17.5	31.4	30.0	17.4	19.3	16.4
COD _{Mn}	mg/l	12	3.7	5.9	7.6	6.1	7.4	6.9	6.5	5.9	4.4
DOC	mg/l										
Phenol index	mg/l	12	0.005	0.006	0.009	0.005	0.007	0.005	0.006	0.006	0.006
Anionic active surfactants	mg/l	12	0.060	0.087	0.120	0.090	0.100	0.100	0.093	0.083	0.070
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	6	0.013	0.056	0.146	0.044	0.112	0.045	0.068		
pp'DDT	µg/l	6	0.010	0.048	0.182	0.019	0.112	0.022	0.073		
Atrazine	µg/l	4	0.020	0.041	0.057						
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	0.005	0.296	1.600	0.135	0.670	0.258	0.097	0.273	0.554
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	10	0.002	0.132	0.700	0.027	0.250	0.236	0.065	0.134	0.017
Faecal Streptococci	10 ³ CFU/100 ml	6	0.002	0.019	0.049	0.007	0.048	0.033	0.005		0.005
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	817000 km ²	RO08
Distance from the mouth [km]	0.0	Altitude	1 m	
Location	Sf.Gheorge - Sf.Gheorge arm R			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	10	535.0	1152.0	1394.0	1210.0	1345.4	1109.3	1246.0	535.0	1306.3
Temperature	°C	12	2.0	13.6	25.5	15.0	24.4	5.5	18.8	22.7	7.3
Suspended Solids	mg/l	12	5	40	89	37	82	40	37	35	48
Dissolved Oxygen	mg/l	12	6.1	8.9	11.4	8.5	6.8	10.9	7.6	7.3	9.6
pH	-	12	7.8	8.0	8.2	8.1	8.2	8.0	8.1	8.0	8.0
Conductivity @ 20°C	µS/cm	12	382	461	620	440	555	553	414	447	429
Alkalinity	mmol/l	12	2.2	3.1	3.9	3.2	3.8	3.3	2.8	2.9	3.4
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.09	0.48	1.24	0.33	1.03	0.83	0.42	0.40	0.28
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.030	0.060	0.030	0.040	0.020	0.030	0.043	0.027
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.43	1.61	2.73	1.71	2.30	2.25	1.44	0.99	1.74
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.010	0.059	0.090	0.070	0.090	0.037	0.070	0.043	0.087
Total Phosphorus	mg/l	12	0.02	0.10	0.16	0.11	0.15	0.06	0.12	0.08	0.14
Sodium (Na ⁺)	mg/l	12	19.0	24.5	35.0	23.8	29.0	27.1	22.4	27.1	21.2
Potassium (K ⁺)	mg/l	12	3.0	4.4	7.0	4.1	6.1	4.6	3.3	5.4	4.2
Calcium (Ca ²⁺)	mg/l	12	47.6	55.0	72.4	53.2	59.8	58.3	56.2	51.7	53.6
Magnesium (Mg ²⁺)	mg/l	12	12.0	21.6	30.6	20.7	28.4	27.6	17.7	15.8	25.3
Chloride (Cl ⁻)	mg/l	12	31	45	65	39	61	53	46	43	38
Sulphate (SO ₄ ²⁻)	mg/l	12	42	53	98	48	59	67	51	49	46
Iron (Fe)	mg/l	12	0.800	1.192	1.910	1.075	1.855	1.253	1.067	1.227	1.220
Manganese (Mn)	mg/l	12	0.033	0.096	0.458	0.064	0.097	0.200	0.073	0.054	0.056
Zinc (Zn)	µg/l	12	5.0	32.8	69.0	26.5	65.7	36.0	51.0	18.0	26.0
Copper (Cu)	µg/l	12	3.0	21.9	40.0	21.2	37.0	32.5	21.3	18.0	16.0
Chromium (Cr) - total	µg/l	12	1.0	14.9	28.6	16.0	26.8	23.4	11.2	9.7	15.3
Lead (Pb)	µg/l	12	7.0	22.7	51.2	18.3	46.6	28.7	16.5	31.0	14.7
Cadmium (Cd)	µg/l	12	0.01	1.11	5.00	0.70	1.91	0.24	1.35	2.40	0.47
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l										
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	2.6	3.5	5.2	3.2	4.2	3.4	4.1	3.3	3.0
COD _{Cr}	mg/l	12	10.5	22.2	37.0	23.0	32.7	32.0	17.1	21.1	18.4
COD _{Mn}	mg/l	12	4.5	6.2	7.5	6.3	7.3	6.8	6.5	5.8	5.7
DOC	mg/l										
Phenol index	mg/l	12	0.005	0.005	0.006	0.005	0.005	0.005	0.005	0.005	0.005
Anionic active surfactants	mg/l	12	0.060	0.078	0.100	0.080	0.098	0.087	0.080	0.070	0.077
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	6	0.012	0.071	0.179	0.063	0.130	0.057	0.086		
pp'DDT	µg/l	6	0.012	0.042	0.181	0.015	0.100	0.016	0.069		
Atrazine	µg/l	4	0.020	0.054	0.075						
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	10 ³ CFU/100 ml	12	0.006	1.406	9.200	0.340	3.320	1.249	0.277	0.987	3.110
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	10	0.006	0.648	3.500	0.220	1.430	1.189	0.117	0.797	0.170
Faecal Streptococci	10 ³ CFU/100 ml	8	0.002	0.006	0.026	0.002	0.016	0.013	0.002	0.002	0.002
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	/Arges	Catchment	12550 km ²	RO09
Distance from the mouth [km]	0.0	Altitude	14 m	
Location	Conf. Danube M			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	11	10.0	42.2	112.0	34.6	61.6	50.7	49.6	18.5	54.2
Temperature	°C	12	1.6	14.7	26.5	15.0	26.0	5.3	19.3	25.2	8.8
Suspended Solids	mg/l	12	52	152	334	132	252	149	104	204	150
Dissolved Oxygen	mg/l	12	3.0	6.7	9.0	7.2	3.3	8.6	6.1	4.4	7.5
pH	-	12	7.6	8.0	8.2	8.0	8.2	8.1	7.9	8.0	7.9
Conductivity @ 20°C	µS/cm	12	410	523	597	528	573	511	488	546	545
Alkalinity	mmol/l	12	2.1	3.5	4.2	3.5	4.2	3.7	3.1	3.4	3.7
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.58	1.97	3.40	1.95	2.86	2.47	2.14	1.76	1.49
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.020	0.061	0.100	0.060	0.090	0.080	0.053	0.073	0.037
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.41	2.57	4.40	2.90	4.16	3.53	2.67	1.53	2.55
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.080	0.153	0.200	0.155	0.179	0.163	0.167	0.137	0.143
Total Phosphorus	mg/l	12	0.18	0.20	0.29	0.20	0.22	0.20	0.22	0.20	0.19
Sodium (Na ⁺)	mg/l	12	23.2	35.8	48.0	37.1	41.6	37.8	35.0	32.9	37.4
Potassium (K ⁺)	mg/l	12	3.9	6.4	10.5	6.1	7.8	6.6	6.1	6.2	6.5
Calcium (Ca ²⁺)	mg/l	12	54.0	72.6	85.0	73.0	84.1	77.3	69.8	66.3	77.0
Magnesium (Mg ²⁺)	mg/l	12	13.5	22.6	27.0	24.0	26.9	24.0	19.8	21.4	25.0
Chloride (Cl ⁻)	mg/l	12	39	60	80	62	71	63	58	55	66
Sulphate (SO ₄ ²⁻)	mg/l	12	54	89	119	97	114	99	78	87	92
Iron (Fe)	mg/l	12	0.290	1.252	2.530	1.260	2.320	1.197	1.223	1.353	1.233
Manganese (Mn)	mg/l	12	0.063	0.129	0.200	0.136	0.186	0.135	0.145	0.169	0.067
Zinc (Zn)	µg/l	12	28.0	86.7	258.0	60.0	190.3	60.7	39.0	168.7	78.3
Copper (Cu)	µg/l	12	2.0	22.9	71.2	16.9	39.2	24.4	37.7	16.0	13.7
Chromium (Cr) - total	µg/l	12	2.0	19.2	51.0	19.0	31.7	26.6	14.3	20.3	15.7
Lead (Pb)	µg/l	12	16.0	41.4	96.0	33.3	76.8	44.9	48.6	56.0	16.3
Cadmium (Cd)	µg/l	12	0.48	1.88	8.00	1.48	1.82	1.11	1.51	3.54	1.37
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l										
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	4.0	5.9	8.2	6.4	7.0	5.0	5.7	6.7	6.2
COD _{Cr}	mg/l	12	11.6	16.4	20.4	18.5	20.0	14.2	16.4	19.4	15.7
COD _{Mn}	mg/l	12	5.6	7.3	10.4	7.2	9.1	6.9	6.8	7.7	7.9
DOC	mg/l										
Phenol index	mg/l	12	0.007	0.011	0.026	0.010	0.014	0.007	0.015	0.009	0.011
Anionic active surfactants	mg/l	12	0.090	0.130	0.200	0.125	0.169	0.147	0.163	0.103	0.107
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	6	0.010	0.055	0.127	0.041	0.100	0.051	0.059		
pp'DDT	µg/l	6	0.010	0.094	0.382	0.038	0.235	0.055	0.134		
Atrazine	µg/l	6	0.045	0.058	0.080	0.056	0.071	0.062	0.053		
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	10 ³ CFU/100 ml	11	0.023	7.632	16.000	8.500	16.000	8.215	5.611	10.567	6.330
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	10	0.021	0.828	3.600	0.340	1.800	0.191	2.220	1.040	0.113
Faecal Streptococci	10 ³ CFU/100 ml	9	0.002	0.017	0.045	0.014	0.035	0.032	0.017	0.011	0.002
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	/Siret	Catchment	42890 km ²	RO10
Distance from the mouth [km]	0.0	Altitude	4 m	
Location	Conf. Danube Sendreni M			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	89.0	256.3	548.0	181.5	445.8	325.0	406.0	140.3	154.0
Temperature	°C	12	0.7	10.7	23.0	11.4	21.8	1.6	15.8	19.2	6.4
Suspended Solids	mg/l	12	22	111	334	71	308	155	62	52	175
Dissolved Oxygen	mg/l	12	5.7	7.8	12.7	7.3	6.3	6.6	6.8	7.6	10.4
pH	-	12	7.8	8.0	8.5	8.0	8.3	8.2	8.0	7.9	8.0
Conductivity @ 20°C	µS/cm	12	499	642	791	646	749	739	564	569	696
Alkalinity	mmol/l	12	2.6	3.6	4.7	3.6	4.5	4.1	3.1	3.2	3.9
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.08	1.16	3.30	1.16	1.78	2.09	0.98	1.13	0.42
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.039	0.090	0.035	0.077	0.017	0.050	0.053	0.037
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.55	2.11	4.18	2.20	2.60	2.24	2.45	1.57	2.20
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.010	0.044	0.130	0.045	0.069	0.060	0.057	0.027	0.033
Total Phosphorus	mg/l	12	0.02	0.08	0.17	0.06	0.15	0.07	0.08	0.07	0.08
Sodium (Na ⁺)	mg/l	12	21.0	42.5	59.8	42.7	55.4	44.1	49.3	37.3	39.3
Potassium (K ⁺)	mg/l	12	3.0	7.2	10.7	7.2	10.3	7.8	6.9	7.1	7.0
Calcium (Ca ²⁺)	mg/l	12	58.3	75.5	107.1	73.4	93.7	89.7	68.3	63.7	80.2
Magnesium (Mg ²⁺)	mg/l	12	12.6	20.4	28.2	20.4	27.9	21.4	21.3	16.0	23.0
Chloride (Cl ⁻)	mg/l	12	34	78	112	79	96	76	89	61	84
Sulphate (SO ₄ ²⁻)	mg/l	12	48	78	111	80	109	90	71	65	86
Iron (Fe)	mg/l	12	1.040	1.768	2.410	1.755	2.174	1.567	1.857	1.787	1.863
Manganese (Mn)	mg/l	12	0.020	0.323	1.110	0.165	1.015	0.433	0.562	0.217	0.079
Zinc (Zn)	µg/l	12	18.0	81.6	343.0	54.0	133.5	60.3	63.3	131.3	71.3
Copper (Cu)	µg/l	12	4.0	28.8	66.3	27.4	53.7	38.3	29.1	27.0	20.7
Chromium (Cr) - total	µg/l	12	3.0	17.3	38.0	20.0	25.9	23.8	15.3	9.7	20.3
Lead (Pb)	µg/l	12	12.0	48.0	144.7	40.9	88.7	75.8	42.5	45.0	28.7
Cadmium (Cd)	µg/l	12	0.53	1.61	5.00	1.31	2.28	1.63	1.27	2.47	1.08
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l										
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	4.3	5.9	7.0	5.9	6.9	6.0	6.3	5.2	5.9
COD _{Cr}	mg/l	12	15.7	32.3	64.0	25.0	57.8	59.3	19.1	20.6	30.1
COD _{Mn}	mg/l	12	6.4	8.3	9.9	8.5	9.3	9.3	7.7	8.1	8.2
DOC	mg/l										
Phenol index	mg/l	12	0.007	0.009	0.013	0.009	0.010	0.009	0.010	0.008	0.008
Anionic active surfactants	mg/l	12	0.070	0.120	0.190	0.120	0.150	0.150	0.137	0.113	0.080
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	6	0.010	0.054	0.133	0.045	0.095	0.046	0.062		
pp'DDT	µg/l	6	0.013	0.067	0.291	0.026	0.163	0.017	0.117		
Atrazine	µg/l	4	0.025	0.034	0.047						
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	10 ³ CFU/100 ml	11	0.014	86.881	920.000	1.200	24.000	2.367	0.090	314.671	1.467
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	9	0.002	105.384	920.000	0.260	203.200	1.467	0.023	472.000	0.003
Faecal Streptococci	10 ³ CFU/100 ml	6	0.033	0.622	1.600	0.217	1.600	0.572	0.350	0.065	1.600
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	/Prut	Catchment	27480 km ²	RO11
Distance from the mouth [km]	0.0	Altitude	5 m	
Location	Conf.Danube Giurgiulesti M			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	80.0	131.6	212.0	122.5	167.7	109.1	153.0	124.3	140.0
Temperature	°C	12	0.8	11.1	23.0	12.1	22.0	1.5	16.2	19.9	6.6
Suspended Solids	mg/l	12	14	81	158	71	145	86	59	90	87
Dissolved Oxygen	mg/l	12	6.8	8.4	12.9	7.7	6.9	7.2	7.4	7.9	11.2
pH	-	12	7.8	8.1	8.5	8.1	8.4	8.4	8.1	7.9	8.1
Conductivity @ 20°C	µS/cm	12	511	802	1184	790	1110	1108	653	629	819
Alkalinity	mmol/l	12	2.7	4.1	5.8	4.1	5.7	5.0	3.6	3.7	4.2
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.05	1.15	4.54	0.68	2.75	2.73	0.58	0.90	0.37
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.032	0.080	0.020	0.076	0.033	0.023	0.043	0.027
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.75	1.93	3.22	1.98	2.97	2.56	2.09	1.23	1.85
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.010	0.048	0.080	0.055	0.070	0.040	0.053	0.037	0.063
Total Phosphorus	mg/l	12	0.02	0.08	0.19	0.08	0.17	0.05	0.11	0.08	0.09
Sodium (Na ⁺)	mg/l	12	17.9	44.1	97.4	37.3	77.2	78.6	34.8	33.5	29.7
Potassium (K ⁺)	mg/l	12	3.0	8.1	14.4	8.1	13.6	12.9	7.6	7.4	4.5
Calcium (Ca ²⁺)	mg/l	12	55.4	84.7	127.0	76.5	122.4	113.9	76.2	60.0	88.6
Magnesium (Mg ²⁺)	mg/l	12	16.8	27.7	49.6	26.7	35.6	28.5	28.2	21.2	32.9
Chloride (Cl ⁻)	mg/l	12	34	76	158	68	138	129	66	52	58
Sulphate (SO ₄ ²⁻)	mg/l	12	48	123	172	121	170	151	130	89	120
Iron (Fe)	mg/l	12	0.680	1.303	1.770	1.325	1.708	1.150	1.420	1.240	1.400
Manganese (Mn)	mg/l	12	0.023	0.119	0.252	0.116	0.234	0.100	0.125	0.187	0.064
Zinc (Zn)	µg/l	12	13.0	43.3	171.0	27.5	65.8	17.3	36.7	73.3	45.7
Copper (Cu)	µg/l	12	3.0	19.7	44.0	19.5	29.6	22.8	12.5	18.3	25.0
Chromium (Cr) - total	µg/l	12	2.0	11.3	19.6	12.3	15.9	15.8	9.1	7.3	13.0
Lead (Pb)	µg/l	12	3.7	27.9	66.0	22.0	49.7	11.8	28.9	37.7	33.0
Cadmium (Cd)	µg/l	12	0.05	5.43	43.00	1.28	8.36	1.52	1.99	3.24	14.98
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l										
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	4.2	5.0	6.4	4.9	6.1	5.7	5.1	4.4	4.9
COD _{Cr}	mg/l	12	14.2	29.5	62.0	25.0	54.5	55.7	19.1	18.4	24.9
COD _{Mn}	mg/l	12	5.1	7.5	9.3	7.4	9.2	8.9	6.2	7.0	7.7
DOC	mg/l										
Phenol index	mg/l	12	0.005	0.007	0.008	0.007	0.008	0.008	0.005	0.008	0.006
Anionic active surfactants	mg/l	12	0.040	0.110	0.180	0.115	0.130	0.147	0.120	0.103	0.070
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	6	0.010	0.049	0.129	0.031	0.106	0.024	0.074		
pp'DDT	µg/l	6	0.011	0.069	0.302	0.021	0.174	0.012	0.125		
Atrazine	µg/l	4	0.031	0.053	0.069						
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	10 ³ CFU/100 ml	11	0.020	4.846	24.000	0.540	16.000	0.177	8.407	8.607	0.870
Faecal Coliforms (44°C)	10 ³ CFU/100 ml	8	0.008	2.110	16.000	0.105	5.080	0.046	0.060	5.540	
Faecal Streptococci	10 ³ CFU/100 ml	8	0.002	0.022	0.070	0.019	0.045	0.036	0.010	0.013	0.023
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	580100 km ²	BG01
Distance from the mouth [km]	834.0	Altitude	27 m	
Location	Novo Selo harbour/ Pristol L			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	2369.0	5140.4	9279.0	5308.5	6569.5	4642.3	5202.3	3727.3	6989.7
Temperature	°C	12	1.9	14.7	26.7	17.0	23.2	7.5	19.9	22.3	9.2
Suspended Solids	mg/l	12	8	27	57	24	39	28	28	23	30
Dissolved Oxygen	mg/l	12	4.4	6.9	11.2	6.3	4.9	8.1	5.3	5.8	8.2
pH	-	12	7.5	8.0	8.4	8.1	8.2	8.2	8.1	7.7	8.1
Conductivity @ 20°C	µS/cm	12	313	356	395	353	393	343	360	354	366
Alkalinity	mmol/l	10	2.6	3.4	3.8	3.4	3.7	3.5	3.3	2.9	3.6
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.03	0.08	0.15	0.08	0.10	0.09	0.09	0.04	0.09
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.028	0.050	0.030	0.030	0.023	0.030	0.030	0.027
Nitrate-N (NO ₃ ⁻ -N)	mg/l	10	1.10	1.69	2.40	1.65	2.31	2.07	1.70	1.10	1.70
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.020	0.052	0.080	0.050	0.079	0.053	0.050	0.033	0.070
Total Phosphorus	mg/l	2	0.12	0.12	0.12						
Sodium (Na ⁺)	mg/l										
Potassium (K ⁺)	mg/l										
Calcium (Ca ²⁺)	mg/l	10	36.5	54.7	72.0	53.5	68.9	61.1	58.5	43.2	50.7
Magnesium (Mg ²⁺)	mg/l	10	9.6	13.0	20.4	12.1	16.5	15.4	11.6	12.4	12.1
Chloride (Cl ⁻)	mg/l	12	14	18	25	17	24	20	19	17	16
Sulphate (SO ₄ ²⁻)	mg/l	12	2	22	41	21	33	22	18	21	26
Iron (Fe)	mg/l	9	0.130	0.325	0.570	0.265	0.550	0.360	0.273	0.225	0.570
Manganese (Mn)	mg/l	9	0.030	0.058	0.106	0.050	0.091	0.087	0.040	0.035	0.070
Zinc (Zn)	µg/l	9	10.0	33.8	80.0	30.0	72.0	38.0	33.3	30.0	30.0
Copper (Cu)	µg/l	9	5.0	10.7	30.0	10.0	14.0	5.3	16.7	10.0	10.0
Chromium (Cr) - total	µg/l	9	5.0	5.0	5.0						
Lead (Pb)	µg/l	9	0.5	1.6	10.0	0.5	2.4	0.5	0.5	0.5	10.0
Cadmium (Cd)	µg/l	1	0.50	0.50	0.50						
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	9	2.5	2.5	2.5						
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	1.1	1.6	3.0	1.4	2.1	2.2	1.3	1.5	1.5
COD _{Cr}	mg/l	12	7.0	10.5	13.9	10.8	13.3	8.9	9.6	11.1	12.4
COD _{Mn}	mg/l	12	1.8	2.6	3.6	2.6	3.4	3.0	2.5	2.7	2.2
DOC	mg/l										
Phenol index	mg/l										
Anionic active surfactants	mg/l	1	0.025	0.025	0.025						
Petroleum hydrocarbons	mg/l	9	0.050	0.057	0.110	0.050	0.062		0.050	0.050	0.070
AOX	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										
Total Coliforms (37°C)	10 ³ CFU/100 ml	8	21.000	176.375	692.000	85.500	389.600		302.667	74.000	260.000
Faecal Coliforms (44°C)	10 ³ CFU/100 ml										
Faecal Streptococci	10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	10	0.6	2.8	7.1	1.2	7.1		1.1	3.2	3.6

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	580100 km ²	BG01
Distance from the mouth [km]	834.0	Altitude	27 m	
Location	Novo Selo harbour/ Pristol M			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s										
Temperature	°C	12	2.2	14.5	26.8	15.9	23.1	7.5	18.7	22.6	9.3
Suspended Solids	mg/l	12	10	23	38	20	37	25	25	16	24
Dissolved Oxygen	mg/l	12	4.3	6.6	11.6	5.8	4.5	7.5	5.0	5.5	8.3
pH	-	12	7.5	7.9	8.4	8.0	8.3	8.2	8.0	7.6	8.0
Conductivity @ 20°C	µS/cm	12	311	352	389	352	387	338	352	353	366
Alkalinity	mmol/l	10	2.7	3.3	3.8	3.4	3.7	3.5	3.1	2.9	3.6
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.03	0.07	0.11	0.07	0.11	0.08	0.07	0.05	0.09
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.028	0.070	0.020	0.039	0.020	0.023	0.043	0.023
Nitrate-N (NO ₃ ⁻ -N)	mg/l	10	0.90	1.72	2.70	1.75	2.16	2.13	1.77	0.95	1.80
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.020	0.063	0.110	0.070	0.080	0.067	0.050	0.063	0.070
Total Phosphorus	mg/l	2	0.10	0.10	0.10						
Sodium (Na ⁺)	mg/l										
Potassium (K ⁺)	mg/l										
Calcium (Ca ²⁺)	mg/l	10	35.8	54.2	68.2	55.0	64.5	62.3	56.1	42.8	50.8
Magnesium (Mg ²⁺)	mg/l	10	9.6	12.9	17.9	12.1	16.4	14.6	13.2	11.5	11.1
Chloride (Cl ⁻)	mg/l	12	12	17	26	17	21	17	20	17	16
Sulphate (SO ₄ ²⁻)	mg/l	12	8	22	39	20	33	22	17	22	27
Iron (Fe)	mg/l	9	0.160	0.377	0.890	0.250	0.578	0.395	0.443	0.190	0.500
Manganese (Mn)	mg/l	9	0.030	0.059	0.117	0.050	0.095	0.093	0.043	0.030	0.060
Zinc (Zn)	µg/l	9	10.0	21.9	51.0	20.0	34.2	29.0	13.3	25.0	20.0
Copper (Cu)	µg/l	9	5.0	9.4	20.0	10.0	12.0	5.0	13.3	10.0	10.0
Chromium (Cr) - total	µg/l	9	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Lead (Pb)	µg/l	9	0.5	1.6	10.0	0.5	2.4	0.5	0.5	0.5	10.0
Cadmium (Cd)	µg/l	1	0.50	0.50	0.50						
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	9	2.5	2.5	2.5						
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	0.9	1.5	3.1	1.4	2.3	2.2	1.1	1.4	1.4
COD _{Cr}	mg/l	12	7.6	10.1	14.0	10.3	12.5	8.4	10.0	10.5	11.6
COD _{Mn}	mg/l	12	1.6	2.5	3.8	2.2	3.6	3.0	2.1	2.6	2.2
DOC	mg/l										
Phenol index	mg/l										
Anionic active surfactants	mg/l	1	0.050	0.050	0.050						
Petroleum hydrocarbons	mg/l	9	0.050	0.050	0.050						
AOX	µg/l										
Lindane	µg/l										
pp'DDT	µg/l	3	0.054	0.063	0.071						
Atrazine	µg/l	3	0.250	0.727	1.550						
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	10 ³ CFU/100 ml	9	8.000	223.238	692.000	176.375	450.080		296.458	237.550	212.222
Faecal Coliforms (44°C)	10 ³ CFU/100 ml										
Faecal Streptococci	10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	9	0.6	4.1	10.0	3.2	7.7		3.5	4.1	2.6

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	580100 km ²	BG01
Distance from the mouth [km]	834.0	Altitude	27 m	
Location	Novo Selo harbour/ Pristol R			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s										
Temperature	°C	12	2.1	14.7	26.0	16.4	23.1	7.7	19.0	22.8	9.3
Suspended Solids	mg/l	12	12	24	31	25	30	27	29	19	20
Dissolved Oxygen	mg/l	12	4.3	6.6	11.7	5.9	4.6	7.4	5.3	5.6	8.0
pH	-	12	7.5	8.0	8.4	8.0	8.3	8.2	8.0	7.6	8.0
Conductivity @ 20°C	µS/cm	12	309	357	392	359	391	335	362	359	369
Alkalinity	mmol/l	10	2.7	3.3	3.6	3.5	3.6	3.5	3.2	2.9	3.6
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.03	0.08	0.12	0.08	0.12	0.11	0.07	0.05	0.09
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.020	0.032	0.060	0.030	0.040	0.027	0.033	0.040	0.027
Nitrate-N (NO ₃ ⁻ -N)	mg/l	10	1.00	1.90	3.00	1.80	2.64	2.67	1.73	1.10	1.80
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.040	0.084	0.160	0.075	0.119	0.087	0.083	0.097	0.070
Total Phosphorus	mg/l	2	0.11	0.12	0.13						
Sodium (Na ⁺)	mg/l										
Potassium (K ⁺)	mg/l										
Calcium (Ca ²⁺)	mg/l	10	39.9	57.7	77.9	57.1	70.6	67.8	59.9	45.7	51.0
Magnesium (Mg ²⁺)	mg/l	10	9.2	12.4	15.2	12.1	14.8	12.1	12.4	12.3	13.3
Chloride (Cl ⁻)	mg/l	12	11	17	23	17	22	17	19	16	15
Sulphate (SO ₄ ²⁻)	mg/l	12	4	29	69	25	47	25	22	29	40
Iron (Fe)	mg/l	9	0.130	0.392	0.649	0.420	0.548	0.474	0.353	0.270	0.510
Manganese (Mn)	mg/l	9	0.030	0.062	0.128	0.050	0.101	0.104	0.047	0.030	0.050
Zinc (Zn)	µg/l	9	8.0	20.7	46.0	20.0	33.2	25.3	13.3	25.0	20.0
Copper (Cu)	µg/l	9	5.0	11.4	20.0	10.0	20.0	7.7	16.7	10.0	10.0
Chromium (Cr) - total	µg/l	9	5.0	5.0	5.0						
Lead (Pb)	µg/l	9	0.5	0.5	0.5						
Cadmium (Cd)	µg/l	1	0.50	0.50	0.50						
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	9	2.5	2.5	2.5						
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	1.0	1.6	3.4	1.4	2.3	2.3	1.2	1.2	1.6
COD _{Cr}	mg/l	12	6.9	10.1	14.8	10.4	11.7	9.0	9.2	11.0	11.1
COD _{Mn}	mg/l	12	1.9	2.4	3.9	2.3	2.8	3.0	2.1	2.2	2.2
DOC	mg/l										
Phenol index	mg/l										
Anionic active surfactants	mg/l	1	0.025	0.025	0.025						
Petroleum hydrocarbons	mg/l	9	0.050	0.062	0.160	0.050	0.072		0.050	0.050	0.087
AOX	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										
Total Coliforms (37°C)	10 ³ CFU/100 ml	7	20.000	65.000	160.000	37.000	126.400		35.000	95.667	78.000
Faecal Coliforms (44°C)	10 ³ CFU/100 ml										
Faecal Streptococci	10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	608820 km ²	BG02
Distance from the mouth [km]	641.0	Altitude	20 m	
Location	us.Iskar-Bajkal R			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s										
Temperature	°C	10	2.2	16.1	26.3	16.4	24.4	5.8	17.6	23.5	10.8
Suspended Solids	mg/l	10	12	28	47	28	41	38	27	32	23
Dissolved Oxygen	mg/l	10	4.9	6.9	10.3	6.9	5.8	7.2	7.4	6.8	6.5
pH	-	10	7.7	8.0	8.4	8.1	8.2	8.4	7.9	8.0	8.0
Conductivity @ 20°C	µS/cm	10	305	347	387	347	384	305	340	343	373
Alkalinity	mmol/l	6	3.1	3.3	3.4	3.3	3.4	3.4	3.1	3.2	3.4
Ammonium-N (NH ₄ ⁺ -N)	mg/l	10	0.05	0.12	0.23	0.11	0.19	0.10	0.17	0.05	0.15
Nitrite-N (NO ₂ ⁻ -N)	mg/l	10	0.010	0.032	0.070	0.020	0.061	0.020	0.027	0.027	0.047
Nitrate-N (NO ₃ ⁻ -N)	mg/l	10	1.10	2.30	4.80	2.15	3.27	4.80	1.97	1.20	2.90
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	10	0.070	0.342	0.640	0.280	0.631	0.260	0.180	0.427	0.447
Total Phosphorus	mg/l										
Sodium (Na ⁺)	mg/l										
Potassium (K ⁺)	mg/l										
Calcium (Ca ²⁺)	mg/l	5	39.5	53.4	75.4	49.8	69.9	75.4		43.4	61.6
Magnesium (Mg ²⁺)	mg/l	5	7.5	12.2	17.0	11.6	15.6	11.3		14.0	7.5
Chloride (Cl ⁻)	mg/l	10	11	21	49	16	35	33	15	27	15
Sulphate (SO ₄ ²⁻)	mg/l	10	21	30	36	32	35	32	23	33	33
Iron (Fe)	mg/l	4	0.380	0.419	0.500						
Manganese (Mn)	mg/l	4	0.030	0.057	0.118						
Zinc (Zn)	µg/l	4	10.0	25.5	50.0						
Copper (Cu)	µg/l	4	5.0	19.0	51.0						
Chromium (Cr) - total	µg/l	4	5.0	5.0	5.0						
Lead (Pb)	µg/l	4	0.5	5.4	20.0						
Cadmium (Cd)	µg/l										
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	4	2.5	2.5	2.5						
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	10	1.3	2.2	4.7	1.9	2.8	4.7	2.0	1.8	2.0
COD _{Cr}	mg/l	9	6.2	9.4	13.7	8.8	11.9	7.6	11.0	7.9	10.2
COD _{Mn}	mg/l	10	1.4	2.4	3.2	2.3	3.0	2.1	2.7	2.2	2.3
DOC	mg/l										
Phenol index	mg/l										
Anionic active surfactants	mg/l	3	0.025	0.025	0.025						
Petroleum hydrocarbons	mg/l	7	0.050	0.119	0.530	0.050	0.242		0.050	0.210	0.050
AOX	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										
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										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	698600 km ²	BG05
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Distance from the mouth [km] 375.0

Altitude

7 m

Location

Silistra/Chiciu L

1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	3422.0	6033.2	10226.0	6427.0	7073.6	5868.0	5857.3	4564.7	7842.7
Temperature	°C	11	1.6	14.8	26.4	16.9	23.7	6.3	18.2	23.4	8.6
Suspended Solids	mg/l	11	12	57	212	36	140	124	41	59	27
Dissolved Oxygen	mg/l	11	6.0	8.6	14.8	7.4	6.2	9.7	7.6	6.9	10.6
pH	-	11	7.2	7.6	8.0	7.6	7.9	7.7	7.7	7.3	7.8
Conductivity @ 20°C	µS/cm	11	343	407	471	400	466	469	394	383	403
Alkalinity	mmol/l	11	3.1	3.3	3.8	3.3	3.5	3.4	3.3	3.1	3.5
Ammonium-N (NH ₄ ⁺ -N)	mg/l	11	0.11	0.53	1.36	0.44	0.97	0.50	0.27	0.93	0.41
Nitrite-N (NO ₂ ⁻ -N)	mg/l	11	0.006	0.020	0.042	0.015	0.041	0.031	0.011	0.018	0.025
Nitrate-N (NO ₃ ⁻ -N)	mg/l	11	0.50	1.45	2.30	1.30	2.20	2.25	1.20	0.93	1.67
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	11	0.050	0.089	0.180	0.070	0.160	0.170	0.067	0.087	0.060
Total Phosphorus	mg/l										
Sodium (Na ⁺)	mg/l										
Potassium (K ⁺)	mg/l										
Calcium (Ca ²⁺)	mg/l	11	44.7	59.9	79.3	60.8	64.0	71.7	60.8	53.5	57.7
Magnesium (Mg ²⁺)	mg/l	11	10.1	19.5	26.8	18.2	26.7	22.9	19.4	15.5	21.3
Chloride (Cl ⁻)	mg/l	11	24	30	36	30	32	33	31	30	27
Sulphate (SO ₄ ²⁻)	mg/l	11	19	34	52	30	46	49	30	29	32
Iron (Fe)	mg/l	9	0.251	0.454	0.992	0.355	0.874	0.370	0.297	0.323	0.719
Manganese (Mn)	mg/l	9	0.030	0.050	0.122	0.043	0.062	0.030	0.044	0.041	0.069
Zinc (Zn)	µg/l	9	13.0	51.4	112.0	52.0	72.8	63.0	14.5	52.3	71.3
Copper (Cu)	µg/l	9	4.0	16.9	26.0	21.0	22.8	21.0	19.5	11.7	19.0
Chromium (Cr) - total	µg/l	11	5.0	5.0	5.0						
Lead (Pb)	µg/l	9	0.5	6.9	10.0	8.0	8.4	8.0	9.0	6.7	5.5
Cadmium (Cd)	µg/l	9	0.50	0.50	0.50						
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	9	1.0	3.2	5.0	5.0	5.0	1.0	1.0	3.7	5.0
Arsenic (As)	µg/l	9	0.2	0.2	0.2						
Aluminium (Al)	µg/l										
BOD ₅	mg/l	11	1.9	3.2	5.6	2.8	4.6	3.5	3.9	3.1	2.3
COD _{Cr}	mg/l	11	10.7	16.3	29.2	14.4	28.3	22.5	14.1	18.5	12.2
COD _{Mn}	mg/l	11	3.4	4.6	6.9	4.2	5.7	5.4	4.0	4.4	4.9
DOC	mg/l										
Phenol index	mg/l	11	5.000	5.000	5.000						
Anionic active surfactants	mg/l	11	0.025	0.025	0.025						
Petroleum hydrocarbons	mg/l	11	0.050	0.122	0.270	0.120	0.230	0.050	0.183	0.147	0.083
AOX	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										
Total Coliforms (37°C)	10 ³ CFU/100 ml	8	10.000	73.875	335.000	32.500	153.700	32.500	205.000	15.000	43.000
Faecal Coliforms (44°C)	10 ³ CFU/100 ml										
Faecal Streptococci	10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	8	0.6	6.0	11.8	7.1	10.2	0.9	4.7	7.7	10.7

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	698600 km ²	BG05
Distance from the mouth [km]	375.0	Altitude	7 m	
Location	Silistra/Chiciu M			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s										
Temperature	°C	11	1.7	14.8	26.4	16.9	23.5	6.4	18.2	23.2	8.6
Suspended Solids	mg/l	11	16	43	154	28	58	91	34	35	28
Dissolved Oxygen	mg/l	11	6.7	9.1	14.8	7.9	6.7	9.8	8.1	7.7	10.9
pH	-	11	7.0	7.6	7.9	7.6	7.9	7.7	7.9	7.2	7.6
Conductivity @ 20°C	µS/cm	11	319	387	451	384	439	430	383	374	375
Alkalinity	mmol/l	11	2.6	3.2	3.7	3.2	3.6	3.6	3.2	2.9	3.3
Ammonium-N (NH ₄ ⁺ -N)	mg/l	11	0.10	0.49	1.44	0.37	0.93	0.37	0.29	0.94	0.31
Nitrite-N (NO ₂ ⁻ -N)	mg/l	11	0.002	0.017	0.045	0.014	0.030	0.033	0.009	0.008	0.022
Nitrate-N (NO ₃ ⁻ -N)	mg/l	11	0.50	1.41	2.10	1.40	2.10	1.95	1.23	0.87	1.77
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	11	0.020	0.078	0.250	0.060	0.160	0.205	0.060	0.037	0.053
Total Phosphorus	mg/l										
Sodium (Na ⁺)	mg/l										
Potassium (K ⁺)	mg/l										
Calcium (Ca ²⁺)	mg/l	11	44.4	58.4	70.5	57.9	67.2	68.9	58.7	51.2	58.4
Magnesium (Mg ²⁺)	mg/l	11	13.7	20.4	29.9	21.3	29.1	21.4	25.5	15.0	20.1
Chloride (Cl ⁻)	mg/l	11	21	30	50	30	31	40	27	30	26
Sulphate (SO ₄ ²⁻)	mg/l	11	23	33	45	30	45	44	30	26	35
Iron (Fe)	mg/l	9	0.165	0.365	0.844	0.320	0.473	0.380	0.333	0.256	0.492
Manganese (Mn)	mg/l	9	0.023	0.048	0.118	0.042	0.070	0.032	0.043	0.041	0.065
Zinc (Zn)	µg/l	9	8.0	49.6	117.0	48.0	87.4	80.0	9.0	56.3	59.7
Copper (Cu)	µg/l	9	2.0	14.2	24.0	15.0	23.2	18.0	17.5	9.7	15.3
Chromium (Cr) - total	µg/l	11	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Lead (Pb)	µg/l	9	0.5	7.3	11.0	8.0	10.2	8.0	10.5	6.7	5.5
Cadmium (Cd)	µg/l	9	0.50	0.50	0.50						
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	9	1.0	3.3	6.0	5.0	5.2	1.0	1.0	4.0	5.0
Arsenic (As)	µg/l	9	0.2	0.2	0.2						
Aluminium (Al)	µg/l										
BOD ₅	mg/l	11	1.8	2.7	3.7	2.6	3.4	3.0	2.8	2.7	2.5
COD _{Cr}	mg/l	11	11.1	16.2	30.5	13.6	28.4	23.4	13.6	18.1	12.0
COD _{Mn}	mg/l	11	3.4	4.5	7.5	4.0	5.5	5.6	3.7	4.3	4.6
DOC	mg/l										
Phenol index	mg/l	11	5.000	5.000	5.000						
Anionic active surfactants	mg/l	11	0.025	0.025	0.025						
Petroleum hydrocarbons	mg/l	11	0.050	0.122	0.430	0.050	0.330	0.050	0.167	0.197	0.050
AOX	µg/l										
Lindane	µg/l										
pp'DDT	µg/l	3	0.030	0.035	0.041						
Atrazine	µg/l	3	0.450	1.207	2.500						
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	10 ³ CFU/100 ml	7	16.000	43.000	115.000	34.000	82.000		74.500	29.000	18.000
Faecal Coliforms (44°C)	10 ³ CFU/100 ml										
Faecal Streptococci	10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	8	0.6	5.3	21.3	2.7	11.4		2.7	12.7	4.1

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	698600 km ²	BG05
Distance from the mouth [km]	375.0	Altitude	7 m	
Location	Silistra/Chiciu R			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s										
Temperature	°C	11	2.0	14.8	26.4	17.2	23.6	6.3	18.1	23.3	8.8
Suspended Solids	mg/l	11	20	59	216	34	120	130	22	63	45
Dissolved Oxygen	mg/l	11	4.6	8.3	14.8	7.4	6.6	9.2	6.2	7.3	10.9
pH	-	11	7.1	7.6	8.0	7.6	8.0	7.6	7.9	7.3	7.5
Conductivity @ 20°C	µS/cm	11	332	392	445	386	438	423	378	385	393
Alkalinity	mmol/l	11	3.0	3.4	4.4	3.3	3.9	4.2	3.2	3.0	3.4
Ammonium-N (NH ₄ ⁺ -N)	mg/l	11	0.11	0.51	1.58	0.38	1.15	0.45	0.18	1.07	0.31
Nitrite-N (NO ₂ ⁻ -N)	mg/l	11	0.002	0.016	0.036	0.013	0.026	0.030	0.009	0.009	0.020
Nitrate-N (NO ₃ ⁻ -N)	mg/l	11	1.00	1.48	2.10	1.50	1.90	2.00	1.20	1.20	1.70
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	11	0.040	0.106	0.280	0.080	0.180	0.230	0.073	0.107	0.057
Total Phosphorus	mg/l										
Sodium (Na ⁺)	mg/l										
Potassium (K ⁺)	mg/l										
Calcium (Ca ²⁺)	mg/l	11	49.2	60.5	70.5	59.2	67.2	67.3	63.5	53.3	60.2
Magnesium (Mg ²⁺)	mg/l	11	10.7	20.6	40.6	18.0	27.2	15.8	25.5	15.5	23.9
Chloride (Cl ⁻)	mg/l	11	23	29	35	28	31	28	27	32	28
Sulphate (SO ₄ ²⁻)	mg/l	11	23	33	49	29	45	47	29	26	34
Iron (Fe)	mg/l	9	0.218	0.527	1.148	0.347	0.990	0.790	0.267	0.333	0.805
Manganese (Mn)	mg/l	9	0.028	0.050	0.088	0.047	0.073	0.054	0.050	0.046	0.055
Zinc (Zn)	µg/l	9	14.0	47.4	83.0	39.0	79.0	78.0	26.0	59.0	40.0
Copper (Cu)	µg/l	9	3.0	17.3	31.0	22.0	27.8	31.0	23.0	11.3	15.0
Chromium (Cr) - total	µg/l	11	5.0	5.0	5.0						
Lead (Pb)	µg/l	9	0.5	7.5	13.0	8.0	10.6	8.0	11.5	6.7	5.5
Cadmium (Cd)	µg/l	9	0.50	0.50	0.50						
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	9	1.0	2.8	5.0	1.0	5.0	1.0	1.0	2.3	5.0
Arsenic (As)	µg/l	9	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Aluminium (Al)	µg/l										
BOD ₅	mg/l	11	1.6	2.9	4.2	3.0	4.1	3.7	3.1	3.0	2.2
COD _{Cr}	mg/l	11	11.6	17.4	32.0	14.8	31.8	24.5	14.1	20.4	12.9
COD _{Mn}	mg/l	11	3.6	4.7	8.0	4.5	5.3	5.8	4.0	4.2	5.0
DOC	mg/l										
Phenol index	mg/l	11	5.000	5.000	5.000						
Anionic active surfactants	mg/l	11	0.025	0.025	0.025						
Petroleum hydrocarbons	mg/l	11	0.050	0.133	0.340	0.050	0.310	0.050	0.203	0.200	0.050
AOX	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										
Total Coliforms (37°C)	10 ³ CFU/100 ml	8	14.000	24.000	40.000	21.500	37.900	27.500	27.000	23.000	18.500
Faecal Coliforms (44°C)	10 ³ CFU/100 ml										
Faecal Streptococci	10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	8	1.2	6.4	18.9	5.3	11.5	6.2	1.8	4.1	13.6

* in case of dissolved oxygen C10 was calculated

River	/Iskar	Catchment	8370 km ²	BG06
Distance from the mouth [km]	28.0	Altitude	31 m	
Location	Orechovica M			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s										
Temperature	°C	9	2.1	17.0	23.8	17.6	23.5		18.5	21.5	10.9
Suspended Solids	mg/l	9	10	29	50	31	43		24	41	21
Dissolved Oxygen	mg/l	9	5.0	6.8	8.5	6.8	5.2		6.0	7.3	7.0
pH	-	9	7.8	8.1	8.5	8.1	8.3		7.9	8.3	8.1
Conductivity @ 20°C	µS/cm	9	313	411	498	418	468		389	433	412
Alkalinity	mmol/l	5	3.0	3.3	3.7	3.3	3.7		3.3	3.3	3.6
Ammonium-N (NH ₄ ⁺ -N)	mg/l	9	0.03	0.13	0.27	0.11	0.21		0.21	0.10	0.07
Nitrite-N (NO ₂ ⁻ -N)	mg/l	9	0.012	0.034	0.050	0.030	0.050		0.027	0.040	0.034
Nitrate-N (NO ₃ ⁻ -N)	mg/l	8	1.30	2.11	3.30	1.80	3.16		2.10	1.50	3.05
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	9	0.060	0.636	1.120	0.580	1.072		0.303	1.060	0.543
Total Phosphorus	mg/l										
Sodium (Na ⁺)	mg/l										
Potassium (K ⁺)	mg/l										
Calcium (Ca ²⁺)	mg/l	4	42.4	50.6	63.2						
Magnesium (Mg ²⁺)	mg/l	4	12.2	15.6	20.3						
Chloride (Cl ⁻)	mg/l	9	15	26	91	18	36		17	42	18
Sulphate (SO ₄ ²⁻)	mg/l	9	29	53	76	52	73		44	66	50
Iron (Fe)	mg/l	3	0.210	0.637	1.470						
Manganese (Mn)	mg/l	3	0.060	0.087	0.120						
Zinc (Zn)	µg/l	3	50.0	80.0	140.0						
Copper (Cu)	µg/l	3	10.0	26.7	50.0						
Chromium (Cr) - total	µg/l	3	5.0	5.0	5.0						
Lead (Pb)	µg/l	3	10.0	20.0	30.0						
Cadmium (Cd)	µg/l	3	2.50	2.50	2.50						
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l										
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	9	1.8	2.6	4.6	2.0	4.2		3.0	2.6	2.2
COD _{Cr}	mg/l	8	7.2	12.9	25.5	11.3	17.8		10.9	14.5	13.7
COD _{Mn}	mg/l	9	2.4	3.5	5.1	3.1	4.8		4.1	3.4	2.8
DOC	mg/l										
Phenol index	mg/l										
Anionic active surfactants	mg/l										
Petroleum hydrocarbons	mg/l	9	0.050	0.056	0.100	0.050	0.060		0.050	0.050	0.067
AOX	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										
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										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	805700 km ²	UA01
Distance from the mouth [km]	132.0	Altitude	4 m	

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s										
Temperature	°C	12	1.9	12.2	24.0	13.0	20.0	5.4	12.2	21.3	9.8
Suspended Solids	mg/l	12	50	134	287	96	268	190	110	71	164
Dissolved Oxygen	mg/l	12	7.6	9.2	12.0	8.6	7.7	8.9	7.8	9.1	10.8
pH	-	12	7.9	8.0	8.1	8.0	8.0	7.9	8.0	8.0	8.0
Conductivity @ 20°C	µS/cm										
Alkalinity	mmol/l										
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.02	0.29	2.28	0.11	0.27	0.80	0.08	0.12	0.17
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.001	0.049	0.230	0.021	0.126	0.104	0.023	0.055	0.014
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.08	1.15	1.98	1.17	1.73	1.78	1.22	0.68	0.93
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l										
Total Phosphorus	mg/l	12	0.02	0.12	0.21	0.12	0.21	0.10	0.07	0.12	0.19
Sodium (Na ⁺)	mg/l	12	21.2	43.8	57.0	43.8	56.9	49.4	36.4	36.1	53.3
Potassium (K ⁺)	mg/l										
Calcium (Ca ²⁺)	mg/l	12	38.2	44.5	51.8	43.3	50.6	43.6	48.9	42.7	42.6
Magnesium (Mg ²⁺)	mg/l	12	9.4	16.2	27.6	14.5	23.0	21.0	18.0	12.8	13.0
Chloride (Cl ⁻)	mg/l	12	27	31	35	31	34	32	32	31	29
Sulphate (SO ₄ ²⁻)	mg/l	12	39	53	66	54	63	63	55	41	53
Iron (Fe)	mg/l	12	0.070	0.123	0.350	0.105	0.138	0.093	0.097	0.117	0.183
Manganese (Mn)	mg/l	12	0.009	0.056	0.203	0.037	0.095	0.100	0.049	0.026	0.049
Zinc (Zn)	µg/l	12	15.0	56.4	264.0	27.0	148.0	101.7	71.0	20.0	33.0
Copper (Cu)	µg/l	11	0.8	11.4	26.0	8.4	24.0	20.1	6.4	6.0	11.3
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										
BOD ₅	mg/l	12	1.6	2.5	4.1	2.3	3.9	2.1	1.7	2.9	3.3
COD _{Cr}	mg/l	12	5.3	11.4	32.6	8.6	14.7	19.7	6.9	9.9	9.0
COD _{Mn}	mg/l	12	2.2	3.8	6.6	3.6	5.0	3.6	2.9	4.3	4.4
DOC	mg/l										
Phenol index	mg/l	12	0.002	0.004	0.006	0.003	0.006	0.004	0.005	0.003	0.003
Anionic active surfactants	mg/l	9	0.005	0.018	0.050	0.010	0.042	0.012		0.032	0.012
Petroleum hydrocarbons	mg/l										
AOX	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										
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										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	817000 km ²	UA02
Distance from the mouth [km]	18.0	Altitude	1 m	
Location	Vilkova-Kilia arm/Chilia arm			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s										
Temperature	°C	12	1.8	12.1	24.6	13.0	19.2	5.5	12.3	20.9	9.7
Suspended Solids	mg/l	12	53	123	182	120	178	131	122	98	140
Dissolved Oxygen	mg/l	12	6.5	9.4	12.1	9.3	8.1	9.8	8.4	8.7	10.7
pH	-	12	7.9	8.0	8.1	8.0	8.0	7.9	8.0	8.0	8.0
Conductivity @ 20°C	µS/cm										
Alkalinity	mmol/l										
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.02	0.21	0.75	0.13	0.43	0.09	0.10	0.38	0.29
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.002	0.040	0.090	0.031	0.079	0.045	0.037	0.036	0.042
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.43	1.21	2.48	1.15	1.74	1.86	1.02	0.84	1.10
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l										
Total Phosphorus	mg/l	12	0.04	0.14	0.37	0.11	0.24	0.12	0.09	0.11	0.24
Sodium (Na ⁺)	mg/l	12	17.0	41.9	56.5	43.8	55.0	44.9	36.4	35.6	50.8
Potassium (K ⁺)	mg/l										
Calcium (Ca ²⁺)	mg/l	12	39.4	44.9	51.8	43.3	50.5	43.6	49.3	42.7	44.0
Magnesium (Mg ²⁺)	mg/l	12	9.4	15.1	27.6	13.6	22.3	21.0	13.5	12.8	13.3
Chloride (Cl ⁻)	mg/l	12	27	31	35	31	34	33	32	31	29
Sulphate (SO ₄ ²⁻)	mg/l	12	40	50	62	52	61	55	55	40	52
Iron (Fe)	mg/l	12	0.040	0.242	1.360	0.090	0.636	0.090	0.307	0.060	0.510
Manganese (Mn)	mg/l	4	0.010	0.061	0.128	0.053	0.110		0.053	0.010	0.128
Zinc (Zn)	µg/l	8	0.5	26.9	75.0	14.8	67.3		40.2	10.0	32.3
Copper (Cu)	µg/l	8	0.3	3.3	8.8	0.7	8.2		2.9	3.1	4.1
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										
BOD ₅	mg/l	12	1.3	2.3	4.0	2.0	3.2	2.1	1.8	2.1	3.2
COD _{Cr}	mg/l	12	6.7	10.3	21.3	9.0	15.1	16.4	8.0	7.9	8.8
COD _{Mn}	mg/l	12	1.1	3.9	6.1	3.7	5.6	4.0	2.8	4.1	4.6
DOC	mg/l										
Phenol index	mg/l	12	0.002	0.005	0.008	0.004	0.008	0.004	0.006	0.004	0.004
Anionic active surfactants	mg/l	12	0.005	0.008	0.020	0.005	0.019	0.005	0.005	0.005	0.015
Petroleum hydrocarbons	mg/l										
AOX	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										
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										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	/Prut	Catchment	8750 km ²	MD01
Distance from the mouth [km]	658.0	Altitude	100 m	
Location	Lipcani L			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	2	55.3	57.2	59.1						
Temperature	°C	2	6.4	12.9	19.4						
Suspended Solids	mg/l	2	10	19	28						
Dissolved Oxygen	mg/l	2	11.4	11.9	12.4						
pH	-	2	8.2	8.2	8.2						
Conductivity @ 20°C	µS/cm										
Alkalinity	mmol/l	2	3.2	3.4	3.6						
Ammonium-N (NH ₄ ⁺ -N)	mg/l	2	0.30	0.39	0.47						
Nitrite-N (NO ₂ ⁻ -N)	mg/l	2	0.020	0.025	0.030						
Nitrate-N (NO ₃ ⁻ -N)	mg/l	2	3.92	4.80	5.67						
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	2	0.030	0.035	0.040						
Total Phosphorus	mg/l	2	0.07	0.07	0.07						
Sodium (Na ⁺)	mg/l										
Potassium (K ⁺)	mg/l										
Calcium (Ca ²⁺)	mg/l	2	76.4	80.5	84.6						
Magnesium (Mg ²⁺)	mg/l	2	9.4	13.9	18.5						
Chloride (Cl ⁻)	mg/l	2	35	35	35						
Sulphate (SO ₄ ²⁻)	mg/l	2	81	90	98						
Iron (Fe)	mg/l	2	0.020	0.050	0.080						
Manganese (Mn)	mg/l										
Zinc (Zn)	µg/l	2	3.0	6.5	10.0						
Copper (Cu)	µg/l	2	3.0	6.5	10.0						
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										
BOD ₅	mg/l	2	1.1	1.6	2.1						
COD _{Cr}	mg/l	2	11.0	11.3	11.5						
COD _{Mn}	mg/l										
DOC	mg/l										
Phenol index	mg/l	2	0.001	0.001	0.001						
Anionic active surfactants	mg/l	2	0.020	0.030	0.040						
Petroleum hydrocarbons	mg/l	2	0.025	0.025	0.025						
AOX	µg/l										
Lindane	µg/l	2	0.025	0.025	0.025						
pp'DDT	µg/l	2	0.025	0.025	0.025						
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
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										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	/Prut	Catchment	21890 km ²	MD02
Distance from the mouth [km]	292.0	Altitude	19 m	
Location	Leuseni M			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s										
Temperature	°C	3	2.0	13.5	23.6						
Suspended Solids	mg/l	3	23	744	2010						
Dissolved Oxygen	mg/l	3	7.2	8.4	10.1						
pH	-	3	8.1	8.2	8.3						
Conductivity @ 20°C	µS/cm										
Alkalinity	mmol/l	3	3.4	4.0	4.7						
Ammonium-N (NH ₄ ⁺ -N)	mg/l	3	0.37	0.60	0.85						
Nitrite-N (NO ₂ ⁻ -N)	mg/l	3	0.040	0.143	0.340						
Nitrate-N (NO ₃ ⁻ -N)	mg/l	3	3.34	5.80	8.76						
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	3	0.040	0.060	0.080						
Total Phosphorus	mg/l	3	0.07	0.11	0.14						
Sodium (Na ⁺)	mg/l										
Potassium (K ⁺)	mg/l										
Calcium (Ca ²⁺)	mg/l	3	49.7	61.2	68.7						
Magnesium (Mg ²⁺)	mg/l	3	20.8	26.3	35.0						
Chloride (Cl ⁻)	mg/l	3	24	33	39						
Sulphate (SO ₄ ²⁻)	mg/l	3	85	151	270						
Iron (Fe)	mg/l	3	0.040	0.073	0.100						
Manganese (Mn)	mg/l										
Zinc (Zn)	µg/l	3	1.5	5.2	10.0						
Copper (Cu)	µg/l	3	3.0	5.7	10.0						
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										
BOD ₅	mg/l	3	2.1	3.8	6.4						
COD _{Cr}	mg/l	3	10.6	11.3	11.7						
COD _{Mn}	mg/l										
DOC	mg/l										
Phenol index	mg/l	3	0.001	0.001	0.001						
Anionic active surfactants	mg/l	3	0.005	0.010	0.020						
Petroleum hydrocarbons	mg/l	3	0.025	0.025	0.025						
AOX	µg/l										
Lindane	µg/l	3	0.025	0.025	0.025						
pp'DDT	µg/l	3	0.025	0.025	0.025						
Atrazine	µg/l	3	0.500	0.500	0.500						
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
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										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	/Prut	Catchment	27480 km ²	MD03
Distance from the mouth [km]	0.0	Altitude	5 m	
Location	Conf.Danube-Giurgiulesti L			1998

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s										
Temperature	°C	8	0.8	11.9	25.0	13.0	22.9	2.8	15.2	20.8	5.8
Suspended Solids	mg/l	8	10	136	282	130	246	93	230	184	63
Dissolved Oxygen	mg/l	8	6.5	9.1	12.4	9.4	6.7	10.7	6.8	7.6	10.9
pH	-	8	7.9	8.2	8.5	8.2	8.4	8.2	8.3	8.0	8.4
Conductivity @ 20°C	µS/cm										
Alkalinity	mmol/l	8	3.2	4.1	5.2	4.1	4.9	4.7	3.7	3.5	4.7
Ammonium-N (NH ₄ ⁺ -N)	mg/l	8	0.22	0.44	1.02	0.29	0.89	0.93	0.22	0.29	0.27
Nitrite-N (NO ₂ ⁻ -N)	mg/l	8	0.003	0.067	0.300	0.040	0.132	0.025	0.060	0.114	0.040
Nitrate-N (NO ₃ ⁻ -N)	mg/l	8	0.70	6.04	21.90	4.21	11.10	14.19	4.04	1.88	5.14
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	8	0.040	0.069	0.130	0.060	0.109	0.055	0.040	0.077	0.085
Total Phosphorus	mg/l	8	0.06	0.12	0.20	0.12	0.16	0.09	0.07	0.13	0.15
Sodium (Na ⁺)	mg/l										
Potassium (K ⁺)	mg/l										
Calcium (Ca ²⁺)	mg/l	8	49.7	60.5	77.0	62.5	68.5	70.5	53.5	54.8	62.6
Magnesium (Mg ²⁺)	mg/l	8	18.5	31.4	46.7	34.8	41.6	42.0	37.1	19.3	36.0
Chloride (Cl ⁻)	mg/l	8	23	35	48	35	45	46	35	28	35
Sulphate (SO ₄ ²⁻)	mg/l	8	80	157	270	142	249	220	103	105	200
Iron (Fe)	mg/l	8	0.040	0.130	0.260	0.100	0.232	0.060	0.160	0.133	0.180
Manganese (Mn)	mg/l										
Zinc (Zn)	µg/l	8	1.5	6.8	13.0	7.5	10.9	6.0	10.0	5.8	7.3
Copper (Cu)	µg/l	8	2.0	5.1	9.0	5.0	8.3	6.5	2.0	5.0	5.5
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										
BOD ₅	mg/l	8	1.7	2.4	3.0	2.4	2.9	2.3	3.0	2.3	2.3
COD _{Cr}	mg/l	8	12.2	22.3	27.8	23.5	26.5	22.1	23.0	23.8	20.0
COD _{Mn}	mg/l										
DOC	mg/l										
Phenol index	mg/l	8	0.001	0.001	0.004	0.001	0.003	0.001	0.004	0.001	0.001
Anionic active surfactants	mg/l	8	0.005	0.008	0.020	0.005	0.013	0.005	0.005	0.007	0.015
Petroleum hydrocarbons	mg/l	8	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
AOX	µg/l										
Lindane	µg/l	8	0.025	0.025	0.025						
pp'DDT	µg/l	8	0.025	0.025	0.025						
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
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										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated