

River: Danube	Catchment: 8107 km2	2004
Distance from the mouth 2581	Altitude: 460 m	D01
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	46.6	130.3	691.7	118.2	191.2	
Temperature	°C	26	1.9	10.6	21.6	9.9	18.2	
Suspended solids	mg/l	26	<	3.0	5.3	28.0	4.0	7.0
Dissolved oxygen	mg/l	26	<	8.6	11.0	13.9	10.7	9.2
BOD (5)	mg/l	26	<	1.0	1.3	2.3	1.3	1.7
COD (Mn)	mg/l	26		1.7	2.5	4.2	2.2	3.3
COD (Cr)	mg/l	13		6.0	9.5	12.0	10.0	12.0
TOC	mg/l	26		2.3	3.5	5.1	3.3	4.6
DOC	mg/l							
pH	-	26		8.1	8.2	8.3	8.2	8.3
							8.1	
Alkalinity - total	mmol/l	4		3.6	4.2	4.8	4.3	
Ammonium (NH4-N)	mg/l	26	<	0.020	0.065	0.160	0.055	0.115
Nitrite (NO2-N)	mg/l	13		0.010	0.023	0.030	0.020	0.030
Nitrate (NO3-N)	mg/l	26		1.900	2.862	4.000	2.700	3.800
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	26		0.010	0.043	0.070	0.040	0.060
Total phosphorus	mg/l	26		0.040	0.077	0.140	0.080	0.095
Total phosphorus, dissolved	mg/l	13		0.020	0.048	0.070	0.050	0.060
Chlorophyll A	µg/l	14		1.0	10.1	28.0	8.0	20.4
Conductivity	µS/cm	26		364	489	576	490	547
Calcium (Ca++)	mg/l	4		61.4	76.9	89.0	78.5	
Sulphate (SO4--)	mg/l	4	<	1.0	14.3	23.0	16.5	
Magnesium (Mg++)	mg/l	4		9.5	11.9	14.0	12.0	
Potassium (K+)	mg/l	4		1.5	2.4	3.3	2.4	
Sodium (Na+)	mg/l	4		6.8	12.9	17.1	13.9	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	26		12.0	25.8	40.0	23.5	35.5
Silicates (SiO2)	mg/l	5		4.40	4.68	5.20	4.60	
Zinc (Zn), dissolved	µg/l	2	<	10.00	<	10.00	<	10.00
Copper (Cu), dissolved	µg/l	2		2.00	2.00	2.00		
Chromium (Cr), total dissolved	µg/l	2	<	1.00	<	1.00	<	1.00
Lead (Pb), dissolved	µg/l	2	<	1.00	<	1.00	<	1.00
Cadmium (Cd), dissolved	µg/l	2	<	0.10	<	0.10	<	0.10
Mercury (Hg), dissolved	µg/l	2	<	0.100	<	0.100	:	0.100
Nickel (Ni), dissolved	µg/l	2	<	1.00	<	1.00	<	1.00
Arsenic (As), dissolved	µg/l	2	<	1.00	<	1.00	<	1.00
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	26	<	10.00	10.00	10.00	10.00	10.00
Copper (Cu)	µg/l	26	<	1.00	1.54	4.00	1.00	3.00
Chromium (Cr) - total	µg/l	26	<	1.00	<	1.00	<	1.00
Lead (Pb)	µg/l	26	<	1.00	1.00	1.00	1.00	1.00
Cadmium (Cd)	µg/l	26	<	0.10	<	0.10	<	0.10
Mercury (Hg)	µg/l	26	<	0.100	<	0.100	:	0.100
Nickel (Ni)	µg/l	26	<	1.00	1.00	1.00	1.00	1.00
Arsenic (As)	µg/l	27	<	1.00	<	1.00	<	1.00
Aluminium (Al)	µg/l							
Phenol index	mg/l							
Anionic active surfactants (PAL-A)	mg/l							
AOX	µg/l	8	<	10.00	10.00	10.00	10.00	
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l	15	<	0.010	0.011	0.020	0.010	0.010
Chloroform	µg/l	13	<	0.01	0.01	0.01	0.01	0.01
Carbon tetrachloride	µg/l	13	<	0.01	<	0.01	<	0.01
Trichloroethylene	µg/l	13	<	0.01	0.02	0.05	0.01	0.04
Tetrachloroethylene	µg/l	13	<	0.01	0.07	0.10	0.09	0.10
Macrozoobenthos sapr. index	-	1		2.06	2.06	2.06		
Macrozoobenthos no. of taxa	-	1		54	54	54		
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: Danube	Catchment: 77086 km2	2004
Distance from the mouth 2204	Altitude: 290 m	D02
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	521.0	1212.6	3266.2	1151.9	1661.5	
Temperature	°C	26	1.8	10.0	18.4	10.9	17.3	
Suspended solids	mg/l	26	< 3.0	16.5	53.0	12.0	38.0	
Dissolved oxygen	mg/l	26	8.8	10.9	13.3	11.1	9.0	I
BOD (5)	mg/l	26	1.0	3.0	5.3	2.9	4.1	II
COD (Mn)	mg/l	12	1.4	2.2	3.8	2.1	2.8	I
COD (Cr)	mg/l	6	6.0	8.5	15.0	7.5		II
TOC	mg/l	26	1.3	2.6	5.1	2.5	3.6	
DOC	mg/l	11	1.2	2.2	4.1	2.0	3.0	
pH	-	26	7.9	8.1	8.4	8.1	8.3	II
							7.9	II
Alkalinity - total	mmol/l							
Ammonium (NH4-N)	mg/l	26	0.030	0.081	0.180	0.070	0.155	I
Nitrite (NO2-N)	mg/l	23	0.010	0.013	0.030	0.010	0.020	II
Nitrate (NO3-N)	mg/l	26	0.950	1.977	4.300	1.700	3.000	II
Total nitrogen	mg/l	20	1.00	2.15	4.00	1.85	3.41	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	26	< 0.005	0.029	0.060	0.025	0.045	I
Total phosphorus	mg/l	26	0.050	0.069	0.100	0.070	0.100	I
Total phosphorus, dissolved	mg/l	12	0.020	0.037	0.060	0.030	0.059	
Chlorophyll A	µg/l	16	1.0	13.3	38.0	9.0	32.5	II
Conductivity	µS/cm	26	274	363	451	356	441	
Calcium (Ca++)	mg/l	12	47.1	56.8	66.6	58.6	61.3	
Sulphate (SO4--)	mg/l	12	18.0	26.3	35.0	25.0	31.9	
Magnesium (Mg++)	mg/l	12	11.3	13.1	14.7	13.3	14.5	
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	12	0.0100	0.0275	0.0500	0.0300	0.0480	
Iron (Fe)	mg/l	12	0.120	0.357	0.990	0.225	0.765	
Chloride (Cl-)	mg/l	26	9.0	17.2	29.0	16.0	26.5	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	2	20.00	20.00	20.00			II
Copper (Cu), dissolved	µg/l	2	1.00	2.00	3.00			II
Chromium (Cr), total dissolved	µg/l	2	< 1.00	< 1.00	< 1.00			II
Lead (Pb), dissolved	µg/l	2	< 1.00	< 1.00	< 1.00			II
Cadmium (Cd), dissolved	µg/l	2	< 0.10	< 0.10	< 0.10			II
Mercury (Hg), dissolved	µg/l	2	0.100	0.100	0.100			II
Nickel (Ni), dissolved	µg/l	2	< 1.00	< 1.00	< 1.00			II
Arsenic (As), dissolved	µg/l	2	< 1.00	< 1.00	< 1.00			II
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	26	< 10.00	14.62	80.00	10.00	20.00	II
Copper (Cu)	µg/l	26	1.00	2.65	6.00	3.00	3.00	II
Chromium (Cr) - total	µg/l	26	< 1.00	1.00	1.00	1.00	1.00	II
Lead (Pb)	µg/l	26	< 1.00	1.19	2.00	1.00	2.00	II
Cadmium (Cd)	µg/l	26	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg)	µg/l	26	< 0.100	0.181	0.800	0.100	0.350	IV
Nickel (Ni)	µg/l	26	< 1.00	1.46	4.00	1.00	2.00	II
Arsenic (As)	µg/l	26	< 1.00	1.15	2.00	1.00	2.00	II
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0200	0.0200	0.0200	0.0200	0.0200	
Anionic active surfactants (PAL-A)	mg/l	12	< 0.100	0.133	0.300	0.100	0.200	
AOX	µg/l	12	< 10.00	10.00	10.00	10.00	10.00	I
Petroleum hydrocarbons	mg/l	12	< 0.200	< 0.200	< 0.200	0.200	0.200	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gamma-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l	13	< 0.010	0.012	0.020	0.010	0.018	I
Chloroform	µg/l	11	< 0.01	0.01	0.01	0.01	0.01	I
Carbon tetrachloride	µg/l	11	< 0.01	0.02	0.10	0.01	0.01	I
Trichloroethylene	µg/l	11	0.03	0.05	0.10	0.05	0.07	II
Tetrachloroethylene	µg/l	11	0.05	0.09	0.20	0.09	0.10	II
Macrozoobenthos sapr. index	-	1	2.25	2.25	2.25			II
Macrozoobenthos no. of taxa	-	1	82	82	82			
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: /Inn	Catchment: 9905 km2	2004
Distance from the mouth 195	Altitude: 452 m	D03
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	109.6	290.0	777.4	231.8	523.3	
Temperature	°C	26	2.9	8.1	14.3	8.5	13.6	
Suspended solids	mg/l	26	<	3.0	31.0	289.0	6.0	75.5
Dissolved oxygen	mg/l	26	<	9.1	11.0	12.7	11.0	9.8
BOD (5)	mg/l	25	<	1.0	1.1	2.0	1.0	1.4
COD (Mn)	mg/l	13	<	0.5	1.2	2.0	1.2	1.7
COD (Cr)	mg/l	13	<	5.0	< 5.0	< 5.0	5.0	5.0
TOC	mg/l	26		0.8	2.1	6.5	2.0	2.9
DOC	mg/l							
pH	-	26	8.0	8.2	8.4	8.2	8.4	II
							8.1	II
Alkalinity - total	mmol/l	4	1.2	1.6	2.1	1.5		
Ammonium (NH4-N)	mg/l	26	<	0.020	0.042	0.090	0.030	0.085
Nitrite (NO2-N)	mg/l							
Nitrate (NO3-N)	mg/l	26		0.300	0.552	0.800	0.525	0.700
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	25	<	0.005	0.011	0.020	0.010	0.016
Total phosphorus	mg/l	26	<	0.005	0.066	0.470	0.035	0.125
Total phosphorus, dissolved	mg/l	13	<	0.005	0.013	0.020	0.010	0.020
Chlorophyll A	µg/l							
Conductivity	µS/cm	26		172	256	355	259	329
Calcium (Ca++)	mg/l	4		25.0	30.3	35.0	30.5	
Sulphate (SO4--)	mg/l	5	<	1.0	26.8	40.0	31.0	
Magnesium (Mg++)	mg/l	4		6.6	7.7	8.7	7.8	
Potassium (K+)	mg/l	6		1.2	1.9	2.4	2.0	
Sodium (Na+)	mg/l	6		1.9	3.0	3.7	3.1	
Manganese (Mn)	mg/l	26		0.0010	0.0231	0.1800	0.0100	0.0350
Iron (Fe)	mg/l	26	<	0.010	0.646	3.500	0.155	1.850
Chloride (Cl-)	mg/l	25		1.8	5.2	9.0	4.7	8.6
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	26	<	10.00	23.46	150.00	10.00	50.00
Copper (Cu)	µg/l	26		1.00	5.96	37.00	2.50	13.00
Chromium (Cr) - total	µg/l	26	<	1.00	1.81	6.00	1.00	4.00
Lead (Pb)	µg/l	26	<	1.00	2.23	17.00	1.00	3.00
Cadmium (Cd)	µg/l	26	<	0.10	0.15	0.70	0.10	0.25
Mercury (Hg)	µg/l	22	<	0.100	0.173	0.600	0.100	0.290
Nickel (Ni)	µg/l	26		1.00	3.04	11.00	2.00	7.00
Arsenic (As)	µg/l	26	<	1.00	2.08	6.00	2.00	2.50
Aluminium (Al)	µg/l							
Phenol index	mg/l							
Anionic active surfactants (PAL-A)	mg/l							
AOX	µg/l	13	<	10.00	12.00	20.00	10.00	19.20
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l	11	<	0.01	0.01	0.01	0.01	0.01
Carbon tetrachloride	µg/l	11	<	0.01	0.01	0.01	0.01	0.01
Trichloroethylene	µg/l	11	<	0.01	0.01	0.04	0.01	0.02
Tetrachloroethylene	µg/l	11	<	0.01	0.02	0.05	0.02	0.04
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: /Inn/Salzach
 Distance from the mouth 47
 Location: Left

Catchment: 6113 km2
 Altitude: 390 m
 2004
 D04

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	76.7	232.1	850.9	197.1	397.7	
Temperature	°C	26	2.3	7.4	13.0	7.4	12.0	
Suspended solids	mg/l	26	< 3.0	13.3	112.0	5.5	24.0	
Dissolved oxygen	mg/l	26	< 9.6	11.4	13.1	11.4	10.3	I
BOD (5)	mg/l	26	< 1.0	2.1	5.3	2.2	2.8	I
COD (Mn)	mg/l	13	1.4	2.3	3.2	2.2	2.9	I
COD (Cr)	mg/l							
TOC	mg/l	26	1.2	2.2	4.3	2.3	3.0	
DOC	mg/l	13	1.2	2.0	3.0	2.1	2.6	
pH	-	26	7.5	7.9	8.1	8.0	8.1	II
							7.8	II
Alkalinity - total	mmol/l	13	2.1	2.5	3.0	2.4	2.9	
Ammonium (NH4-N)	mg/l	26	< 0.020	0.027	0.090	0.020	0.040	I
Nitrite (NO2-N)	mg/l	25	< 0.005	0.008	0.010	0.010	0.010	I
Nitrate (NO3-N)	mg/l	26	0.410	0.716	1.100	0.665	0.995	I
Total nitrogen	mg/l	26	0.60	0.80	1.10	0.80	1.00	I
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	26	< 0.005	0.009	0.010	0.010	0.010	I
Total phosphorus	mg/l	26	0.010	0.035	0.090	0.030	0.060	I
Total phosphorus, dissolved	mg/l	26	< 0.005	0.011	0.020	0.010	0.015	
Chlorophyll A	µg/l							
Conductivity	µS/cm	26	207	281	381	265	361	
Calcium (Ca++)	mg/l	13	33.6	42.0	50.6	39.4	49.9	
Sulphate (SO4--)	mg/l	13	12.0	22.3	37.0	22.0	32.8	
Magnesium (Mg++)	mg/l	13	5.5	8.7	11.9	8.4	11.3	
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	26	0.0100	0.0277	0.1600	0.0200	0.0400	
Iron (Fe)	mg/l	26	0.070	0.406	3.200	0.190	0.725	
Chloride (Cl-)	mg/l	26	3.2	8.7	25.0	6.9	16.0	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	5	< 10.00	10.00	10.00	10.00		**
Copper (Cu), dissolved	µg/l	5	1.00	1.20	2.00	1.00		II
Chromium (Cr), total dissolved	µg/l	5	< 1.00	< 1.00	< 1.00	1.00		II
Lead (Pb), dissolved	µg/l	5	< 1.00	< 1.00	< 1.00	1.00		II
Cadmium (Cd), dissolved	µg/l	5	< 0.10	< 0.10	< 0.10	0.10		II
Mercury (Hg), dissolved	µg/l	5	< 0.100	0.680	1.000	1.000		III
Nickel (Ni), dissolved	µg/l	5	1.00	1.00	1.00	1.00		II
Arsenic (As), dissolved	µg/l	5	< 1.00	1.00	1.00	1.00		II
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	26	< 10.00	10.38	20.00	10.00	10.00	II
Copper (Cu)	µg/l	25	1.00	2.72	9.00	2.00	3.60	II
Chromium (Cr) - total	µg/l	26	< 1.00	1.77	6.00	1.00	3.50	II
Lead (Pb)	µg/l	26	< 1.00	1.31	3.00	1.00	2.50	II
Cadmium (Cd)	µg/l	26	< 0.10	0.10	0.10	0.10	0.10	II
Mercury (Hg)	µg/l	26	< 0.100	0.242	2.400	0.100	0.300	IV
Nickel (Ni)	µg/l	26	1.00	1.73	8.00	1.00	2.00	II
Arsenic (As)	µg/l	26	1.00	1.08	3.00	1.00	1.00	II
Aluminium (Al)	µg/l							
Phenol index	mg/l							
Anionic active surfactants (PAL-A)	mg/l							
AOX	µg/l	12	< 10.00	< 10.00	< 10.00	10.00	10.00	I
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gamma-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l	13	< 0.01	< 0.01	< 0.01	0.01	0.01	I
Carbon tetrachloride	µg/l	13	< 0.01	< 0.01	< 0.01	0.01	0.01	I
Trichloroethylene	µg/l	13	< 0.01	0.01	0.02	0.01	0.01	I
Tetrachloroethylene	µg/l	13	< 0.01	0.02	0.04	0.02	0.03	II
Macrozoobenthos sapr. index	-	1	1.73	1.73	1.73			I
Macrozoobenthos no. of taxa	-	1	28	28	28			
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: Danube	Catchment: 77086 km2	2004
Distance from the mouth 2204	Altitude: 290 m	A01
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	579.0	1225.3	3285.0	1164.0	1676.0	
Temperature	°C	12	3.0	10.4	18.7	10.1	16.3	
Suspended solids	mg/l	12	4.4	23.1	83.7	9.9	51.8	
Dissolved oxygen	mg/l	12	8.7	11.0	14.1	10.9	9.0	I
BOD (5)	mg/l	12	< 0.5	1.4	3.0	1.4	2.4	I
COD (Mn)	mg/l	12	0.8	2.6	6.2	2.0	3.8	I
COD (Cr)	mg/l	12	1.1	6.0	12.3	6.2	8.1	I
TOC	mg/l	12	0.6	2.1	4.2	1.9	2.5	
DOC	mg/l	12	< 0.5	1.9	4.0	1.7	2.5	
pH	-	12	8.1	8.2	8.5	8.2	8.5	II
							8.1	II
Alkalinity - total	mmol/l	12	2.5	3.0	3.4	3.1	3.3	
Ammonium (NH4-N)	mg/l	12	< 0.004	0.051	0.138	0.024	0.132	I
Nitrite (NO2-N)	mg/l	12	0.006	0.013	0.027	0.012	0.023	II
Nitrate (NO3-N)	mg/l	12	1.160	2.242	4.700	1.880	3.784	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.005	0.031	0.060	0.032	0.047	I
Total phosphorus	mg/l	12	0.033	0.053	0.093	0.050	0.066	I
Total phosphorus, dissolved	mg/l	12	0.016	0.038	0.067	0.037	0.054	
Chlorophyll A	µg/l							
Conductivity	µS/cm	12	278	364	446	377	433	
Calcium (Ca++)	mg/l	12	36.3	51.6	61.8	52.6	61.3	
Sulphate (SO4--)	mg/l	12	18.1	27.6	37.0	26.9	34.2	
Magnesium (Mg++)	mg/l	12	10.4	12.0	13.9	12.2	13.2	
Potassium (K+)	mg/l	12	1.4	2.1	2.8	2.0	2.8	
Sodium (Na+)	mg/l	12	5.4	8.6	13.7	8.5	12.3	
Manganese (Mn)	mg/l	12	0.0060	0.0238	0.0730	0.0180	0.0488	
Iron (Fe)	mg/l	12	< 0.007	0.404	1.130	0.175	1.105	
Chloride (Cl-)	mg/l	12	8.5	16.8	29.1	15.8	26.9	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12	< 0.80	2.80	7.00	2.00	4.90	II
Copper (Cu), dissolved	µg/l	12	< 0.70	1.39	2.00	1.00	2.00	II
Chromium (Cr), total dissolved	µg/l	12	< 0.60	< 0.60	< 0.60	0.60	0.60	II
Lead (Pb), dissolved	µg/l	12	< 0.80	< 0.80	< 0.80	0.80	0.80	II
Cadmium (Cd), dissolved	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg), dissolved	µg/l	12	< 0.100	< 0.100	: 0.100	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	12	< 0.70	< 0.70	< 0.70	0.70	0.70	II
Arsenic (As), dissolved	µg/l	12	< 0.70	0.86	2.00	0.70	1.00	II
Aluminium (Al), dissolved	µg/l	12	< 7.00	12.42	34.00	9.50	17.80	
Zinc (Zn)	µg/l	12	< 0.80	5.30	13.00	4.50	10.80	II
Copper (Cu)	µg/l	12	1.00	2.42	4.00	2.00	3.00	II
Chromium (Cr) - total	µg/l	12	< 0.60	0.83	3.00	0.60	0.96	II
Lead (Pb)	µg/l	12	< 0.80	0.93	1.60	0.80	1.19	II
Cadmium (Cd)	µg/l	12	< 0.10	0.11	0.20	0.10	0.10	II
Mercury (Hg)	µg/l	12	< 0.100	< 0.100	: 0.100	0.100	0.100	II
Nickel (Ni)	µg/l	12	< 0.70	1.35	4.00	0.85	2.00	II
Arsenic (As)	µg/l	12	< 0.70	1.35	3.00	0.85	2.00	II
Aluminium (Al)	µg/l	12	< 7.00	248.75	1120.00	101.00	580.00	
Phenol index	mg/l	12	0.0030	0.0030	0.0030	0.0030	0.0030	
Anionic active surfactants (PAL-A)	mg/l	12	< 0.006	0.013	0.037	0.006	0.025	
AOX	µg/l	12	6.40	9.54	12.10	9.90	11.34	II
Petroleum hydrocarbons	mg/l	12	< 0.040	< 0.040	: 0.040	0.040	0.040	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l	12	< 0.025	< 0.025	: 0.025	0.025	0.025	II
Chloroform	µg/l	12	< 0.05	< 0.05	< 0.05	0.05	0.05	II
Carbon tetrachloride	µg/l	12	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Trichloroethylene	µg/l	12	< 0.04	0.04	0.04	0.04	0.04	II
Tetrachloroethylene	µg/l	12	< 0.08	0.08	0.12	0.08	0.08	II
Macrozoobenthos sapr. index	-	2	1.95	2.11	2.26			II
Macrozoobenthos no. of taxa	-	2	44	47	50			
Total coliforms (37 C)	1000CFU/100m	12	1.000	1.900	3.700	1.250	3.390	
Faecal coliforms (44 C)	1000CFU/100m	12	0.240	0.649	1.420	0.520	1.109	
Faecal streptococci	1000CFU/100m	12	0.005	0.057	0.140	0.048	0.127	
Salmonella	No/1l	12	0.0	0.1	1.0	0.0	0.0	

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

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

River: Danube
 Distance from the mouth 2120
 Location: Right

Catchment: 83992 km2
 Altitude: 251 m
 2004
 A02

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	647.0	1376.1	3829.0	1313.5	1934.0	
Temperature	°C	12	4.0	11.4	20.3	11.1	17.1	
Suspended solids	mg/l	12	1.1	28.7	86.7	20.7	58.4	
Dissolved oxygen	mg/l	12	9.4	11.3	13.8	11.3	9.8	I
BOD (5)	mg/l	12	< 0.5	1.4	2.8	1.3	2.3	I
COD (Mn)	mg/l	12	1.2	2.7	6.4	2.3	4.3	I
COD (Cr)	mg/l	12	3.2	6.8	13.4	5.5	10.1	II
TOC	mg/l	12	1.3	2.2	4.3	2.0	2.9	
DOC	mg/l	12	< 0.5	2.0	4.1	1.9	2.6	
pH	-	12	8.2	8.3	8.6	8.3	8.5	II
							8.2	II
Alkalinity - total	mmol/l	12	2.6	3.0	3.4	3.1	3.4	
Ammonium (NH4-N)	mg/l	12	< 0.004	0.039	0.116	0.035	0.080	I
Nitrite (NO2-N)	mg/l	12	0.007	0.014	0.024	0.013	0.021	II
Nitrate (NO3-N)	mg/l	12	1.260	2.278	4.640	1.965	3.532	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	< 0.003	0.026	0.053	0.023	0.043	I
Total phosphorus	mg/l	12	0.027	0.051	0.098	0.052	0.062	I
Total phosphorus, dissolved	mg/l	12	0.013	0.035	0.068	0.032	0.050	
Chlorophyll A	µg/l							
Conductivity	µS/cm	12	300	378	456	380	450	
Calcium (Ca++)	mg/l	12	40.5	53.3	66.3	53.0	61.9	
Sulphate (SO4--)	mg/l	12	16.7	27.9	36.1	27.4	35.7	
Magnesium (Mg++)	mg/l	12	10.2	11.8	13.3	12.0	12.8	
Potassium (K+)	mg/l	12	1.7	2.4	3.2	2.3	3.0	
Sodium (Na+)	mg/l	12	7.1	10.3	15.6	10.5	14.2	
Manganese (Mn)	mg/l	12	0.0060	0.0223	0.0700	0.0205	0.0368	
Iron (Fe)	mg/l	12	< 0.007	0.356	1.060	0.330	0.629	
Chloride (Cl-)	mg/l	12	13.1	21.1	34.4	19.3	31.0	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12	< 0.80	2.20	6.00	2.00	4.80	II
Copper (Cu), dissolved	µg/l	12	< 0.70	1.48	2.00	1.50	2.00	II
Chromium (Cr), total dissolved	µg/l	12	< 0.60	< 0.60	< 0.60	0.60	0.60	II
Lead (Pb), dissolved	µg/l	12	< 0.80	< 0.80	< 0.80	0.80	0.80	II
Cadmium (Cd), dissolved	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg), dissolved	µg/l	12	< 0.100	< 0.100	: 0.100	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	12	< 0.70	< 0.70	< 0.70	0.70	0.70	II
Arsenic (As), dissolved	µg/l	12	< 0.70	1.03	2.00	0.70	2.00	III
Aluminium (Al), dissolved	µg/l	12	< 7.00	12.92	38.00	8.50	19.80	
Zinc (Zn)	µg/l	12	< 0.80	4.22	13.00	4.00	6.00	II
Copper (Cu)	µg/l	12	< 0.70	2.23	5.00	2.00	3.00	II
Chromium (Cr) - total	µg/l	12	< 0.60	0.83	3.00	0.60	0.96	II
Lead (Pb)	µg/l	12	< 0.80	1.13	3.50	0.80	1.38	II
Cadmium (Cd)	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg)	µg/l	12	< 0.100	< 0.100	: 0.100	0.100	0.100	II
Nickel (Ni)	µg/l	12	< 0.70	1.29	4.00	1.00	2.80	II
Arsenic (As)	µg/l	12	< 0.70	1.35	5.00	0.85	2.00	II
Aluminium (Al)	µg/l	12	< 7.00	236.58	1260.00	160.00	312.90	
Phenol index	mg/l	12	0.0030	0.0030	0.0030	0.0030	0.0030	
Anionic active surfactants (PAL-A)	mg/l	12	< 0.006	0.011	0.024	0.006	0.022	
AOX	µg/l	12	5.90	9.96	14.30	10.10	13.21	II
Petroleum hydrocarbons	mg/l	12	< 0.040	< 0.040	: 0.040	0.040	0.040	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l	12	< 0.025	< 0.025	: 0.025	0.025	0.025	II
Chloroform	µg/l	12	< 0.05	< 0.05	< 0.05	0.05	0.05	II
Carbon tetrachloride	µg/l	12	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Trichloroethylene	µg/l	12	< 0.04	< 0.04	< 0.04	0.04	0.04	II
Tetrachloroethylene	µg/l	12	< 0.08	< 0.08	< 0.08	0.08	0.08	II
Macrozoobenthos sapr. index	-	2	1.98	2.04	2.09			II
Macrozoobenthos no. of taxa	-	2	27	28	28			
Total coliforms (37 C)	1000CFU/100m	12	0.600	5.400	47.100	1.250	3.540	
Faecal coliforms (44 C)	1000CFU/100m	12	0.180	3.578	36.800	0.570	1.108	
Faecal streptococci	1000CFU/100m	12	0.010	0.089	0.360	0.060	0.235	
Salmonella	No/1l	12	0.0	0.1	1.0	0.0	0.0	

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

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

River: Danube	Catchment: 101700 km2	2004
Distance from the mouth 1935	Altitude: 159 m	A03
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	767.0	1728.6	4545.0	1632.0	2551.5	
Temperature	°C	12	4.0	11.1	19.4	10.8	17.8	
Suspended solids	mg/l	12	< 0.5	18.3	41.5	17.0	37.0	
Dissolved oxygen	mg/l	12	9.0	11.1	13.7	11.3	9.3	I
BOD (5)	mg/l	12	< 0.5	1.5	3.3	1.5	3.2	II
COD (Mn)	mg/l	12	< 0.3	2.8	7.4	2.2	5.1	II
COD (Cr)	mg/l	12	2.2	6.0	14.5	5.2	9.4	I
TOC	mg/l	12	0.9	2.2	4.8	2.2	3.1	
DOC	mg/l	12	0.6	2.1	4.4	2.1	2.8	
pH	-	12	8.1	8.3	8.6	8.3	8.4	II
							8.2	II
Alkalinity - total	mmol/l	12	2.3	2.9	3.4	2.9	3.3	
Ammonium (NH4-N)	mg/l	12	< 0.004	0.032	0.103	0.022	0.068	I
Nitrite (NO2-N)	mg/l	12	0.003	0.012	0.028	0.011	0.026	II
Nitrate (NO3-N)	mg/l	12	1.050	2.086	4.810	1.675	3.259	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	< 0.003	0.026	0.062	0.022	0.042	I
Total phosphorus	mg/l	12	0.023	0.050	0.138	0.042	0.060	I
Total phosphorus, dissolved	mg/l	12	0.012	0.033	0.075	0.029	0.048	
Chlorophyll A	µg/l							
Conductivity	µS/cm	12	263	354	430	367	424	
Calcium (Ca++)	mg/l	12	36.9	51.1	64.0	51.1	61.4	
Sulphate (SO4--)	mg/l	12	18.1	27.8	35.5	27.6	34.0	
Magnesium (Mg++)	mg/l	12	9.0	11.2	12.6	11.5	12.5	
Potassium (K+)	mg/l	12	1.6	2.1	2.8	2.0	2.8	
Sodium (Na+)	mg/l	12	4.8	8.4	12.9	8.5	11.9	
Manganese (Mn)	mg/l	12	0.0060	0.0225	0.0570	0.0185	0.0477	
Iron (Fe)	mg/l	12	< 0.007	0.385	1.130	0.250	0.890	
Chloride (Cl-)	mg/l	12	9.0	16.6	25.6	15.9	25.2	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12	< 0.80	2.62	7.00	2.00	5.70	III
Copper (Cu), dissolved	µg/l	12	< 0.70	1.39	2.00	1.00	2.00	II
Chromium (Cr), total dissolved	µg/l	12	< 0.60	< 0.60	< 0.60	0.60	0.60	II
Lead (Pb), dissolved	µg/l	12	< 0.80	< 0.80	< 0.80	0.80	0.80	II
Cadmium (Cd), dissolved	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg), dissolved	µg/l	12	< 0.100	< 0.100	: 0.100	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	12	< 0.70	0.73	1.00	0.70	0.70	II
Arsenic (As), dissolved	µg/l	12	< 0.70	0.94	2.00	0.70	1.90	III
Aluminium (Al), dissolved	µg/l	12	< 7.00	14.17	56.00	11.00	16.80	
Zinc (Zn)	µg/l	12	< 0.80	5.57	15.00	5.50	7.00	II
Copper (Cu)	µg/l	12	< 0.70	2.39	5.00	2.00	3.90	II
Chromium (Cr) - total	µg/l	12	< 0.60	0.72	2.00	0.60	0.60	II
Lead (Pb)	µg/l	12	< 0.80	1.02	2.20	0.80	1.56	II
Cadmium (Cd)	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg)	µg/l	12	< 0.100	< 0.100	: 0.100	0.100	0.100	II
Nickel (Ni)	µg/l	12	< 0.70	1.38	3.00	1.00	2.90	II
Arsenic (As)	µg/l	12	< 0.70	1.16	3.00	0.70	2.00	II
Aluminium (Al)	µg/l	12	< 7.00	223.75	781.00	134.00	450.60	
Phenol index	mg/l	12	0.0030	0.0030	0.0030	0.0030	0.0030	
Anionic active surfactants (PAL-A)	mg/l	12	< 0.006	0.008	0.019	0.006	0.017	
AOX	µg/l	12	6.20	9.63	14.60	9.80	12.21	II
Petroleum hydrocarbons	mg/l	12	< 0.040	< 0.040	: 0.040	0.040	0.040	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l	12	< 0.025	< 0.025	: 0.025	0.025	0.025	II
Chloroform	µg/l	12	< 0.05	< 0.05	< 0.05	0.05	0.05	II
Carbon tetrachloride	µg/l	12	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Trichloroethylene	µg/l	12	< 0.04	< 0.04	< 0.04	0.04	0.04	II
Tetrachloroethylene	µg/l	12	< 0.08	< 0.08	< 0.08	0.08	0.08	II
Macrozoobenthos sapr. index	-	3	1.91	2.00	2.08			II
Macrozoobenthos no. of taxa	-	2	24	30	35			
Total coliforms (37 C)	1000CFU/100m	12	0.300	1.025	2.100	0.900	1.600	
Faecal coliforms (44 C)	1000CFU/100m	12	0.110	0.404	1.020	0.240	0.823	
Faecal streptococci	1000CFU/100m	12	0.000	0.040	0.170	0.030	0.058	
Salmonella	No/1l	12	0.0	0.1	1.0	0.0	0.0	

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

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

River: Danube	Catchment: 131411 km2	2004
Distance from the mouth 1874	Altitude: 140 m	A04
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	895.0	1877.1	4368.0	1808.5	2680.5	
Temperature	°C	24	1.8	10.8	21.5	11.8	17.6	
Suspended solids	mg/l	24	< 0.5	17.1	71.8	10.8	36.4	
Dissolved oxygen	mg/l	24	7.8	10.9	14.3	11.0	8.6	I
BOD (5)	mg/l	24	0.9	2.1	5.6	1.9	3.5	II
COD (Mn)	mg/l	23	< 0.3	2.7	4.9	2.2	4.6	I
COD (Cr)	mg/l	24	1.9	7.4	13.5	7.1	12.8	II
TOC	mg/l	24	0.5	2.4	4.0	2.4	3.4	
DOC	mg/l	24	< 0.5	2.1	3.7	2.2	3.0	
pH	-	24	7.9	8.1	8.6	8.1	8.4	II
							7.9	II
Alkalinity - total	mmol/l	24	2.5	3.0	3.6	3.0	3.4	
Ammonium (NH4-N)	mg/l	24	< 0.004	0.102	0.540	0.068	0.230	II
Nitrite (NO2-N)	mg/l	24	0.011	0.024	0.044	0.022	0.036	II
Nitrate (NO3-N)	mg/l	24	0.980	2.162	4.440	1.955	3.256	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	24	< 0.003	0.026	0.057	0.025	0.049	I
Total phosphorus	mg/l	24	0.025	0.085	0.766	0.045	0.093	I
Total phosphorus, dissolved	mg/l	24	0.013	0.064	0.749	0.031	0.060	
Chlorophyll A	µg/l	3	3.1	6.9	12.0			I
Conductivity	µS/cm	24	285	369	486	359	448	
Calcium (Ca++)	mg/l	24	44.7	53.8	69.2	52.5	64.5	
Sulphate (SO4--)	mg/l	24	21.5	30.7	42.0	29.8	38.9	
Magnesium (Mg++)	mg/l	24	9.6	11.9	15.9	12.0	13.2	
Potassium (K+)	mg/l	24	1.4	2.3	3.3	2.2	3.0	
Sodium (Na+)	mg/l	24	5.8	9.8	21.7	9.1	14.2	
Manganese (Mn)	mg/l	24	0.0060	0.0158	0.0440	0.0135	0.0286	
Iron (Fe)	mg/l	24	0.010	0.275	0.910	0.250	0.550	
Chloride (Cl-)	mg/l	24	10.5	19.0	37.1	17.1	28.1	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	24	< 0.80	2.14	6.00	2.00	3.70	II
Copper (Cu), dissolved	µg/l	24	< 0.70	1.68	2.00	2.00	2.00	II
Chromium (Cr), total dissolved	µg/l	24	< 0.60	< 0.60	< 0.60	0.60	0.60	II
Lead (Pb), dissolved	µg/l	24	< 0.80	< 0.80	< 0.80	0.80	0.80	II
Cadmium (Cd), dissolved	µg/l	24	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg), dissolved	µg/l	24	< 0.100	< 0.100	: 0.100	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	24	< 0.70	0.74	1.00	0.70	0.91	II
Arsenic (As), dissolved	µg/l	24	< 0.70	0.83	2.00	0.70	1.00	II
Aluminium (Al), dissolved	µg/l	24	< 7.00	10.58	29.00	7.00	24.60	
Zinc (Zn)	µg/l	24	< 0.80	5.69	18.00	4.00	12.70	II
Copper (Cu)	µg/l	24	1.00	4.08	50.00	2.00	3.70	II
Chromium (Cr) - total	µg/l	24	< 0.60	0.62	1.00	0.60	0.60	II
Lead (Pb)	µg/l	24	< 0.80	1.00	2.60	0.80	1.54	II
Cadmium (Cd)	µg/l	24	< 0.10	0.27	3.60	0.10	0.10	II
Mercury (Hg)	µg/l	24	< 0.100	< 0.100	: 0.100	0.100	0.100	II
Nickel (Ni)	µg/l	24	< 0.70	1.03	2.00	1.00	2.00	II
Arsenic (As)	µg/l	24	< 0.70	0.94	2.00	0.70	1.70	II
Aluminium (Al)	µg/l	24	< 7.00	140.33	432.00	121.50	261.40	
Phenol index	mg/l	24	0.0030	0.0030	0.0030	0.0030	0.0030	
Anionic active surfactants (PAL-A)	mg/l	23	< 0.006	0.012	0.036	0.006	0.023	
AOX	µg/l	24	3.60	9.40	15.80	9.10	13.04	II
Petroleum hydrocarbons	mg/l	24	< 0.040	< 0.040	: 0.040	0.040	0.040	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l	24	< 0.025	< 0.025	: 0.025	0.025	0.025	II
Chloroform	µg/l	15	< 0.05	< 0.05	< 0.05	0.05	0.05	II
Carbon tetrachloride	µg/l	15	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Trichloroethylene	µg/l	15	< 0.04	< 0.04	< 0.04	0.04	0.04	II
Tetrachloroethylene	µg/l	15	< 0.08	< 0.08	< 0.08	0.08	0.08	II
Macrozoobenthos sapr. index	-	3	2.17	2.21	2.24			II
Macrozoobenthos no. of taxa	-	4	23	33	44	32		
Total coliforms (37 C)	1000CFU/100m	24	1.300	8.125	85.700	3.650	9.640	
Faecal coliforms (44 C)	1000CFU/100m	24	0.500	2.846	21.700	1.245	5.465	
Faecal streptococci	1000CFU/100m	24	0.020	0.323	2.420	0.175	0.609	
Salmonella	No/1l	11	0.0	0.3	1.0	0.0	1.0	

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

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

River: /Morava

Catchment:

9725 km2

2004

Distance from the mouth 79

Altitude: 150 m

CZ01

Location: Middle

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	5.2	47.4	331.0	29.0	99.4	
Temperature	°C	12	1.4	12.1	27.8	10.8	22.2	
Suspended solids	mg/l	12	15.2	45.9	106.0	33.3	90.5	
Dissolved oxygen	mg/l	12	8.8	11.9	14.8	11.7	9.8	I
BOD (5)	mg/l	12	1.8	4.5	7.6	4.0	6.3	III
COD (Mn)	mg/l	12	3.8	6.9	8.2	7.3	8.1	II
COD (Cr)	mg/l	12	8.5	20.6	32.4	20.3	29.6	III
TOC	mg/l	12	3.1	4.4	5.4	4.7	5.1	
DOC	mg/l	12	2.8	4.1	5.0	4.4	4.7	
pH	-	12	7.9	8.1	8.4	8.0	8.4	II
							7.9	II
Alkalinity - total	mmol/l	12	2.0	2.7	3.3	2.7	3.3	
Ammonium (NH4-N)	mg/l	12 <	0.030	0.237	0.509	0.223	0.425	III
Nitrite (NO2-N)	mg/l	12	0.020	0.045	0.097	0.044	0.061	III
Nitrate (NO3-N)	mg/l	12 <	0.700	2.641	5.200	2.320	4.875	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l	12 <	0.20	0.58	1.09	0.55	0.85	
Orthophosphate (PO4-P)	mg/l	12	0.033	0.112	0.171	0.112	0.145	III
Total phosphorus	mg/l	12	0.120	0.196	0.308	0.189	0.283	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	12 <	2.5	54.4	180.0	24.9	136.0	IV
Conductivity	µS/cm	12	399	518	647	516	598	
Calcium (Ca++)	mg/l	12	39.2	60.7	84.8	57.5	80.2	
Sulphate (SO4--)	mg/l	12	49.0	67.9	86.1	69.3	80.0	
Magnesium (Mg++)	mg/l	12	6.9	11.0	20.4	10.4	14.4	
Potassium (K+)	mg/l	12	3.4	6.6	11.9	5.9	11.4	
Sodium (Na+)	mg/l	12	16.6	26.9	44.7	23.6	42.8	
Manganese (Mn)	mg/l	12	0.0530	0.2005	0.6920	0.1380	0.3414	
Iron (Fe)	mg/l	12	0.178	0.543	0.989	0.438	0.902	
Chloride (Cl-)	mg/l	12	21.1	31.4	47.4	28.9	42.6	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12 <	5.00	8.26	14.20	7.12	12.28	III
Copper (Cu), dissolved	µg/l	12	0.91	1.77	2.93	1.72	2.34	III
Chromium (Cr), total dissolved	µg/l	12 <	0.50	0.95	2.74	0.56	1.66	II
Lead (Pb), dissolved	µg/l	12 <	0.50	0.68	1.70	0.50	1.05	III
Cadmium (Cd), dissolved	µg/l	12 <	0.05	0.05	0.05	0.05	0.05	II
Mercury (Hg), dissolved	µg/l	12 <	0.100	0.100	0.100	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	12	1.83	4.31	7.26	4.48	6.81	III
Arsenic (As), dissolved	µg/l	12 <	1.00	1.24	2.00	1.00	1.72	III
Aluminium (Al), dissolved	µg/l	12 <	5.00	12.02	35.50	7.91	26.60	
Zinc (Zn)	µg/l	12	7.15	19.04	39.80	14.80	37.60	II
Copper (Cu)	µg/l	12	1.03	3.14	5.35	3.04	4.51	II
Chromium (Cr) - total	µg/l	12 <	0.50	1.66	4.45	1.32	2.96	II
Lead (Pb)	µg/l	12 <	0.50	1.57	3.56	1.26	2.79	II
Cadmium (Cd)	µg/l	12 <	0.05	0.05	0.08	0.05	0.05	II
Mercury (Hg)	µg/l	12 <	0.100	0.127	0.420	0.100	0.100	II
Nickel (Ni)	µg/l	12	2.40	5.84	12.50	5.13	10.24	II
Arsenic (As)	µg/l	12 <	1.00	1.39	2.20	1.07	2.09	II
Aluminium (Al)	µg/l	12	105.00	426.83	1200.00	334.50	653.80	
Phenol index	mg/l	12	0.0008	0.0012	0.0034	0.0008	0.0021	
Anionic active surfactants (PAL-A)	mg/l	12 <	0.050	0.053	0.082	0.050	0.056	
AOX	µg/l	12	12.10	19.66	30.30	17.80	29.04	II
Petroleum hydrocarbons	mg/l	12 <	0.030	0.030	0.030	0.030	0.030	
PAHs (Borneff 6)	µg/l	12	0.007	0.038	0.156	0.021	0.061	
PCBs (7 congeners)	µg/l	12	0.002000	0.002000	0.002000	0.002000	0.002000	
Lindane (gama-HCH)	µg/l	12	0.0020	0.0020	0.0020	0.0020	0.0020	I
pp-DDT	µg/l	12	0.0020	0.0020	0.0020	0.0020	0.0020	II
Atrazine	µg/l	12 <	0.002	0.002	0.002	0.002	0.002	I
Chloroform	µg/l	12 <	0.03	0.17	0.90	0.10	0.28	II
Carbon tetrachloride	µg/l	12 <	0.10	0.10	0.10	0.10	0.10	II
Trichloroethylene	µg/l	12 <	0.10	0.10	0.10	0.10	0.10	II
Tetrachloroethylene	µg/l	12 <	0.10	0.10	0.10	0.10	0.10	II
Macrozoobenthos sapr. index	-	2	1.90	1.92	1.94			II
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	1.900	5.458	12.000	5.250	8.330	
Faecal coliforms (44 C)	1000CFU/100m	12	0.100	1.317	3.900	1.400	2.190	
Faecal streptococci	1000CFU/100m	12	0.100	1.033	2.700	0.750	2.170	
Salmonella	No/1l	12	0.0	0.0	0.0	0.0	0.0	

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

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

River: /Morava/Dyje
 Distance from the mouth 17
 Location: Middle

Catchment: 12540 km2
 Altitude: 155 m
 2004
 CZ02

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	12.3	37.5	171.2	25.3	81.9	
Temperature	°C	12	1.5	11.8	25.5	10.4	22.0	
Suspended solids	mg/l	12	7.6	21.3	35.6	22.6	33.0	
Dissolved oxygen	mg/l	12	7.3	10.9	15.7	10.3	7.5	I
BOD (5)	mg/l	12	2.1	3.5	5.3	3.2	5.1	III
COD (Mn)	mg/l	12	5.5	8.1	9.7	8.4	9.3	II
COD (Cr)	mg/l	12	19.7	24.7	31.2	24.5	28.2	III
TOC	mg/l	12	5.8	7.1	8.1	7.3	8.0	
DOC	mg/l	12	5.7	6.8	7.9	6.9	7.5	
pH	-	12	7.9	8.1	8.6	8.0	8.2	II
Alkalinity - total	mmol/l	12	2.0	2.6	3.1	2.7	3.0	II
Ammonium (NH4-N)	mg/l	12	0.034	0.197	0.630	0.169	0.339	III
Nitrite (NO2-N)	mg/l	12	0.020	0.038	0.087	0.035	0.044	II
Nitrate (NO3-N)	mg/l	12 <	0.700	2.777	5.870	2.280	5.262	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l	12	0.33	0.73	1.19	0.74	1.09	
Orthophosphate (PO4-P)	mg/l	12	0.089	0.268	0.616	0.206	0.477	IV
Total phosphorus	mg/l	12	0.118	0.323	0.715	0.229	0.619	IV
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	12 <	2.5	20.2	82.7	19.3	25.6	II
Conductivity	µS/cm	12	543	613	744	604	645	
Calcium (Ca++)	mg/l	12	44.3	51.9	61.5	50.9	57.7	
Sulphate (SO4--)	mg/l	12	85.0	100.0	123.4	99.5	113.1	
Magnesium (Mg++)	mg/l	12	14.6	18.6	22.7	18.7	22.2	
Potassium (K+)	mg/l	12	7.2	8.7	11.4	8.5	11.1	
Sodium (Na+)	mg/l	12	23.9	30.7	45.2	28.0	42.6	
Manganese (Mn)	mg/l	12	0.0460	0.1947	0.5950	0.1270	0.3457	
Iron (Fe)	mg/l	12 <	0.010	0.264	0.773	0.245	0.333	
Chloride (Cl-)	mg/l	12	35.1	42.1	59.4	41.3	46.4	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12 <	5.00	7.41	11.78	7.10	10.18	III
Copper (Cu), dissolved	µg/l	12	0.53	2.08	2.98	2.18	2.57	III
Chromium (Cr), total dissolved	µg/l	12 <	0.50	0.90	2.05	0.59	1.65	II
Lead (Pb), dissolved	µg/l	12 <	0.50	0.59	1.60	0.50	0.50	II
Cadmium (Cd), dissolved	µg/l	12 <	0.05 <	0.05 <	0.05	0.05	0.05	II
Mercury (Hg), dissolved	µg/l	12 <	0.100 <	0.100	0.100	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	12	2.95	4.39	6.24	4.58	5.46	III
Arsenic (As), dissolved	µg/l	12 <	1.00	2.31	6.14	1.30	4.65	III
Aluminium (Al), dissolved	µg/l	12 <	5.00	6.12	11.00	5.00	9.28	
Zinc (Zn)	µg/l	12 <	5.00	19.86	45.30	13.02	44.49	II
Copper (Cu)	µg/l	12	0.68	3.04	5.03	2.98	3.99	II
Chromium (Cr) - total	µg/l	12 <	0.50	1.16	3.59	1.02	1.67	II
Lead (Pb)	µg/l	12 <	0.50	1.13	2.52	1.15	1.62	II
Cadmium (Cd)	µg/l	12 <	0.05	0.05	0.09	0.05	0.05	II
Mercury (Hg)	µg/l	12 <	0.100	0.104	0.150	0.100	0.100	II
Nickel (Ni)	µg/l	12	3.63	6.66	12.50	5.90	9.71	II
Arsenic (As)	µg/l	12 <	1.00	2.57	6.96	1.83	4.69	II
Aluminium (Al)	µg/l	12	5.95	126.00	369.00	122.00	138.60	
Phenol index	mg/l	12	0.0008	0.0017	0.0084	0.0010	0.0026	
Anionic active surfactants (PAL-A)	mg/l	12 <	0.050	0.074	0.123	0.057	0.113	
AOX	µg/l	12	16.50	26.86	44.40	25.80	35.77	II
Petroleum hydrocarbons	mg/l	12 <	0.030	0.036	0.080	0.030	0.048	
PAHs (Borneff 6)	µg/l	12	0.008	0.022	0.049	0.015	0.046	
PCBs (7 congeners)	µg/l	12	0.002000	0.002000	0.002000	0.002000	0.002000	
Lindane (gama-HCH)	µg/l	12	0.0020	0.0020	0.0020	0.0020	0.0020	I
pp-DDT	µg/l	12	0.0020	0.0020	0.0020	0.0020	0.0020	II
Atrazine	µg/l	12 <	0.002 <	0.002	0.002	0.002	0.002	I
Chloroform	µg/l	12 <	0.03	0.22	1.00	0.10	0.39	II
Carbon tetrachloride	µg/l	12 <	0.10 <	0.10 <	0.10	0.10	0.10	II
Trichloroethylene	µg/l	12 <	0.10	0.10	0.10	0.10	0.10	II
Tetrachloroethylene	µg/l	12 <	0.10	0.10	0.10	0.10	0.10	II
Macrozoobenthos sapr. index	-	2	1.87	2.00	2.13			II
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	0.900	4.825	11.000	3.000	10.840	
Faecal coliforms (44 C)	1000CFU/100m	12	0.200	0.958	3.300	0.650	2.120	
Faecal streptococci	1000CFU/100m	12	0.100	0.858	2.200	0.700	1.890	
Salmonella	No/1l	12	0.0	0.0	0.0	0.0	0.0	

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

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

River: Danube	Catchment: 131329 km2	2004
Distance from the mouth 1869	Altitude: 128 m	SK01
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class	
Flow	m3/s								
Temperature	°C	12	1.7	10.2	18.5	11.5	17.6		
Suspended solids	mg/l	24	7.0	27.5	104.0	22.0	45.7		
Dissolved oxygen	mg/l	12	9.0	10.9	13.0	10.4	9.1	I	
BOD (5)	mg/l	24	1.2	2.3	4.2	2.2	3.5	II	
COD (Mn)	mg/l	12	1.5	2.7	5.3	2.7	3.5	I	
COD (Cr)	mg/l	13	8.1	11.2	16.9	9.6	16.3	II	
TOC	mg/l	13	1.8	2.6	3.3	2.5	3.1		
DOC	mg/l								
pH	-	12	8.0	8.2	8.4	8.1	8.3	II	
							8.1	II	
Alkalinity - total	mmol/l	12	2.5	3.0	3.7	3.0	3.6		
Ammonium (NH4-N)	mg/l	24	0.030	0.230	0.620	0.205	0.497	III	
Nitrite (NO2-N)	mg/l	24	0.004	0.018	0.035	0.016	0.030	II	
Nitrate (NO3-N)	mg/l	24	1.150	2.240	4.180	1.890	3.557	III	
Total nitrogen	mg/l	12	1.56	2.74	4.40	2.53	3.98	II	
Organic nitrogen	mg/l	12	0.10	0.39	0.73	0.37	0.69		
Orthophosphate (PO4-P)	mg/l	12	0.010	0.048	0.070	0.050	0.060	II	
Total phosphorus	mg/l	24	0.070	0.100	0.180	0.090	0.137	II	
Total phosphorus, dissolved	mg/l								
Chlorophyll A	µg/l	12	1.8	12.9	33.8	10.5	27.2	II	
Conductivity	µS/cm	12	352	436	535	430	521		
Calcium (Ca++)	mg/l	12	43.6	54.2	70.1	54.4	62.6		
Sulphate (SO4--)	mg/l	12	21.4	30.3	38.9	30.5	38.6		
Magnesium (Mg++)	mg/l	12	10.2	13.1	16.4	13.0	16.1		
Potassium (K+)	mg/l	12	2.0	2.8	3.6	2.8	3.4		
Sodium (Na+)	mg/l	12	8.3	12.6	18.0	12.0	17.6		
Manganese (Mn)	mg/l	12	0.0150	0.0438	0.1130	0.0305	0.1060		
Iron (Fe)	mg/l	12	0.033	0.280	1.000	0.193	0.535		
Chloride (Cl-)	mg/l	24	12.8	19.8	30.3	18.9	28.6		
Silicates (SiO2)	mg/l								
Zinc (Zn), dissolved	µg/l								
Copper (Cu), dissolved	µg/l								
Chromium (Cr), total dissolved	µg/l								
Lead (Pb), dissolved	µg/l								
Cadmium (Cd), dissolved	µg/l								
Mercury (Hg), dissolved	µg/l								
Nickel (Ni), dissolved	µg/l								
Arsenic (As), dissolved	µg/l								
Aluminium (Al), dissolved	µg/l								
Zinc (Zn)	µg/l	4	<	20.00	20.00	20.00	20.00	II	
Copper (Cu)	µg/l	4		1.20	1.48	1.80	1.45	II	
Chromium (Cr) - total	µg/l	4	<	0.20	0.53	1.00	0.45	II	
Lead (Pb)	µg/l	4	<	1.00	2.63	4.00	2.75	II	
Cadmium (Cd)	µg/l	4	<	0.05	0.06	0.08	0.05	II	
Mercury (Hg)	µg/l	4	<	0.100	0.100	0.100	0.100	II	
Nickel (Ni)	µg/l	4	<	1.00	1.45	2.40	1.20	II	
Arsenic (As)	µg/l	4	<	1.00	1.08	1.32	1.00	II	
Aluminium (Al)	µg/l	4		163.00	217.75	347.00	180.50		
Phenol index	mg/l	12		0.0060	0.0060	0.0060	0.0060		
Anionic active surfactants (PAL-A)	mg/l	12	<	0.030	0.035	0.060	0.030	0.049	
AOX	µg/l	12		14.40	34.48	168.00	20.50	39.63	II
Petroleum hydrocarbons	mg/l	12		0.010	0.025	0.040	0.020	0.039	
PAHs (Borneff 6)	µg/l								
PCBs (7 congeners)	µg/l								
Lindane (gama-HCH)	µg/l	2		0.0050	0.0050	0.0050		I	
pp-DDT	µg/l	2		0.0270	0.0270	0.0270		**	
Atrazine	µg/l								
Chloroform	µg/l	2	<	1.80	31.80	61.80		**	
Carbon tetrachloride	µg/l	2		1.20	1.20	1.20		II	
Trichloroethylene	µg/l	2	<	1.70	1.70	1.70		**	
Tetrachloroethylene	µg/l	2		2.10	2.10	2.10		IV	
Macrozoobenthos sapr. index	-								
Macrozoobenthos no. of taxa	-								
Total coliforms (37 C)	1000CFU/100m	12		0.120	1.771	17.000	0.290	1.080	
Faecal coliforms (44 C)	1000CFU/100m	12		0.600	2.875	13.000	1.950	3.710	
Faecal streptococci	1000CFU/100m	12		1.000	5.167	19.000	3.500	12.300	
Salmonella	No/1l								

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

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

River: Danube	Catchment: 131329 km2	2004
Distance from the mouth 1869	Altitude: 128 m	SK01
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	837.7	1851.7	4405.0	1804.5	2673.0	
Temperature	°C	12	1.8	10.3	18.4	11.6	17.6	
Suspended solids	mg/l	24	7.0	26.2	100.0	21.5	47.9	
Dissolved oxygen	mg/l	12	8.9	10.8	12.8	10.4	9.0	I
BOD (5)	mg/l	24	0.8	2.3	5.5	2.1	3.2	II
COD (Mn)	mg/l	12	1.6	2.4	4.7	2.3	3.0	I
COD (Cr)	mg/l	13	7.6	10.4	16.0	9.1	14.9	II
TOC	mg/l	13	1.9	2.6	3.8	2.7	3.0	
DOC	mg/l							
pH	-	12	8.1	8.2	8.3	8.2	8.2	II
							8.1	II
Alkalinity - total	mmol/l	12	2.5	3.0	3.7	3.1	3.6	
Ammonium (NH4-N)	mg/l	24	0.040	0.237	0.670	0.215	0.464	III
Nitrite (NO2-N)	mg/l	24 <	0.001	0.017	0.030	0.020	0.030	II
Nitrate (NO3-N)	mg/l	24	1.180	2.128	4.200	1.810	3.396	III
Total nitrogen	mg/l	12	1.49	2.60	4.22	2.31	3.83	II
Organic nitrogen	mg/l	12	0.10	0.33	0.63	0.33	0.47	
Orthophosphate (PO4-P)	mg/l	12	0.010	0.043	0.070	0.045	0.059	II
Total phosphorus	mg/l	24	0.050	0.088	0.150	0.080	0.127	II
Total phosphorus, dissolved	mg/l	12	0.030	0.053	0.080	0.050	0.080	
Chlorophyll A	µg/l	12	1.6	11.4	31.2	8.9	26.0	II
Conductivity	µS/cm	12	340	426	523	422	521	
Calcium (Ca++)	mg/l	12	42.9	54.1	70.0	54.0	63.0	
Sulphate (SO4--)	mg/l	12	25.9	34.3	44.0	32.6	43.2	
Magnesium (Mg++)	mg/l	12	10.0	13.0	16.4	12.9	16.2	
Potassium (K+)	mg/l	12	1.9	2.4	3.2	2.3	3.0	
Sodium (Na+)	mg/l	12	7.3	11.7	18.5	10.8	16.4	
Manganese (Mn)	mg/l	12	0.0200	0.0608	0.3400	0.0300	0.0880	
Iron (Fe)	mg/l	12	0.050	0.257	0.950	0.195	0.544	
Chloride (Cl-)	mg/l	24	11.9	18.8	30.3	18.0	27.9	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12 <	20.00 <	20.00 <	20.00	20.00	20.00	**
Copper (Cu), dissolved	µg/l	12	0.50	1.15	1.70	1.10	1.67	II
Chromium (Cr), total dissolved	µg/l	12 <	0.20	0.27	1.00	0.20	0.20	II
Lead (Pb), dissolved	µg/l	12	1.00	1.40	2.40	1.15	2.27	III
Cadmium (Cd), dissolved	µg/l	12	0.05	0.05	0.07	0.05	0.05	II
Mercury (Hg), dissolved	µg/l	12 <	0.100 <	0.100 :	0.100	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	12 <	1.00	1.15	2.00	1.00	1.72	III
Arsenic (As), dissolved	µg/l	12 <	1.00	1.06	1.68	1.00	1.00	II
Aluminium (Al), dissolved	µg/l	12	10.00	16.75	55.00	14.00	17.80	
Zinc (Zn)	µg/l	12 <	20.00 <	20.00 <	20.00	20.00	20.00	II
Copper (Cu)	µg/l	12	1.10	1.75	3.70	1.65	2.17	II
Chromium (Cr) - total	µg/l	5 <	0.20 <	0.20 <	0.20	0.20	0.20	II
Lead (Pb)	µg/l	12 <	1.00	2.09	4.90	1.95	2.68	II
Cadmium (Cd)	µg/l	12 <	0.05	0.06	0.10	0.05	0.08	II
Mercury (Hg)	µg/l	12 <	0.100 <	0.100 :	0.100	0.100	0.100	II
Nickel (Ni)	µg/l	12 <	1.00	1.43	2.50	1.00	2.47	II
Arsenic (As)	µg/l	12 <	1.00	1.15	2.04	1.00	1.31	II
Aluminium (Al)	µg/l	12	112.00	331.42	950.00	209.50	871.50	
Phenol index	mg/l	12	0.0060	0.0060	0.0060	0.0060	0.0060	
Anionic active surfactants (PAL-A)	mg/l	12 <	0.030	0.036	0.070	0.030	0.057	
AOX	µg/l	12	11.00	25.73	123.00	17.30	27.10	II
Petroleum hydrocarbons	mg/l	12	0.010	0.033	0.080	0.020	0.060	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	2	0.0050	0.0050	0.0050			I
pp-DDT	µg/l	2	0.0270	0.0270	0.0270			**
Atrazine	µg/l							
Chloroform	µg/l	2 <	1.80 <	1.80 <	1.80			**
Carbon tetrachloride	µg/l	2	1.20	1.20	1.20			III
Trichloroethylene	µg/l	2 <	1.70 <	1.70 <	1.70			**
Tetrachloroethylene	µg/l	2	2.10	2.10	2.10			IV
Macrozoobenthos sapr. index	-	2	2.14	2.17	2.19			II
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	0.070	0.733	3.200	0.285	1.635	
Faecal coliforms (44 C)	1000CFU/100m	12	0.600	4.225	11.500	3.350	10.380	
Faecal streptococci	1000CFU/100m	12	0.000	6.417	43.000	3.000	6.800	
Salmonella	No/1l							

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

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

River: Danube	Catchment: 131329 km2	2004
Distance from the mouth 1869	Altitude: 128 m	SK01
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class			
Flow	m3/s										
Temperature	°C	12	1.8	10.2	18.4	11.3	17.4				
Suspended solids	mg/l	24	6.0	23.0	92.0	16.0	43.7				
Dissolved oxygen	mg/l	12	8.5	10.5	12.6	10.5	8.8	I			
BOD (5)	mg/l	24	1.2	2.3	4.9	2.3	3.2	II			
COD (Mn)	mg/l	12	1.5	2.4	4.5	2.2	2.8	I			
COD (Cr)	mg/l	13	7.6	10.1	15.9	9.0	13.7	II			
TOC	mg/l	13	1.9	2.5	3.1	2.5	3.0				
DOC	mg/l										
pH	-	12	8.0	8.2	8.3	8.2	8.2	II			
							8.1	II			
Alkalinity - total	mmol/l	12	2.5	3.1	3.7	3.1	3.5				
Ammonium (NH4-N)	mg/l	24	0.040	0.265	0.650	0.260	0.465	III			
Nitrite (NO2-N)	mg/l	24	0.005	0.022	0.034	0.022	0.032	II			
Nitrate (NO3-N)	mg/l	24	1.230	2.096	4.130	1.825	3.303	III			
Total nitrogen	mg/l	12	1.70	2.65	4.31	2.31	3.64	II			
Organic nitrogen	mg/l	12	0.10	0.35	0.62	0.35	0.51				
Orthophosphate (PO4-P)	mg/l	12	0.010	0.033	0.050	0.035	0.040	I			
Total phosphorus	mg/l	24	0.050	0.076	0.130	0.070	0.100	I			
Total phosphorus, dissolved	mg/l										
Chlorophyll A	µg/l	12	1.3	10.3	27.7	6.6	24.6	I			
Conductivity	µS/cm	12	332	422	528	418	514				
Calcium (Ca++)	mg/l	12	42.0	53.3	68.7	53.7	62.7				
Sulphate (SO4--)	mg/l	12	19.3	27.6	38.0	26.9	33.8				
Magnesium (Mg++)	mg/l	12	9.8	12.7	16.5	12.9	15.7				
Potassium (K+)	mg/l	12	1.7	2.2	2.7	2.2	2.7				
Sodium (Na+)	mg/l	12	6.9	10.9	17.5	10.3	16.0				
Manganese (Mn)	mg/l	12	0.0050	0.0221	0.0800	0.0180	0.0326				
Iron (Fe)	mg/l	12	0.020	0.236	0.870	0.144	0.561				
Chloride (Cl-)	mg/l	24	11.2	18.5	31.2	17.3	28.2				
Silicates (SiO2)	mg/l										
Zinc (Zn), dissolved	µg/l										
Copper (Cu), dissolved	µg/l										
Chromium (Cr), total dissolved	µg/l										
Lead (Pb), dissolved	µg/l										
Cadmium (Cd), dissolved	µg/l										
Mercury (Hg), dissolved	µg/l										
Nickel (Ni), dissolved	µg/l										
Arsenic (As), dissolved	µg/l										
Aluminium (Al), dissolved	µg/l										
Zinc (Zn)	µg/l	4	<	20.00	<	20.00	<	20.00	II		
Copper (Cu)	µg/l	4		0.90		1.63		2.70	II		
Chromium (Cr) - total	µg/l	4	<	0.20		0.38		0.70	II		
Lead (Pb)	µg/l	4	<	1.00		1.25		2.00	II		
Cadmium (Cd)	µg/l	4	<	0.05		0.06		0.08	II		
Mercury (Hg)	µg/l	4	<	0.100	<	0.100	:	0.100	II		
Nickel (Ni)	µg/l	4	<	1.00		1.08		1.30	II		
Arsenic (As)	µg/l	4	<	1.00		1.07		1.26	II		
Aluminium (Al)	µg/l	4		114.00		207.00		348.00	183.00		
Phenol index	mg/l	12		0.0060		0.0060		0.0060	0.0060		
Anionic active surfactants (PAL-A)	mg/l	12	<	0.030		0.034		0.060	0.030	0.040	
AOX	µg/l	12		10.00		18.33		31.00	17.20	23.90	II
Petroleum hydrocarbons	mg/l	12		0.010		0.021		0.030	0.020	0.030	
PAHs (Borneff 6)	µg/l										
PCBs (7 congeners)	µg/l										
Lindane (gama-HCH)	µg/l	2		0.0050		0.0050		0.0050			I
pp-DDT	µg/l	2		0.0270		0.0270		0.0270			**
Atrazine	µg/l										
Chloroform	µg/l	2	<	1.80	<	1.80	<	1.80			**
Carbon tetrachloride	µg/l	2		1.20		1.20		1.20			III
Trichloroethylene	µg/l	2	<	1.70	<	1.70	<	1.70			**
Tetrachloroethylene	µg/l	2		2.10		2.10		2.10			IV
Macrozoobenthos sapr. index	-										
Macrozoobenthos no. of taxa	-										
Total coliforms (37 C)	1000CFU/100m	12		0.050		0.717		2.300	0.625	1.145	
Faecal coliforms (44 C)	1000CFU/100m	12		9.000		26.917		91.000	20.250	32.800	
Faecal streptococci	1000CFU/100m	12		1.000		7.500		21.000	5.000	19.200	
Salmonella	No/1l										

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

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

River: Danube	Catchment: 132168 km2	2004
Distance from the mouth 1806	Altitude: 108 m	SK02
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	795.8	1790.5	4168.0	1727.0	2589.8	
Temperature	°C	12	2.1	10.8	19.2	10.7	18.7	
Suspended solids	mg/l	12	7.0	16.1	50.0	9.0	27.5	
Dissolved oxygen	mg/l	12	8.5	10.6	12.9	10.4	8.5	I
BOD (5)	mg/l	12	1.1	2.0	3.6	2.0	3.3	II
COD (Mn)	mg/l	12	1.6	2.3	4.2	2.1	3.0	I
COD (Cr)	mg/l	12	7.1	9.4	12.9	8.6	12.4	II
TOC	mg/l	12	2.0	2.5	3.2	2.5	2.9	
DOC	mg/l							
pH	-	12	8.0	8.2	8.4	8.2	8.3	II
							8.0	II
Alkalinity - total	mmol/l	12	2.5	3.1	3.6	3.1	3.6	
Ammonium (NH4-N)	mg/l	12	0.030	0.107	0.220	0.085	0.208	II
Nitrite (NO2-N)	mg/l	12	0.007	0.018	0.029	0.014	0.028	II
Nitrate (NO3-N)	mg/l	12	1.190	1.966	3.500	1.660	2.937	II
Total nitrogen	mg/l	12	1.50	2.42	4.24	2.01	3.56	II
Organic nitrogen	mg/l	12	0.10	0.34	0.67	0.33	0.55	
Orthophosphate (PO4-P)	mg/l	12	0.020	0.037	0.060	0.035	0.050	I
Total phosphorus	mg/l	12	0.050	0.068	0.100	0.065	0.080	I
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	12	0.5	13.6	37.9	12.7	27.6	II
Conductivity	µS/cm	12	341	425	515	423	509	
Calcium (Ca++)	mg/l	12	45.2	55.4	68.5	55.3	63.9	
Sulphate (SO4--)	mg/l	12	20.2	28.2	38.4	26.8	35.4	
Magnesium (Mg++)	mg/l	12	10.5	13.2	16.8	13.0	15.8	
Potassium (K+)	mg/l	12	1.8	2.3	2.8	2.2	2.7	
Sodium (Na+)	mg/l	12	7.2	11.3	16.8	10.7	16.0	
Manganese (Mn)	mg/l	12	0.0130	0.0288	0.0490	0.0275	0.0399	
Iron (Fe)	mg/l	12	0.021	0.187	0.502	0.150	0.344	
Chloride (Cl-)	mg/l	12	11.5	18.4	28.2	16.7	26.5	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12 <	20.00 <	20.00 <	20.00	20.00	20.00	**
Copper (Cu), dissolved	µg/l	12 <	0.50	0.83	1.70	0.70	1.10	II
Chromium (Cr), total dissolved	µg/l	12 <	0.20	0.22	0.40	0.20	0.20	II
Lead (Pb), dissolved	µg/l	12	1.00	1.33	2.60	1.00	2.04	III
Cadmium (Cd), dissolved	µg/l	12	0.05	0.05	0.07	0.05	0.07	II
Mercury (Hg), dissolved	µg/l	12 <	0.100 <	0.100 :	0.100	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	12 <	1.00	1.17	2.40	1.00	1.54	III
Arsenic (As), dissolved	µg/l	12 <	1.00	1.02	1.15	1.00	1.05	III
Aluminium (Al), dissolved	µg/l	12	10.00	14.42	25.00	12.50	20.80	
Zinc (Zn)	µg/l	12 <	20.00 <	20.00 <	20.00	20.00	20.00	II
Copper (Cu)	µg/l	12 <	0.50	1.43	1.90	1.50	1.90	II
Chromium (Cr) - total	µg/l	12 <	0.20	0.35	1.00	0.20	0.67	II
Lead (Pb)	µg/l	12 <	1.00	2.18	3.40	1.85	3.27	II
Cadmium (Cd)	µg/l	12 <	0.05	0.06	0.08	0.05	0.08	II
Mercury (Hg)	µg/l	12 <	0.100 <	0.100 :	0.100	0.100	0.100	II
Nickel (Ni)	µg/l	12 <	1.00	1.44	2.80	1.00	2.38	II
Arsenic (As)	µg/l	12 <	1.00	1.06	1.32	1.00	1.20	II
Aluminium (Al)	µg/l	12	111.00	212.42	475.00	172.00	368.80	
Phenol index	mg/l	1	0.0060	0.0060	0.0060			
Anionic active surfactants (PAL-A)	mg/l	12 <	0.030	0.033	0.050	0.030	0.040	
AOX	µg/l	12	13.00	20.08	53.00	15.80	22.90	II
Petroleum hydrocarbons	mg/l	12	0.010	0.018	0.030	0.020	0.029	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	2	0.0050	0.0050	0.0050			I
pp-DDT	µg/l	2	0.0270	0.0270	0.0270			**
Atrazine	µg/l							
Chloroform	µg/l	2 <	1.80	3.40	5.00			**
Carbon tetrachloride	µg/l	2	1.20	1.20	1.20			III
Trichloroethylene	µg/l	2 <	1.70 <	1.70 <	1.70			**
Tetrachloroethylene	µg/l	2	2.10	2.10	2.10			IV
Macrozoobenthos sapr. index	-	2	2.06	2.10	2.13			II
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	0.000	0.107	0.300	0.075	0.216	
Faecal coliforms (44 C)	1000CFU/100m	12	0.600	2.700	5.600	2.350	3.890	
Faecal streptococci	1000CFU/100m	12	0.000	1.500	10.000	0.000	5.500	
Salmonella	No/1l							

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

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

River: Danube	Catchment: 151961 km2	2004
Distance from the mouth 1768	Altitude: 103 m	SK03
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	836.3	1847.0	3831.0	1779.0	2735.2	
Temperature	°C	12	1.3	11.0	20.0	11.0	18.9	
Suspended solids	mg/l	12	6.0	15.6	43.0	11.0	34.4	
Dissolved oxygen	mg/l	12	8.1	10.6	13.2	10.7	8.3	I
BOD (5)	mg/l	12	0.7	1.8	3.2	1.7	2.9	I
COD (Mn)	mg/l	12	1.5	2.5	4.2	2.3	3.4	I
COD (Cr)	mg/l	12	6.9	9.7	14.0	9.1	13.4	II
TOC	mg/l	12	2.1	2.7	3.3	2.6	3.2	
DOC	mg/l							
pH	-	12	8.0	8.2	8.4	8.2	8.3	II
							8.0	II
Alkalinity - total	mmol/l	12	2.5	3.1	3.7	3.1	3.5	
Ammonium (NH4-N)	mg/l	12	0.030	0.129	0.260	0.105	0.225	II
Nitrite (NO2-N)	mg/l	12	0.003	0.020	0.031	0.018	0.028	II
Nitrate (NO3-N)	mg/l	12	1.340	2.098	3.500	1.840	3.122	III
Total nitrogen	mg/l	12	1.71	2.60	4.29	2.26	3.68	II
Organic nitrogen	mg/l	12	0.10	0.36	0.81	0.31	0.55	
Orthophosphate (PO4-P)	mg/l	12	0.010	0.048	0.070	0.050	0.069	II
Total phosphorus	mg/l	12	0.060	0.084	0.110	0.085	0.099	I
Total phosphorus, dissolved	mg/l	12	0.030	0.055	0.090	0.055	0.070	
Chlorophyll A	µg/l	12	1.2	13.5	43.6	9.5	30.8	II
Conductivity	µS/cm	12	362	441	535	436	521	
Calcium (Ca++)	mg/l	12	46.5	56.1	69.2	56.2	64.9	
Sulphate (SO4--)	mg/l	12	25.5	32.7	41.8	32.8	40.4	
Magnesium (Mg++)	mg/l	12	11.2	13.9	17.6	13.7	16.1	
Potassium (K+)	mg/l	12	2.2	2.6	2.9	2.6	2.8	
Sodium (Na+)	mg/l	12	8.7	12.8	17.8	12.3	16.7	
Manganese (Mn)	mg/l	12	0.0050	0.0259	0.0510	0.0240	0.0494	
Iron (Fe)	mg/l	12	0.017	0.181	0.490	0.172	0.385	
Chloride (Cl-)	mg/l	12	13.1	19.9	29.0	18.4	27.1	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12 <	20.00 <	20.00 <	20.00	20.00	20.00	**
Copper (Cu), dissolved	µg/l	12 <	0.50	1.05	1.90	1.00	1.49	II
Chromium (Cr), total dissolved	µg/l	12 <	0.20	0.22	0.30	0.20	0.29	II
Lead (Pb), dissolved	µg/l	12	1.00	1.27	2.10	1.05	1.86	III
Cadmium (Cd), dissolved	µg/l	12	0.05	0.06	0.09	0.05	0.08	II
Mercury (Hg), dissolved	µg/l	12 <	0.100 <	0.100 :	0.100	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	12 <	1.00	1.18	2.00	1.00	1.60	III
Arsenic (As), dissolved	µg/l	12 <	1.00	1.05	1.15	1.00	1.15	III
Aluminium (Al), dissolved	µg/l	12	10.00	15.00	24.00	11.00	23.80	
Zinc (Zn)	µg/l	12 <	20.00 <	20.00 <	20.00	20.00	20.00	II
Copper (Cu)	µg/l	12 <	0.50	1.59	3.10	1.40	2.61	II
Chromium (Cr) - total	µg/l	12 <	0.20	0.36	1.20	0.25	0.49	II
Lead (Pb)	µg/l	12 <	1.00	2.07	3.50	2.15	3.23	II
Cadmium (Cd)	µg/l	12 <	0.05	0.07	0.11	0.05	0.11	II
Mercury (Hg)	µg/l	12 <	0.100 <	0.100 :	0.100	0.100	0.100	II
Nickel (Ni)	µg/l	12 <	1.00	1.61	3.50	1.20	2.45	II
Arsenic (As)	µg/l	12 <	1.00	1.10	1.41	1.00	1.36	II
Aluminium (Al)	µg/l	12	113.00	208.50	450.00	172.00	304.70	
Phenol index	mg/l	12	0.0060	0.0060	0.0060	0.0060	0.0060	
Anionic active surfactants (PAL-A)	mg/l	12 <	0.030	0.032	0.040	0.030	0.039	
AOX	µg/l	12	11.00	43.15	150.00	22.60	119.20	IV
Petroleum hydrocarbons	mg/l	12	0.010	0.018	0.030	0.020	0.029	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	2	0.0050	0.0050	0.0050			I
pp-DDT	µg/l	2	0.0270	0.0270	0.0270			**
Atrazine	µg/l							
Chloroform	µg/l	2 <	1.80	2.90	4.00			**
Carbon tetrachloride	µg/l	2	1.20	1.20	1.20			III
Trichloroethylene	µg/l	2 <	1.70 <	1.70 <	1.70			**
Tetrachloroethylene	µg/l	2	2.10	2.10	2.10			IV
Macrozoobenthos sapr. index	-	2	2.04	2.07	2.09			II
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	0.240	0.953	1.400	1.000	1.240	
Faecal coliforms (44 C)	1000CFU/100m	12	0.000	0.475	1.700	0.350	0.700	
Faecal streptococci	1000CFU/100m	12	0.000	3.167	7.000	3.500	5.900	
Salmonella	No/1l							

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

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

River: /Vah
 Distance from the mouth 1
 Location: Middle

Catchment: 19661 km2
 Altitude: 106 m
 2004
 SK04

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	12	1.0	11.2	21.8	11.5	20.8	
Suspended solids	mg/l	12	6.0	15.8	31.0	15.5	26.3	
Dissolved oxygen	mg/l	12	7.7	10.1	13.2	9.3	8.2	I
BOD (5)	mg/l	12	1.5	3.0	6.7	2.5	4.5	II
COD (Mn)	mg/l	12	2.1	2.9	3.9	2.7	3.5	I
COD (Cr)	mg/l	12	10.5	12.3	16.3	12.0	14.1	II
TOC	mg/l	12	2.9	3.1	3.9	3.1	3.4	
DOC	mg/l							
pH	-	12	8.0	8.1	8.3	8.1	8.2	II
							8.1	II
Alkalinity - total	mmol/l	12	3.0	3.4	4.0	3.3	3.9	
Ammonium (NH4-N)	mg/l	12	0.120	0.495	1.100	0.465	0.837	IV
Nitrite (NO2-N)	mg/l	12	0.019	0.038	0.060	0.039	0.049	II
Nitrate (NO3-N)	mg/l	12	1.420	2.002	3.190	1.735	2.926	II
Total nitrogen	mg/l	12	2.10	2.98	4.81	2.76	4.14	III
Organic nitrogen	mg/l	12	0.16	0.44	0.74	0.45	0.69	
Orthophosphate (PO4-P)	mg/l	12	0.040	0.137	0.240	0.130	0.207	IV
Total phosphorus	mg/l	12	0.130	0.199	0.330	0.190	0.282	III
Total phosphorus, dissolved	mg/l	12	0.080	0.150	0.250	0.145	0.216	
Chlorophyll A	µg/l	12	1.2	10.1	21.6	10.9	16.8	I
Conductivity	µS/cm	12	428	497	607	478	599	
Calcium (Ca++)	mg/l	12	51.8	60.4	74.5	60.0	67.6	
Sulphate (SO4--)	mg/l	12	34.2	42.0	54.0	40.7	51.3	
Magnesium (Mg++)	mg/l	12	12.1	14.5	17.9	13.9	17.1	
Potassium (K+)	mg/l	12	2.8	3.4	4.3	3.3	4.0	
Sodium (Na+)	mg/l	12	12.0	17.0	25.0	16.2	21.8	
Manganese (Mn)	mg/l	12	0.0120	0.0353	0.0530	0.0330	0.0518	
Iron (Fe)	mg/l	12	0.023	0.156	0.299	0.146	0.279	
Chloride (Cl-)	mg/l	12	15.4	23.5	38.5	21.1	36.5	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12 <	20.00 <	20.00 <	20.00	20.00	20.00	**
Copper (Cu), dissolved	µg/l	12 <	0.50	0.82	1.90	0.50	1.40	II
Chromium (Cr), total dissolved	µg/l	12 <	0.20 <	0.20 <	0.20	0.20	0.20	II
Lead (Pb), dissolved	µg/l	12	1.00	1.37	2.60	1.00	2.15	III
Cadmium (Cd), dissolved	µg/l	12	0.05	0.06	0.11	0.05	0.09	II
Mercury (Hg), dissolved	µg/l	11 <	0.100 <	0.100 :	0.100	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	12 <	1.00	1.15	1.90	1.00	1.73	III
Arsenic (As), dissolved	µg/l	12	1.38	2.54	5.03	2.30	4.27	III
Aluminium (Al), dissolved	µg/l	12	10.00	12.25	20.00	10.00	17.70	
Zinc (Zn)	µg/l	12 <	20.00 <	20.00 <	20.00	20.00	20.00	II
Copper (Cu)	µg/l	12	0.70	1.45	2.10	1.50	1.98	II
Chromium (Cr) - total	µg/l	12 <	0.20	0.33	1.10	0.20	0.40	II
Lead (Pb)	µg/l	12 <	1.00	2.29	4.10	2.20	3.99	II
Cadmium (Cd)	µg/l	12 <	0.05	0.07	0.14	0.05	0.11	II
Mercury (Hg)	µg/l	12 <	0.100 <	0.100 :	0.100	0.100	0.100	II
Nickel (Ni)	µg/l	12 <	1.00	1.27	2.10	1.00	1.96	II
Arsenic (As)	µg/l	12 <	1.00	2.72	5.74	2.45	5.23	III
Aluminium (Al)	µg/l	12	10.00	314.25	916.00	226.00	592.80	
Phenol index	mg/l	12	0.0060	0.0060	0.0060	0.0060	0.0060	
Anionic active surfactants (PAL-A)	mg/l	12 <	0.030	0.046	0.070	0.040	0.059	
AOX	µg/l	12	17.00	27.38	60.00	26.50	33.60	II
Petroleum hydrocarbons	mg/l	12	0.020	0.030	0.060	0.030	0.048	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	2	0.0050	0.0050	0.0050			I
pp-DDT	µg/l	2	0.0270	0.0270	0.0270			**
Atrazine	µg/l							
Chloroform	µg/l	2 <	1.80 <	1.80 <	1.80			**
Carbon tetrachloride	µg/l	2	1.20	1.20	1.20			III
Trichloroethylene	µg/l	2 <	1.70 <	1.70 <	1.70			**
Tetrachloroethylene	µg/l	2	2.10	2.10	2.10			IV
Macrozoobenthos sapr. index	-	2	2.20	2.55	2.89			IV
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	2.050	7.558	28.500	5.650	10.700	
Faecal coliforms (44 C)	1000CFU/100m	12	0.300	4.067	23.500	1.950	6.600	
Faecal streptococci	1000CFU/100m	12	6.000	26.000	57.000	28.000	42.600	
Salmonella	No/1l							

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

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

River: Danube	Catchment: 131605 km2	2004
Distance from the mouth 1806	Altitude: 108 m	H01
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	364	775.0	1752.8	4390.0	1710.0	2587.0	
Temperature	°C	27	1.5	10.5	20.2	11.5	18.2	
Suspended solids	mg/l	18	2.0	18.3	43.0	14.5	36.1	
Dissolved oxygen	mg/l	27	6.6	11.3	15.2	11.4	9.7	I
BOD (5)	mg/l	26	< 0.5	2.6	7.3	2.5	4.1	II
COD (Mn)	mg/l	27	2.1	3.0	6.1	2.6	3.9	I
COD (Cr)	mg/l	27	6.0	9.5	15.0	9.0	13.4	II
TOC	mg/l							
DOC	mg/l							
pH	-	27	7.0	8.1	8.5	8.2	8.4	II
							7.9	II
Alkalinity - total	mmol/l	13	2.7	3.4	4.2	3.6	3.8	
Ammonium (NH4-N)	mg/l	27	0.020	0.056	0.200	0.020	0.148	I
Nitrite (NO2-N)	mg/l	27	0.008	0.019	0.036	0.016	0.033	II
Nitrate (NO3-N)	mg/l	27	0.930	1.946	4.270	1.650	3.068	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l	23	0.01	0.93	5.38	0.49	1.81	
Orthophosphate (PO4-P)	mg/l	27	0.007	0.034	0.085	0.033	0.059	II
Total phosphorus	mg/l	27	0.050	0.097	0.162	0.090	0.129	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	27	< 1.0	18.7	84.1	9.5	48.8	II
Conductivity	µS/cm	27	302	391	833	376	459	
Calcium (Ca++)	mg/l	13	46.0	58.2	68.0	56.0	67.6	
Sulphate (SO4--)	mg/l	13	27.8	34.7	44.2	33.6	41.4	
Magnesium (Mg++)	mg/l	13	7.3	13.5	18.2	13.4	17.0	
Potassium (K+)	mg/l	11	1.8	2.2	3.2	2.0	2.8	
Sodium (Na+)	mg/l	18	< 0.0	84.0	240.0	90.0	184.2	
Manganese (Mn)	mg/l	13	0.0400	0.0985	0.2400	0.0700	0.1980	
Iron (Fe)	mg/l	12	< 0.040	0.198	0.470	0.155	0.401	
Chloride (Cl-)	mg/l	13	18.5	28.5	38.3	28.4	37.6	
Silicates (SiO2)	mg/l	11	2.10	5.05	7.50	5.00	6.90	
Zinc (Zn), dissolved	µg/l	12	< 5.00	10.83	47.00	5.00	29.40	III
Copper (Cu), dissolved	µg/l	12	0.89	4.72	31.40	2.46	3.33	III
Chromium (Cr), total dissolved	µg/l	12	< 0.20	1.43	4.13	1.09	3.27	III
Lead (Pb), dissolved	µg/l	12	< 0.20	0.32	1.34	0.20	0.38	II
Cadmium (Cd), dissolved	µg/l	12	< 0.02	0.02	0.05	0.02	0.03	II
Mercury (Hg), dissolved	µg/l	12	< 0.050	0.170	0.530	0.115	0.388	III
Nickel (Ni), dissolved	µg/l	12	0.56	1.74	3.20	1.50	2.81	III
Arsenic (As), dissolved	µg/l	12	0.48	0.86	1.31	0.84	1.07	III
Aluminium (Al), dissolved	µg/l	12	4.20	72.44	169.00	63.05	152.40	
Zinc (Zn)	µg/l	12	9.00	24.75	72.00	18.00	38.60	II
Copper (Cu)	µg/l	12	2.27	5.82	31.50	3.26	5.17	II
Chromium (Cr) - total	µg/l	12	1.45	3.99	7.45	3.41	6.30	II
Lead (Pb)	µg/l	12	0.44	0.88	1.61	0.76	1.61	II
Cadmium (Cd)	µg/l	12	< 0.02	0.03	0.08	0.03	0.05	II
Mercury (Hg)	µg/l	12	< 0.050	2.087	21.000	0.195	1.157	V
Nickel (Ni)	µg/l	12	0.90	2.53	6.42	2.06	3.46	II
Arsenic (As)	µg/l	12	0.74	1.31	3.28	1.12	1.72	II
Aluminium (Al)	µg/l	12	100.00	501.58	1400.00	310.00	1175.00	
Phenol index	mg/l	16	0.0020	0.0020	0.0020	0.0020	0.0020	
Anionic active surfactants (PAL-A)	mg/l	27	< 0.020	< 0.020	0.020	0.020	0.020	
AOX	µg/l	11	10.60	13.92	17.80	13.00	17.40	II
Petroleum hydrocarbons	mg/l	11	< 0.010	0.012	0.020	0.010	0.020	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.0010	0.0010	0.0010	0.0010	0.0010	I
pp-DDT	µg/l	12	0.0050	0.0050	0.0050	0.0050	0.0050	II
Atrazine	µg/l	12	< 0.001	0.026	0.164	0.014	0.030	II
Chloroform	µg/l	12	< 0.10	0.23	0.40	0.30	0.39	II
Carbon tetrachloride	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Trichloroethylene	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Tetrachloroethylene	µg/l	12	< 0.10	0.10	0.10	0.10	0.10	II
Macrozoobenthos sapr. index	-	2	2.01	2.06	2.11			II
Macrozoobenthos no. of taxa	-	2	7	11	15			
Total coliforms (37 C)	1000CFU/100m	9	0.100	1.411	5.000	0.900		
Faecal coliforms (44 C)	1000CFU/100m	12	0.000	0.725	2.200	0.550	1.900	
Faecal streptococci	1000CFU/100m	12	0.000	0.367	2.000	0.150	0.780	
Salmonella	No/1l							

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

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

River: Danube	Catchment: 150820 km2	2004
Distance from the mouth 1768	Altitude: 101 m	H02
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	26	2.5	11.2	20.6	11.1	19.9	
Suspended solids	mg/l	12	2.0	16.9	47.0	12.5	31.9	
Dissolved oxygen	mg/l	26	< 0.1	10.1	14.1	10.3	8.2	**
BOD (5)	mg/l	25	< 0.5	2.3	6.1	2.2	4.5	II
COD (Mn)	mg/l	26	1.9	3.3	6.1	3.3	4.3	I
COD (Cr)	mg/l	26	4.0	10.5	19.0	10.5	14.0	II
TOC	mg/l							
DOC	mg/l							
pH	-	26	7.0	8.1	8.8	8.2	8.4	II
							7.9	II
Alkalinity - total	mmol/l	12	2.7	3.4	3.8	3.4	3.8	
Ammonium (NH4-N)	mg/l	26	0.020	0.067	0.210	0.030	0.200	I
Nitrite (NO2-N)	mg/l	26	0.009	0.021	0.037	0.020	0.033	II
Nitrate (NO3-N)	mg/l	26	1.020	2.043	4.200	1.780	3.210	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l	22	0.04	0.76	2.25	0.56	1.86	
Orthophosphate (PO4-P)	mg/l	26	0.007	0.056	0.170	0.053	0.093	II
Total phosphorus	mg/l	26	0.060	0.135	0.310	0.113	0.195	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	26	< 1.0	17.3	82.3	8.3	51.5	III
Conductivity	µS/cm	26	322	386	472	391	462	
Calcium (Ca++)	mg/l	12	48.0	57.2	68.0	55.0	67.8	
Sulphate (SO4--)	mg/l	12	30.7	38.0	48.5	37.7	46.7	
Magnesium (Mg++)	mg/l	12	10.9	14.0	17.0	14.6	15.8	
Potassium (K+)	mg/l	10	1.8	2.2	3.2	2.0		
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	1	0.0400	0.0400	0.0400			
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	19.8	29.4	41.2	27.3	38.1	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	15	0.0020	0.0020	0.0020	0.0020	0.0020	
Anionic active surfactants (PAL-A)	mg/l	26	< 0.020	< 0.020	: 0.020	0.020	0.020	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	5	0.320	11.454	40.000	7.000		
Faecal coliforms (44 C)	1000CFU/100m	6	1.000	9.100	17.600	9.500		
Faecal streptococci	1000CFU/100m	6	0.200	0.583	1.000	0.600		
Salmonella	No/1l	7	0.0	0.3	1.0	0.0		

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

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

River: Danube	Catchment: 150820 km2	2004
Distance from the mouth 1768	Altitude: 101 m	H02
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	921.0	1853.7	4260.0	1770.0	2680.0	
Temperature	°C	27	1.3	10.7	20.7	10.8	19.4	
Suspended solids	mg/l	16	2.0	20.6	50.0	14.5	43.5	
Dissolved oxygen	mg/l	26	7.7	11.0	14.9	11.2	8.7	I
BOD (5)	mg/l	27	< 0.5	2.5	4.9	2.4	4.5	II
COD (Mn)	mg/l	27	2.0	3.3	6.4	3.0	4.6	I
COD (Cr)	mg/l	27	6.0	10.4	20.0	10.0	14.4	II
TOC	mg/l							
DOC	mg/l							
pH	-	27	7.0	8.1	8.8	8.1	8.4	II
							7.8	II
Alkalinity - total	mmol/l	13	2.8	3.4	4.1	3.4	3.7	
Ammonium (NH4-N)	mg/l	27	0.020	0.070	0.210	0.040	0.194	I
Nitrite (NO2-N)	mg/l	27	0.010	0.021	0.036	0.020	0.034	II
Nitrate (NO3-N)	mg/l	27	1.020	2.117	4.380	1.760	3.398	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l	23	0.04	0.65	1.85	0.42	1.35	
Orthophosphate (PO4-P)	mg/l	27	0.007	0.049	0.143	0.055	0.079	II
Total phosphorus	mg/l	27	< 0.030	0.129	0.340	0.110	0.208	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	27	< 1.0	17.1	82.9	9.5	42.2	II
Conductivity	µS/cm	27	319	389	472	398	466	
Calcium (Ca++)	mg/l	13	48.0	57.7	68.0	58.0	66.0	
Sulphate (SO4--)	mg/l	13	29.8	37.9	49.0	37.4	46.0	
Magnesium (Mg++)	mg/l	13	10.9	13.8	18.2	13.4	17.0	
Potassium (K+)	mg/l	11	1.8	2.2	3.2	2.0	2.8	
Sodium (Na+)	mg/l	3	90.0	113.3	140.0			
Manganese (Mn)	mg/l	14	0.0200	0.1221	0.6900	0.0650	0.2270	
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	13	22.0	30.5	43.3	26.9	40.5	
Silicates (SiO2)	mg/l	11	1.90	5.36	7.30	5.20	6.90	
Zinc (Zn), dissolved	µg/l	12	< 5.00	11.08	47.00	5.00	24.00	III
Copper (Cu), dissolved	µg/l	12	1.36	2.88	9.91	2.38	3.43	III
Chromium (Cr), total dissolved	µg/l	12	< 0.20	0.99	2.19	0.93	1.84	II
Lead (Pb), dissolved	µg/l	12	< 0.20	0.24	0.45	0.20	0.41	II
Cadmium (Cd), dissolved	µg/l	12	< 0.02	< 0.02	< 0.02	0.02	0.02	II
Mercury (Hg), dissolved	µg/l	12	< 0.050	0.181	1.130	0.085	0.199	III
Nickel (Ni), dissolved	µg/l	12	0.72	1.65	3.37	1.50	2.47	III
Arsenic (As), dissolved	µg/l	12	0.57	0.97	1.42	0.94	1.24	III
Aluminium (Al), dissolved	µg/l	12	2.70	82.82	397.00	34.75	177.50	
Zinc (Zn)	µg/l	12	7.00	28.67	156.00	13.50	35.80	II
Copper (Cu)	µg/l	12	2.18	9.24	63.00	3.01	11.79	II
Chromium (Cr) - total	µg/l	12	1.35	2.99	6.60	2.07	5.59	II
Lead (Pb)	µg/l	12	< 0.20	0.74	2.30	0.57	1.12	II
Cadmium (Cd)	µg/l	12	< 0.02	0.02	0.03	0.02	0.02	II
Mercury (Hg)	µg/l	12	< 0.050	0.337	1.400	0.165	1.144	V
Nickel (Ni)	µg/l	12	0.90	2.00	3.44	1.69	3.35	II
Arsenic (As)	µg/l	12	0.68	1.11	1.67	1.04	1.62	II
Aluminium (Al)	µg/l	12	120.00	454.17	1040.00	385.00	908.00	
Phenol index	mg/l	16	0.0020	0.0020	0.0020	0.0020	0.0020	
Anionic active surfactants (PAL-A)	mg/l	27	< 0.020	< 0.020	0.020	0.020	0.020	
AOX	µg/l	11	< 10.00	14.51	21.70	13.70	18.90	II
Petroleum hydrocarbons	mg/l	11	< 0.010	0.021	0.050	0.020	0.020	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.0010	0.0010	0.0010	0.0010	0.0010	I
pp-DDT	µg/l	12	0.0050	0.0050	0.0050	0.0050	0.0050	II
Atrazine	µg/l	12	< 0.001	0.017	0.071	0.010	0.034	II
Chloroform	µg/l	12	< 0.10	0.29	0.70	0.30	0.49	II
Carbon tetrachloride	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Trichloroethylene	µg/l	12	< 0.10	0.11	0.20	0.10	0.10	II
Tetrachloroethylene	µg/l	12	< 0.10	0.10	0.10	0.10	0.10	II
Macrozoobenthos sapr. index	-	2	1.96	2.05	2.14			II
Macrozoobenthos no. of taxa	-	2	4	7	9			
Total coliforms (37 C)	1000CFU/100m	5	0.450	4.890	9.000	4.000		
Faecal coliforms (44 C)	1000CFU/100m	5	3.000	10.160	30.000	4.800		
Faecal streptococci	1000CFU/100m	6	0.000	1.183	3.500	0.900		
Salmonella	No/1l	6	0.0	0.2	1.0	0.0		

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

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

River: Danube	Catchment: 150820 km2	2004
Distance from the mouth 1768	Altitude: 101 m	H02
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	26	2.5	11.2	20.9	11.8	19.9	
Suspended solids	mg/l	11	2.0	16.6	40.0	12.0	31.0	
Dissolved oxygen	mg/l	26	7.5	10.9	14.4	10.6	8.8	I
BOD (5)	mg/l	26	< 0.5	2.4	5.4	2.6	4.6	II
COD (Mn)	mg/l	26	2.1	3.2	6.1	3.1	4.1	I
COD (Cr)	mg/l	26	7.0	10.5	19.0	10.0	14.0	II
TOC	mg/l							
DOC	mg/l							
pH	-	26	7.0	8.1	8.8	8.1	8.4	II
							7.7	II
Alkalinity - total	mmol/l	12	2.7	3.3	3.8	3.5	3.6	
Ammonium (NH4-N)	mg/l	26	0.020	0.068	0.210	0.040	0.185	I
Nitrite (NO2-N)	mg/l	26	0.011	0.021	0.036	0.021	0.033	II
Nitrate (NO3-N)	mg/l	26	1.040	2.018	4.140	1.780	3.255	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l	22	0.06	0.81	3.35	0.41	1.75	
Orthophosphate (PO4-P)	mg/l	26	0.007	0.046	0.124	0.050	0.075	II
Total phosphorus	mg/l	26	0.040	0.121	0.230	0.110	0.169	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	26	< 1.0	17.5	84.1	8.3	51.5	III
Conductivity	µS/cm	26	321	387	474	390	465	
Calcium (Ca++)	mg/l	12	48.0	57.3	68.0	57.0	65.8	
Sulphate (SO4--)	mg/l	12	28.8	36.9	49.0	37.0	43.8	
Magnesium (Mg++)	mg/l	12	8.5	14.5	19.5	14.6	18.2	
Potassium (K+)	mg/l	11	< 0.0	2.0	2.8	2.0	2.8	
Sodium (Na+)	mg/l	26	9.5	83.9	220.0	95.0	160.0	
Manganese (Mn)	mg/l	2	0.0200	0.0200	0.0200			
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	22.0	29.2	40.4	26.7	39.0	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	15	0.0020	0.0020	0.0020	0.0020	0.0020	
Anionic active surfactants (PAL-A)	mg/l	26	< 0.020	< 0.020	: 0.020	0.020	0.020	
AOX	mg/l							
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	5	0.500	3.200	9.000	1.600		
Faecal coliforms (44 C)	1000CFU/100m	5	4.000	13.320	25.000	12.000		
Faecal streptococci	1000CFU/100m	6	0.200	1.200	3.500	0.850		
Salmonella	No/1l	6	0.0	0.3	1.0	0.0		

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

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

River: Danube	Catchment: 183350 km2	2004
Distance from the mouth 1708	Altitude: 100 m	H03
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	21	0.1	9.3	21.0	8.8	19.9	
Suspended solids	mg/l	21	7.0	22.1	120.0	16.0	35.0	
Dissolved oxygen	mg/l	21	4.5	9.9	12.6	10.2	7.9	I
BOD (5)	mg/l	21	2.2	3.7	6.3	3.3	5.7	III
COD (Mn)	mg/l	21	2.6	4.3	7.4	4.1	6.7	II
COD (Cr)	mg/l	21	9.0	14.2	23.0	14.0	20.0	II
TOC	mg/l							
DOC	mg/l							
pH	-	21	7.8	8.2	8.7	8.1	8.5	III
							8.0	II
Alkalinity - total	mmol/l	21	1.8	2.9	3.6	2.8	3.4	
Ammonium (NH4-N)	mg/l	20	0.020	0.139	0.370	0.105	0.321	III
Nitrite (NO2-N)	mg/l	20	0.004	0.022	0.051	0.022	0.030	II
Nitrate (NO3-N)	mg/l	21	1.020	2.252	3.890	1.920	3.590	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l	20	0.01	0.05	0.14	0.04	0.07	
Orthophosphate (PO4-P)	mg/l	21	0.014	0.079	0.150	0.078	0.134	III
Total phosphorus	mg/l	21	0.020	0.114	0.200	0.110	0.183	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	20	< 1.0	11.1	38.7	8.6	22.5	I
Conductivity	µS/cm	21	300	394	480	400	460	
Calcium (Ca++)	mg/l	21	41.6	52.8	63.0	53.5	61.2	
Sulphate (SO4--)	mg/l	21	8.0	40.9	53.3	43.2	49.0	
Magnesium (Mg++)	mg/l	21	8.8	13.2	17.1	13.3	16.1	
Potassium (K+)	mg/l	21	2.1	3.6	5.2	3.7	4.5	
Sodium (Na+)	mg/l	21	9.3	15.1	24.8	15.0	21.1	
Manganese (Mn)	mg/l	1	0.0300	0.0300	0.0300			
Iron (Fe)	mg/l	21	< 0.040	0.150	0.350	0.120	0.220	
Chloride (Cl-)	mg/l	21	15.7	22.8	33.3	21.6	32.3	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	21	1.0000	2.2857	5.0000	2.0000	3.0000	
Anionic active surfactants (PAL-A)	mg/l	21	0.070	3.408	70.000	0.080	0.090	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-	2	2.11	2.14	2.17			II
Macrozoobenthos no. of taxa	-	2	2	10	18			
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m	1	9.600	9.600	9.600			
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l	1	0.0	0.0	0.0			

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

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

River: Danube
 Distance from the mouth 1708
 Location: Middle

Catchment: 183350 km2
 Altitude: 100 m
 2004
 H03

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	842.0	2012.6	4220.0	1910.0	3005.0	
Temperature	°C	21	0.8	9.4	19.6	8.9	18.7	
Suspended solids	mg/l	21	6.0	15.3	40.0	13.0	27.0	
Dissolved oxygen	mg/l	21	4.4	10.1	13.6	10.2	8.1	I
BOD (5)	mg/l	21	1.8	3.2	5.0	3.0	4.4	II
COD (Mn)	mg/l	21	2.4	3.6	5.9	3.4	4.5	I
COD (Cr)	mg/l	21	6.0	12.8	18.0	14.0	18.0	II
TOC	mg/l							
DOC	mg/l							
pH	-	21	7.8	8.2	9.0	8.1	8.6	III
							8.0	II
Alkalinity - total	mmol/l	21	2.6	3.1	3.6	3.0	3.4	
Ammonium (NH4-N)	mg/l	21	0.030	0.094	0.230	0.060	0.200	I
Nitrite (NO2-N)	mg/l	21	0.006	0.021	0.079	0.018	0.030	II
Nitrate (NO3-N)	mg/l	21	1.130	2.252	4.000	2.010	3.390	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l	18	0.01	0.04	0.09	0.04	0.08	
Orthophosphate (PO4-P)	mg/l	21	0.007	0.044	0.150	0.029	0.075	II
Total phosphorus	mg/l	21	0.020	0.075	0.180	0.070	0.120	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	21	< 1.0	13.5	44.0	7.1	38.1	II
Conductivity	µS/cm	21	310	393	450	400	450	
Calcium (Ca++)	mg/l	21	43.7	54.4	63.9	55.0	63.0	
Sulphate (SO4--)	mg/l	21	26.4	41.7	53.3	41.2	48.5	
Magnesium (Mg++)	mg/l	21	8.8	12.9	17.1	12.4	16.2	
Potassium (K+)	mg/l	21	1.7	2.8	4.4	2.9	3.6	
Sodium (Na+)	mg/l	21	9.4	13.9	21.1	13.8	18.9	
Manganese (Mn)	mg/l	1	0.0200	0.0200	0.0200			
Iron (Fe)	mg/l	21	0.070	0.124	0.240	0.120	0.160	
Chloride (Cl-)	mg/l	21	14.3	23.6	33.3	22.5	31.4	
Silicates (SiO2)	mg/l	10	3.90	5.46	7.20	5.25		
Zinc (Zn), dissolved	µg/l	12	< 5.00	21.67	59.00	15.50	31.90	III
Copper (Cu), dissolved	µg/l	12	1.07	3.37	9.87	2.76	5.14	III
Chromium (Cr), total dissolved	µg/l	12	< 0.20	1.47	8.08	0.87	2.07	III
Lead (Pb), dissolved	µg/l	12	< 0.20	0.24	0.54	0.20	0.34	II
Cadmium (Cd), dissolved	µg/l	12	< 0.02	0.02	0.03	0.02	0.02	II
Mercury (Hg), dissolved	µg/l	12	< 0.050	0.092	0.200	0.070	0.148	III
Nickel (Ni), dissolved	µg/l	12	0.34	1.55	3.25	1.47	2.12	III
Arsenic (As), dissolved	µg/l	12	0.45	0.91	1.45	0.87	1.21	III
Aluminium (Al), dissolved	µg/l	12	< 1.00	52.48	197.00	32.60	144.00	
Zinc (Zn)	µg/l	12	16.00	73.42	195.00	48.50	147.00	III
Copper (Cu)	µg/l	12	2.47	5.01	10.70	4.08	9.23	II
Chromium (Cr) - total	µg/l	12	1.48	3.87	8.86	2.89	7.88	II
Lead (Pb)	µg/l	12	0.31	1.04	3.73	0.82	1.54	II
Cadmium (Cd)	µg/l	12	< 0.02	0.03	0.05	0.03	0.05	II
Mercury (Hg)	µg/l	12	< 0.050	1.107	11.900	0.140	0.254	IV
Nickel (Ni)	µg/l	12	1.20	4.13	19.00	2.41	6.71	II
Arsenic (As)	µg/l	12	0.77	1.12	1.62	0.98	1.50	II
Aluminium (Al)	µg/l	12	190.00	692.50	3500.00	310.00	1067.00	
Phenol index	mg/l	21	1.0000	2.1429	4.0000	2.0000	3.0000	
Anionic active surfactants (PAL-A)	mg/l	21	0.060	0.075	0.100	0.070	0.080	
AOX	µg/l	11	< 10.00	15.05	20.30	15.80	18.00	II
Petroleum hydrocarbons	mg/l	10	< 0.010	0.020	0.050	0.015		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.0010	0.0010	0.0010	0.0010	0.0010	I
pp-DDT	µg/l	12	0.0050	0.0050	0.0050	0.0050	0.0050	II
Atrazine	µg/l	12	0.005	0.022	0.093	0.010	0.040	II
Chloroform	µg/l	12	< 0.10	0.21	0.40	0.10	0.40	II
Carbon tetrachloride	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Trichloroethylene	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Tetrachloroethylene	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m	1	16.000	16.000	16.000			
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l	1	1.0	1.0	1.0			

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

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

River: Danube	Catchment: 183350 km2	2004
Distance from the mouth 1708	Altitude: 100 m	H03
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	21	0.9	9.6	19.7	9.0	18.8	
Suspended solids	mg/l	21	4.0	15.0	33.0	12.0	24.0	
Dissolved oxygen	mg/l	21	4.6	10.1	13.1	10.0	7.7	I
BOD (5)	mg/l	21	2.0	3.3	5.3	3.1	4.6	II
COD (Mn)	mg/l	21	2.4	3.7	6.3	3.5	4.6	I
COD (Cr)	mg/l	21	8.0	12.9	20.0	14.0	16.0	II
TOC	mg/l							
DOC	mg/l							
pH	-	21	7.8	8.2	9.0	8.2	8.6	III
							7.9	II
Alkalinity - total	mmol/l	21	2.5	3.1	3.6	3.0	3.5	
Ammonium (NH4-N)	mg/l	21	0.020	0.090	0.230	0.070	0.200	I
Nitrite (NO2-N)	mg/l	21	0.004	0.019	0.034	0.018	0.029	II
Nitrate (NO3-N)	mg/l	21	1.130	2.277	4.250	1.920	3.440	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l	21	0.02	0.04	0.10	0.03	0.07	
Orthophosphate (PO4-P)	mg/l	21	0.007	0.045	0.147	0.039	0.075	II
Total phosphorus	mg/l	21	0.020	0.075	0.170	0.070	0.120	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	21	< 1.0	13.6	44.2	6.9	40.0	II
Conductivity	µS/cm	21	310	392	460	400	450	
Calcium (Ca++)	mg/l	21	42.3	53.7	62.4	53.9	61.8	
Sulphate (SO4--)	mg/l	21	28.8	42.5	55.8	43.2	48.0	
Magnesium (Mg++)	mg/l	21	6.2	13.9	18.9	14.3	17.1	
Potassium (K+)	mg/l	21	1.8	3.2	5.4	3.2	4.4	
Sodium (Na+)	mg/l	21	9.5	13.9	21.1	13.6	18.8	
Manganese (Mn)	mg/l	1	0.0200	0.0200	0.0200			
Iron (Fe)	mg/l	21	0.050	0.136	0.250	0.120	0.200	
Chloride (Cl-)	mg/l	21	15.7	24.3	33.3	23.5	33.0	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	21	1.0000	2.1429	4.0000	2.0000	3.0000	
Anionic active surfactants (PAL-A)	mg/l	21	0.070	0.075	0.090	0.070	0.090	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m	1	9.600	9.600	9.600			
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l	1	0.0	0.0	0.0			

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

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

River: Danube	Catchment: 188700 km2	2004
Distance from the mouth 1560	Altitude: 89 m	H04
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	27	0.2	12.1	25.2	13.1	21.6	
Suspended solids	mg/l	12	2.0	21.3	48.0	21.0	39.2	
Dissolved oxygen	mg/l	27	8.8	11.1	16.1	11.0	8.9	I
BOD (5)	mg/l	25	1.0	2.9	7.8	2.6	4.1	II
COD (Mn)	mg/l	27	2.7	4.0	6.7	3.7	5.3	II
COD (Cr)	mg/l	27	13.0	16.7	26.0	16.0	20.4	II
TOC	mg/l							
DOC	mg/l							
pH	-	27	8.0	8.3	8.9	8.3	8.7	III
							8.1	II
Alkalinity - total	mmol/l	12	2.6	3.1	3.6	2.9	3.5	
Ammonium (NH4-N)	mg/l	27	0.020	0.106	0.330	0.070	0.248	II
Nitrite (NO2-N)	mg/l	27	0.009	0.023	0.058	0.021	0.036	II
Nitrate (NO3-N)	mg/l	27	0.810	2.143	4.750	2.030	3.738	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	27	0.003	0.047	0.117	0.042	0.085	II
Total phosphorus	mg/l	27	0.100	0.143	0.370	0.130	0.168	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	27	< 1.0	14.8	99.0	7.8	33.4	II
Conductivity	µS/cm	27	300	373	464	368	453	
Calcium (Ca++)	mg/l	12	41.7	52.4	67.0	49.1	63.8	
Sulphate (SO4--)	mg/l	12	31.0	38.5	49.0	37.0	47.7	
Magnesium (Mg++)	mg/l	12	9.9	13.1	17.5	12.9	15.5	
Potassium (K+)	mg/l	12	2.0	2.6	3.3	2.5	3.0	
Sodium (Na+)	mg/l	12	9.7	13.3	19.3	11.8	18.8	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	14.0	18.0	26.0	16.5	25.8	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0030	3.0015	18.0000	1.5015	4.0000	
Anionic active surfactants (PAL-A)	mg/l	27	< 0.020	< 0.020	: 0.020	0.020	0.020	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	6	2.600	4.550	8.300	4.000		
Faecal coliforms (44 C)	1000CFU/100m	6	7.000	29.000	60.000	28.000		
Faecal streptococci	1000CFU/100m	6	0.600	3.517	7.200	2.550		
Salmonella	No/1l	6	0.0	0.0	0.0	0.0		

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

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

River: Danube	Catchment: 188700 km2	2004
Distance from the mouth 1560	Altitude: 89 m	H04
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	897.0	1928.9	4060.0	1825.0	2895.0	
Temperature	°C	27	0.2	12.1	25.2	13.1	21.6	
Suspended solids	mg/l	12	7.0	19.3	32.0	22.5	28.9	
Dissolved oxygen	mg/l	27	8.4	10.9	15.7	11.0	9.1	I
BOD (5)	mg/l	24	1.1	3.1	8.0	2.9	3.9	II
COD (Mn)	mg/l	27	2.6	4.0	6.7	3.6	5.0	I
COD (Cr)	mg/l	27	12.0	16.8	25.0	16.0	21.0	II
TOC	mg/l							
DOC	mg/l							
pH	-	27	8.0	8.2	8.8	8.2	8.7	III
							8.0	II
Alkalinity - total	mmol/l	12	2.7	3.1	3.6	2.9	3.5	
Ammonium (NH4-N)	mg/l	27	0.020	0.101	0.350	0.060	0.238	II
Nitrite (NO2-N)	mg/l	27	0.009	0.023	0.058	0.018	0.041	II
Nitrate (NO3-N)	mg/l	27	0.860	2.181	4.750	2.030	3.660	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	27	0.003	0.045	0.108	0.042	0.084	II
Total phosphorus	mg/l	27	0.090	0.138	0.370	0.130	0.158	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	27	< 1.0	12.5	78.0	6.1	25.4	II
Conductivity	µS/cm	27	302	374	462	368	451	
Calcium (Ca++)	mg/l	12	41.7	51.8	62.0	49.1	61.0	
Sulphate (SO4--)	mg/l	12	30.0	37.8	49.0	37.0	45.8	
Magnesium (Mg++)	mg/l	14	< 0.5	11.6	19.4	12.4	17.3	
Potassium (K+)	mg/l	12	1.9	2.6	3.3	2.6	3.0	
Sodium (Na+)	mg/l	12	9.4	13.1	18.8	11.8	18.4	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	14.0	18.5	26.0	17.0	25.9	
Silicates (SiO2)	mg/l	12	0.35	4.91	7.90	5.00	7.35	
Zinc (Zn), dissolved	µg/l	12	< 5.00	11.25	22.00	9.50	21.80	III
Copper (Cu), dissolved	µg/l	12	1.63	2.61	6.28	2.30	3.42	III
Chromium (Cr), total dissolved	µg/l	12	0.78	1.63	4.07	1.45	2.25	III
Lead (Pb), dissolved	µg/l	12	< 0.20	< 0.20	< 0.20	0.20	0.20	II
Cadmium (Cd), dissolved	µg/l	12	< 0.02	< 0.02	< 0.02	0.02	0.02	II
Mercury (Hg), dissolved	µg/l	12	< 0.050	0.065	0.110	0.050	0.089	II
Nickel (Ni), dissolved	µg/l	12	0.82	1.41	2.36	1.24	2.30	III
Arsenic (As), dissolved	µg/l	12	0.89	1.21	1.84	1.15	1.56	III
Aluminium (Al), dissolved	µg/l	12	6.50	33.67	79.70	30.45	58.51	
Zinc (Zn)	µg/l	12	8.00	36.33	160.00	24.00	64.90	II
Copper (Cu)	µg/l	12	2.39	4.57	9.48	3.78	8.26	II
Chromium (Cr) - total	µg/l	12	1.81	3.53	9.59	2.90	4.52	II
Lead (Pb)	µg/l	12	< 0.20	1.36	4.73	1.05	2.37	II
Cadmium (Cd)	µg/l	12	< 0.02	0.03	0.06	0.03	0.06	II
Mercury (Hg)	µg/l	12	< 0.050	0.090	0.170	0.075	0.148	III
Nickel (Ni)	µg/l	12	1.19	3.07	10.50	2.20	6.14	II
Arsenic (As)	µg/l	12	0.97	1.48	2.36	1.45	1.84	II
Aluminium (Al)	µg/l	12	220.00	1080.00	6000.00	430.00	1755.00	
Phenol index	mg/l	12	0.0030	2.1684	10.0000	0.0030	4.9000	
Anionic active surfactants (PAL-A)	mg/l	27	< 0.020	< 0.020	0.020	0.020	0.020	
AOX	µg/l	12	13.10	16.58	19.90	16.80	18.09	II
Petroleum hydrocarbons	mg/l	12	< 0.010	0.024	0.070	0.020	0.048	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.0010	0.0010	0.0010	0.0010	0.0010	I
pp-DDT	µg/l	12	0.0050	0.0050	0.0050	0.0050	0.0050	II
Atrazine	µg/l	12	0.001	0.020	0.118	0.012	0.023	II
Chloroform	µg/l	12	< 0.10	0.27	0.60	0.15	0.59	II
Carbon tetrachloride	µg/l	12	< 0.10	0.12	0.30	0.10	0.10	II
Trichloroethylene	µg/l	12	< 0.10	0.20	0.50	0.10	0.49	II
Tetrachloroethylene	µg/l	12	< 0.10	0.10	0.10	0.10	0.10	II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	6	1.300	5.850	14.000	4.200		
Faecal coliforms (44 C)	1000CFU/100m	6	3.100	27.017	70.000	24.500		
Faecal streptococci	1000CFU/100m	6	0.800	5.233	12.000	4.600		
Salmonella	No/1l	6	0.0	0.3	1.0	0.0		

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

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

River: Danube	Catchment: 188700 km2	2004
Distance from the mouth 1560	Altitude: 89 m	H04
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	27	0.2	12.1	25.2	13.1	21.6	
Suspended solids	mg/l	12	5.0	16.8	37.0	15.0	26.8	
Dissolved oxygen	mg/l	27	8.5	11.0	16.1	11.1	8.8	I
BOD (5)	mg/l	25	1.0	3.2	7.8	2.8	5.5	III
COD (Mn)	mg/l	27	2.9	4.2	6.3	4.2	5.2	II
COD (Cr)	mg/l	27	12.0	17.4	24.0	17.0	23.0	II
TOC	mg/l							
DOC	mg/l							
pH	-	27	7.7	8.2	8.8	8.1	8.7	III
							8.0	II
Alkalinity - total	mmol/l	12	2.7	3.2	4.1	2.9	3.9	
Ammonium (NH4-N)	mg/l	27	0.020	0.098	0.340	0.050	0.222	II
Nitrite (NO2-N)	mg/l	27	0.009	0.023	0.058	0.018	0.044	II
Nitrate (NO3-N)	mg/l	27	0.880	2.185	4.520	1.970	3.712	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	27	0.003	0.046	0.108	0.033	0.086	II
Total phosphorus	mg/l	27	0.100	0.134	0.320	0.130	0.150	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	27	< 1.0	13.1	80.0	4.7	29.4	II
Conductivity	µS/cm	27	298	384	530	372	470	
Calcium (Ca++)	mg/l	12	41.7	52.5	64.0	50.1	61.9	
Sulphate (SO4--)	mg/l	12	28.0	40.6	61.0	36.5	55.4	
Magnesium (Mg++)	mg/l	12	9.9	15.0	26.7	12.9	21.0	
Potassium (K+)	mg/l	12	1.9	2.9	4.1	2.6	3.9	
Sodium (Na+)	mg/l	12	9.7	14.7	25.1	11.9	22.3	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	14.0	19.8	31.0	18.5	28.8	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0030	1.2523	6.0000	0.0030	5.7000	
Anionic active surfactants (PAL-A)	mg/l	27	< 0.020	< 0.020	: 0.020	0.020	0.020	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-	2	2.11	2.15	2.19			II
Macrozoobenthos no. of taxa	-	2	10	15	20			
Total coliforms (37 C)	1000CFU/100m	6	0.720	4.087	6.600	4.650		
Faecal coliforms (44 C)	1000CFU/100m	6	1.500	15.250	30.000	13.500		
Faecal streptococci	1000CFU/100m	6	0.300	6.617	27.000	2.600		
Salmonella	No/1l	6	0.0	0.0	0.0	0.0		

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

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

River: Danube	Catchment: 211503 km2	2004
Distance from the mouth 1435	Altitude: 79 m	H05
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	1010.0	2025.5	4100.0	1915.0	2970.0	
Temperature	°C	26	0.8	13.5	25.1	12.8	23.9	
Suspended solids	mg/l	13	2.0	5.0	9.0	4.0	8.8	
Dissolved oxygen	mg/l	26	3.6	8.4	14.0	8.7	4.2	IV
BOD (5)	mg/l	26	1.0	3.0	7.0	2.6	4.9	II
COD (Mn)	mg/l	26	3.4	5.1	9.2	4.6	7.4	II
COD (Cr)	mg/l	26	12.0	19.3	34.0	17.0	26.5	III
TOC	mg/l							
DOC	mg/l							
pH	-	26	7.7	8.0	8.4	8.1	8.3	II
							7.8	II
Alkalinity - total	mmol/l	14	< 0.1	3.8	6.2	3.7	5.4	
Ammonium (NH4-N)	mg/l	26	0.020	0.079	0.330	0.050	0.160	I
Nitrite (NO2-N)	mg/l	26	0.002	0.019	0.073	0.018	0.033	II
Nitrate (NO3-N)	mg/l	26	0.230	1.036	3.530	0.485	2.835	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l	13	< 0.01	0.32	0.77	0.21	0.66	
Orthophosphate (PO4-P)	mg/l	26	0.003	0.021	0.072	0.015	0.047	I
Total phosphorus	mg/l	26	0.030	0.075	0.140	0.070	0.115	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	26	< 1.0	9.5	33.0	8.4	21.0	I
Conductivity	µS/cm	26	342	446	630	446	550	
Calcium (Ca++)	mg/l	13	44.2	57.3	70.0	57.0	68.0	
Sulphate (SO4--)	mg/l	13	9.0	34.6	58.0	33.0	47.8	
Magnesium (Mg++)	mg/l	13	12.9	18.6	27.0	17.2	25.2	
Potassium (K+)	mg/l	13	2.2	3.2	5.9	3.0	3.5	
Sodium (Na+)	mg/l	13	10.8	17.2	33.7	16.3	18.6	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	13	10.0	17.7	27.0	16.0	26.0	
Silicates (SiO2)	mg/l	12	0.19	4.42	7.60	5.25	7.39	
Zinc (Zn), dissolved	µg/l	12	< 5.00	8.58	18.00	7.50	12.90	III
Copper (Cu), dissolved	µg/l	12	1.54	2.18	2.83	2.26	2.64	III
Chromium (Cr), total dissolved	µg/l	12	< 0.20	1.15	2.43	1.06	1.70	II
Lead (Pb), dissolved	µg/l	12	< 0.20	0.57	4.68	0.20	0.20	II
Cadmium (Cd), dissolved	µg/l	12	< 0.02	0.02	0.04	0.02	0.03	II
Mercury (Hg), dissolved	µg/l	12	< 0.050	0.074	0.120	0.065	0.110	III
Nickel (Ni), dissolved	µg/l	12	0.98	1.34	2.00	1.23	1.78	III
Arsenic (As), dissolved	µg/l	12	0.83	1.24	1.68	1.27	1.60	III
Aluminium (Al), dissolved	µg/l	12	14.60	52.05	145.00	47.25	79.32	
Zinc (Zn)	µg/l	12	10.00	22.17	46.00	20.00	37.90	II
Copper (Cu)	µg/l	12	2.65	4.64	7.40	4.16	6.77	II
Chromium (Cr) - total	µg/l	12	1.66	6.22	37.80	3.32	6.28	II
Lead (Pb)	µg/l	12	0.24	1.77	5.92	1.52	2.81	II
Cadmium (Cd)	µg/l	12	< 0.02	0.03	0.06	0.03	0.06	II
Mercury (Hg)	µg/l	12	< 0.050	0.111	0.260	0.090	0.204	IV
Nickel (Ni)	µg/l	12	1.19	4.81	30.60	2.65	3.15	II
Arsenic (As)	µg/l	12	0.99	1.59	2.36	1.47	2.17	II
Aluminium (Al)	µg/l	12	120.00	733.33	1720.00	600.00	1477.00	
Phenol index	mg/l	13	0.0030	1.8482	13.0000	0.0030	4.0000	
Anionic active surfactants (PAL-A)	mg/l	26	< 0.020	< 0.020	0.020	0.020	0.020	
AOX	µg/l	12	< 10.00	15.30	20.10	15.35	17.86	II
Petroleum hydrocarbons	mg/l	12	< 0.010	0.023	0.060	0.010	0.058	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.0010	0.0010	0.0010	0.0010	0.0010	I
pp-DDT	µg/l	12	0.0050	0.0050	0.0050	0.0050	0.0050	II
Atrazine	µg/l	12	0.002	0.012	0.024	0.013	0.022	II
Chloroform	µg/l	12	< 0.10	0.17	0.40	0.10	0.30	II
Carbon tetrachloride	µg/l	12	< 0.10	0.14	0.40	0.10	0.28	II
Trichloroethylene	µg/l	12	< 0.10	0.12	0.30	0.10	0.10	II
Tetrachloroethylene	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Macrozoobenthos sapr. index	-	2	2.08	2.14	2.19			II
Macrozoobenthos no. of taxa	-	2	4	10	16			
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: /Sio Catchment: 14693 km2 2004
Distance from the mouth 13 Altitude: 85 m H06
Location: Middle

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	160.0	956.3	4740.0	828.0	1810.0	
Temperature	°C	25	0.0	14.5	26.9	15.5	24.6	
Suspended solids	mg/l	15	< 0.2	31.1	138.0	15.2	86.0	
Dissolved oxygen	mg/l	18	3.8	10.3	16.3	10.0	6.0	II
BOD (5)	mg/l	18	2.3	5.1	8.0	4.8	8.0	III
COD (Mn)	mg/l	18	5.6	9.3	16.0	9.4	13.3	III
COD (Cr)	mg/l	18	17.0	30.8	58.0	29.0	43.2	III
TOC	mg/l							
DOC	mg/l	9	7.4	10.8	14.0	11.0		
pH	-	18	8.1	8.4	8.9	8.4	8.6	III
							8.2	II
Alkalinity - total	mmol/l	8	7.6	8.1	8.7	8.3		
Ammonium (NH4-N)	mg/l	18	0.020	0.274	0.920	0.155	0.725	IV
Nitrite (NO2-N)	mg/l	18	0.035	0.068	0.154	0.061	0.111	III
Nitrate (NO3-N)	mg/l	18	2.100	4.461	6.330	4.520	5.946	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l	18	0.53	1.68	3.39	1.48	2.56	
Orthophosphate (PO4-P)	mg/l	18	0.216	0.327	0.548	0.304	0.426	IV
Total phosphorus	mg/l	18	0.449	0.603	1.100	0.551	0.799	IV
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	25	< 1.0	50.6	323.0	1.0	142.0	IV
Conductivity	µS/cm	18	820	1011	1290	1020	1073	
Calcium (Ca++)	mg/l	8	98.0	107.8	122.0	106.0		
Sulphate (SO4--)	mg/l	8	150.0	173.9	211.0	173.0		
Magnesium (Mg++)	mg/l	8	58.0	66.9	74.0	67.0		
Potassium (K+)	mg/l	8	8.1	10.2	16.0	8.4		
Sodium (Na+)	mg/l	8	50.0	56.9	71.0	54.0		
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	8	49.0	56.8	71.0	55.0		
Silicates (SiO2)	mg/l	12	0.51	7.41	11.00	8.35	10.89	
Zinc (Zn), dissolved	µg/l	12	< 5.00	15.00	60.00	10.00	27.60	III
Copper (Cu), dissolved	µg/l	12	1.43	2.41	6.39	2.24	2.57	III
Chromium (Cr), total dissolved	µg/l	12	0.74	2.27	4.80	2.25	2.94	III
Lead (Pb), dissolved	µg/l	12	< 0.20	0.25	0.62	0.20	0.36	II
Cadmium (Cd), dissolved	µg/l	12	< 0.02	0.02	0.04	0.02	0.03	II
Mercury (Hg), dissolved	µg/l	12	< 0.050	0.078	0.150	0.070	0.110	III
Nickel (Ni), dissolved	µg/l	12	1.63	2.43	3.60	2.33	2.98	III
Arsenic (As), dissolved	µg/l	12	1.93	3.53	6.23	3.09	5.43	III
Aluminium (Al), dissolved	µg/l	12	17.30	48.17	148.00	33.95	73.21	
Zinc (Zn)	µg/l	11	11.00	42.82	190.00	31.00	48.00	II
Copper (Cu)	µg/l	12	2.43	5.76	11.80	6.29	7.06	II
Chromium (Cr) - total	µg/l	12	2.71	7.54	13.40	6.97	12.73	II
Lead (Pb)	µg/l	12	0.42	2.06	4.18	1.88	4.01	II
Cadmium (Cd)	µg/l	12	< 0.02	0.08	0.15	0.07	0.14	II
Mercury (Hg)	µg/l	12	< 0.050	0.125	0.240	0.120	0.210	IV
Nickel (Ni)	µg/l	12	1.95	4.35	8.00	4.01	7.31	II
Arsenic (As)	µg/l	12	2.02	4.53	7.80	4.33	6.78	III
Aluminium (Al)	µg/l	12	340.00	2724.17	7700.00	1930.00	6765.00	
Phenol index	mg/l	11	0.0020	0.8195	3.0000	0.0020	2.0000	
Anionic active surfactants (PAL-A)	mg/l	25	< 0.010	0.021	0.055	0.015	0.044	
AOX	µg/l	12	13.40	18.80	26.10	17.45	25.11	II
Petroleum hydrocarbons	mg/l	12	< 0.010	0.023	0.040	0.020	0.030	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.0010	0.0010	0.0010	0.0010	0.0010	I
pp-DDT	µg/l	12	0.0050	0.0050	0.0050	0.0050	0.0050	II
Atrazine	µg/l	12	0.003	0.113	0.379	0.092	0.200	III
Chloroform	µg/l	12	< 0.10	0.20	0.40	0.10	0.40	II
Carbon tetrachloride	µg/l	12	< 0.10	0.11	0.20	0.10	0.10	II
Trichloroethylene	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Tetrachloroethylene	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Macrozoobenthos sapr. index	-	1	1.94	1.94	1.94			II
Macrozoobenthos no. of taxa	-	1	16	16	16			
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: /Drava	Catchment: 35764 km2	2004
Distance from the mouth 78	Altitude: 92 m	H07
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	242.0	550.5	1290.0	512.0	849.0	
Temperature	°C	26	1.7	12.3	23.1	12.5	20.3	
Suspended solids	mg/l	14	4.0	9.7	18.0	9.5	14.8	
Dissolved oxygen	mg/l	26	7.3	9.9	12.5	9.6	8.2	I
BOD (5)	mg/l	26	1.1	2.4	5.6	2.2	3.7	II
COD (Mn)	mg/l	26	2.0	2.9	4.6	3.0	3.9	I
COD (Cr)	mg/l	26	4.0	7.7	13.0	7.0	10.5	II
TOC	mg/l							
DOC	mg/l							
pH	-	26	7.7	8.0	8.2	8.1	8.1	II
							7.9	II
Alkalinity - total	mmol/l	12	2.5	3.0	3.3	3.0	3.2	
Ammonium (NH4-N)	mg/l	26	0.010	0.043	0.110	0.035	0.080	I
Nitrite (NO2-N)	mg/l	26	0.005	0.013	0.026	0.012	0.020	II
Nitrate (NO3-N)	mg/l	26	0.700	1.325	2.210	1.265	1.885	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l	7	0.25	0.47	0.87	0.43		
Orthophosphate (PO4-P)	mg/l	26	0.020	0.045	0.108	0.039	0.064	II
Total phosphorus	mg/l	26	0.030	0.083	0.200	0.080	0.115	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	26	< 1.0	6.5	16.0	5.4	14.0	I
Conductivity	µS/cm	26	238	328	585	312	390	
Calcium (Ca++)	mg/l	12	34.1	45.5	58.5	44.7	51.6	
Sulphate (SO4--)	mg/l	12	17.4	33.3	43.4	34.3	40.5	
Magnesium (Mg++)	mg/l	12	9.4	14.8	21.0	14.4	19.4	
Potassium (K+)	mg/l	12	1.7	2.0	2.4	2.1	2.3	
Sodium (Na+)	mg/l	12	4.9	8.1	12.7	8.0	12.0	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	6.3	12.8	18.2	13.1	16.8	
Silicates (SiO2)	mg/l	12	4.20	7.05	8.70	7.30	8.56	
Zinc (Zn), dissolved	µg/l	12	< 5.00	10.83	26.00	8.00	20.90	III
Copper (Cu), dissolved	µg/l	12	0.75	1.47	2.20	1.38	2.10	III
Chromium (Cr), total dissolved	µg/l	12	0.52	1.37	2.21	1.29	2.17	III
Lead (Pb), dissolved	µg/l	12	< 0.20	0.31	1.31	0.20	0.34	II
Cadmium (Cd), dissolved	µg/l	12	< 0.02	0.02	0.04	0.02	0.02	II
Mercury (Hg), dissolved	µg/l	12	< 0.050	0.066	0.110	0.050	0.099	II
Nickel (Ni), dissolved	µg/l	12	0.37	1.14	2.00	1.13	1.69	III
Arsenic (As), dissolved	µg/l	12	0.73	1.24	1.69	1.28	1.51	III
Aluminium (Al), dissolved	µg/l	12	11.40	33.09	65.50	30.00	55.22	
Zinc (Zn)	µg/l	12	9.00	33.50	93.00	20.00	61.40	II
Copper (Cu)	µg/l	12	1.57	3.64	6.40	3.07	6.07	II
Chromium (Cr) - total	µg/l	12	1.68	5.76	35.50	2.88	4.99	II
Lead (Pb)	µg/l	12	0.87	1.89	5.00	1.48	3.21	II
Cadmium (Cd)	µg/l	12	< 0.02	0.04	0.10	0.04	0.06	II
Mercury (Hg)	µg/l	12	< 0.050	0.103	0.200	0.110	0.150	III
Nickel (Ni)	µg/l	12	1.11	3.48	21.20	1.90	3.01	II
Arsenic (As)	µg/l	12	1.04	1.71	2.36	1.80	2.03	II
Aluminium (Al)	µg/l	12	130.00	550.00	1450.00	395.00	977.00	
Phenol index	mg/l	12	1.0000	3.9167	6.0000	4.0000	6.0000	
Anionic active surfactants (PAL-A)	mg/l	26	< 0.020	0.033	0.088	0.020	0.055	
AOX	µg/l	12	10.30	15.24	20.50	15.50	17.99	II
Petroleum hydrocarbons	mg/l	12	< 0.010	0.019	0.030	0.020	0.030	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.0010	0.0010	0.0010	0.0010	0.0010	I
pp-DDT	µg/l	12	0.0050	0.0050	0.0050	0.0050	0.0050	II
Atrazine	µg/l	12	< 0.001	0.008	0.026	0.007	0.017	I
Chloroform	µg/l	12	< 0.10	0.22	0.50	0.15	0.39	II
Carbon tetrachloride	µg/l	12	< 0.10	0.13	0.40	0.10	0.19	II
Trichloroethylene	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Tetrachloroethylene	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Macrozoobenthos sapr. index	-	2	2.08	2.11	2.13			II
Macrozoobenthos no. of taxa	-	2	8	9	9			
Total coliforms (37 C)	1000CFU/100m	3	0.360	15.453	40.000			
Faecal coliforms (44 C)	1000CFU/100m	22	0.200	2.223	13.000	1.100	4.860	
Faecal streptococci	1000CFU/100m	3	0.200	0.533	0.800			
Salmonella	No/1l	3	0.0	0.0	0.0			

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

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

River: /Tisza	Catchment: 138498 km2	2004
Distance from the mouth 163	Altitude: 74 m	H08
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	26	0.1	12.1	25.1	12.1	22.6	
Suspended solids	mg/l	12	14.0	62.2	127.0	53.5	123.5	
Dissolved oxygen	mg/l	26	5.7	9.4	13.3	9.1	7.0	I
BOD (5)	mg/l	26	0.5	1.7	6.1	1.5	2.6	I
COD (Mn)	mg/l	26	3.0	4.6	8.5	4.0	6.6	II
COD (Cr)	mg/l	26	11.0	20.5	27.0	20.0	25.0	II
TOC	mg/l							
DOC	mg/l							
pH	-	26	7.7	7.9	8.1	7.9	8.0	II
							7.8	II
Alkalinity - total	mmol/l	12	1.8	2.3	2.7	2.3	2.7	
Ammonium (NH4-N)	mg/l	24	0.030	0.100	0.330	0.050	0.297	II
Nitrite (NO2-N)	mg/l	24	0.006	0.014	0.027	0.012	0.020	II
Nitrate (NO3-N)	mg/l	24	0.610	1.258	2.100	1.150	1.881	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l	24	0.17	0.32	0.80	0.29	0.49	
Orthophosphate (PO4-P)	mg/l	24	0.023	0.051	0.101	0.042	0.077	II
Total phosphorus	mg/l	26	0.110	0.168	0.270	0.160	0.230	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	26	1.2	11.9	47.0	7.7	25.5	II
Conductivity	µS/cm	26	228	384	486	394	461	
Calcium (Ca++)	mg/l	12	36.0	47.5	57.0	47.8	56.7	
Sulphate (SO4--)	mg/l	12	31.0	43.1	53.0	44.0	52.4	
Magnesium (Mg++)	mg/l	12	6.5	8.5	9.8	8.8	9.4	
Potassium (K+)	mg/l	12	2.5	3.5	4.2	3.6	3.8	
Sodium (Na+)	mg/l	12	14.8	26.7	35.0	27.3	34.5	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	15.0	40.7	58.0	38.5	56.9	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0020	2.1672	4.0000	2.5000	3.9000	
Anionic active surfactants (PAL-A)	mg/l	26 <	0.020	0.022	0.050	0.020	0.030	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-	2	2.19	2.20	2.20			II
Macrozoobenthos no. of taxa	-	2	4	7	9			
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m	26	0.000	30.808	100.000	20.500	76.500	
Faecal streptococci	1000CFU/100m	25	0.500	6.168	40.000	3.000	15.800	
Salmonella	No/1l	4	1.0	1.0	1.0	1.0		

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

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

River: /Tisza
 Distance from the mouth 163
 Location: Middle

Catchment: 138498 km2
 Altitude: 74 m
 2004
 H08

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	168.0	825.3	2610.0	631.0	1700.0	
Temperature	°C	24	0.4	13.1	25.3	13.4	22.7	
Suspended solids	mg/l	11	10.0	55.0	108.0	50.0	104.0	
Dissolved oxygen	mg/l	24	5.7	9.2	13.0	8.9	7.0	II
BOD (5)	mg/l	24	0.5	1.6	3.5	1.4	2.4	I
COD (Mn)	mg/l	24	2.7	4.4	9.2	3.9	6.1	II
COD (Cr)	mg/l	24	13.0	19.9	27.0	19.0	25.7	III
TOC	mg/l							
DOC	mg/l	9	3.0	3.9	5.5	3.8		
pH	-	24	7.7	7.9	8.2	7.9	8.1	II
							7.8	II
Alkalinity - total	mmol/l	11	1.8	2.4	2.8	2.3	2.8	
Ammonium (NH4-N)	mg/l	22	0.030	0.077	0.330	0.045	0.183	I
Nitrite (NO2-N)	mg/l	22	0.006	0.013	0.030	0.012	0.024	II
Nitrate (NO3-N)	mg/l	22	0.590	1.185	2.080	1.070	1.781	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l	22	0.17	0.27	0.39	0.28	0.35	
Orthophosphate (PO4-P)	mg/l	22	0.016	0.052	0.098	0.049	0.078	II
Total phosphorus	mg/l	24	0.100	0.158	0.230	0.165	0.211	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	24	< 1.0	13.7	59.0	8.2	28.5	II
Conductivity	µS/cm	24	230	376	476	389	450	
Calcium (Ca++)	mg/l	11	36.9	47.3	55.0	48.9	52.0	
Sulphate (SO4--)	mg/l	11	30.0	41.2	53.0	41.0	46.0	
Magnesium (Mg++)	mg/l	11	6.1	9.0	12.2	9.0	10.1	
Potassium (K+)	mg/l	11	2.4	3.2	4.1	3.2	3.8	
Sodium (Na+)	mg/l	11	12.0	26.1	34.0	28.4	33.0	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	11	14.0	38.7	56.0	37.0	53.0	
Silicates (SiO2)	mg/l	12	4.00	8.43	11.10	8.90	9.92	
Zinc (Zn), dissolved	µg/l	12	< 5.00	14.83	28.00	15.50	22.90	III
Copper (Cu), dissolved	µg/l	12	2.39	4.83	15.90	3.22	6.31	III
Chromium (Cr), total dissolved	µg/l	12	0.78	2.12	5.10	2.08	3.10	III
Lead (Pb), dissolved	µg/l	12	< 0.20	0.71	4.65	0.20	1.32	III
Cadmium (Cd), dissolved	µg/l	12	< 0.02	0.05	0.13	0.04	0.08	II
Mercury (Hg), dissolved	µg/l	12	< 0.050	0.073	0.130	0.065	0.126	III
Nickel (Ni), dissolved	µg/l	12	1.20	1.75	2.95	1.60	2.29	III
Arsenic (As), dissolved	µg/l	12	1.34	2.10	2.99	1.98	2.96	III
Aluminium (Al), dissolved	µg/l	12	32.70	114.02	277.00	70.50	237.20	
Zinc (Zn)	µg/l	12	14.00	113.08	720.00	45.00	177.50	III
Copper (Cu)	µg/l	12	3.92	19.59	126.00	7.81	26.20	III
Chromium (Cr) - total	µg/l	12	2.74	8.78	37.80	5.21	16.21	II
Lead (Pb)	µg/l	12	0.85	12.51	100.00	2.56	15.84	IV
Cadmium (Cd)	µg/l	12	0.05	0.35	2.25	0.10	0.77	II
Mercury (Hg)	µg/l	12	< 0.050	0.121	0.240	0.100	0.189	III
Nickel (Ni)	µg/l	12	1.58	10.66	77.90	3.00	14.76	II
Arsenic (As)	µg/l	12	2.14	3.72	11.00	3.24	3.89	II
Aluminium (Al)	µg/l	12	320.00	5045.83	22000.00	2050.00	14210.00	
Phenol index	mg/l	11	0.0020	2.2738	11.0000	0.0020	5.0000	
Anionic active surfactants (PAL-A)	mg/l	24	< 0.020	0.021	0.030	0.020	0.020	
AOX	µg/l	12	< 10.00	16.41	23.90	15.20	21.09	II
Petroleum hydrocarbons	mg/l	12	< 0.010	0.018	0.040	0.020	0.029	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.0010	0.0010	0.0010	0.0010	0.0010	I
pp-DDT	µg/l	12	0.0050	0.0050	0.0050	0.0050	0.0050	II
Atrazine	µg/l	12	0.002	0.045	0.153	0.043	0.067	II
Chloroform	µg/l	12	< 0.10	0.23	0.80	0.10	0.50	II
Carbon tetrachloride	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Trichloroethylene	µg/l	12	< 0.10	0.15	0.30	0.10	0.30	II
Tetrachloroethylene	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m	24	0.000	45.500	200.000	30.000	85.000	
Faecal streptococci	1000CFU/100m	24	0.400	12.596	130.000	4.000	24.100	
Salmonella	No/1l							

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

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

River: /Tisza	Catchment: 138498 km2	2004
Distance from the mouth 163	Altitude: 74 m	H08
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	25	0.3	12.6	25.3	12.5	22.8	
Suspended solids	mg/l	12	12.0	61.9	155.0	53.5	120.4	
Dissolved oxygen	mg/l	25	5.3	9.1	13.1	8.6	6.8	II
BOD (5)	mg/l	25	0.5	2.2	6.7	2.1	3.2	II
COD (Mn)	mg/l	25	2.9	4.8	10.5	3.9	6.7	II
COD (Cr)	mg/l	25	13.0	20.3	36.0	19.0	25.6	III
TOC	mg/l							
DOC	mg/l							
pH	-	25	7.7	7.9	8.1	8.0	8.0	II
							7.8	II
Alkalinity - total	mmol/l	12	1.8	2.4	2.9	2.4	2.8	
Ammonium (NH4-N)	mg/l	23	0.030	0.115	0.480	0.070	0.296	II
Nitrite (NO2-N)	mg/l	23	0.009	0.015	0.030	0.015	0.021	II
Nitrate (NO3-N)	mg/l	23	0.540	1.176	2.120	1.060	1.856	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l	23	0.16	0.34	0.87	0.29	0.55	
Orthophosphate (PO4-P)	mg/l	23	0.026	0.059	0.101	0.055	0.094	II
Total phosphorus	mg/l	25	0.120	0.182	0.260	0.180	0.256	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	25	1.8	10.7	50.0	5.9	23.0	I
Conductivity	µS/cm	25	232	367	464	384	439	
Calcium (Ca++)	mg/l	12	35.7	46.0	52.0	48.1	51.9	
Sulphate (SO4--)	mg/l	12	32.0	40.4	52.0	39.0	49.4	
Magnesium (Mg++)	mg/l	12	6.2	15.7	89.0	9.3	11.7	
Potassium (K+)	mg/l	12	2.3	3.4	4.1	3.4	3.8	
Sodium (Na+)	mg/l	12	13.7	24.8	33.0	27.1	31.4	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	12.0	33.2	58.0	33.5	44.0	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0020	1.5845	6.0000	0.0020	3.9000	
Anionic active surfactants (PAL-A)	mg/l	25 <	0.020	0.021	0.030	0.020	0.020	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m	24	3.000	516.458	4000.000	315.000	800.000	
Faecal streptococci	1000CFU/100m	25	2.000	42.160	460.000	15.000	75.000	
Salmonella	No/1l	1	1.0	1.0	1.0			

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

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

River: /Tisza/Sajo
 Distance from the mouth 124
 Location: Middle

Catchment: 3224 km²
 Altitude: 148 m
 2004
 H09

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	366	450.0	1522.3	6340.0	1020.0	3140.0	
Temperature	°C	52	0.1	9.8	22.0	10.6	17.7	
Suspended solids	mg/l	12	7.0	21.7	57.0	15.5	42.9	
Dissolved oxygen	mg/l	52	7.1	10.2	13.4	9.6	8.0	I
BOD (5)	mg/l	52	1.5	3.8	12.5	3.5	6.4	III
COD (Mn)	mg/l	52	2.0	4.6	22.1	3.9	6.6	II
COD (Cr)	mg/l	52	8.0	16.8	58.0	14.5	23.0	II
TOC	mg/l							
DOC	mg/l							
pH	-	26	7.7	7.9	8.0	7.9	7.9	II
							7.8	II
Alkalinity - total	mmol/l	12	2.7	3.1	3.8	3.0	3.5	
Ammonium (NH ₄ -N)	mg/l	52	0.060	0.251	1.170	0.190	0.409	III
Nitrite (NO ₂ -N)	mg/l	52	0.018	0.033	0.116	0.027	0.049	II
Nitrate (NO ₃ -N)	mg/l	52	1.510	2.014	3.210	1.900	2.667	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l	52	0.11	0.57	3.52	0.42	0.97	
Orthophosphate (PO ₄ -P)	mg/l	52	0.033	0.100	0.274	0.085	0.167	III
Total phosphorus	mg/l	52	0.080	0.179	0.520	0.140	0.296	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	52	< 1.0	5.2	42.6	3.9	9.2	I
Conductivity	µS/cm	52	287	407	555	401	504	
Calcium (Ca ⁺⁺)	mg/l	12	50.7	59.7	77.5	58.0	66.7	
Sulphate (SO ₄ ⁻⁻)	mg/l	12	50.9	72.7	106.0	73.5	94.8	
Magnesium (Mg ⁺⁺)	mg/l	12	10.8	16.6	25.3	15.3	23.9	
Potassium (K ⁺)	mg/l	12	3.3	4.8	8.5	4.7	5.9	
Sodium (Na ⁺)	mg/l	12	5.6	10.3	15.2	10.7	15.0	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl ⁻)	mg/l	12	9.0	15.6	26.5	14.3	22.8	
Silicates (SiO ₂)	mg/l	11	8.10	10.05	11.90	10.00	10.90	
Zinc (Zn), dissolved	µg/l	12	< 5.00	26.17	112.00	9.00	100.70	III
Copper (Cu), dissolved	µg/l	12	0.89	2.21	4.90	2.12	3.09	III
Chromium (Cr), total dissolved	µg/l	12	0.44	2.13	4.59	1.90	4.11	III
Lead (Pb), dissolved	µg/l	12	< 0.20	0.29	0.70	0.20	0.46	II
Cadmium (Cd), dissolved	µg/l	12	< 0.02	0.02	0.03	0.02	0.03	II
Mercury (Hg), dissolved	µg/l	12	< 0.050	0.075	0.160	0.070	0.089	II
Nickel (Ni), dissolved	µg/l	12	0.45	1.64	3.60	1.53	2.34	III
Arsenic (As), dissolved	µg/l	12	0.89	1.82	3.48	1.61	3.06	III
Aluminium (Al), dissolved	µg/l	12	11.00	121.54	375.00	75.70	310.10	
Zinc (Zn)	µg/l	12	13.00	48.75	142.00	32.00	130.10	III
Copper (Cu)	µg/l	12	2.40	5.05	9.77	4.16	9.38	II
Chromium (Cr) - total	µg/l	12	2.00	6.38	18.20	5.81	9.85	II
Lead (Pb)	µg/l	12	0.26	2.73	8.76	0.89	7.96	III
Cadmium (Cd)	µg/l	12	< 0.02	0.06	0.15	0.04	0.12	II
Mercury (Hg)	µg/l	12	< 0.050	0.123	0.270	0.105	0.180	III
Nickel (Ni)	µg/l	12	1.20	3.65	7.50	2.22	7.14	II
Arsenic (As)	µg/l	12	1.50	2.77	4.46	2.54	3.92	II
Aluminium (Al)	µg/l	12	130.00	2264.17	10700.00	540.00	8475.00	
Phenol index	mg/l	12	0.0020	0.1685	2.0000	0.0020	0.0020	
Anionic active surfactants (PAL-A)	mg/l	52	< 0.020	0.023	0.042	0.020	0.029	
AOX	µg/l	11	< 10.00	14.78	20.60	14.80	18.40	II
Petroleum hydrocarbons	mg/l	11	< 0.010	0.019	0.040	0.020	0.030	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.0010	0.0010	0.0010	0.0010	0.0010	I
pp-DDT	µg/l	12	0.0050	0.0050	0.0050	0.0050	0.0050	II
Atrazine	µg/l	12	< 0.001	0.015	0.034	0.016	0.025	II
Chloroform	µg/l	12	< 0.10	0.28	0.70	0.20	0.58	II
Carbon tetrachloride	µg/l	12	< 0.10	0.11	0.20	0.10	0.10	II
Trichloroethylene	µg/l	12	< 0.10	0.52	2.50	0.10	1.80	III
Tetrachloroethylene	µg/l	12	< 0.10	0.10	0.10	0.10	0.10	II
Macrozoobenthos sapr. index	-	2	2.23	2.27	2.31			II
Macrozoobenthos no. of taxa	-	2	15	17	18			
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m	6	8.800	24.300	50.000	20.000		
Faecal streptococci	1000CFU/100m	2	3.000	6.500	10.000			
Salmonella	No/1l	6	0.0	0.3	1.0	0.0		

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

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

River: /Drava

Catchment: 15356 km2

2004

Distance from the mouth 300

Altitude: 192 m

SI01

Location: Left

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	85.0	313.7	1050.0	282.5	529.0	
Temperature	°C	24	0.8	10.2	19.6	11.0	18.0	
Suspended solids	mg/l	24	1.6	13.1	95.6	7.7	22.4	
Dissolved oxygen	mg/l	24	8.7	11.8	15.3	11.6	9.2	I
BOD (5)	mg/l							
COD (Mn)	mg/l	24	1.2	2.4	7.0	2.0	3.1	I
COD (Cr)	mg/l	24	3.0	6.3	17.0	5.0	9.7	I
TOC	mg/l	20	1.0	2.9	8.5	2.1	4.6	
DOC	mg/l							
pH	-	24	7.3	7.9	8.4	7.9	8.3	II
							7.6	II
Alkalinity - total	mmol/l	24	1.7	2.3	2.8	2.3	2.7	
Ammonium (NH4-N)	mg/l	24	0.007	0.043	0.156	0.039	0.073	I
Nitrite (NO2-N)	mg/l	24	0.005	0.008	0.031	0.007	0.011	II
Nitrate (NO3-N)	mg/l	24	0.771	1.055	1.441	1.042	1.341	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	24 <	0.003	0.010	0.019	0.010	0.014	I
Total phosphorus	mg/l	24	0.016	0.035	0.147	0.030	0.045	I
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	7 <	1.0	2.6	8.4	1.9		I
Conductivity	µS/cm	24	190	260	341	268	306	
Calcium (Ca++)	mg/l	24	28.6	38.8	47.5	38.5	45.9	
Sulphate (SO4--)	mg/l	24	16.1	23.3	30.1	23.1	28.6	
Magnesium (Mg++)	mg/l	24	7.0	10.4	13.8	10.5	11.9	
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	24	0.0035	0.0191	0.0720	0.0145	0.0344	
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	24	3.5	5.6	8.7	5.4	7.8	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	24 <	1.64	5.68	19.10	3.85	10.24	III
Copper (Cu), dissolved	µg/l	24 <	0.06	0.59	1.57	0.45	1.21	II
Chromium (Cr), total dissolved	µg/l	24 <	0.07	1.65	6.93	1.33	2.81	III
Lead (Pb), dissolved	µg/l	24 <	0.04	0.13	0.70	0.04	0.44	II
Cadmium (Cd), dissolved	µg/l	24 <	0.04	0.05	0.15	0.04	0.06	II
Mercury (Hg), dissolved	µg/l	22 <	0.170 <	0.170	0.170	0.170	0.170	**
Nickel (Ni), dissolved	µg/l	24	0.94	1.71	3.59	1.66	2.52	III
Arsenic (As), dissolved	µg/l	24 <	0.05	1.24	3.16	1.24	1.57	III
Aluminium (Al), dissolved	µg/l	24 <	0.80	11.18	40.50	8.80	22.90	
Zinc (Zn)	µg/l	24 <	1.64	8.75	27.60	7.70	20.12	II
Copper (Cu)	µg/l	24	0.07	0.71	1.69	0.50	1.53	II
Chromium (Cr) - total	µg/l	24 <	0.06	1.74	6.93	1.33	3.44	II
Lead (Pb)	µg/l	24 <	0.04	1.83	5.01	1.65	3.35	II
Cadmium (Cd)	µg/l	24 <	0.01	0.03	0.17	0.01	0.07	II
Mercury (Hg)	µg/l	24 <	0.030	0.036	0.090	0.030	0.054	II
Nickel (Ni)	µg/l	24	0.94	2.11	3.63	1.97	3.15	II
Arsenic (As)	µg/l	24	0.16	1.52	3.27	1.39	2.00	II
Aluminium (Al)	µg/l	24	12.00	205.80	713.60	138.10	510.44	
Phenol index	mg/l	14	0.0010	0.0039	0.0100	0.0040	0.0060	
Anionic active surfactants (PAL-A)	mg/l							
AOX	µg/l	4 <	0.01	3.00	6.00	3.00		I
Petroleum hydrocarbons	mg/l	13 <	0.002	0.005	0.027	0.002	0.007	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	3	0.0020	0.0020	0.0020			I
pp-DDT	µg/l	2	0.0040	0.0040	0.0040			II
Atrazine	µg/l	2 <	0.030 <	0.030	0.030			II
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-	3	2.24	2.28	2.33			III
Macrozoobenthos no. of taxa	-	3	13	21	26			
Total coliforms (37 C)	1000CFU/100m	24	0.090	6.101	35.000	3.400	15.300	
Faecal coliforms (44 C)	1000CFU/100m	24	0.030	2.102	24.000	0.635	3.410	
Faecal streptococci	1000CFU/100m	24	0.000	0.245	2.500	0.060	0.435	
Salmonella	No/1l							

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

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

River: /Sava

Catchment: 10878 km2

2004

Distance from the mouth 729

Altitude: 135 m

SI02

Location: Right

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	96.0	323.6	1660.0	233.5	628.5	
Temperature	°C	25	5.9	12.8	22.6	12.3	19.0	
Suspended solids	mg/l	25	1.6	13.7	90.4	6.4	33.2	
Dissolved oxygen	mg/l	25	6.7	10.6	14.0	11.0	8.6	I
BOD (5)	mg/l	25	1.4	2.4	4.6	2.4	3.2	II
COD (Mn)	mg/l	25	2.5	3.9	7.1	3.8	5.3	II
COD (Cr)	mg/l	25	6.0	9.4	18.0	8.0	13.0	II
TOC	mg/l	20	1.3	3.6	7.4	3.5	4.8	
DOC	mg/l							
pH	-	25	7.6	7.9	8.2	7.9	8.1	II
							7.7	II
Alkalinity - total	mmol/l	25	3.3	3.6	4.1	3.7	3.9	
Ammonium (NH4-N)	mg/l	25	0.005	0.047	0.136	0.035	0.121	I
Nitrite (NO2-N)	mg/l	25	0.004	0.021	0.047	0.018	0.038	II
Nitrate (NO3-N)	mg/l	25	0.730	1.549	2.140	1.505	2.044	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	25	0.015	0.068	0.168	0.062	0.129	III
Total phosphorus	mg/l	25	0.049	0.110	0.221	0.099	0.179	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	25	316	359	401	355	397	
Calcium (Ca++)	mg/l	25	53.2	59.7	65.9	59.1	63.7	
Sulphate (SO4--)	mg/l	25	9.1	16.2	24.1	15.5	20.9	
Magnesium (Mg++)	mg/l	25	10.5	13.9	17.0	14.3	15.8	
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	25	0.0035	0.0162	0.0490	0.0160	0.0292	
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	25	3.6	7.4	15.7	6.4	10.0	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	25	< 1.64	2.79	7.90	1.90	5.46	III
Copper (Cu), dissolved	µg/l	25	< 0.06	0.66	2.10	0.61	0.97	II
Chromium (Cr), total dissolved	µg/l	25	< 0.07	2.19	5.19	2.46	4.01	III
Lead (Pb), dissolved	µg/l	25	< 0.04	< 0.04	< 0.04	0.04	0.04	II
Cadmium (Cd), dissolved	µg/l	25	< 0.04	0.04	0.04	0.04	0.04	II
Mercury (Hg), dissolved	µg/l	20	< 0.170	< 0.170	: 0.170	0.170	0.170	**
Nickel (Ni), dissolved	µg/l	25	< 0.08	2.42	6.40	2.44	3.20	III
Arsenic (As), dissolved	µg/l	25	< 0.05	0.39	1.02	0.35	0.58	II
Aluminium (Al), dissolved	µg/l	25	< 0.80	7.63	20.40	7.70	13.74	
Zinc (Zn)	µg/l	25	< 1.64	4.38	14.60	2.50	8.26	II
Copper (Cu)	µg/l	25	< 0.05	0.98	7.13	0.67	1.75	II
Chromium (Cr) - total	µg/l	25	< 0.06	2.46	5.24	2.50	4.76	II
Lead (Pb)	µg/l	25	< 0.04	0.36	1.80	0.18	1.03	II
Cadmium (Cd)	µg/l	25	< 0.01	0.02	0.12	0.01	0.05	II
Mercury (Hg)	µg/l	25	< 0.030	0.040	0.210	0.030	0.030	II
Nickel (Ni)	µg/l	25	< 0.05	2.69	6.40	2.51	3.72	II
Arsenic (As)	µg/l	25	< 0.03	0.47	1.06	0.48	0.71	II
Aluminium (Al)	µg/l	25	33.20	288.89	1888.60	144.40	727.24	
Phenol index	mg/l	14	0.0040	0.0061	0.0120	0.0050	0.0094	
Anionic active surfactants (PAL-A)	mg/l							
AOX	µg/l	4	49.00	81.50	96.00	90.50		III
Petroleum hydrocarbons	mg/l	12	< 0.002	0.009	0.020	0.008	0.017	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	3	0.0020	0.0020	0.0020			I
pp-DDT	µg/l	1	0.0040	0.0040	0.0040			II
Atrazine	µg/l	2	< 0.030	< 0.030	: 0.030			II
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-	2	2.09	2.15	2.20			II
Macrozoobenthos no. of taxa	-	2	33	35	36			
Total coliforms (37 C)	1000CFU/100m	23	1.000	14.849	77.300	8.000	32.000	
Faecal coliforms (44 C)	1000CFU/100m	23	0.180	4.358	26.000	2.100	8.000	
Faecal streptococci	1000CFU/100m	23	0.000	0.511	4.100	0.150	1.048	
Salmonella	No/1l							

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

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

River: Danube	Catchment: 210250 km2	2004
Distance from the mouth 1429	Altitude: 86 m	HR01
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	12	1070.0	1918.9	2860.0	1890.0	2545.0	
Temperature	°C	12	0.6	12.8	25.4	14.5	21.4	
Suspended solids	mg/l	12	7.0	21.3	49.0	17.5	43.6	
Dissolved oxygen	mg/l	12	7.6	10.4	13.1	9.9	8.4	I
BOD (5)	mg/l	11	1.8	3.2	5.6	3.0	4.2	II
COD (Mn)	mg/l	12	2.5	3.7	5.6	3.5	4.6	I
COD (Cr)	mg/l	12	10.0	15.5	23.0	15.0	19.9	II
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.8	8.2	8.6	8.2	8.5	II
							8.0	II
Alkalinity - total	mmol/l							
Ammonium (NH4-N)	mg/l	12	0.020	0.094	0.310	0.060	0.186	I
Nitrite (NO2-N)	mg/l	12	0.012	0.025	0.040	0.024	0.036	II
Nitrate (NO3-N)	mg/l	12	1.130	1.934	4.140	1.640	2.440	II
Total nitrogen	mg/l	12	1.64	2.37	4.82	2.14	3.00	II
Organic nitrogen	mg/l	12	0.05	0.31	0.65	0.30	0.53	
Orthophosphate (PO4-P)	mg/l	12	0.010	0.048	0.080	0.045	0.080	II
Total phosphorus	mg/l	12	0.060	0.117	0.150	0.120	0.140	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	12	298	391	531	374	473	
Calcium (Ca++)	mg/l	12	46.0	62.8	78.0	63.0	74.7	
Sulphate (SO4--)	mg/l							
Magnesium (Mg++)	mg/l	12	11.0	14.9	20.0	14.0	18.8	
Potassium (K+)	mg/l	12	1.6	2.5	3.3	2.4	3.1	
Sodium (Na+)	mg/l	12	11.0	16.1	26.0	14.5	23.6	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	13.0	20.3	32.0	18.5	26.9	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0010	0.0032	0.0100	0.0025	0.0050	
Anionic active surfactants (PAL-A)	mg/l	12	0.050	0.050	0.050	0.050	0.050	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	0.020	0.037	0.079	0.035	0.052	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	2	0.1000	0.1000	0.1000			II
pp-DDT	µg/l	2	0.1000	0.1000	0.1000			V
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	0.400	2.733	8.200	1.350	7.760	
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: Danube	Catchment: 243147 km2	2004
Distance from the mouth 1337	Altitude: 89 m	HR02
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	26	0.0	12.2	25.0	12.8	22.5	
Suspended solids	mg/l	26	10.0	48.5	171.0	45.5	80.5	
Dissolved oxygen	mg/l	26	6.9	9.3	11.9	9.2	7.7	I
BOD (5)	mg/l	26	0.6	2.9	5.9	2.7	4.5	II
COD (Mn)	mg/l	26	2.1	3.8	5.8	3.6	5.1	II
COD (Cr)	mg/l	26	4.5	14.3	32.5	12.1	26.6	III
TOC	mg/l							
DOC	mg/l							
pH	-	26	8.0	8.2	8.7	8.2	8.4	II
							8.0	II
Alkalinity - total	mmol/l							
Ammonium (NH4-N)	mg/l	26	0.070	0.164	0.380	0.150	0.270	II
Nitrite (NO2-N)	mg/l	26	0.010	0.029	0.318	0.019	0.024	II
Nitrate (NO3-N)	mg/l	26	1.130	2.677	4.520	2.599	3.390	III
Total nitrogen	mg/l	26	1.51	3.16	5.05	3.02	3.94	II
Organic nitrogen	mg/l	26	0.02	0.28	0.59	0.30	0.48	
Orthophosphate (PO4-P)	mg/l	26	0.020	0.071	0.270	0.060	0.115	III
Total phosphorus	mg/l	26	0.050	0.235	2.050	0.145	0.310	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	26	121	394	487	396	471	
Calcium (Ca++)	mg/l	12	31.7	44.3	57.3	45.4	55.0	
Sulphate (SO4--)	mg/l							
Magnesium (Mg++)	mg/l	12	8.0	10.5	12.3	10.9	12.2	
Potassium (K+)	mg/l	12	1.5	2.0	2.9	2.0	2.7	
Sodium (Na+)	mg/l	12	4.0	14.9	24.9	17.2	22.0	
Manganese (Mn)	mg/l	12	0.0000	0.0097	0.0180	0.0080	0.0177	
Iron (Fe)	mg/l	12	0.015	0.051	0.124	0.035	0.093	
Chloride (Cl-)	mg/l							
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0010	0.0026	0.0100	0.0010	0.0050	
Anionic active surfactants (PAL-A)	mg/l	12	0.050	0.050	0.050	0.050	0.050	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	0.002	0.026	0.055	0.019	0.046	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.0010	0.0010	0.0010	0.0010	0.0010	I
pp-DDT	µg/l	12	0.0010	0.0010	0.0010	0.0010	0.0010	I
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	0.011	1.447	3.300	1.260	3.240	
Faecal coliforms (44 C)	1000CFU/100m	12	0.004	1.155	3.300	0.620	2.300	
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: /Drava	Catchment: 15616 km2	2004
Distance from the mouth 288	Altitude: 169 m	HR03
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	26	0.8	10.6	19.9	12.5	17.7	
Suspended solids	mg/l	26	2.0	11.6	46.0	8.5	18.5	
Dissolved oxygen	mg/l	26	7.4	9.9	14.3	9.3	7.8	I
BOD (5)	mg/l	25	0.5	2.4	5.2	2.2	3.8	II
COD (Mn)	mg/l	26	1.5	3.2	6.8	3.0	4.7	I
COD (Cr)	mg/l							
TOC	mg/l							
DOC	mg/l							
pH	-	26	7.6	7.8	8.1	7.8	8.0	II
							7.7	II
Alkalinity - total	mmol/l							
Ammonium (NH4-N)	mg/l	26	0.010	0.078	0.420	0.052	0.138	I
Nitrite (NO2-N)	mg/l	26	0.007	0.014	0.042	0.012	0.021	II
Nitrate (NO3-N)	mg/l	26	0.096	1.112	1.790	1.105	1.620	II
Total nitrogen	mg/l	26	1.12	1.69	3.69	1.45	2.57	II
Organic nitrogen	mg/l	26	0.05	0.46	1.69	0.29	0.99	
Orthophosphate (PO4-P)	mg/l	26	0.025	0.025	0.025	0.025	0.025	I
Total phosphorus	mg/l	25	0.025	0.033	0.091	0.027	0.043	I
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm							
Calcium (Ca++)	mg/l							
Sulphate (SO4--)	mg/l							
Magnesium (Mg++)	mg/l							
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l	12	0.044	0.147	0.489	0.102	0.318	
Chloride (Cl-)	mg/l							
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0010	0.0010	0.0010	0.0010	0.0010	
Anionic active surfactants (PAL-A)	mg/l							
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gamma-HCH)	µg/l	12	0.0020	0.0020	0.0020	0.0020	0.0020	I
pp-DDT	µg/l	12	0.0050	0.0050	0.0050	0.0050	0.0050	II
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	0.220	4.405	24.000	0.880	9.600	
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: /Drava	Catchment: 31038 km2	2004
Distance from the mouth 227	Altitude: 123 m	HR04
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	12	206.0	438.3	996.0	404.0	640.1	
Temperature	°C	12	3.7	11.4	19.8	12.5	17.0	
Suspended solids	mg/l	12	4.0	19.0	80.0	12.0	32.1	
Dissolved oxygen	mg/l	12	7.7	10.2	14.9	10.0	8.2	I
BOD (5)	mg/l	12	0.6	1.8	3.5	1.7	2.8	I
COD (Mn)	mg/l	12	1.6	2.8	3.6	2.9	3.5	I
COD (Cr)	mg/l	12	3.0	7.2	12.0	7.4	11.0	II
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.2	7.8	8.1	7.8	8.1	II
							7.5	II
Alkalinity - total	mmol/l							
Ammonium (NH4-N)	mg/l	12	0.010	0.043	0.080	0.040	0.079	I
Nitrite (NO2-N)	mg/l							
Nitrate (NO3-N)	mg/l	12	0.950	1.291	2.070	1.230	1.562	II
Total nitrogen	mg/l	12	1.31	1.73	2.34	1.73	2.10	II
Organic nitrogen	mg/l	12	0.04	0.34	0.70	0.30	0.65	
Orthophosphate (PO4-P)	mg/l							
Total phosphorus	mg/l	12	0.040	0.061	0.090	0.060	0.079	I
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	12	235	295	367	288	349	
Calcium (Ca++)	mg/l	12	35.0	44.4	56.0	43.5	49.9	
Sulphate (SO4--)	mg/l							
Magnesium (Mg++)	mg/l	12	9.0	11.6	16.0	11.5	13.9	
Potassium (K+)	mg/l	12	1.6	2.5	5.9	2.2	3.0	
Sodium (Na+)	mg/l	12	5.5	8.0	13.0	7.9	10.9	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	5.0	10.3	16.0	9.6	15.9	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0010	0.0035	0.0060	0.0040	0.0058	
Anionic active surfactants (PAL-A)	mg/l	12	0.040	0.045	0.062	0.040	0.059	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	0.040	0.053	0.116	0.040	0.086	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.1000	0.1000	0.1000	0.1000	0.1000	II
pp-DDT	µg/l	12	0.1000	0.1000	0.1000	0.1000	0.1000	V
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	10	0.230	2.736	9.200	1.950		
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: /Drava	Catchment: 37142 km2	2004
Distance from the mouth 78	Altitude: 92 m	HR05
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	12	2.2	12.1	21.2	13.8	19.5	
Suspended solids	mg/l	12	6.0	18.1	81.0	9.0	35.4	
Dissolved oxygen	mg/l	12	8.0	10.4	13.7	10.0	8.4	I
BOD (5)	mg/l	12	0.6	1.6	3.3	1.7	2.4	I
COD (Mn)	mg/l	12	1.8	2.8	4.5	2.7	3.5	I
COD (Cr)	mg/l	12	4.0	8.6	19.4	8.3	9.9	I
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.4	7.9	8.2	7.9	8.1	II
							7.5	II
Alkalinity - total	mmol/l							
Ammonium (NH4-N)	mg/l	12	0.010	0.038	0.110	0.025	0.080	I
Nitrite (NO2-N)	mg/l							
Nitrate (NO3-N)	mg/l	12	0.900	1.387	2.320	1.335	1.849	II
Total nitrogen	mg/l	12	1.22	1.77	2.70	1.69	2.21	II
Organic nitrogen	mg/l	12	0.15	0.42	1.45	0.32	0.63	
Orthophosphate (PO4-P)	mg/l							
Total phosphorus	mg/l	12	0.040	0.071	0.100	0.075	0.099	I
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	12	234	306	390	300	366	
Calcium (Ca++)	mg/l	12	36.0	45.9	55.0	44.5	52.0	
Sulphate (SO4--)	mg/l							
Magnesium (Mg++)	mg/l	12	9.0	12.4	16.0	12.0	16.0	
Potassium (K+)	mg/l	12	1.6	2.3	3.6	2.2	3.3	
Sodium (Na+)	mg/l	12	5.4	8.6	14.9	7.8	12.9	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	7.0	11.1	18.0	11.0	15.9	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0020	0.0036	0.0060	0.0040	0.0058	
Anionic active surfactants (PAL-A)	mg/l	12	0.040	0.047	0.108	0.040	0.051	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	0.040	0.051	0.093	0.040	0.081	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	0.400	2.748	11.000	1.800	4.600	
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: /Sava

Catchment: 10834 km2

2004

Distance from the mouth 729

Altitude: 131 m

HR06

Location: Left

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	26	5.2	12.2	20.3	12.2	18.2	
Suspended solids	mg/l	26	0.6	20.2	212.0	10.3	28.1	
Dissolved oxygen	mg/l	26	6.2	9.8	12.9	10.1	8.0	I
BOD (5)	mg/l	26	1.2	2.5	5.6	2.1	4.0	II
COD (Mn)	mg/l	26	2.4	4.1	6.6	4.0	5.7	II
COD (Cr)	mg/l	26	6.5	12.6	23.1	10.6	18.2	II
TOC	mg/l							
DOC	mg/l	12	1.4	2.2	2.9	2.3	2.6	
pH	-	26	7.6	7.9	8.3	7.8	8.0	II
							7.7	II
Alkalinity - total	mmol/l							
Ammonium (NH4-N)	mg/l	26	0.010	0.085	1.000	0.045	0.120	I
Nitrite (NO2-N)	mg/l	26	0.013	0.023	0.040	0.023	0.031	II
Nitrate (NO3-N)	mg/l	26	1.100	1.573	2.400	1.450	2.100	II
Total nitrogen	mg/l	26	1.26	1.95	3.23	1.85	2.78	II
Organic nitrogen	mg/l	26	0.03	0.31	0.99	0.22	0.60	
Orthophosphate (PO4-P)	mg/l	26	0.030	0.077	0.250	0.050	0.155	III
Total phosphorus	mg/l	26	0.040	0.130	0.350	0.090	0.295	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	26	351	402	476	398	440	
Calcium (Ca++)	mg/l	12	51.2	61.8	76.0	60.6	70.3	
Sulphate (SO4--)	mg/l	12	10.0	20.6	43.4	19.3	41.3	
Magnesium (Mg++)	mg/l	12	10.7	14.3	17.3	14.1	16.6	
Potassium (K+)	mg/l	12	0.8	1.5	2.1	1.4	2.0	
Sodium (Na+)	mg/l	12	3.3	5.8	7.9	5.8	7.7	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	2.0	7.4	12.0	8.0	10.9	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0010	0.0016	0.0030	0.0010	0.0030	
Anionic active surfactants (PAL-A)	mg/l	12	0.010	0.012	0.030	0.010	0.010	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	26	0.020	0.052	0.110	0.045	0.100	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-	3	1.98	2.13	2.23			II
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	26	0.430	7.973	38.000	4.450	19.500	
Faecal coliforms (44 C)	1000CFU/100m	26	0.036	1.030	4.600	0.420	2.400	
Faecal streptococci	1000CFU/100m	26	0.008	2.304	24.000	0.220	4.600	
Salmonella	No/1l							

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

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

River: /Sava	Catchment: 30953 km2	2004
Distance from the mouth 525	Altitude: 87 m	HR07
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	153.0	697.1	2469.0	483.5	1505.0	
Temperature	°C	26	3.7	13.4	25.5	12.6	21.9	
Suspended solids	mg/l	26	4.2	26.2	252.0	15.4	28.5	
Dissolved oxygen	mg/l	26	4.7	8.4	11.1	9.0	6.1	II
BOD (5)	mg/l	26	1.6	3.2	6.7	3.0	4.5	II
COD (Mn)	mg/l	26	2.7	4.9	9.2	4.6	6.1	II
COD (Cr)	mg/l	26	10.0	15.4	24.2	14.2	21.0	II
TOC	mg/l							
DOC	mg/l	12	2.0	2.9	4.8	2.6	4.1	
pH	-	26	7.1	7.7	8.2	7.7	8.1	II
							7.5	II
Alkalinity - total	mmol/l							
Ammonium (NH4-N)	mg/l	26	0.030	0.182	0.490	0.165	0.295	II
Nitrite (NO2-N)	mg/l	26	0.013	0.034	0.100	0.029	0.057	II
Nitrate (NO3-N)	mg/l	26	1.000	1.488	2.100	1.450	2.000	II
Total nitrogen	mg/l	26	1.42	2.04	2.93	1.96	2.66	II
Organic nitrogen	mg/l	26	0.03	0.33	0.98	0.30	0.56	
Orthophosphate (PO4-P)	mg/l	26	0.020	0.112	0.240	0.090	0.215	IV
Total phosphorus	mg/l	26	0.050	0.185	0.290	0.185	0.275	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	26	332	408	487	396	462	
Calcium (Ca++)	mg/l	12	48.1	57.7	69.0	59.7	64.1	
Sulphate (SO4--)	mg/l	12	10.1	16.2	23.8	16.1	22.2	
Magnesium (Mg++)	mg/l	12	10.8	14.9	19.7	14.6	18.3	
Potassium (K+)	mg/l	12	1.3	2.0	2.6	2.0	2.6	
Sodium (Na+)	mg/l	12	3.3	6.6	9.2	7.0	9.1	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	2.9	11.9	53.4	8.6	12.6	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0010	0.0012	0.0030	0.0010	0.0010	
Anionic active surfactants (PAL-A)	mg/l	12	0.010	0.016	0.050	0.010	0.020	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	26	0.010	0.051	0.120	0.040	0.090	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	26	0.075	8.179	42.000	4.300	24.000	
Faecal coliforms (44 C)	1000CFU/100m	26	0.004	0.696	5.500	0.364	1.230	
Faecal streptococci	1000CFU/100m	25	0.002	0.767	4.600	0.046	2.400	
Salmonella	No/1l							

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

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

River: /Sava	Catchment: 62890 km2	2004
Distance from the mouth 254	Altitude: 85 m	HR08
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	306.0	1164.9	3447.0	984.0	2105.0	
Temperature	°C	25	3.5	14.6	26.1	14.6	22.1	
Suspended solids	mg/l	26	5.8	24.3	234.0	15.5	29.4	
Dissolved oxygen	mg/l	26	6.2	8.8	11.3	8.3	6.9	II
BOD (5)	mg/l	26	1.0	2.5	5.2	2.4	3.3	II
COD (Mn)	mg/l	26	2.8	4.3	8.4	4.2	5.7	II
COD (Cr)	mg/l	26	6.8	12.6	24.0	12.1	16.7	II
TOC	mg/l							
DOC	mg/l	12	1.0	2.3	3.3	2.4	2.7	
pH	-	26	7.3	7.8	8.3	7.7	8.2	II
							7.5	II
Alkalinity - total	mmol/l							
Ammonium (NH4-N)	mg/l	26	0.010	0.065	0.190	0.045	0.160	I
Nitrite (NO2-N)	mg/l	26	0.008	0.020	0.040	0.019	0.030	II
Nitrate (NO3-N)	mg/l	26	0.700	1.262	2.100	1.200	1.600	II
Total nitrogen	mg/l	26	0.90	1.63	2.30	1.57	2.15	II
Organic nitrogen	mg/l	26	0.03	0.28	0.70	0.24	0.46	
Orthophosphate (PO4-P)	mg/l	26	0.010	0.061	0.160	0.050	0.100	II
Total phosphorus	mg/l	26	0.050	0.120	0.350	0.100	0.175	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	26	350	431	522	430	508	
Calcium (Ca++)	mg/l	12	39.6	60.9	78.0	59.9	77.5	
Sulphate (SO4--)	mg/l	12	11.4	19.7	32.5	17.9	30.1	
Magnesium (Mg++)	mg/l	12	12.0	15.0	22.8	14.1	17.9	
Potassium (K+)	mg/l	12	1.3	2.0	3.3	2.0	3.0	
Sodium (Na+)	mg/l	12	5.6	9.7	16.8	8.0	16.5	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	5.8	13.4	24.8	11.4	22.2	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0010	0.0010	0.0010	0.0010	0.0010	
Anionic active surfactants (PAL-A)	mg/l	12	0.010	0.010	0.010	0.010	0.010	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	26	0.010	0.049	0.100	0.050	0.085	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	26	0.360	5.529	25.900	2.400	16.100	
Faecal coliforms (44 C)	1000CFU/100m	26	0.014	0.877	11.000	0.235	1.300	
Faecal streptococci	1000CFU/100m	25	0.021	10.421	230.000	0.384	3.720	
Salmonella	No/1l							

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

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

River: Danube	Catchment: 254085 km ²	2004
Distance from the mouth 1258	Altitude: 75 m	SCG03
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s							
Temperature	°C	23	1.2	11.9	22.6	12.2	21.0	
Suspended solids	mg/l	23	3.0	22.8	58.0	22.0	42.0	
Dissolved oxygen	mg/l	23	8.3	10.7	14.2	10.7	8.8	I
BOD (5)	mg/l	17	1.5	2.9	4.7	2.8	4.4	II
COD (Mn)	mg/l	22	2.8	4.4	5.8	4.5	5.5	II
COD (Cr)	mg/l							
TOC	mg/l							
DOC	mg/l							
pH	-	20	7.8	8.1	8.6	8.2	8.4	II
							7.8	II
Alkalinity - total	mmol/l	23	1.9	2.6	3.1	2.6	2.9	
Ammonium (NH ₄ -N)	mg/l	23	0.100	0.209	0.560	0.190	0.296	II
Nitrite (NO ₂ -N)	mg/l	23	0.011	0.022	0.036	0.021	0.031	II
Nitrate (NO ₃ -N)	mg/l	23	0.860	1.884	4.030	1.670	2.978	II
Total nitrogen	mg/l	4	1.92	2.81	3.40	2.96		II
Organic nitrogen	mg/l	4	0.20	0.68	1.80	0.35		
Orthophosphate (PO ₄ -P)	mg/l	23 <	0.005	0.046	0.111	0.052	0.080	II
Total phosphorus	mg/l	12	0.082	0.123	0.215	0.108	0.163	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	23	296	412	552	397	503	
Calcium (Ca ⁺⁺)	mg/l	12	35.0	52.4	61.9	53.0	61.0	
Sulphate (SO ₄ ⁻⁻)	mg/l	12	33.0	40.3	49.0	40.0	45.0	
Magnesium (Mg ⁺⁺)	mg/l	12	8.3	13.3	18.8	13.4	16.3	
Potassium (K ⁺)	mg/l	12	1.4	2.2	3.1	2.4	3.0	
Sodium (Na ⁺)	mg/l	12	8.9	14.9	18.7	15.5	18.0	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl ⁻)	mg/l	12	14.1	20.7	28.1	20.9	25.6	
Silicates (SiO ₂)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l	23 <	0.100	0.104	0.200	0.100	0.100	II
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	22	0.0010	0.0015	0.0030	0.0010	0.0020	
Anionic active surfactants (PAL-A)	mg/l							
AOX	µg/l							
Petroleum hydrocarbons	mg/l	1 <	0.005 <	0.005 :	0.005			
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: /Sava

Catchment: 38953 km2

2004

Distance from the mouth 500

Altitude: 87 m

BIH01

Location: Middle

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	4	105.0	250.3	475.0	210.5		
Temperature	°C	4	13.4	19.8	23.9	21.0		
Suspended solids	mg/l	4	7.3	14.5	21.8	14.4		
Dissolved oxygen	mg/l	4	7.3	8.2	10.3	7.7		I
BOD (5)	mg/l							
COD (Mn)	mg/l	4	2.1	3.2	4.1	3.2		I
COD (Cr)	mg/l	4	6.7	10.7	16.0	10.0		II
TOC	mg/l							
DOC	mg/l							
pH	-	4	7.6	7.7	7.9	7.7		II
Alkalinity - total	mmol/l	4	3.9	4.1	4.3	4.1		II
Ammonium (NH4-N)	mg/l	4	0.030	0.113	0.290	0.065		II
Nitrite (NO2-N)	mg/l	4	0.018	0.029	0.044	0.026		II
Nitrate (NO3-N)	mg/l	4	1.020	1.115	1.240	1.100		II
Total nitrogen	mg/l	4	1.42	2.06	3.03	1.90		II
Organic nitrogen	mg/l	4	0.10	0.82	1.96	0.61		
Orthophosphate (PO4-P)	mg/l	4	0.073	0.116	0.226	0.083		IV
Total phosphorus	mg/l	4	0.128	0.171	0.266	0.144		III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	4	337	393	445	394		
Calcium (Ca++)	mg/l	4	56.9	65.6	79.2	63.2		
Sulphate (SO4--)	mg/l							
Magnesium (Mg++)	mg/l	4	6.9	12.9	22.4	11.1		
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l	4	0.210	0.410	0.720	0.355		
Chloride (Cl-)	mg/l							
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	4 <	10.00 <	10.00 <	10.00	10.00		II
Copper (Cu)	µg/l	4 <	10.00 <	10.00 <	10.00	10.00		II
Chromium (Cr) - total	µg/l	4 <	1.00	1.25	2.00	1.00		II
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l	4 <	0.20 <	0.20 <	0.20	0.20		II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	4 <	10.00 <	10.00 <	10.00	10.00		II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l							
Anionic active surfactants (PAL-A)	mg/l							
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: /Sava/Una
 Distance from the mouth 16
 Location: Middle

Catchment: 9130 km2
 Altitude: 94 m
 2004
 BIH02

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	4	14.0	39.5	105.0	19.5		
Temperature	°C	4	19.1	21.0	22.3	21.2		
Suspended solids	mg/l	4	< 1.0	3.9	7.0	3.8		
Dissolved oxygen	mg/l	4	9.1	11.6	14.4	11.5		I
BOD (5)	mg/l							
COD (Mn)	mg/l	4	0.8	1.4	2.1	1.4		I
COD (Cr)	mg/l	4	4.0	4.5	6.0	4.0		I
TOC	mg/l							
DOC	mg/l							
pH	-	4	8.0	8.1	8.2	8.1		II
Alkalinity - total	mmol/l	4	3.8	4.1	4.4	4.2		II
Ammonium (NH4-N)	mg/l	4	0.010	0.040	0.080	0.035		I
Nitrite (NO2-N)	mg/l	4	0.002	0.005	0.006	0.005		I
Nitrate (NO3-N)	mg/l	4	0.290	0.455	0.620	0.455		I
Total nitrogen	mg/l	4	0.35	0.95	2.13	0.66		II
Organic nitrogen	mg/l	4	0.10	0.49	1.65	0.10		
Orthophosphate (PO4-P)	mg/l	4	< 0.005	0.006	0.007	0.005		I
Total phosphorus	mg/l	4	0.028	0.037	0.046	0.037		I
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	4	360	394	430	394		
Calcium (Ca++)	mg/l	4	41.3	64.3	97.6	59.1		
Sulphate (SO4--)	mg/l							
Magnesium (Mg++)	mg/l	4	6.9	16.9	27.9	16.4		
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	4	0.0100	0.0200	0.0300	0.0200		
Iron (Fe)	mg/l	4	0.030	0.093	0.170	0.085		
Chloride (Cl-)	mg/l							
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	4	< 10.00	< 10.00	< 10.00	10.00		II
Copper (Cu)	µg/l	4	< 10.00	< 10.00	< 10.00	10.00		II
Chromium (Cr) - total	µg/l	4	< 1.00	< 1.00	< 1.00	1.00		II
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l	4	< 0.20	< 0.20	< 0.20	0.20		II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	4	< 10.00	< 10.00	< 10.00	10.00		II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l							
Anionic active surfactants (PAL-A)	mg/l							
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: /Sava/Vrbas
 Distance from the mouth 12
 Location: Middle

Catchment: 6023 km2
 Altitude: 100 m
 2004
 BIH03

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	4	55.0	71.3	108.0	61.0		
Temperature	°C	4	14.3	19.4	24.0	19.7		
Suspended solids	mg/l	4	7.8	11.8	15.0	12.3		
Dissolved oxygen	mg/l	4	9.2	10.7	14.5	9.5		I
BOD (5)	mg/l							
COD (Mn)	mg/l	4	1.4	1.9	2.5	1.9		I
COD (Cr)	mg/l	4	4.3	6.2	10.0	5.3		I
TOC	mg/l							
DOC	mg/l							
pH	-	4	7.4	7.9	8.2	8.0		II
Alkalinity - total	mmol/l	4	3.7	3.9	4.1	3.9		II
Ammonium (NH4-N)	mg/l	4	0.010	0.070	0.130	0.070		I
Nitrite (NO2-N)	mg/l	4	0.015	0.026	0.044	0.023		II
Nitrate (NO3-N)	mg/l	4	0.460	0.563	0.620	0.585		I
Total nitrogen	mg/l	4	0.69	2.18	4.49	1.77		III
Organic nitrogen	mg/l	4	0.10	1.31	3.88	0.64		
Orthophosphate (PO4-P)	mg/l	4	0.020	0.086	0.226	0.048		IV
Total phosphorus	mg/l	4	0.062	0.128	0.280	0.085		III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	4	357	386	415	386		
Calcium (Ca++)	mg/l	4	24.1	60.4	96.8	60.3		
Sulphate (SO4--)	mg/l							
Magnesium (Mg++)	mg/l	4	5.5	19.4	35.2	18.4		
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	4	0.0300	0.0400	0.0500	0.0400		
Iron (Fe)	mg/l	4	0.200	0.310	0.490	0.275		
Chloride (Cl-)	mg/l							
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	4 <	10.00 <	10.00 <	10.00	10.00		II
Copper (Cu)	µg/l	4 <	10.00 <	10.00 <	10.00	10.00		II
Chromium (Cr) - total	µg/l	4 <	1.00 <	1.00 <	1.00	1.00		II
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l	4 <	0.20 <	0.20 <	0.20	0.20		II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	4 <	10.00 <	10.00 <	10.00	10.00		II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l							
Anionic active surfactants (PAL-A)	mg/l							
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: /Sava/Bosna
 Distance from the mouth 24
 Location: Middle

Catchment: 10308 km2
 Altitude: 99 m
 2004
 BIH04

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	4	40.0	72.0	117.0	65.5		
Temperature	°C	4	16.0	19.8	23.3	20.0		
Suspended solids	mg/l	4	4.5	28.8	71.8	19.4		
Dissolved oxygen	mg/l	4	8.8	9.7	10.8	9.6		I
BOD (5)	mg/l							
COD (Mn)	mg/l	4	2.8	3.6	5.4	3.2		II
COD (Cr)	mg/l	4	6.0	21.5	38.0	21.0		III
TOC	mg/l							
DOC	mg/l							
pH	-	4	7.8	8.0	8.2	8.0		II
Alkalinity - total	mmol/l	4	3.3	3.7	4.1	3.7		II
Ammonium (NH4-N)	mg/l	4	0.060	0.145	0.220	0.150		II
Nitrite (NO2-N)	mg/l	4	0.014	0.023	0.032	0.024		II
Nitrate (NO3-N)	mg/l	4	0.760	1.073	1.550	0.990		II
Total nitrogen	mg/l	4	1.36	2.32	2.88	2.52		II
Organic nitrogen	mg/l	4	0.42	1.08	1.77	1.07		
Orthophosphate (PO4-P)	mg/l	4	0.075	0.123	0.191	0.112		III
Total phosphorus	mg/l	4	0.154	0.183	0.214	0.182		III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	4	565	666	852	624		
Calcium (Ca++)	mg/l	4	40.0	62.8	89.6	60.9		
Sulphate (SO4--)	mg/l							
Magnesium (Mg++)	mg/l	4	15.3	19.4	29.3	16.5		
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	4	0.0300	0.0750	0.1200	0.0750		
Iron (Fe)	mg/l	4	0.090	0.730	1.600	0.615		
Chloride (Cl-)	mg/l							
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	4	< 10.00	132.50	500.00	10.00		IV
Copper (Cu)	µg/l	4	< 10.00	< 10.00	< 10.00	10.00		II
Chromium (Cr) - total	µg/l	4	< 1.00	3.38	5.50	3.50		II
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l	4	< 0.20	0.28	0.50	0.20		II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	4	< 10.00	12.50	20.00	10.00		II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l							
Anionic active surfactants (PAL-A)	mg/l							
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: Danube	Catchment: 210250 km2	2004
Distance from the mouth 1427	Altitude: 83 m	SCG01
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	23	1250.0	2131.7	3660.0	2080.0	2926.0	
Temperature	°C	23	0.5	12.7	23.4	13.8	21.8	
Suspended solids	mg/l	23	4.0	30.5	98.0	28.0	44.0	
Dissolved oxygen	mg/l	23	8.6	11.0	14.4	11.1	9.3	I
BOD (5)	mg/l	23	1.0	2.7	5.6	2.6	4.1	II
COD (Mn)	mg/l	23	3.1	4.6	6.8	4.3	6.3	II
COD (Cr)	mg/l	11	10.0	15.1	22.0	15.0	20.0	II
TOC	mg/l							
DOC	mg/l							
pH	-	20	7.7	8.2	8.8	8.3	8.6	III
							7.7	II
Alkalinity - total	mmol/l	23	2.2	2.6	3.1	2.6	2.9	
Ammonium (NH4-N)	mg/l	23	0.020	0.130	0.300	0.120	0.258	II
Nitrite (NO2-N)	mg/l	23	0.006	0.020	0.039	0.018	0.035	II
Nitrate (NO3-N)	mg/l	23	0.690	1.971	4.180	1.760	3.166	III
Total nitrogen	mg/l	10	1.74	2.63	4.00	2.33		II
Organic nitrogen	mg/l	10	0.20	0.41	0.70	0.39		
Orthophosphate (PO4-P)	mg/l	23 <	0.005	0.044	0.088	0.044	0.082	II
Total phosphorus	mg/l	12	0.091	0.128	0.199	0.123	0.152	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	23	314	397	498	394	481	
Calcium (Ca++)	mg/l	12	42.0	54.2	66.0	54.2	64.7	
Sulphate (SO4--)	mg/l	12	30.0	38.8	48.0	38.0	47.9	
Magnesium (Mg++)	mg/l	12	10.6	13.9	17.0	14.2	15.3	
Potassium (K+)	mg/l	12	1.7	2.5	3.4	2.5	3.4	
Sodium (Na+)	mg/l	12	9.8	15.1	21.0	15.9	19.8	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	14.0	21.9	32.0	22.0	30.4	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l	23 <	0.100	0.100	0.100	0.100	0.100	II
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	21	0.0010	0.0024	0.0060	0.0020	0.0050	
Anionic active surfactants (PAL-A)	mg/l							
AOX	µg/l							
Petroleum hydrocarbons	mg/l	11 <	0.005	0.021	0.053	0.021	0.040	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	7	0.0020	0.0020	0.0020	0.0020		I
pp-DDT	µg/l	7	0.0020	0.0020	0.0020	0.0020		II
Atrazine	µg/l	3 <	0.009 <	0.009 :	0.009			I
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: Danube	Catchment: 251253 km2	2004
Distance from the mouth 1367	Altitude: 80 m	SCG02
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	11	1510.0	2438.2	3590.0	2320.0	3450.0	
Temperature	°C	11	1.6	13.7	23.4	15.4	22.4	
Suspended solids	mg/l	11	14.0	30.2	61.0	27.0	38.0	
Dissolved oxygen	mg/l	11	8.6	10.6	12.7	10.8	8.7	I
BOD (5)	mg/l	11	1.3	2.6	4.3	3.0	3.5	II
COD (Mn)	mg/l	11	3.3	4.9	6.6	4.7	6.1	II
COD (Cr)	mg/l							
TOC	mg/l							
DOC	mg/l							
pH	-	9	7.7	8.2	8.8	8.3		III
Alkalinity - total	mmol/l	11	2.2	2.6	3.0	2.6	2.8	II
Ammonium (NH4-N)	mg/l	11	0.050	0.165	0.420	0.140	0.260	II
Nitrite (NO2-N)	mg/l	11	0.008	0.020	0.037	0.017	0.035	II
Nitrate (NO3-N)	mg/l	11	0.750	1.925	3.870	1.890	3.020	III
Total nitrogen	mg/l	2	1.72	2.09	2.47			II
Organic nitrogen	mg/l	2	0.45	0.48	0.51			
Orthophosphate (PO4-P)	mg/l	11	0.006	0.045	0.092	0.051	0.078	II
Total phosphorus	mg/l	10	0.083	0.113	0.143	0.113		II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	11	320	405	501	391	493	
Calcium (Ca++)	mg/l	11	45.1	53.4	61.9	56.3	60.3	
Sulphate (SO4--)	mg/l	11	30.0	39.6	50.0	40.0	44.0	
Magnesium (Mg++)	mg/l	11	10.4	13.7	17.4	14.7	15.9	
Potassium (K+)	mg/l	11	1.3	2.1	3.3	2.1	2.5	
Sodium (Na+)	mg/l	11	9.7	15.2	19.0	14.7	18.5	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	11	15.8	21.3	28.3	20.1	26.2	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l	11 <	0.100	0.109	0.200	0.100	0.100	II
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	11	0.0010	0.0019	0.0080	0.0010	0.0040	
Anionic active surfactants (PAL-A)	mg/l	11 <	0.010	0.019	0.034	0.014	0.034	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	2 <	0.005 <	0.005 :	0.005			
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	2	0.0020	0.0020	0.0020			I
pp-DDT	µg/l	2	0.0020	0.0020	0.0020			II
Atrazine	µg/l	2 <	0.009 <	0.009 :	0.009			I
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: Danube	Catchment: 412762 km2	2004
Distance from the mouth 1174	Altitude: 71 m	SCG04
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	24	2.0	13.4	25.3	13.9	24.4	
Suspended solids	mg/l	22	2.6	18.8	69.0	13.5	30.8	
Dissolved oxygen	mg/l	24	7.1	10.9	16.1	10.7	8.6	I
BOD (5)	mg/l	23	1.1	2.3	4.0	2.3	3.0	I
COD (Mn)	mg/l	22	2.6	3.4	6.1	3.2	4.2	I
COD (Cr)	mg/l	16	5.7	13.1	20.8	11.9	19.1	II
TOC	mg/l							
DOC	mg/l							
pH	-	24	7.5	8.1	8.5	8.0	8.4	II
							7.9	II
Alkalinity - total	mmol/l	24	2.3	2.7	3.4	2.7	3.0	
Ammonium (NH4-N)	mg/l	24 <	0.010	0.121	0.800	0.050	0.314	III
Nitrite (NO2-N)	mg/l	17 <	0.003	0.043	0.104	0.036	0.072	III
Nitrate (NO3-N)	mg/l	21	0.970	1.617	2.740	1.570	2.210	II
Total nitrogen	mg/l	13	1.63	2.80	4.20	2.74	3.94	II
Organic nitrogen	mg/l	20	0.22	1.14	2.23	1.02	1.83	
Orthophosphate (PO4-P)	mg/l	23	0.008	0.044	0.127	0.040	0.083	II
Total phosphorus	mg/l	23	0.024	0.067	0.149	0.064	0.094	I
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	24	320	390	481	383	449	
Calcium (Ca++)	mg/l	18	43.1	54.4	66.6	53.5	62.8	
Sulphate (SO4--)	mg/l	23	20.0	27.8	41.0	27.0	34.6	
Magnesium (Mg++)	mg/l	18	8.1	13.8	19.7	13.6	18.4	
Potassium (K+)	mg/l	12	1.6	2.0	2.9	2.0	2.4	
Sodium (Na+)	mg/l	12	10.6	13.2	20.0	12.3	15.7	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	23	9.9	18.9	27.3	18.4	25.1	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l	24 <	0.100 <	0.100 :	0.100	0.100	0.100	II
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	22	0.0010	0.0010	0.0010	0.0010	0.0010	
Anionic active surfactants (PAL-A)	mg/l	12 <	0.010 <	0.010 :	0.010	0.010	0.010	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12 <	0.005	0.007	0.025	0.005	0.006	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	8	0.0020	0.0020	0.0020	0.0020		I
pp-DDT	µg/l	8	0.0020	0.0020	0.0020	0.0020		II
Atrazine	µg/l	8 <	0.009 <	0.009 :	0.009	0.009		I
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: Danube	Catchment: 525009 km2	2004
Distance from the mouth 1154	Altitude: 70 m	SCG05
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	11	2.0	13.5	23.3	15.0	23.0	
Suspended solids	mg/l	11	9.0	39.8	95.0	27.0	71.0	
Dissolved oxygen	mg/l	11	7.3	9.6	12.2	9.9	7.4	I
BOD (5)	mg/l	10	1.2	2.4	4.1	2.2		II
COD (Mn)	mg/l	11	3.1	5.1	7.5	5.2	7.3	II
COD (Cr)	mg/l							
TOC	mg/l							
DOC	mg/l							
pH	-	10	7.6	8.0	8.4	8.0		II
Alkalinity - total	mmol/l	11	1.8	2.3	2.6	2.3	2.6	II
Ammonium (NH4-N)	mg/l	10	0.100	0.238	0.460	0.185		III
Nitrite (NO2-N)	mg/l	11	0.013	0.025	0.046	0.025	0.038	II
Nitrate (NO3-N)	mg/l	11	0.790	1.625	2.560	1.620	2.470	II
Total nitrogen	mg/l	3	2.20	3.29	5.30			II
Organic nitrogen	mg/l	3	0.22	1.36	3.40			
Orthophosphate (PO4-P)	mg/l	11	0.011	0.048	0.087	0.042	0.079	II
Total phosphorus	mg/l	11	0.115	0.156	0.204	0.146	0.202	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	11	330	401	524	394	504	
Calcium (Ca++)	mg/l	11	37.0	48.9	58.0	49.4	55.9	
Sulphate (SO4--)	mg/l	11	32.0	40.5	52.0	42.0	45.0	
Magnesium (Mg++)	mg/l	11	9.2	11.7	16.3	11.6	13.5	
Potassium (K+)	mg/l	11	1.3	2.3	3.2	2.0	3.1	
Sodium (Na+)	mg/l	11	15.7	21.2	25.9	22.9	25.3	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	11	16.5	27.4	37.1	27.5	35.5	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	1	30.00	30.00	30.00			II
Copper (Cu), dissolved	µg/l	1	6.00	6.00	6.00			II
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l	1	1.00	1.00	1.00			II
Cadmium (Cd), dissolved	µg/l	1	0.10	0.10	0.10			II
Mercury (Hg), dissolved	µg/l	10	0.100	0.130	0.200	0.100		III
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	10	0.0010	0.0022	0.0050	0.0015		
Anionic active surfactants (PAL-A)	mg/l	11	0.010	0.016	0.034	0.010	0.032	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	2	0.005	0.013	0.020			
PAHs (Borneff 6)	µg/l	1	0.100	0.100	0.100			
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	4	0.0020	0.0020	0.0020	0.0020		I
pp-DDT	µg/l	4	0.0020	0.0020	0.0020	0.0020		II
Atrazine	µg/l	4	0.009	0.009	0.009	0.009		I
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: Danube	Catchment: 568648 km2	2004
Distance from the mouth 1076	Altitude: 69 m	SCG06
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	12	2.1	13.3	24.2	13.4	22.8	
Suspended solids	mg/l	12	10.0	28.7	80.0	24.0	51.0	
Dissolved oxygen	mg/l	12	7.2	9.6	12.4	9.1	8.2	I
BOD (5)	mg/l	11	1.0	2.0	3.4	1.9	3.1	II
COD (Mn)	mg/l	12	2.8	4.3	6.0	4.4	5.5	II
COD (Cr)	mg/l	9	10.0	11.9	16.0	12.0		II
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.6	7.9	8.4	7.9	8.1	II
							7.6	II
Alkalinity - total	mmol/l	12	2.2	2.5	2.8	2.5	2.7	
Ammonium (NH4-N)	mg/l	12	0.100	0.228	0.430	0.200	0.348	III
Nitrite (NO2-N)	mg/l	12	0.009	0.021	0.036	0.020	0.030	II
Nitrate (NO3-N)	mg/l	12	0.840	1.462	2.550	1.380	2.036	II
Total nitrogen	mg/l	8	1.09	2.33	4.24	2.14		III
Organic nitrogen	mg/l	8	0.12	0.65	2.80	0.40		
Orthophosphate (PO4-P)	mg/l	11	0.008	0.043	0.080	0.050	0.063	II
Total phosphorus	mg/l	12	0.055	0.124	0.189	0.123	0.174	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	12	319	389	484	378	467	
Calcium (Ca++)	mg/l	12	43.7	52.7	60.8	53.1	58.7	
Sulphate (SO4--)	mg/l	12	25.0	34.5	41.0	35.0	39.8	
Magnesium (Mg++)	mg/l	12	9.0	11.2	14.1	10.9	13.3	
Potassium (K+)	mg/l	12	1.2	1.8	2.4	2.0	2.2	
Sodium (Na+)	mg/l	12	10.1	15.0	18.4	15.8	18.1	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	14.0	19.8	32.2	18.2	22.7	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l	11 <	0.100	0.118	0.200	0.100	0.200	III
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0010	0.0016	0.0040	0.0010	0.0029	
Anionic active surfactants (PAL-A)	mg/l	12 <	0.010	0.013	0.026	0.010	0.022	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12 <	0.005	0.006	0.021	0.005	0.005	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	4	0.0020	0.0020	0.0020	0.0020		I
pp-DDT	µg/l	4	0.0020	0.0020	0.0020	0.0020		II
Atrazine	µg/l	4 <	0.009 <	0.009 :	0.009	0.009		I
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: Danube	Catchment: 574307 km2	2004
Distance from the mouth 954	Altitude: 0 m	SCG07
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	11	2.8	14.2	24.6	14.5	23.4	
Suspended solids	mg/l	12	1.0	7.9	27.0	5.0	14.7	
Dissolved oxygen	mg/l	12	6.4	10.1	13.2	9.9	8.2	I
BOD (5)	mg/l	11	1.9	2.7	3.4	2.7	3.2	II
COD (Mn)	mg/l	12	2.3	3.6	4.6	3.8	4.4	I
COD (Cr)	mg/l	10	6.9	11.3	19.5	10.5		II
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.8	8.0	8.3	8.0	8.3	II
							7.8	II
Alkalinity - total	mmol/l	12	2.4	2.8	3.6	2.6	3.3	
Ammonium (NH4-N)	mg/l	11 <	0.010	0.045	0.160	0.030	0.140	I
Nitrite (NO2-N)	mg/l	12 <	0.003	0.009	0.034	0.004	0.026	II
Nitrate (NO3-N)	mg/l	12	0.650	1.374	2.780	1.170	2.363	II
Total nitrogen	mg/l	10	1.34	2.19	3.64	1.96		II
Organic nitrogen	mg/l	11	0.11	0.84	1.52	0.89	1.18	
Orthophosphate (PO4-P)	mg/l	12	0.016	0.028	0.063	0.022	0.045	I
Total phosphorus	mg/l	12	0.026	0.047	0.093	0.043	0.077	I
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	12	348	386	430	384	425	
Calcium (Ca++)	mg/l	12	29.4	50.9	65.1	51.6	60.7	
Sulphate (SO4--)	mg/l	12	20.0	25.9	30.0	26.0	30.0	
Magnesium (Mg++)	mg/l	12	10.0	13.7	22.0	13.1	16.6	
Potassium (K+)	mg/l	12	1.2	1.8	2.3	1.7	2.2	
Sodium (Na+)	mg/l	12	10.1	12.3	14.5	12.0	14.4	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	11.9	17.2	20.8	16.7	20.6	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l	12 <	0.100	0.108	0.200	0.100	0.100	II
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0010	0.0011	0.0020	0.0010	0.0010	
Anionic active surfactants (PAL-A)	mg/l	12 <	0.010 <	0.010 :	0.010	0.010	0.010	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	11 <	0.005	0.005	0.006	0.005	0.005	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	2	0.0020	0.0020	0.0020			I
pp-DDT	µg/l	2	0.0020	0.0020	0.0020			II
Atrazine	µg/l	2 <	0.009 <	0.009 :	0.009			I
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: Danube	Catchment: 577085 km2	2004
Distance from the mouth 851	Altitude: 32 m	SCG08
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	11	2.9	14.1	24.3	14.0	21.9	
Suspended solids	mg/l	11	2.0	6.5	24.0	3.0	10.0	
Dissolved oxygen	mg/l	11	7.5	10.4	14.4	10.9	7.8	I
BOD (5)	mg/l	9	2.3	2.9	4.1	2.8		II
COD (Mn)	mg/l	10	3.3	4.2	5.6	4.2		II
COD (Cr)	mg/l	8	7.9	10.7	13.0	10.6		II
TOC	mg/l							
DOC	mg/l							
pH	-	11	7.6	7.9	8.4	7.9	8.1	II
							7.8	II
Alkalinity - total	mmol/l	11	2.2	2.6	3.5	2.6	3.0	
Ammonium (NH4-N)	mg/l	11 <	0.010	0.072	0.450	0.010	0.110	I
Nitrite (NO2-N)	mg/l	11 <	0.003	0.016	0.092	0.003	0.033	II
Nitrate (NO3-N)	mg/l	11	0.850	1.348	2.690	1.160	2.270	II
Total nitrogen	mg/l	10	0.92	2.03	3.46	2.04		II
Organic nitrogen	mg/l	10 <	0.10	0.75	1.18	0.99		
Orthophosphate (PO4-P)	mg/l	11	0.005	0.031	0.064	0.027	0.060	II
Total phosphorus	mg/l	11	0.006	0.054	0.092	0.052	0.073	I
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	11	350	386	420	383	414	
Calcium (Ca++)	mg/l	9	22.1	48.2	60.7	50.3		
Sulphate (SO4--)	mg/l	10	19.0	27.2	35.0	26.5		
Magnesium (Mg++)	mg/l	9	10.0	14.1	26.4	12.1		
Potassium (K+)	mg/l	10	1.4	1.8	2.1	1.8		
Sodium (Na+)	mg/l	10	9.8	11.9	14.6	11.6		
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	11	11.6	16.7	20.9	15.9	19.4	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l	10 <	0.100 <	0.100 :	0.100	0.100		II
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	11	0.0010	0.0010	0.0010	0.0010	0.0010	
Anionic active surfactants (PAL-A)	mg/l	11 <	0.010 <	0.010 :	0.010	0.010	0.010	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	10 <	0.005 <	0.005 :	0.005	0.005		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	5	0.0020	0.0020	0.0020	0.0020		I
pp-DDT	µg/l	5	0.0020	0.0020	0.0020	0.0020		II
Atrazine	µg/l	5 <	0.009 <	0.009 :	0.009	0.009		I
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: Danube	Catchment: 253737 km2	2004
Distance from the mouth 1287	Altitude: 0 m	SCG09
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	11	1.4	13.4	22.4	14.8	21.2	
Suspended solids	mg/l	11	5.0	28.8	50.0	32.0	46.0	
Dissolved oxygen	mg/l	11	8.3	10.4	12.6	10.7	8.3	I
BOD (5)	mg/l	11	1.2	3.1	5.0	3.3	3.9	II
COD (Mn)	mg/l	10	3.4	5.4	7.2	5.5		II
COD (Cr)	mg/l							
TOC	mg/l							
DOC	mg/l							
pH	-	10	7.7	8.2	8.8	8.2		III
Alkalinity - total	mmol/l	11	2.2	2.6	3.0	2.5	2.8	II
Ammonium (NH4-N)	mg/l	11	0.080	0.221	0.480	0.170	0.410	III
Nitrite (NO2-N)	mg/l	11	0.009	0.020	0.037	0.020	0.032	II
Nitrate (NO3-N)	mg/l	11	0.920	1.877	4.030	1.690	2.880	II
Total nitrogen	mg/l	3	1.94	2.55	3.28			II
Organic nitrogen	mg/l	3	0.47	0.89	1.70			
Orthophosphate (PO4-P)	mg/l	11	0.012	0.059	0.117	0.060	0.098	II
Total phosphorus	mg/l	11	0.105	0.153	0.233	0.131	0.221	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	10	325	416	507	397		
Calcium (Ca++)	mg/l	11	38.9	53.7	62.5	55.5	60.0	
Sulphate (SO4--)	mg/l	11	24.0	36.4	46.0	38.0	42.0	
Magnesium (Mg++)	mg/l	11	5.7	13.0	16.3	13.7	16.3	
Potassium (K+)	mg/l	11	1.4	2.2	3.2	2.2	2.5	
Sodium (Na+)	mg/l	11	9.0	15.6	19.9	15.9	19.2	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	11	16.6	22.0	28.7	21.3	27.6	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l	11 <	0.100	0.109	0.200	0.100	0.100	II
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	11	0.0010	0.0018	0.0040	0.0010	0.0030	
Anionic active surfactants (PAL-A)	mg/l	11 <	0.010	0.018	0.041	0.014	0.034	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	4 <	0.005	0.008	0.015	0.005		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	2	0.0020	0.0020	0.0020			I
pp-DDT	µg/l	2	0.0020	0.0020	0.0020			II
Atrazine	µg/l	2 <	0.009 <	0.009 :	0.009			I
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: /Tisa

Catchment: 140130 km2

2004

Distance from the mouth 152

Altitude: 76 m

SCG10

Location: Right

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	23	270.0	881.8	2560.0	717.0	1418.0	
Temperature	°C	23	0.7	13.7	27.6	13.8	23.7	
Suspended solids	mg/l	23	5.0	70.8	224.0	46.0	143.4	
Dissolved oxygen	mg/l	23	5.4	9.2	12.8	8.8	6.9	II
BOD (5)	mg/l	22	1.0	2.2	4.8	2.1	3.2	II
COD (Mn)	mg/l	23	3.7	5.2	7.7	4.8	7.2	II
COD (Cr)	mg/l	12	12.0	16.6	29.0	15.5	20.7	II
TOC	mg/l							
DOC	mg/l							
pH	-	20	7.5	7.7	8.1	7.7	8.0	II
							7.5	II
Alkalinity - total	mmol/l	23	1.5	2.0	2.4	2.0	2.3	
Ammonium (NH4-N)	mg/l	23 <	0.010	0.208	0.400	0.200	0.325	III
Nitrite (NO2-N)	mg/l	23	0.011	0.020	0.058	0.018	0.028	II
Nitrate (NO3-N)	mg/l	23	0.720	1.271	2.360	1.150	1.858	II
Total nitrogen	mg/l	9	1.21	1.87	2.86	1.73		II
Organic nitrogen	mg/l	9	0.14	0.29	0.54	0.26		
Orthophosphate (PO4-P)	mg/l	23	0.020	0.048	0.086	0.050	0.076	II
Total phosphorus	mg/l	12	0.092	0.145	0.209	0.139	0.189	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	23	291	404	508	405	489	
Calcium (Ca++)	mg/l	12	29.1	45.3	54.6	48.3	52.7	
Sulphate (SO4--)	mg/l	12	31.0	43.9	58.0	42.7	51.9	
Magnesium (Mg++)	mg/l	12	7.3	10.1	21.5	9.0	11.3	
Potassium (K+)	mg/l	12	1.4	3.2	4.4	3.4	4.1	
Sodium (Na+)	mg/l	12	17.0	27.7	38.7	29.5	35.1	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	16.0	37.2	56.2	37.7	52.2	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	6	5.00	9.83	18.00	8.00		III
Copper (Cu), dissolved	µg/l	6	3.00	4.83	7.00	4.50		III
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l	6 <	1.00 <	1.00 <	1.00 <	1.00		II
Cadmium (Cd), dissolved	µg/l	6 <	0.10	0.15	0.30	0.10		III
Mercury (Hg), dissolved	µg/l	20 <	0.100 <	0.100 :	0.100	0.100	0.100	II
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	23	0.0010	0.0022	0.0050	0.0010	0.0040	
Anionic active surfactants (PAL-A)	mg/l	12 <	0.010	0.020	0.041	0.020	0.022	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	10 <	0.005	0.017	0.040	0.012		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	2	0.0020	0.0020	0.0020			I
pp-DDT	µg/l	2	0.0020	0.0020	0.0020			II
Atrazine	µg/l	2 <	0.009 <	0.009 :	0.009			I
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: /Tisa

Catchment: 145415 km2

2004

Distance from the mouth 66

Altitude: 74 m

SCG11

Location: Left

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	12	1.8	13.3	26.6	13.4	24.1	
Suspended solids	mg/l	12	5.0	52.0	136.0	41.5	117.1	
Dissolved oxygen	mg/l	12	5.7	8.9	12.4	8.1	6.2	II
BOD (5)	mg/l	12	1.0	2.2	4.2	2.0	2.9	I
COD (Mn)	mg/l	12	3.4	5.2	6.5	5.4	6.2	II
COD (Cr)	mg/l	1	20.0	20.0	20.0			II
TOC	mg/l							
DOC	mg/l							
pH	-	10	7.4	7.7	8.0	7.8		II
Alkalinity - total	mmol/l	12	1.5	1.9	2.3	2.0	2.2	II
Ammonium (NH4-N)	mg/l	12	0.050	0.287	0.530	0.275	0.477	III
Nitrite (NO2-N)	mg/l	12	0.005	0.022	0.036	0.024	0.031	II
Nitrate (NO3-N)	mg/l	12	0.820	1.255	2.070	1.210	1.605	II
Total nitrogen	mg/l	2	1.45	1.81	2.17			II
Organic nitrogen	mg/l	2	0.21	0.36	0.50			
Orthophosphate (PO4-P)	mg/l	12	0.010	0.065	0.102	0.063	0.101	III
Total phosphorus	mg/l	12	0.085	0.159	0.262	0.150	0.228	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	12	294	408	506	416	456	
Calcium (Ca++)	mg/l	12	30.0	44.3	51.2	47.1	50.0	
Sulphate (SO4--)	mg/l	12	32.0	45.9	55.0	46.5	53.0	
Magnesium (Mg++)	mg/l	12	6.6	10.0	21.9	9.1	12.4	
Potassium (K+)	mg/l	12	1.6	3.0	4.0	3.2	3.9	
Sodium (Na+)	mg/l	12	18.6	27.5	39.5	26.9	32.5	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	15.4	35.0	57.0	36.9	45.2	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l	9 <	0.100	0.133	0.200	0.100		III
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0010	0.0037	0.0100	0.0030	0.0060	
Anionic active surfactants (PAL-A)	mg/l	12 <	0.010	0.016	0.038	0.010	0.025	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	2 <	0.005	0.013	0.020			
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	2	0.0020	0.0020	0.0020			I
pp-DDT	µg/l	2	0.0020	0.0020	0.0020			II
Atrazine	µg/l	2 <	0.009 <	0.009 :	0.009			I
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: /Tisa	Catchment: 157147 km2	2004
Distance from the mouth 9	Altitude: 73 m	SCG12
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	22	1.2	14.5	26.2	14.2	23.8	
Suspended solids	mg/l	22	4.0	42.8	136.0	24.5	107.9	
Dissolved oxygen	mg/l	22	4.7	8.3	12.0	8.4	5.8	III
BOD (5)	mg/l	22	1.0	1.8	4.0	1.7	2.7	I
COD (Mn)	mg/l	22	3.3	4.9	7.6	4.6	6.7	II
COD (Cr)	mg/l							
TOC	mg/l							
DOC	mg/l							
pH	-	21	7.5	7.7	7.9	7.6	7.8	II
							7.5	II
Alkalinity - total	mmol/l	22	1.3	2.0	2.5	2.0	2.2	
Ammonium (NH4-N)	mg/l	21	0.020	0.258	0.510	0.240	0.420	III
Nitrite (NO2-N)	mg/l	22	0.014	0.027	0.059	0.026	0.036	II
Nitrate (NO3-N)	mg/l	22	0.500	1.314	2.670	1.190	2.044	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	22	0.024	0.069	0.125	0.067	0.103	III
Total phosphorus	mg/l	11	0.110	0.170	0.289	0.152	0.273	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	22	278	407	531	416	480	
Calcium (Ca++)	mg/l	11	37.8	45.5	51.6	45.5	49.4	
Sulphate (SO4--)	mg/l	11	38.0	44.6	52.0	43.0	51.0	
Magnesium (Mg++)	mg/l	11	7.4	9.6	12.9	9.3	12.0	
Potassium (K+)	mg/l	11	2.0	3.1	3.9	3.0	3.8	
Sodium (Na+)	mg/l	11	17.9	28.1	34.0	28.1	33.3	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	11	21.0	38.0	56.4	35.3	46.1	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	1	95.00	95.00	95.00			II
Copper (Cu), dissolved	µg/l	1	11.00	11.00	11.00			II
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l	1	4.00	4.00	4.00			II
Cadmium (Cd), dissolved	µg/l	1 <	0.10	< 0.10	< 0.10			II
Mercury (Hg), dissolved	µg/l	18 <	0.100	0.100	0.100	0.100	0.100	II
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	20	0.0010	0.0020	0.0060	0.0010	0.0042	
Anionic active surfactants (PAL-A)	mg/l							
AOX	µg/l							
Petroleum hydrocarbons	mg/l	3 <	0.005	0.006	0.009			
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	1	0.0020	0.0020	0.0020			I
pp-DDT	µg/l	1	0.0020	0.0020	0.0020			II
Atrazine	µg/l	1 <	0.009	< 0.009	: 0.009			I
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: /Sava	Catchment: 64073 km2	2004
Distance from the mouth 195	Altitude: 78 m	SCG13
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	24	3.4	13.3	24.4	14.0	22.9	
Suspended solids	mg/l	23	1.0	13.8	62.0	9.0	29.6	
Dissolved oxygen	mg/l	24	6.0	9.3	12.4	9.2	6.6	II
BOD (5)	mg/l	22	0.5	1.4	2.8	1.2	2.2	I
COD (Mn)	mg/l	24	2.1	3.1	5.7	2.9	4.2	I
COD (Cr)	mg/l	12	5.4	8.1	14.2	7.6	9.8	I
TOC	mg/l							
DOC	mg/l							
pH	-	16	7.7	7.9	8.2	7.8	8.1	II
							7.7	II
Alkalinity - total	mmol/l	24	2.6	3.1	3.5	3.1	3.4	
Ammonium (NH4-N)	mg/l	24 <	0.010	0.028	0.130	0.010	0.070	I
Nitrite (NO2-N)	mg/l	24 <	0.003	0.003	0.006	0.003	0.004	I
Nitrate (NO3-N)	mg/l	24	0.610	1.064	2.180	0.850	1.844	II
Total nitrogen	mg/l	24	0.76	1.78	3.02	1.78	2.77	II
Organic nitrogen	mg/l	24 <	0.10	0.68	1.37	0.75	1.20	
Orthophosphate (PO4-P)	mg/l	23	0.010	0.030	0.050	0.031	0.046	I
Total phosphorus	mg/l	11	0.014	0.050	0.114	0.037	0.071	I
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	24	313	391	485	396	461	
Calcium (Ca++)	mg/l	11	26.0	53.7	63.6	56.6	62.0	
Sulphate (SO4--)	mg/l	10	16.0	23.1	30.0	23.0		
Magnesium (Mg++)	mg/l	11	6.5	16.0	39.9	14.0	19.5	
Potassium (K+)	mg/l	12	0.6	1.2	2.6	1.0	1.9	
Sodium (Na+)	mg/l	12	4.6	8.7	14.0	8.2	11.4	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	5.4	12.6	20.8	11.3	20.2	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l	14 <	0.100 <	0.100 :	0.100	0.100	0.100	II
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	24	0.0010	0.0010	0.0020	0.0010	0.0010	
Anionic active surfactants (PAL-A)	mg/l	12 <	0.010 <	0.010 :	0.010	0.010	0.010	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12 <	0.005	0.005	0.009	0.005	0.005	
PAHs (Borneff 6)	µg/l	1 <	0.100 <	0.100 :	0.100			
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	1	0.0020	0.0020	0.0020			I
pp-DDT	µg/l	1	0.0020	0.0020	0.0020			II
Atrazine	µg/l	1 <	0.009 <	0.009 :	0.009			I
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: /Sava

Catchment: 87996 km2

2004

Distance from the mouth 136

Altitude: 75 m

SCG14

Location: Left

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	23	373.0	1772.4	4650.0	1510.0	3146.0	
Temperature	°C	23	3.2	13.0	24.8	12.3	22.8	
Suspended solids	mg/l	23	2.0	14.7	39.0	11.0	26.8	
Dissolved oxygen	mg/l	23	7.4	9.9	12.2	9.6	8.0	I
BOD (5)	mg/l	21	0.7	1.2	2.4	1.3	1.7	I
COD (Mn)	mg/l	23	1.9	2.5	4.3	2.3	3.1	I
COD (Cr)	mg/l	12	4.0	8.0	13.5	7.7	12.9	II
TOC	mg/l							
DOC	mg/l							
pH	-	23	7.7	7.9	8.2	7.9	8.0	II
							7.8	II
Alkalinity - total	mmol/l	23	2.5	2.9	3.2	2.9	3.1	
Ammonium (NH4-N)	mg/l	23 <	0.010	0.025	0.160	0.010	0.056	I
Nitrite (NO2-N)	mg/l	23 <	0.003	0.005	0.040	0.003	0.004	I
Nitrate (NO3-N)	mg/l	23	0.260	0.952	1.770	0.870	1.672	II
Total nitrogen	mg/l	22	0.82	1.82	2.80	1.73	2.68	II
Organic nitrogen	mg/l	23	0.23	0.82	2.07	0.78	1.44	
Orthophosphate (PO4-P)	mg/l	23	0.006	0.028	0.050	0.025	0.041	I
Total phosphorus	mg/l	12	0.018	0.052	0.094	0.051	0.080	I
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	23	330	372	440	360	426	
Calcium (Ca++)	mg/l	11	30.1	52.3	72.3	54.9	63.4	
Sulphate (SO4--)	mg/l	10	15.0	21.3	28.0	20.5		
Magnesium (Mg++)	mg/l	11	8.3	14.4	30.6	12.2	23.2	
Potassium (K+)	mg/l	12	0.4	0.9	1.7	0.8	1.3	
Sodium (Na+)	mg/l	12	4.1	7.3	13.7	6.7	10.6	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	5.1	9.9	17.7	9.2	13.8	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l	23 <	0.100 <	0.100 :	0.100	0.100	0.100	II
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	23	0.0010	0.0010	0.0020	0.0010	0.0010	
Anionic active surfactants (PAL-A)	mg/l	12 <	0.010 <	0.010 :	0.010	0.010	0.010	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	1 <	0.005 <	0.005 :	0.005			
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	1	0.0020	0.0020	0.0020			I
pp-DDT	µg/l	1	0.0020	0.0020	0.0020			II
Atrazine	µg/l	1 <	0.009 <	0.009 :	0.009			I
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: /Sava	Catchment: 89490 km2	2004
Distance from the mouth 103	Altitude: 74 m	SCG15
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	24	2.8	13.3	25.7	13.6	22.7	
Suspended solids	mg/l	24	1.0	13.0	67.0	6.0	40.1	
Dissolved oxygen	mg/l	24	6.8	9.7	13.2	9.4	7.5	I
BOD (5)	mg/l	22	0.6	1.4	2.5	1.3	2.3	I
COD (Mn)	mg/l	24	1.6	2.5	3.6	2.6	3.3	I
COD (Cr)	mg/l	12	4.9	7.8	12.8	7.2	10.2	II
TOC	mg/l							
DOC	mg/l							
pH	-	22	7.5	7.9	8.3	8.0	8.1	II
							7.8	II
Alkalinity - total	mmol/l	24	2.4	2.9	3.2	2.9	3.2	
Ammonium (NH4-N)	mg/l	24 <	0.010	0.017	0.100	0.010	0.027	I
Nitrite (NO2-N)	mg/l	24 <	0.003	0.003	0.006	0.003	0.003	I
Nitrate (NO3-N)	mg/l	24	0.570	0.956	1.810	0.775	1.581	II
Total nitrogen	mg/l	24	0.63	1.74	2.85	1.79	2.42	II
Organic nitrogen	mg/l	24 <	0.10	0.77	1.53	0.80	1.20	
Orthophosphate (PO4-P)	mg/l	23	0.006	0.030	0.056	0.027	0.050	I
Total phosphorus	mg/l	11	0.017	0.048	0.081	0.047	0.072	I
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	23	329	387	460	378	443	
Calcium (Ca++)	mg/l	11	27.3	54.6	65.2	57.7	64.4	
Sulphate (SO4--)	mg/l	10	16.0	20.7	25.0	21.0		
Magnesium (Mg++)	mg/l	11	7.5	13.9	33.5	11.6	16.3	
Potassium (K+)	mg/l	12	0.3	0.9	1.4	0.9	1.3	
Sodium (Na+)	mg/l	12	4.3	7.5	14.7	6.6	10.9	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	5.1	10.6	19.7	9.2	14.6	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l	21 <	0.100 <	0.100 :	0.100	0.100	0.100	II
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	24	0.0010	0.0010	0.0020	0.0010	0.0010	
Anionic active surfactants (PAL-A)	mg/l	12 <	0.010 <	0.010 :	0.010	0.010	0.010	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12 <	0.005	0.006	0.018	0.005	0.005	
PAHs (Borneff 6)	µg/l	1 <	0.100 <	0.100 :	0.100			
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	2	0.0020	0.0020	0.0020			I
pp-DDT	µg/l	2	0.0020	0.0020	0.0020			II
Atrazine	µg/l	2 <	0.009 <	0.009 :	0.009			I
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: /Sava	Catchment: 37320 km2	2004
Distance from the mouth 17	Altitude: 0 m	SCG16
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	24	2.2	13.8	26.0	14.2	25.1	
Suspended solids	mg/l	24	1.0	13.9	53.0	10.5	27.0	
Dissolved oxygen	mg/l	24	6.6	10.5	13.5	10.8	7.9	I
BOD (5)	mg/l	23	1.1	2.4	4.7	2.5	3.3	II
COD (Mn)	mg/l	24	2.2	3.4	7.5	3.2	4.4	I
COD (Cr)	mg/l	18	4.0	8.2	13.5	7.7	12.0	II
TOC	mg/l							
DOC	mg/l							
pH	-	22	7.0	8.0	8.4	8.0	8.3	II
							7.8	II
Alkalinity - total	mmol/l	24	2.4	3.0	3.6	2.9	3.4	
Ammonium (NH4-N)	mg/l	24 <	0.010	0.071	0.250	0.060	0.147	I
Nitrite (NO2-N)	mg/l	21 <	0.003	0.028	0.058	0.028	0.049	II
Nitrate (NO3-N)	mg/l	24	0.560	1.129	1.800	1.080	1.621	II
Total nitrogen	mg/l	19	0.68	2.29	4.14	2.20	3.45	II
Organic nitrogen	mg/l	20 <	0.10	1.03	3.06	0.90	2.32	
Orthophosphate (PO4-P)	mg/l	24	0.010	0.057	0.127	0.046	0.098	II
Total phosphorus	mg/l	23	0.032	0.092	0.242	0.089	0.131	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	24	300	404	553	398	475	
Calcium (Ca++)	mg/l	14	19.7	58.3	78.4	58.6	68.4	
Sulphate (SO4--)	mg/l	23	14.0	20.8	37.0	21.0	24.0	
Magnesium (Mg++)	mg/l	14	7.4	12.9	31.4	12.0	15.2	
Potassium (K+)	mg/l	12	0.5	1.0	1.8	1.0	1.5	
Sodium (Na+)	mg/l	12	5.5	8.0	12.5	7.8	11.8	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	23	2.9	9.8	19.7	9.5	13.3	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l	24 <	0.100	0.138	1.000	0.100	0.100	II
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	24	0.0010	0.0010	0.0010	0.0010	0.0010	
Anionic active surfactants (PAL-A)	mg/l	11 <	0.010	0.010	0.011	0.010	0.010	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12 <	0.005 <	0.005 :	0.005	0.005	0.005	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	9	0.0020	0.0020	0.0020	0.0020		I
pp-DDT	µg/l	9	0.0020	0.0020	0.0020	0.0020		II
Atrazine	µg/l	9 <	0.009 <	0.009 :	0.009	0.009		I
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: /Velika Morava

Catchment: 37320 km2

2004

Distance from the mouth 35

Altitude: 75 m

SCG17

Location: Right

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	24	66.3	254.2	1050.0	243.5	381.4	
Temperature	°C	24	1.0	12.9	24.0	13.5	22.1	
Suspended solids	mg/l	23	1.0	14.9	70.0	5.0	46.0	
Dissolved oxygen	mg/l	24	8.5	11.6	14.8	11.6	9.6	I
BOD (5)	mg/l	14	2.1	3.2	4.1	3.1	4.0	II
COD (Mn)	mg/l	23	3.0	4.7	10.4	4.4	5.6	II
COD (Cr)	mg/l	4	7.0	10.8	13.8	11.1		II
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.2	7.5	8.5	7.3	8.4	II
							7.2	II
Alkalinity - total	mmol/l	24	1.6	4.0	27.5	3.1	3.4	
Ammonium (NH4-N)	mg/l	23 <	0.010	0.038	0.190	0.020	0.098	I
Nitrite (NO2-N)	mg/l	23 <	0.003	0.003	0.003	0.003	0.003	I
Nitrate (NO3-N)	mg/l	23	0.730	1.582	2.730	1.450	2.478	II
Total nitrogen	mg/l	16	1.47	2.69	4.69	2.63	3.96	II
Organic nitrogen	mg/l	16 <	0.10	1.13	2.18	1.05	1.97	
Orthophosphate (PO4-P)	mg/l	23	0.021	0.077	0.124	0.077	0.116	III
Total phosphorus	mg/l	4	0.030	0.098	0.167	0.097		II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	22	266	429	534	435	489	
Calcium (Ca++)	mg/l	4	51.0	55.7	57.7	57.0		
Sulphate (SO4--)	mg/l	4	19.0	23.8	30.0	23.0		
Magnesium (Mg++)	mg/l	4	13.1	15.9	19.2	15.6		
Potassium (K+)	mg/l	4	1.4	2.0	2.6	2.1		
Sodium (Na+)	mg/l	4	8.7	10.6	12.4	10.6		
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	4	7.5	10.3	12.9	10.3		
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l	12 <	0.100	0.117	0.200	0.100	0.190	III
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	16	0.0010	0.0010	0.0010	0.0010	0.0010	
Anionic active surfactants (PAL-A)	mg/l	4 <	0.010 <	0.010 :	0.010	0.010		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12 <	0.005	0.009	0.052	0.005	0.005	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	1	0.0020	0.0020	0.0020			I
pp-DDT	µg/l	1	0.0020	0.0020	0.0020			II
Atrazine	µg/l	1 <	0.009 <	0.009 :	0.009			I
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: Danube	Catchment: 570896 km2	2004
Distance from the mouth 1071	Altitude: 70 m	RO01
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	2300.0	5468.9	10800.0	5100.0	8500.0	
Temperature	°C	24	0.5	13.8	24.5	13.9	23.0	
Suspended solids	mg/l	24	23.0	31.7	39.0	31.5	38.0	
Dissolved oxygen	mg/l	24	4.9	8.5	11.8	8.4	6.2	II
BOD (5)	mg/l	20	1.0	2.1	3.6	1.9	3.3	II
COD (Mn)	mg/l	20	2.2	4.5	6.7	4.7	6.1	II
COD (Cr)	mg/l	20	6.1	8.9	11.3	8.9	11.1	II
TOC	mg/l							
DOC	mg/l							
pH	-	24	7.3	7.7	8.0	7.7	7.8	II
							7.4	II
Alkalinity - total	mmol/l	24	2.5	2.8	3.3	2.8	3.1	
Ammonium (NH4-N)	mg/l	24	0.101	0.313	0.575	0.299	0.499	III
Nitrite (NO2-N)	mg/l	24	0.012	0.060	0.813	0.028	0.041	II
Nitrate (NO3-N)	mg/l	24	0.100	0.837	1.600	0.825	1.342	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	24	0.027	0.107	0.280	0.092	0.187	III
Total phosphorus	mg/l	24	0.030	0.125	0.300	0.103	0.211	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	24	331	400	701	389	422	
Calcium (Ca++)	mg/l	24	41.7	50.0	59.3	49.4	56.9	
Sulphate (SO4--)	mg/l	24	18.8	38.1	62.5	36.7	55.7	
Magnesium (Mg++)	mg/l	24	7.7	11.1	16.4	10.7	13.3	
Potassium (K+)	mg/l	24	1.0	2.4	3.0	2.0	3.0	
Sodium (Na+)	mg/l	24	10.0	15.3	20.0	16.0	18.7	
Manganese (Mn)	mg/l	23	0.0200	0.0484	0.1040	0.0410	0.0882	
Iron (Fe)	mg/l	23	0.060	0.213	0.482	0.200	0.400	
Chloride (Cl-)	mg/l	24	12.3	20.0	29.1	19.3	25.1	
Silicates (SiO2)	mg/l	24	1.59	7.61	16.40	7.96	11.45	
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	23	10.00	16.96	61.00	10.00	38.40	II
Copper (Cu)	µg/l	23	0.68	6.74	20.16	4.79	13.18	II
Chromium (Cr) - total	µg/l	23	0.05	1.87	15.60	0.86	3.34	II
Lead (Pb)	µg/l	23	1.71	8.01	24.60	5.71	18.38	IV
Cadmium (Cd)	µg/l	19	0.05	2.88	29.60	0.41	4.55	IV
Mercury (Hg)	µg/l	22	0.025	0.045	0.115	0.039	0.080	II
Nickel (Ni)	µg/l	23	0.11	2.17	9.86	1.72	4.16	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	23	0.0050	0.0050	0.0050	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	23	0.025	0.051	0.110	0.045	0.073	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	4	0.010	2.737	4.470	3.235		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	19	0.0060	0.0521	0.1800	0.0360	0.1136	III
pp-DDT	µg/l	18	0.0100	0.0646	0.2480	0.0360	0.1304	V
Atrazine	µg/l	20	0.060	0.177	0.405	0.142	0.334	IV
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	19	0.049	0.487	1.700	0.240	1.360	
Faecal coliforms (44 C)	1000CFU/100m	19	0.002	0.059	0.330	0.046	0.110	
Faecal streptococci	1000CFU/100m	19	0.000	0.013	0.079	0.005	0.048	
Salmonella	No/1l							

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

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

River: Danube	Catchment: 570896 km2	2004
Distance from the mouth 1071	Altitude: 70 m	RO01
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	2300.0	5468.9	10800.0	5100.0	8500.0	
Temperature	°C	23	0.5	13.2	25.0	13.6	22.5	
Suspended solids	mg/l	23	19.0	29.6	42.0	29.0	36.0	
Dissolved oxygen	mg/l	23	4.6	8.5	11.8	8.9	6.4	II
BOD (5)	mg/l	19	1.1	1.9	3.5	1.8	2.9	I
COD (Mn)	mg/l	19	1.7	4.1	5.9	4.2	5.5	II
COD (Cr)	mg/l	19	5.8	8.1	10.3	8.1	10.1	II
TOC	mg/l							
DOC	mg/l							
pH	-	23	7.3	7.6	7.9	7.7	7.9	II
							7.4	II
Alkalinity - total	mmol/l	23	2.5	2.8	3.4	2.8	3.1	
Ammonium (NH4-N)	mg/l	23	0.023	0.262	0.520	0.240	0.413	III
Nitrite (NO2-N)	mg/l	23	0.009	0.048	0.519	0.025	0.042	II
Nitrate (NO3-N)	mg/l	23	0.100	0.807	1.850	0.768	1.227	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	23	0.019	0.101	0.250	0.095	0.156	III
Total phosphorus	mg/l	23	0.020	0.118	0.270	0.100	0.188	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	23	328	387	436	388	418	
Calcium (Ca++)	mg/l	23	43.2	49.8	60.3	49.2	57.5	
Sulphate (SO4--)	mg/l	23	21.7	34.6	46.9	35.3	43.7	
Magnesium (Mg++)	mg/l	23	6.7	11.2	15.5	11.6	13.3	
Potassium (K+)	mg/l	23	1.0	2.3	3.0	2.0	3.0	
Sodium (Na+)	mg/l	23	10.0	14.8	19.0	15.0	17.0	
Manganese (Mn)	mg/l	23	0.0200	0.0595	0.1670	0.0530	0.0994	
Iron (Fe)	mg/l	23	0.060	0.309	0.934	0.283	0.570	
Chloride (Cl-)	mg/l	23	12.2	19.8	25.9	19.5	24.1	
Silicates (SiO2)	mg/l	23	0.67	7.81	16.00	7.68	11.51	
Zinc (Zn), dissolved	µg/l	19	10.00	10.63	17.00	10.00	11.00	III
Copper (Cu), dissolved	µg/l	19	0.08	3.48	10.20	2.31	6.22	III
Chromium (Cr), total dissolved	µg/l	19	0.05	0.63	3.98	0.48	1.04	II
Lead (Pb), dissolved	µg/l	19	0.05	3.62	13.96	2.73	6.36	III
Cadmium (Cd), dissolved	µg/l	19	0.05	1.11	12.37	0.27	1.70	III
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l	19	0.23	1.22	3.14	1.03	2.05	III
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	23	10.00	21.65	100.00	13.00	38.80	II
Copper (Cu)	µg/l	23	2.33	7.39	22.17	4.97	13.62	II
Chromium (Cr) - total	µg/l	23	0.10	1.60	7.71	1.14	2.82	II
Lead (Pb)	µg/l	23	1.69	8.12	26.71	7.18	12.99	IV
Cadmium (Cd)	µg/l	19	0.05	3.21	36.59	0.68	4.30	IV
Mercury (Hg)	µg/l	22	0.025	0.039	0.107	0.025	0.093	II
Nickel (Ni)	µg/l	23	0.42	2.73	9.67	1.99	5.41	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	22	0.0050	0.0050	0.0050	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	22	0.025	0.045	0.090	0.041	0.061	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	18	0.0050	0.0422	0.1060	0.0375	0.0783	II
pp-DDT	µg/l	16	0.0100	0.0441	0.1210	0.0355	0.0830	V
Atrazine	µg/l	19	0.060	0.170	0.542	0.114	0.292	IV
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	18	0.046	0.446	3.500	0.197	0.673	
Faecal coliforms (44 C)	1000CFU/100m	18	0.002	0.069	0.700	0.023	0.096	
Faecal streptococci	1000CFU/100m	18	0.000	0.008	0.078	0.003	0.015	
Salmonella	No/1l							

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

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

River: Danube	Catchment: 570896 km2	2004
Distance from the mouth 1071	Altitude: 70 m	RO01
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	2300.0	5468.9	10800.0	5100.0	8500.0	
Temperature	°C	23	0.5	13.4	25.0	14.0	23.0	
Suspended solids	mg/l	23	24.0	30.8	44.0	31.0	36.8	
Dissolved oxygen	mg/l	23	4.6	8.4	11.6	8.7	6.5	II
BOD (5)	mg/l	19	1.1	1.8	3.4	1.7	2.8	I
COD (Mn)	mg/l	19	1.9	4.4	6.2	4.4	5.7	II
COD (Cr)	mg/l	19	6.6	8.9	10.8	9.1	10.3	II
TOC	mg/l							
DOC	mg/l							
pH	-	23	7.3	7.7	8.0	7.7	7.9	II
							7.4	II
Alkalinity - total	mmol/l	22	2.5	2.8	3.3	2.8	3.1	
Ammonium (NH4-N)	mg/l	23	0.027	0.243	0.680	0.225	0.364	III
Nitrite (NO2-N)	mg/l	23	0.005	0.055	0.655	0.029	0.044	II
Nitrate (NO3-N)	mg/l	23	0.100	0.858	1.900	0.813	1.547	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	23	0.020	0.099	0.240	0.097	0.182	III
Total phosphorus	mg/l	23	0.022	0.122	0.270	0.110	0.240	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	23	328	385	433	388	412	
Calcium (Ca++)	mg/l	23	43.3	49.7	63.4	48.0	55.7	
Sulphate (SO4--)	mg/l	23	14.2	33.9	47.6	32.9	46.2	
Magnesium (Mg++)	mg/l	23	5.8	11.2	15.5	10.7	13.3	
Potassium (K+)	mg/l	23	1.0	2.3	3.0	2.0	3.0	
Sodium (Na+)	mg/l	23	11.0	15.1	19.0	16.0	18.0	
Manganese (Mn)	mg/l	23	0.0200	0.0426	0.1220	0.0370	0.0642	
Iron (Fe)	mg/l	23	0.060	0.231	0.818	0.160	0.410	
Chloride (Cl-)	mg/l	23	11.7	19.7	25.7	19.1	24.9	
Silicates (SiO2)	mg/l	23	1.30	7.53	15.60	8.51	10.13	
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	23	10.00	32.48	211.00	12.00	63.00	II
Copper (Cu)	µg/l	23	1.82	6.26	29.18	3.96	10.54	II
Chromium (Cr) - total	µg/l	23	0.14	2.81	19.11	0.87	8.68	II
Lead (Pb)	µg/l	23	0.82	10.70	106.30	5.75	19.18	IV
Cadmium (Cd)	µg/l	19	0.05	1.60	12.34	0.50	4.10	IV
Mercury (Hg)	µg/l	22	0.025	0.047	0.125	0.025	0.114	III
Nickel (Ni)	µg/l	23	0.33	1.71	4.21	1.20	3.46	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	22	0.0050	0.0050	0.0050	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	22	0.025	0.052	0.095	0.049	0.072	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	4	0.588	2.499	4.705	2.351		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	19	0.0050	0.0436	0.1640	0.0300	0.0846	II
pp-DDT	µg/l	18	0.0100	0.0546	0.1740	0.0335	0.1440	V
Atrazine	µg/l	18	0.060	0.151	0.320	0.127	0.285	IV
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	18	0.032	0.442	2.800	0.221	0.766	
Faecal coliforms (44 C)	1000CFU/100m	18	0.005	0.055	0.490	0.021	0.076	
Faecal streptococci	1000CFU/100m	18	0.000	0.007	0.046	0.004	0.012	
Salmonella	No/1l							

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

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

River: Danube	Catchment: 580100 km2	2004
Distance from the mouth 834	Altitude: 31 m	RO02
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	2040.0	5233.0	10737.0	4946.0	8250.0	
Temperature	°C	24	1.6	13.3	24.5	13.6	23.9	
Suspended solids	mg/l	24	23.0	29.9	38.0	29.5	36.0	
Dissolved oxygen	mg/l	24	5.2	8.5	12.6	8.3	6.6	II
BOD (5)	mg/l	20	0.7	1.8	3.3	1.7	2.6	I
COD (Mn)	mg/l	20	1.8	3.9	5.1	4.3	4.9	I
COD (Cr)	mg/l	20	5.0	8.0	10.2	8.6	9.8	I
TOC	mg/l							
DOC	mg/l							
pH	-	24	7.1	7.7	8.3	7.8	8.1	II
							7.3	II
Alkalinity - total	mmol/l	24	2.5	2.9	3.5	3.0	3.2	
Ammonium (NH4-N)	mg/l	24	0.020	0.172	0.620	0.163	0.296	II
Nitrite (NO2-N)	mg/l	24	0.009	0.023	0.045	0.021	0.033	II
Nitrate (NO3-N)	mg/l	24	0.120	0.920	1.649	0.960	1.261	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	24	0.021	0.086	0.180	0.090	0.131	III
Total phosphorus	mg/l	24	0.024	0.104	0.230	0.095	0.207	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	24	352	395	445	388	434	
Calcium (Ca++)	mg/l	24	43.2	52.3	60.9	52.4	58.4	
Sulphate (SO4--)	mg/l	24	17.2	37.0	77.0	32.8	54.1	
Magnesium (Mg++)	mg/l	24	6.8	11.8	15.5	11.6	15.2	
Potassium (K+)	mg/l	24	2.0	2.4	3.0	2.0	3.0	
Sodium (Na+)	mg/l	24	11.0	14.9	24.0	15.0	18.0	
Manganese (Mn)	mg/l	23	0.0200	0.0323	0.0890	0.0250	0.0480	
Iron (Fe)	mg/l	24	0.060	0.174	0.960	0.136	0.256	
Chloride (Cl-)	mg/l	24	15.3	20.1	25.0	19.8	24.7	
Silicates (SiO2)	mg/l	24	2.71	7.47	14.27	7.41	11.38	
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	23	10.00	18.30	83.00	10.00	35.80	II
Copper (Cu)	µg/l	23	2.33	4.91	20.24	4.48	6.90	II
Chromium (Cr) - total	µg/l	23	0.05	1.15	8.50	0.46	2.31	II
Lead (Pb)	µg/l	23	1.25	6.42	16.14	5.00	10.42	IV
Cadmium (Cd)	µg/l	20	0.05	1.52	13.04	0.33	2.82	IV
Mercury (Hg)	µg/l	22	0.025	0.063	0.300	0.025	0.104	III
Nickel (Ni)	µg/l	23	0.25	2.23	5.29	1.97	3.77	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	22	0.0050	0.0050	0.0050	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	22	0.028	0.057	0.120	0.052	0.083	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	4	0.010	0.963	2.350	0.747		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	21	0.0050	0.0382	0.1480	0.0170	0.0880	II
pp-DDT	µg/l	19	0.0100	0.0458	0.1220	0.0360	0.0910	V
Atrazine	µg/l	21	0.060	0.194	0.744	0.141	0.296	IV
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	19	0.032	0.497	2.800	0.240	1.096	
Faecal coliforms (44 C)	1000CFU/100m	19	0.005	0.057	0.490	0.017	0.124	
Faecal streptococci	1000CFU/100m	19	0.000	0.010	0.078	0.003	0.019	
Salmonella	No/1l							

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

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

River: Danube	Catchment: 580100 km2	2004
Distance from the mouth 834	Altitude: 31 m	RO02
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	2040.0	5233.0	10737.0	4946.0	8250.0	
Temperature	°C	23	2.0	13.8	24.5	14.0	23.9	
Suspended solids	mg/l	23	20.0	26.3	36.0	26.0	32.0	
Dissolved oxygen	mg/l	23	5.3	8.5	12.9	8.3	6.4	II
BOD (5)	mg/l	19	1.0	1.8	3.9	1.8	2.4	I
COD (Mn)	mg/l	19	1.4	3.7	5.1	4.1	4.9	I
COD (Cr)	mg/l	19	5.0	7.7	10.2	8.1	9.1	I
TOC	mg/l							
DOC	mg/l							
pH	-	23	7.0	7.7	8.2	7.7	8.0	II
							7.4	II
Alkalinity - total	mmol/l	23	2.6	2.9	3.5	2.9	3.2	
Ammonium (NH4-N)	mg/l	23	0.020	0.160	0.500	0.120	0.374	III
Nitrite (NO2-N)	mg/l	23	0.005	0.025	0.042	0.024	0.036	II
Nitrate (NO3-N)	mg/l	23	0.271	0.883	1.875	0.836	1.301	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	23	0.015	0.082	0.150	0.071	0.138	III
Total phosphorus	mg/l	23	0.020	0.104	0.280	0.075	0.190	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	23	357	395	445	388	440	
Calcium (Ca++)	mg/l	23	42.8	50.7	61.2	50.3	58.4	
Sulphate (SO4--)	mg/l	23	9.2	38.2	82.3	32.8	50.6	
Magnesium (Mg++)	mg/l	23	7.8	12.3	18.4	11.6	14.5	
Potassium (K+)	mg/l	23	2.0	2.5	3.0	2.0	3.0	
Sodium (Na+)	mg/l	23	11.0	14.8	25.0	15.0	17.8	
Manganese (Mn)	mg/l	22	0.0200	0.0445	0.1240	0.0385	0.0670	
Iron (Fe)	mg/l	23	0.060	0.169	0.414	0.171	0.255	
Chloride (Cl-)	mg/l	23	14.5	19.7	25.2	19.2	24.9	
Silicates (SiO2)	mg/l	23	1.35	6.65	15.80	6.01	9.95	
Zinc (Zn), dissolved	µg/l	19	10.00	16.84	90.00	10.00	25.20	III
Copper (Cu), dissolved	µg/l	19	0.81	2.13	4.81	1.97	3.75	III
Chromium (Cr), total dissolved	µg/l	19	0.05	0.27	0.99	0.17	0.51	II
Lead (Pb), dissolved	µg/l	19	0.56	4.01	11.07	3.04	8.97	III
Cadmium (Cd), dissolved	µg/l	19	0.05	0.61	2.76	0.24	2.19	III
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l	18	0.29	1.31	5.70	0.93	2.21	III
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	22	10.00	28.50	110.00	23.50	58.50	II
Copper (Cu)	µg/l	22	1.52	4.78	18.16	4.03	7.64	II
Chromium (Cr) - total	µg/l	22	0.10	1.93	14.31	0.66	2.80	II
Lead (Pb)	µg/l	22	0.93	6.96	17.72	5.87	13.59	IV
Cadmium (Cd)	µg/l	19	0.06	1.41	6.88	0.61	3.13	IV
Mercury (Hg)	µg/l	22	0.025	0.043	0.147	0.025	0.107	III
Nickel (Ni)	µg/l	22	0.32	2.22	7.80	1.66	5.02	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	21	0.0050	0.0050	0.0050	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	21	0.025	0.047	0.110	0.043	0.077	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	19	0.0050	0.0303	0.1160	0.0180	0.0710	II
pp-DDT	µg/l	19	0.0100	0.0365	0.1410	0.0270	0.0720	V
Atrazine	µg/l	20	0.066	0.150	0.351	0.120	0.236	IV
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	18	0.021	0.239	1.100	0.175	0.477	
Faecal coliforms (44 C)	1000CFU/100m	18	0.002	0.025	0.120	0.012	0.076	
Faecal streptococci	1000CFU/100m	18	0.000	0.002	0.005	0.002	0.005	
Salmonella	No/1l							

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

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

River: Danube	Catchment: 580100 km2	2004
Distance from the mouth 834	Altitude: 31 m	RO02
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	2040.0	5233.0	10737.0	4946.0	8250.0	
Temperature	°C	23	2.0	13.8	24.0	14.2	23.9	
Suspended solids	mg/l	23	24.0	29.7	37.0	30.0	34.8	
Dissolved oxygen	mg/l	23	5.5	8.6	12.7	8.2	6.6	II
BOD (5)	mg/l	19	1.1	2.0	4.4	1.9	2.7	I
COD (Mn)	mg/l	19	2.0	4.3	6.0	4.7	5.5	II
COD (Cr)	mg/l	19	5.0	8.5	10.7	9.0	10.4	II
TOC	mg/l							
DOC	mg/l							
pH	-	23	7.0	7.7	8.3	7.8	8.0	II
							7.4	II
Alkalinity - total	mmol/l	23	2.5	2.9	3.4	2.9	3.3	
Ammonium (NH4-N)	mg/l	23	0.020	0.220	0.680	0.170	0.344	III
Nitrite (NO2-N)	mg/l	23	0.007	0.024	0.040	0.023	0.036	II
Nitrate (NO3-N)	mg/l	23	0.452	0.992	2.192	0.900	1.378	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	23	0.005	0.091	0.300	0.080	0.120	III
Total phosphorus	mg/l	23	0.010	0.114	0.360	0.091	0.190	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	23	356	394	447	386	431	
Calcium (Ca++)	mg/l	23	38.5	50.4	57.9	49.6	57.6	
Sulphate (SO4--)	mg/l	23	10.5	38.8	74.9	36.4	58.2	
Magnesium (Mg++)	mg/l	23	8.7	58.8	1067.0	12.6	17.2	
Potassium (K+)	mg/l	23	2.0	2.6	4.0	3.0	3.0	
Sodium (Na+)	mg/l	23	11.0	15.6	37.0	15.0	17.8	
Manganese (Mn)	mg/l	22	0.0200	0.0366	0.0720	0.0330	0.0630	
Iron (Fe)	mg/l	23	0.060	0.138	0.332	0.135	0.219	
Chloride (Cl-)	mg/l	23	15.2	19.8	26.0	19.2	24.3	
Silicates (SiO2)	mg/l	23	2.48	6.52	12.60	5.43	10.10	
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l	1	0.05	0.05	0.05			II
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	22	10.00	21.64	65.00	14.50	36.60	II
Copper (Cu)	µg/l	22	1.61	6.10	45.08	4.39	6.18	II
Chromium (Cr) - total	µg/l	22	0.05	0.69	2.89	0.51	1.53	II
Lead (Pb)	µg/l	22	1.48	6.46	30.82	4.97	8.78	III
Cadmium (Cd)	µg/l	19	0.05	1.34	8.18	0.47	2.88	IV
Mercury (Hg)	µg/l	22	0.025	0.171	1.924	0.029	0.125	III
Nickel (Ni)	µg/l	22	0.34	1.87	4.18	1.76	3.25	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	21	0.0050	0.0050	0.0050	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	21	0.033	0.057	0.130	0.054	0.077	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	4	0.010	0.857	2.350	0.534		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	19	0.0050	0.0412	0.1160	0.0220	0.1048	III
pp-DDT	µg/l	20	0.0100	0.0318	0.0870	0.0185	0.0797	V
Atrazine	µg/l	22	0.085	0.172	0.313	0.157	0.276	IV
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	18	0.026	0.336	2.800	0.155	0.529	
Faecal coliforms (44 C)	1000CFU/100m	18	0.008	0.073	0.700	0.017	0.140	
Faecal streptococci	1000CFU/100m	18	0.000	0.006	0.078	0.002	0.005	
Salmonella	No/1l							

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

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

River: Danube	Catchment: 676150 km2	2004
Distance from the mouth 432	Altitude: 16 m	RO03
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	2680.0	5896.2	11490.0	5569.0	9280.0	
Temperature	°C	12	2.0	14.1	27.0	14.7	25.0	
Suspended solids	mg/l	12	46.0	67.7	97.0	65.0	86.8	
Dissolved oxygen	mg/l	12	7.5	9.9	12.4	9.8	7.7	I
BOD (5)	mg/l	12	2.4	2.9	3.8	2.9	3.1	II
COD (Mn)	mg/l	12	3.9	4.7	5.8	4.7	5.4	II
COD (Cr)	mg/l	12	7.8	9.6	11.6	9.6	10.9	II
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.6	7.7	7.9	7.7	7.9	II
							7.6	II
Alkalinity - total	mmol/l	12	2.7	2.9	3.2	2.9	3.1	
Ammonium (NH4-N)	mg/l	12	0.110	0.143	0.210	0.140	0.178	I
Nitrite (NO2-N)	mg/l	12	0.009	0.019	0.040	0.017	0.029	II
Nitrate (NO3-N)	mg/l	12	1.020	1.139	1.300	1.140	1.245	II
Total nitrogen	mg/l	1	1.45	1.45	1.45			I
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.060	0.075	0.100	0.070	0.089	II
Total phosphorus	mg/l	12	0.110	0.137	0.170	0.135	0.150	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	12	364	392	459	385	419	
Calcium (Ca++)	mg/l	12	59.2	63.3	65.9	63.4	65.4	
Sulphate (SO4--)	mg/l	12	80.1	88.8	95.5	89.0	95.0	
Magnesium (Mg++)	mg/l	12	14.5	18.6	21.9	19.4	21.2	
Potassium (K+)	mg/l	12	1.6	2.4	3.1	2.5	2.9	
Sodium (Na+)	mg/l	12	11.1	17.3	22.7	17.3	21.8	
Manganese (Mn)	mg/l	12	0.0200	0.0588	0.1700	0.0395	0.1539	
Iron (Fe)	mg/l	12	0.060	0.296	0.873	0.236	0.558	
Chloride (Cl-)	mg/l	12	19.5	28.0	35.5	28.2	35.3	
Silicates (SiO2)	mg/l	12	1.35	6.76	16.50	6.06	9.41	
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12	10.00	24.08	48.00	23.00	38.00	II
Copper (Cu)	µg/l	12	0.19	6.04	19.44	4.62	11.76	II
Chromium (Cr) - total	µg/l	12	0.07	1.10	1.68	1.28	1.62	II
Lead (Pb)	µg/l	12	0.31	9.81	39.45	5.86	17.92	IV
Cadmium (Cd)	µg/l	10	0.05	0.39	1.33	0.26		III
Mercury (Hg)	µg/l	2	0.025	0.302	0.578			V
Nickel (Ni)	µg/l	11	0.58	3.28	13.77	2.07	4.50	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	10	0.0050	0.0050	0.0050	0.0050		
Anionic active surfactants (PAL-A)	mg/l	10	0.025	0.050	0.190	0.035		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	1	1.760	1.760	1.760			
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	11	0.0050	0.0452	0.1010	0.0520	0.0920	II
pp-DDT	µg/l	9	0.0100	0.0413	0.1000	0.0230		V
Atrazine	µg/l	12	0.085	0.240	0.572	0.183	0.449	IV
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	10	0.039	3.868	16.000	0.730		
Faecal coliforms (44 C)	1000CFU/100m	10	0.006	0.188	1.300	0.031		
Faecal streptococci	1000CFU/100m	10	0.000	0.021	0.170	0.005		
Salmonella	No/1l							

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

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

River: Danube
 Distance from the mouth 432
 Location: Middle

Catchment: 676150 km2
 Altitude: 16 m
 2004
 RO03

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	2680.0	5896.2	11490.0	5569.0	9280.0	
Temperature	°C	12	1.7	13.9	26.5	14.4	24.6	
Suspended solids	mg/l	12	41.0	61.5	80.0	60.5	74.9	
Dissolved oxygen	mg/l	12	7.7	10.0	12.6	9.8	7.8	I
BOD (5)	mg/l	12	1.9	2.6	3.3	2.6	3.0	I
COD (Mn)	mg/l	12	3.1	4.0	4.9	4.2	4.8	I
COD (Cr)	mg/l	12	6.7	8.8	10.2	9.3	10.0	I
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.5	7.7	7.8	7.7	7.8	II
							7.6	II
Alkalinity - total	mmol/l	12	2.5	2.7	3.3	2.7	3.0	
Ammonium (NH4-N)	mg/l	12	0.080	0.103	0.150	0.100	0.119	I
Nitrite (NO2-N)	mg/l	12	0.005	0.010	0.020	0.009	0.019	II
Nitrate (NO3-N)	mg/l	12	0.890	1.017	1.140	1.000	1.137	II
Total nitrogen	mg/l	1	1.56	1.56	1.56			II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.050	0.061	0.080	0.060	0.070	II
Total phosphorus	mg/l	12	0.080	0.113	0.160	0.110	0.130	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	12	330	376	456	372	400	
Calcium (Ca++)	mg/l	12	56.0	61.1	68.8	60.8	63.8	
Sulphate (SO4--)	mg/l	12	69.6	82.2	91.6	82.1	90.0	
Magnesium (Mg++)	mg/l	12	12.1	15.6	19.5	14.6	19.5	
Potassium (K+)	mg/l	12	1.4	2.2	3.7	1.9	3.2	
Sodium (Na+)	mg/l	12	10.7	15.2	24.1	14.9	21.2	
Manganese (Mn)	mg/l	12	0.0200	0.0749	0.2160	0.0570	0.1657	
Iron (Fe)	mg/l	12	0.060	0.339	1.073	0.215	0.936	
Chloride (Cl-)	mg/l	12	17.8	24.6	39.0	23.6	34.8	
Silicates (SiO2)	mg/l	12	2.86	7.29	15.30	7.44	9.29	
Zinc (Zn), dissolved	µg/l	9	10.00	16.22	66.00	10.00		III
Copper (Cu), dissolved	µg/l	8	1.01	3.49	6.13	3.44		III
Chromium (Cr), total dissolved	µg/l	8	0.05	0.51	1.87	0.44		II
Lead (Pb), dissolved	µg/l	9	0.21	4.48	8.32	5.11		III
Cadmium (Cd), dissolved	µg/l	9	0.05	0.23	1.05	0.07		III
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l	8	0.53	1.24	2.14	1.15		III
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12	10.00	26.33	111.00	13.00	39.70	II
Copper (Cu)	µg/l	12	2.44	6.33	9.71	5.86	9.20	II
Chromium (Cr) - total	µg/l	12	0.60	1.30	3.20	0.97	2.62	II
Lead (Pb)	µg/l	12	0.81	8.40	17.43	7.93	15.09	IV
Cadmium (Cd)	µg/l	10	0.05	0.59	3.31	0.38		IV
Mercury (Hg)	µg/l	2	0.026	0.568	1.109			V
Nickel (Ni)	µg/l	11	1.15	3.05	11.35	2.47	3.39	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	10	0.0050	0.0050	0.0050	0.0050		
Anionic active surfactants (PAL-A)	mg/l	10	0.025	0.027	0.035	0.026		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	1	5.290	5.290	5.290			
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	11	0.0050	0.0273	0.0580	0.0240	0.0550	II
pp-DDT	µg/l	10	0.0100	0.0408	0.1970	0.0140		V
Atrazine	µg/l	12	0.060	0.201	0.648	0.138	0.359	IV
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	10	0.032	1.624	5.400	0.370		
Faecal coliforms (44 C)	1000CFU/100m	10	0.005	0.319	2.400	0.081		
Faecal streptococci	1000CFU/100m	10	0.000	0.011	0.078	0.005		
Salmonella	No/1l							

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

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

River: Danube	Catchment: 676150 km2	2004
Distance from the mouth 432	Altitude: 16 m	RO03
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	2680.0	5896.2	11490.0	5569.0	9280.0	
Temperature	°C	12	1.9	13.8	25.0	14.6	24.0	
Suspended solids	mg/l	12	53.0	75.2	113.0	75.0	84.8	
Dissolved oxygen	mg/l	12	7.5	9.8	12.7	9.7	7.5	I
BOD (5)	mg/l	12	2.1	3.2	4.1	3.3	3.6	II
COD (Mn)	mg/l	12	3.8	5.1	6.2	5.2	5.8	II
COD (Cr)	mg/l	12	7.4	10.9	13.3	11.4	12.9	II
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.6	7.7	7.8	7.7	7.8	II
							7.6	II
Alkalinity - total	mmol/l	12	2.6	2.9	3.4	2.9	3.3	
Ammonium (NH4-N)	mg/l	12	0.090	0.131	0.190	0.120	0.169	I
Nitrite (NO2-N)	mg/l	12	0.012	0.018	0.030	0.015	0.029	II
Nitrate (NO3-N)	mg/l	12	0.950	1.262	1.490	1.295	1.486	II
Total nitrogen	mg/l	1	1.80	1.80	1.80			II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.070	0.083	0.100	0.080	0.090	II
Total phosphorus	mg/l	12	0.120	0.153	0.190	0.155	0.169	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	12	358	390	466	388	404	
Calcium (Ca++)	mg/l	12	60.8	64.2	78.4	62.6	66.9	
Sulphate (SO4--)	mg/l	12	22.0	83.1	107.0	83.5	98.4	
Magnesium (Mg++)	mg/l	12	12.2	17.8	26.8	17.0	21.9	
Potassium (K+)	mg/l	12	1.4	2.5	3.4	2.5	3.0	
Sodium (Na+)	mg/l	12	11.3	16.6	22.8	16.8	19.2	
Manganese (Mn)	mg/l	12	0.0200	0.0539	0.1710	0.0370	0.0844	
Iron (Fe)	mg/l	12	0.060	0.302	0.988	0.177	0.854	
Chloride (Cl-)	mg/l	12	17.8	27.5	37.2	27.3	32.0	
Silicates (SiO2)	mg/l	12	1.37	6.54	17.30	6.01	8.82	
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12	10.00	36.33	162.00	21.00	62.80	II
Copper (Cu)	µg/l	12	2.82	8.06	18.14	6.51	11.81	II
Chromium (Cr) - total	µg/l	12	0.39	1.34	2.94	1.15	2.16	II
Lead (Pb)	µg/l	12	0.05	8.19	13.89	7.46	12.80	IV
Cadmium (Cd)	µg/l	10	0.05	0.54	1.80	0.35		III
Mercury (Hg)	µg/l	1	0.377	0.377	0.377			IV
Nickel (Ni)	µg/l	11	1.21	3.91	13.38	3.19	5.67	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	10	0.0050	0.0050	0.0050	0.0050		
Anionic active surfactants (PAL-A)	mg/l	10	0.025	0.031	0.038	0.031		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	1	2.350	2.350	2.350			
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	11	0.0050	0.0309	0.0700	0.0250	0.0630	II
pp-DDT	µg/l	10	0.0100	0.0261	0.0670	0.0160		V
Atrazine	µg/l	12	0.060	0.170	0.351	0.140	0.260	IV
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	10	0.033	2.549	9.200	0.620		
Faecal coliforms (44 C)	1000CFU/100m	10	0.005	0.220	1.100	0.098		
Faecal streptococci	1000CFU/100m	10	0.000	0.006	0.020	0.005		
Salmonella	No/1l							

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

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

River: Danube	Catchment: 698600 km2	2004
Distance from the mouth 375	Altitude: 13 m	RO04
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	2927.0	6088.1	11300.0	5848.0	9440.0	
Temperature	°C	23	1.0	12.0	25.0	12.0	24.0	
Suspended solids	mg/l	24	2.0	20.6	68.0	16.5	37.7	
Dissolved oxygen	mg/l	24	2.0	8.4	14.2	8.5	5.6	III
BOD (5)	mg/l	24	1.1	2.7	7.2	2.5	3.8	II
COD (Mn)	mg/l	22	2.2	3.8	8.1	3.5	4.9	I
COD (Cr)	mg/l	8	5.0	37.7	59.6	38.6		IV
TOC	mg/l							
DOC	mg/l							
pH	-	23	7.2	7.8	8.7	7.7	8.2	II
							7.4	II
Alkalinity - total	mmol/l	12	2.4	3.3	4.0	3.3	3.8	
Ammonium (NH4-N)	mg/l	24	0.036	0.502	1.150	0.452	0.857	IV
Nitrite (NO2-N)	mg/l	24	0.005	0.068	0.412	0.037	0.120	III
Nitrate (NO3-N)	mg/l	24	0.100	1.398	3.200	1.295	2.404	II
Total nitrogen	mg/l	17	0.66	2.42	4.66	2.58	3.55	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	24	0.005	0.045	0.176	0.031	0.095	II
Total phosphorus	mg/l	23	0.017	0.242	2.930	0.103	0.227	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	24	358	444	514	459	500	
Calcium (Ca++)	mg/l	12	17.8	48.1	64.1	50.6	62.9	
Sulphate (SO4--)	mg/l	12	14.1	33.0	98.6	27.2	38.7	
Magnesium (Mg++)	mg/l	12	7.8	30.6	89.1	25.4	41.5	
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	22	0.0200	0.0457	0.1070	0.0355	0.0821	
Iron (Fe)	mg/l	22	0.060	0.337	1.432	0.218	0.659	
Chloride (Cl-)	mg/l	22	27.0	38.9	48.7	40.9	47.2	
Silicates (SiO2)	mg/l	20	2.28	6.90	10.44	7.32	9.93	
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	22	10.00	37.77	114.00	21.50	97.80	II
Copper (Cu)	µg/l	22	0.86	7.51	16.08	7.41	11.93	II
Chromium (Cr) - total	µg/l	22	0.24	3.34	39.14	1.39	3.04	II
Lead (Pb)	µg/l	22	4.11	13.27	28.76	12.69	20.16	IV
Cadmium (Cd)	µg/l	18	0.05	0.64	2.92	0.25	2.13	IV
Mercury (Hg)	µg/l	18	0.025	0.103	0.920	0.035	0.123	III
Nickel (Ni)	µg/l	22	0.05	3.85	16.57	2.52	5.79	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	8	0.0050	0.0050	0.0050	0.0050		
Anionic active surfactants (PAL-A)	mg/l	8	0.025	0.055	0.101	0.049		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	10	0.010	1.074	3.529	0.350		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	17	0.0050	0.0306	0.0680	0.0240	0.0632	II
pp-DDT	µg/l	17	0.0100	0.0569	0.1890	0.0190	0.1514	V
Atrazine	µg/l	20	0.060	0.108	0.211	0.096	0.161	III
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: Danube	Catchment: 698600 km2	2004
Distance from the mouth 375	Altitude: 13 m	RO04
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	2927.0	6088.1	11300.0	5848.0	9440.0	
Temperature	°C	23	1.0	12.3	25.0	14.0	24.0	
Suspended solids	mg/l	24	3.0	20.8	94.0	14.0	39.5	
Dissolved oxygen	mg/l	24	5.0	9.0	14.9	9.1	6.7	II
BOD (5)	mg/l	24	1.1	2.4	3.8	2.5	3.1	II
COD (Mn)	mg/l	22	2.6	3.6	5.1	3.6	4.7	I
COD (Cr)	mg/l	8	5.0	36.1	55.8	38.2		IV
TOC	mg/l							
DOC	mg/l							
pH	-	23	7.3	7.8	8.6	7.8	8.2	II
							7.5	II
Alkalinity - total	mmol/l	12	2.6	3.4	4.0	3.4	3.8	
Ammonium (NH4-N)	mg/l	24	0.020	0.423	0.903	0.431	0.703	IV
Nitrite (NO2-N)	mg/l	24	0.005	0.042	0.120	0.035	0.095	III
Nitrate (NO3-N)	mg/l	24	0.100	1.491	2.750	1.485	2.409	II
Total nitrogen	mg/l	17	0.57	2.39	3.84	2.37	3.64	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	24	0.005	0.041	0.173	0.020	0.087	II
Total phosphorus	mg/l	23	0.010	0.263	3.600	0.109	0.246	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	24	356	438	580	436	491	
Calcium (Ca++)	mg/l	12	38.1	53.5	68.1	55.0	64.5	
Sulphate (SO4--)	mg/l	12	10.3	28.0	47.7	24.4	39.4	
Magnesium (Mg++)	mg/l	12	7.8	25.0	41.5	25.3	38.4	
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	22	0.0200	0.0698	0.2560	0.0435	0.1430	
Iron (Fe)	mg/l	22	0.060	0.367	1.847	0.224	0.533	
Chloride (Cl-)	mg/l	22	27.0	41.5	69.6	41.5	47.6	
Silicates (SiO2)	mg/l	20	2.19	6.98	12.11	7.99	10.65	
Zinc (Zn), dissolved	µg/l	18	10.00	14.83	54.00	10.00	24.00	III
Copper (Cu), dissolved	µg/l	18	0.05	6.53	38.70	4.04	9.22	III
Chromium (Cr), total dissolved	µg/l	18	0.05	1.10	4.34	0.76	2.92	III
Lead (Pb), dissolved	µg/l	18	0.05	3.07	6.62	2.58	5.85	III
Cadmium (Cd), dissolved	µg/l	18	0.05	0.22	1.01	0.05	0.82	III
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l	18	0.05	1.68	4.00	1.30	3.44	III
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	22	10.00	46.23	153.00	29.00	109.10	III
Copper (Cu)	µg/l	22	1.00	11.83	59.69	10.47	15.63	II
Chromium (Cr) - total	µg/l	22	0.05	2.29	6.92	1.83	5.28	II
Lead (Pb)	µg/l	22	3.67	20.61	123.30	11.96	52.15	V
Cadmium (Cd)	µg/l	18	0.05	0.80	3.80	0.24	2.09	IV
Mercury (Hg)	µg/l	19	0.025	0.056	0.160	0.032	0.133	III
Nickel (Ni)	µg/l	22	0.05	4.52	18.98	3.03	8.46	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	8	0.0050	0.0050	0.0050	0.0050		
Anionic active surfactants (PAL-A)	mg/l	8	0.025	0.056	0.101	0.049		
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	20	0.0070	0.0413	0.1600	0.0265	0.0700	II
pp-DDT	µg/l	15	0.0100	0.0569	0.1590	0.0430	0.1234	V
Atrazine	µg/l	21	0.060	0.129	0.236	0.112	0.190	III
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: Danube	Catchment: 698600 km2	2004
Distance from the mouth 375	Altitude: 13 m	RO04
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	2927.0	6088.1	11300.0	5848.0	9440.0	
Temperature	°C	23	1.0	12.3	25.0	14.0	24.0	
Suspended solids	mg/l	24	4.0	21.8	75.0	15.0	40.4	
Dissolved oxygen	mg/l	24	6.5	9.1	11.7	9.1	7.2	I
BOD (5)	mg/l	24	0.9	2.1	4.2	2.1	2.7	I
COD (Mn)	mg/l	22	2.4	3.5	5.3	3.4	4.6	I
COD (Cr)	mg/l	8	5.0	37.0	59.4	34.6		IV
TOC	mg/l							
DOC	mg/l							
pH	-	23	7.1	7.8	8.6	7.8	8.1	II
							7.4	II
Alkalinity - total	mmol/l	12	2.6	3.3	4.0	3.3	3.8	
Ammonium (NH4-N)	mg/l	24	0.074	0.393	1.030	0.312	0.707	IV
Nitrite (NO2-N)	mg/l	24	0.005	0.056	0.209	0.038	0.114	III
Nitrate (NO3-N)	mg/l	24	0.100	1.498	2.670	1.465	2.342	II
Total nitrogen	mg/l	17	0.73	2.36	4.07	2.38	3.62	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	24	0.005	0.039	0.091	0.041	0.083	II
Total phosphorus	mg/l	23	0.010	0.269	4.070	0.098	0.217	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	24	353	436	601	432	492	
Calcium (Ca++)	mg/l	12	38.1	51.5	63.2	53.0	60.3	
Sulphate (SO4--)	mg/l	12	16.0	29.5	49.8	26.2	44.7	
Magnesium (Mg++)	mg/l	12	7.8	25.9	39.0	25.6	37.2	
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	22	0.0200	0.0508	0.1110	0.0470	0.0943	
Iron (Fe)	mg/l	22	0.060	0.239	0.811	0.122	0.548	
Chloride (Cl-)	mg/l	22	27.0	38.8	54.0	41.2	42.6	
Silicates (SiO2)	mg/l	21	2.38	7.64	16.50	7.61	10.93	
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	22	10.00	27.32	81.00	23.50	46.90	II
Copper (Cu)	µg/l	22	0.05	7.94	29.78	6.95	15.99	II
Chromium (Cr) - total	µg/l	22	0.14	3.92	42.17	1.09	5.37	II
Lead (Pb)	µg/l	22	0.05	12.58	49.38	11.00	19.12	IV
Cadmium (Cd)	µg/l	18	0.05	0.42	2.10	0.28	0.80	II
Mercury (Hg)	µg/l	19	0.025	0.077	0.627	0.025	0.124	III
Nickel (Ni)	µg/l	22	0.05	3.07	12.53	2.38	6.03	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	8	0.0050	0.0050	0.0050	0.0050		
Anionic active surfactants (PAL-A)	mg/l	8	0.025	0.055	0.101	0.048		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	10	0.010	0.550	1.760	0.353		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	17	0.0050	0.0248	0.0800	0.0210	0.0424	I
pp-DDT	µg/l	15	0.0100	0.0462	0.1220	0.0210	0.1052	V
Atrazine	µg/l	20	0.060	0.135	0.214	0.127	0.191	III
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: Danube	Catchment: 805700 km2	2004
Distance from the mouth 132	Altitude: 4 m	RO05
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	3300.0	6523.8	11340.0	6410.0	9725.0	
Temperature	°C	23	2.5	14.2	25.0	16.0	24.0	
Suspended solids	mg/l	24	2.0	20.8	97.0	18.0	39.1	
Dissolved oxygen	mg/l	24	6.7	9.5	12.8	9.1	7.5	I
BOD (5)	mg/l	24	< 0.5	1.8	3.0	1.8	2.6	I
COD (Mn)	mg/l	21	2.2	3.1	4.1	3.0	3.7	I
COD (Cr)	mg/l	7	20.0	22.6	26.0	22.0		III
TOC	mg/l							
DOC	mg/l							
pH	-	24	7.1	7.6	8.1	7.7	7.9	II
							7.3	II
Alkalinity - total	mmol/l	12	2.4	3.0	3.6	3.1	3.4	
Ammonium (NH4-N)	mg/l	24	0.020	0.378	0.871	0.356	0.666	IV
Nitrite (NO2-N)	mg/l	24	0.005	0.049	0.147	0.035	0.121	II
Nitrate (NO3-N)	mg/l	24	0.769	1.636	3.420	1.580	2.474	II
Total nitrogen	mg/l	15	1.42	2.60	3.70	2.76	3.16	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	24	0.005	0.051	0.150	0.053	0.113	III
Total phosphorus	mg/l	24	0.010	0.120	0.262	0.118	0.183	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	24	348	420	549	420	458	
Calcium (Ca++)	mg/l	12	45.9	57.5	66.1	60.1	65.4	
Sulphate (SO4--)	mg/l	14	13.5	28.5	42.1	29.2	36.0	
Magnesium (Mg++)	mg/l	12	15.0	27.2	67.8	20.1	41.5	
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	24	0.0200	0.0597	0.2050	0.0515	0.0904	
Iron (Fe)	mg/l	24	0.060	0.447	2.919	0.326	0.649	
Chloride (Cl-)	mg/l	22	27.0	35.9	49.7	35.2	42.6	
Silicates (SiO2)	mg/l	22	4.92	8.24	13.37	7.89	11.35	
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l	1	11.30	11.30	11.30			II
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	24	10.00	28.13	106.00	24.00	59.70	II
Copper (Cu)	µg/l	24	0.05	8.66	32.52	6.20	18.37	II
Chromium (Cr) - total	µg/l	24	0.05	1.04	3.73	0.79	2.62	II
Lead (Pb)	µg/l	24	1.62	10.74	43.52	8.74	21.21	IV
Cadmium (Cd)	µg/l	20	0.05	0.49	2.24	0.22	1.28	III
Mercury (Hg)	µg/l	21	0.025	0.032	0.090	0.025	0.030	II
Nickel (Ni)	µg/l	24	0.65	3.93	16.32	2.59	7.33	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	7	0.0050	0.0159	0.0815	0.0050		
Anionic active surfactants (PAL-A)	mg/l	8	0.025	0.169	0.452	0.110		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	10	0.010	1.552	4.470	1.177		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	20	0.0050	0.0387	0.1560	0.0195	0.0922	II
pp-DDT	µg/l	18	0.0100	0.0390	0.0970	0.0200	0.0890	V
Atrazine	µg/l	22	0.060	0.126	0.219	0.118	0.192	III
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	1	2.400	2.400	2.400			
Faecal coliforms (44 C)	1000CFU/100m	1	0.700	0.700	0.700			
Faecal streptococci	1000CFU/100m	1	0.004	0.004	0.004			
Salmonella	No/1l							

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

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

River: Danube	Catchment: 805700 km2	2004
Distance from the mouth 132	Altitude: 4 m	RO05
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	3300.0	6523.8	11340.0	6410.0	9725.0	
Temperature	°C	23	2.5	14.2	25.0	16.0	24.0	
Suspended solids	mg/l	24	1.0	22.5	85.0	18.5	40.5	
Dissolved oxygen	mg/l	24	6.5	9.4	12.8	9.0	7.4	I
BOD (5)	mg/l	24	0.7	1.8	3.2	1.7	2.6	I
COD (Mn)	mg/l	21	2.4	3.5	7.5	3.2	4.2	I
COD (Cr)	mg/l	7	18.0	22.9	26.0	25.0		III
TOC	mg/l							
DOC	mg/l							
pH	-	24	7.1	7.7	8.1	7.7	8.0	II
							7.3	II
Alkalinity - total	mmol/l	12	2.7	3.1	3.4	3.1	3.3	
Ammonium (NH4-N)	mg/l	24	0.020	0.354	0.856	0.322	0.693	IV
Nitrite (NO2-N)	mg/l	24	0.005	0.056	0.180	0.027	0.154	II
Nitrate (NO3-N)	mg/l	24	0.628	1.623	2.700	1.665	2.334	II
Total nitrogen	mg/l	15	1.17	2.62	3.73	2.70	3.43	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	24	0.005	0.055	0.136	0.045	0.113	III
Total phosphorus	mg/l	24	0.014	0.123	0.277	0.119	0.177	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	24	336	419	539	419	468	
Calcium (Ca++)	mg/l	12	41.6	55.1	65.5	57.0	63.8	
Sulphate (SO4--)	mg/l	14	23.0	30.4	44.4	29.1	37.5	
Magnesium (Mg++)	mg/l	12	12.4	24.1	41.5	23.1	35.3	
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	24	0.0200	0.0977	0.9640	0.0620	0.1023	
Iron (Fe)	mg/l	24	0.060	0.479	2.022	0.288	0.934	
Chloride (Cl-)	mg/l	22	27.0	36.5	49.7	35.2	47.6	
Silicates (SiO2)	mg/l	22	3.31	7.75	13.54	6.98	11.69	
Zinc (Zn), dissolved	µg/l	20	10.00	17.45	100.00	10.00	26.70	III
Copper (Cu), dissolved	µg/l	20	0.05	5.35	18.57	3.17	10.91	III
Chromium (Cr), total dissolved	µg/l	20	0.05	0.82	2.11	0.47	2.00	III
Lead (Pb), dissolved	µg/l	20	0.25	5.32	38.70	2.83	8.65	III
Cadmium (Cd), dissolved	µg/l	20	0.05	0.10	0.44	0.05	0.19	III
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l	19	0.31	1.94	7.92	1.04	3.78	III
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	24	10.00	36.21	139.00	26.00	99.00	II
Copper (Cu)	µg/l	24	0.09	9.89	24.06	8.23	19.84	II
Chromium (Cr) - total	µg/l	24	0.05	1.55	3.76	1.23	3.08	II
Lead (Pb)	µg/l	24	2.11	9.86	57.20	7.36	14.34	IV
Cadmium (Cd)	µg/l	20	0.05	0.28	0.98	0.17	0.69	II
Mercury (Hg)	µg/l	21	0.025	0.040	0.206	0.025	0.053	II
Nickel (Ni)	µg/l	24	0.61	3.81	20.90	2.84	7.54	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	7	0.0050	0.0159	0.0813	0.0050		
Anionic active surfactants (PAL-A)	mg/l	8	0.025	0.169	0.452	0.110		
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	21	0.0050	0.0371	0.1180	0.0210	0.0870	II
pp-DDT	µg/l	19	0.0100	0.0467	0.1840	0.0350	0.0758	V
Atrazine	µg/l	23	0.060	0.137	0.307	0.110	0.252	IV
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	1	0.600	0.600	0.600			
Faecal coliforms (44 C)	1000CFU/100m	1	0.280	0.280	0.280			
Faecal streptococci	1000CFU/100m	1	0.006	0.006	0.006			
Salmonella	No/1l							

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

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

River: Danube	Catchment: 805700 km2	2004
Distance from the mouth 132	Altitude: 4 m	RO05
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	3300.0	6523.8	11340.0	6410.0	9725.0	
Temperature	°C	23	2.5	14.2	25.0	16.0	24.0	
Suspended solids	mg/l	24	2.0	24.6	88.0	18.5	47.2	
Dissolved oxygen	mg/l	24	6.6	9.4	12.9	9.1	7.4	I
BOD (5)	mg/l	24	0.7	1.8	3.0	1.8	2.5	I
COD (Mn)	mg/l	21	2.4	3.1	3.9	3.0	3.6	I
COD (Cr)	mg/l	7	20.0	22.3	26.4	22.0		III
TOC	mg/l							
DOC	mg/l							
pH	-	24	7.1	7.6	8.2	7.6	7.9	II
							7.3	II
Alkalinity - total	mmol/l	12	2.7	3.2	4.7	3.1	3.4	
Ammonium (NH4-N)	mg/l	24	0.020	0.399	0.948	0.319	0.758	IV
Nitrite (NO2-N)	mg/l	24	0.005	0.048	0.156	0.029	0.118	III
Nitrate (NO3-N)	mg/l	24	0.763	1.621	2.730	1.665	2.329	II
Total nitrogen	mg/l	15	1.52	2.66	3.80	2.65	3.38	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	24	0.005	0.056	0.150	0.042	0.121	III
Total phosphorus	mg/l	24	0.010	0.111	0.224	0.112	0.173	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	23	340	422	535	420	469	
Calcium (Ca++)	mg/l	12	44.0	54.2	69.3	55.2	60.3	
Sulphate (SO4--)	mg/l	14	23.3	29.7	43.2	28.3	36.3	
Magnesium (Mg++)	mg/l	12	13.1	26.9	46.6	24.2	43.7	
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	24	0.0200	0.0548	0.1090	0.0555	0.0904	
Iron (Fe)	mg/l	24	0.060	0.383	0.870	0.447	0.724	
Chloride (Cl-)	mg/l	22	28.4	38.0	49.7	35.5	47.7	
Silicates (SiO2)	mg/l	23	3.74	8.00	15.27	7.64	10.86	
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	24	10.00	25.29	119.00	18.50	43.20	II
Copper (Cu)	µg/l	24	0.05	9.92	30.36	8.22	19.31	II
Chromium (Cr) - total	µg/l	24	0.05	1.64	4.92	1.10	3.26	II
Lead (Pb)	µg/l	24	1.15	7.24	50.16	5.17	9.36	III
Cadmium (Cd)	µg/l	20	0.05	0.25	1.49	0.08	0.57	II
Mercury (Hg)	µg/l	21	0.025	0.042	0.158	0.025	0.090	II
Nickel (Ni)	µg/l	24	0.05	2.99	10.06	2.28	6.89	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	7	0.0050	0.0159	0.0814	0.0050		
Anionic active surfactants (PAL-A)	mg/l	8	0.025	0.179	0.452	0.114		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	10	0.010	2.254	5.880	2.057		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	21	0.0050	0.0370	0.1700	0.0240	0.0990	II
pp-DDT	µg/l	18	0.0100	0.0518	0.1720	0.0315	0.1156	V
Atrazine	µg/l	24	0.060	0.139	0.425	0.125	0.204	IV
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	1	2.200	2.200	2.200			
Faecal coliforms (44 C)	1000CFU/100m	1	1.300	1.300	1.300			
Faecal streptococci	1000CFU/100m	1	0.008	0.008	0.008			
Salmonella	No/1l							

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

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

River: Danube	Catchment: 817000 km2	2004
Distance from the mouth 18	Altitude: 1 m	RO06
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	1680.0	3269.1	5730.0	3250.0	4795.0	
Temperature	°C	12	0.0	13.5	24.0	14.3	23.6	
Suspended solids	mg/l	12	2.0	24.1	58.0	17.5	56.2	
Dissolved oxygen	mg/l	12	6.1	9.4	14.5	9.0	7.2	I
BOD (5)	mg/l	12	0.9	1.9	4.2	1.8	2.9	I
COD (Mn)	mg/l	12	2.6	3.9	9.1	3.4	4.7	I
COD (Cr)	mg/l	6	5.0	27.3	54.0	23.1		IV
TOC	mg/l							
DOC	mg/l							
pH	-	12	6.6	7.5	8.2	7.6	8.1	II
							7.0	II
Alkalinity - total	mmol/l	12	2.8	3.3	3.8	3.3	3.7	
Ammonium (NH4-N)	mg/l	12	0.080	0.634	1.170	0.652	0.972	IV
Nitrite (NO2-N)	mg/l	12	0.005	0.161	1.510	0.026	0.139	II
Nitrate (NO3-N)	mg/l	12	0.100	1.234	2.530	1.105	2.234	II
Total nitrogen	mg/l	6	1.96	2.64	3.91	2.47		II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.005	0.063	0.136	0.051	0.129	III
Total phosphorus	mg/l	12	0.063	0.126	0.255	0.119	0.158	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	12	345	430	545	417	478	
Calcium (Ca++)	mg/l	12	38.5	53.0	61.6	55.0	58.4	
Sulphate (SO4--)	mg/l	12	25.7	32.2	43.9	30.6	38.9	
Magnesium (Mg++)	mg/l	12	10.4	24.1	41.5	24.3	32.3	
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	12	0.0200	0.0528	0.0870	0.0520	0.0787	
Iron (Fe)	mg/l	12	0.060	0.346	0.768	0.279	0.620	
Chloride (Cl-)	mg/l	12	27.0	38.3	55.1	41.5	49.0	
Silicates (SiO2)	mg/l	12	3.14	7.30	13.99	6.41	11.66	
Zinc (Zn), dissolved	µg/l	1	10.00	10.00	10.00			II
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12	10.00	29.58	120.00	25.50	37.80	II
Copper (Cu)	µg/l	12	3.06	8.32	19.64	5.66	13.12	II
Chromium (Cr) - total	µg/l	12	0.05	2.29	14.02	1.49	3.08	II
Lead (Pb)	µg/l	12	1.68	8.87	34.05	4.81	28.05	V
Cadmium (Cd)	µg/l	10	0.05	0.55	2.49	0.15		IV
Mercury (Hg)	µg/l	10	0.025	0.031	0.060	0.025		II
Nickel (Ni)	µg/l	12	0.87	4.33	24.52	2.40	5.26	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	8	0.0050	0.0222	0.1422	0.0050		
Anionic active surfactants (PAL-A)	mg/l	8	0.025	0.116	0.397	0.066		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	10	0.010	1.335	5.882	0.010		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	9	0.0050	0.0298	0.1030	0.0130		III
pp-DDT	µg/l	8	0.0100	0.0425	0.0990	0.0325		V
Atrazine	µg/l	11	0.060	0.124	0.234	0.079	0.227	IV
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: Danube	Catchment: 817000 km2	2004
Distance from the mouth 18	Altitude: 1 m	RO06
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	1680.0	3269.1	5730.0	3250.0	4795.0	
Temperature	°C	12	0.0	13.5	24.0	14.3	23.6	
Suspended solids	mg/l	12	2.0	23.2	64.0	16.0	50.6	
Dissolved oxygen	mg/l	12	6.4	9.5	14.5	9.1	7.4	I
BOD (5)	mg/l	12	1.1	1.8	3.3	1.6	2.8	I
COD (Mn)	mg/l	12	2.6	3.3	4.6	3.1	3.9	I
COD (Cr)	mg/l	6	5.0	21.7	32.5	22.3		III
TOC	mg/l							
DOC	mg/l							
pH	-	12	6.4	7.5	8.3	7.5	8.0	II
							6.8	II
Alkalinity - total	mmol/l	12	2.8	3.4	3.9	3.4	3.8	
Ammonium (NH4-N)	mg/l	12	0.022	0.464	0.845	0.447	0.762	IV
Nitrite (NO2-N)	mg/l	12	0.005	0.064	0.172	0.030	0.151	II
Nitrate (NO3-N)	mg/l	12	0.100	1.549	2.540	1.615	2.383	II
Total nitrogen	mg/l	6	1.73	2.58	3.27	2.60		II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.005	0.114	0.822	0.037	0.142	III
Total phosphorus	mg/l	12	0.075	0.118	0.157	0.119	0.149	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	12	346	427	548	416	472	
Calcium (Ca++)	mg/l	12	45.9	57.3	70.2	55.2	65.5	
Sulphate (SO4--)	mg/l	12	21.3	31.9	39.0	32.2	38.4	
Magnesium (Mg++)	mg/l	12	13.1	25.4	44.0	25.0	30.4	
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	12	0.0200	0.0443	0.1270	0.0340	0.0687	
Iron (Fe)	mg/l	12	0.060	0.357	0.694	0.317	0.691	
Chloride (Cl-)	mg/l	12	27.0	37.5	48.2	37.0	42.6	
Silicates (SiO2)	mg/l	12	1.49	6.94	12.00	6.98	11.69	
Zinc (Zn), dissolved	µg/l	9	10.00	11.89	19.00	10.00		III
Copper (Cu), dissolved	µg/l	10	1.49	5.87	18.91	3.75		III
Chromium (Cr), total dissolved	µg/l	10	0.05	1.40	8.62	0.76		III
Lead (Pb), dissolved	µg/l	10	0.05	4.53	15.30	3.17		III
Cadmium (Cd), dissolved	µg/l	10	0.05	0.09	0.17	0.05		III
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l	10	0.05	1.73	6.01	1.18		III
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12	10.00	25.92	70.00	21.50	41.90	II
Copper (Cu)	µg/l	12	3.26	8.33	26.26	6.11	14.87	II
Chromium (Cr) - total	µg/l	12	0.42	2.66	12.68	1.49	4.09	II
Lead (Pb)	µg/l	12	1.90	12.17	69.79	5.00	19.86	IV
Cadmium (Cd)	µg/l	10	0.05	0.32	0.96	0.26		II
Mercury (Hg)	µg/l	11	0.025	0.032	0.096	0.025	0.026	II
Nickel (Ni)	µg/l	12	0.91	2.85	9.02	2.03	4.90	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	8	0.0050	0.0222	0.1423	0.0050		
Anionic active surfactants (PAL-A)	mg/l	8	0.025	0.196	0.706	0.074		
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	9	0.0070	0.0222	0.0420	0.0200		I
pp-DDT	µg/l	9	0.0100	0.0450	0.0980	0.0280		V
Atrazine	µg/l	12	0.060	0.138	0.225	0.122	0.212	IV
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: Danube	Catchment: 817000 km2	2004
Distance from the mouth 18	Altitude: 1 m	RO06
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	1680.0	3269.1	5730.0	3250.0	4795.0	
Temperature	°C	12	0.0	13.5	24.0	14.3	23.6	
Suspended solids	mg/l	12	2.0	21.7	48.0	17.5	47.4	
Dissolved oxygen	mg/l	12	6.2	9.6	14.5	9.3	7.3	I
BOD (5)	mg/l	12	1.0	1.9	3.4	1.8	3.0	II
COD (Mn)	mg/l	12	2.7	3.5	5.3	3.4	4.7	I
COD (Cr)	mg/l	6	5.0	22.4	38.5	22.4		III
TOC	mg/l							
DOC	mg/l							
pH	-	12	6.6	7.5	8.2	7.7	8.0	II
							7.2	II
Alkalinity - total	mmol/l	12	2.8	3.3	3.9	3.3	3.8	
Ammonium (NH4-N)	mg/l	12	0.077	0.543	1.050	0.579	0.811	IV
Nitrite (NO2-N)	mg/l	12	0.005	0.046	0.157	0.023	0.134	II
Nitrate (NO3-N)	mg/l	12	0.100	1.361	2.460	1.280	2.180	II
Total nitrogen	mg/l	6	1.95	2.67	3.57	2.64		II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.005	0.056	0.150	0.040	0.127	III
Total phosphorus	mg/l	12	0.081	0.128	0.195	0.119	0.183	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	12	364	428	542	417	481	
Calcium (Ca++)	mg/l	12	45.9	57.0	72.1	57.0	69.6	
Sulphate (SO4--)	mg/l	12	21.4	32.5	41.6	32.6	39.5	
Magnesium (Mg++)	mg/l	12	10.4	24.6	41.8	23.8	32.7	
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	12	0.0200	0.0626	0.2280	0.0480	0.0874	
Iron (Fe)	mg/l	12	0.060	0.342	0.735	0.326	0.706	
Chloride (Cl-)	mg/l	12	27.0	36.0	55.1	34.8	42.6	
Silicates (SiO2)	mg/l	12	4.22	7.29	11.74	7.18	10.35	
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12	10.00	33.83	84.00	23.00	73.80	II
Copper (Cu)	µg/l	12	0.51	10.84	42.89	7.75	18.35	II
Chromium (Cr) - total	µg/l	12	0.17	1.85	8.13	0.98	3.21	II
Lead (Pb)	µg/l	12	0.05	8.52	19.17	7.52	17.53	IV
Cadmium (Cd)	µg/l	10	0.05	0.25	0.98	0.13		II
Mercury (Hg)	µg/l	11	0.025	0.055	0.255	0.025	0.128	III
Nickel (Ni)	µg/l	12	0.40	3.27	12.02	2.42	6.03	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	8	0.0050	0.0222	0.1425	0.0050		
Anionic active surfactants (PAL-A)	mg/l	8	0.025	0.109	0.397	0.070		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	10	0.010	2.479	5.882	2.531		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	9	0.0050	0.0493	0.2460	0.0110		IV
pp-DDT	µg/l	10	0.0100	0.0363	0.0880	0.0255		V
Atrazine	µg/l	12	0.060	0.141	0.296	0.111	0.248	IV
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: Danube	Catchment: 817000 km2	2004
Distance from the mouth 0	Altitude: 1 m	RO07
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	620.0	1189.8	2140.0	1120.0	1680.0	
Temperature	°C	12	2.0	13.2	24.0	14.3	20.0	
Suspended solids	mg/l	12	2.0	22.9	46.0	17.0	43.8	
Dissolved oxygen	mg/l	12	5.9	8.6	11.9	8.0	6.5	II
BOD (5)	mg/l	12	1.0	2.4	4.2	2.4	3.3	II
COD (Mn)	mg/l	12	2.7	3.5	4.5	3.5	4.3	I
COD (Cr)	mg/l	6	5.0	19.3	23.6	22.0		II
TOC	mg/l							
DOC	mg/l							
pH	-	12	6.7	7.3	8.0	7.4	7.7	II
							6.8	II
Alkalinity - total	mmol/l	11	2.7	3.9	9.3	3.4	4.0	
Ammonium (NH4-N)	mg/l	12	0.020	0.419	1.490	0.277	0.853	IV
Nitrite (NO2-N)	mg/l	12	0.008	0.070	0.246	0.031	0.190	II
Nitrate (NO3-N)	mg/l	12	0.100	1.440	2.640	1.310	2.187	II
Total nitrogen	mg/l	6	1.55	2.45	3.28	2.61		II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.005	0.052	0.122	0.035	0.119	III
Total phosphorus	mg/l	12 <	0.010	0.129	0.253	0.126	0.205	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	12	358	423	524	420	441	
Calcium (Ca++)	mg/l	12	46.2	58.7	68.1	59.7	66.0	
Sulphate (SO4--)	mg/l	12 <	5.0	27.4	39.5	27.5	39.1	
Magnesium (Mg++)	mg/l	12	7.8	21.3	34.0	20.4	32.1	
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	12	0.0200	0.0501	0.1100	0.0455	0.0698	
Iron (Fe)	mg/l	12	0.060	0.327	0.794	0.354	0.611	
Chloride (Cl-)	mg/l	12 <	1.0	36.6	55.1	38.1	47.6	
Silicates (SiO2)	mg/l	12	3.72	8.03	15.36	7.60	11.08	
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12	10.00	72.00	212.00	42.00	188.30	III
Copper (Cu)	µg/l	12	4.28	13.54	46.06	10.46	19.08	II
Chromium (Cr) - total	µg/l	12	0.05	1.88	4.73	1.68	4.19	II
Lead (Pb)	µg/l	12	2.48	9.19	20.26	7.83	14.04	IV
Cadmium (Cd)	µg/l	10	0.05	0.26	0.61	0.19		II
Mercury (Hg)	µg/l	11	0.025	0.041	0.139	0.025	0.060	II
Nickel (Ni)	µg/l	12	1.09	3.24	14.63	2.12	4.04	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	8	0.0050	0.0050	0.0050	0.0050		
Anionic active surfactants (PAL-A)	mg/l	8	0.052	0.096	0.261	0.076		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	9	0.010	2.205	7.294	1.294		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	10	0.0050	0.0308	0.1120	0.0220		III
pp-DDT	µg/l	9	0.0100	0.0549	0.1640	0.0400		V
Atrazine	µg/l	11	0.071	0.128	0.294	0.112	0.188	III
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: Danube
 Distance from the mouth 0
 Location: Middle

Catchment: 817000 km2
 Altitude: 1 m
 2004
 RO07

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	620.0	1189.8	2140.0	1120.0	1680.0	
Temperature	°C	12	2.0	13.2	24.0	14.3	20.0	
Suspended solids	mg/l	12	3.0	22.7	53.0	19.5	49.8	
Dissolved oxygen	mg/l	12	5.6	8.5	11.8	8.1	6.4	II
BOD (5)	mg/l	12	1.2	2.5	4.1	2.5	3.7	II
COD (Mn)	mg/l	12	3.0	3.7	5.1	3.5	4.3	I
COD (Cr)	mg/l	6	5.0	19.4	26.0	21.3		III
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.0	7.4	7.9	7.4	7.8	II
							7.0	II
Alkalinity - total	mmol/l	11	2.7	3.4	4.0	3.2	3.8	
Ammonium (NH4-N)	mg/l	12	0.045	0.457	0.973	0.302	0.935	IV
Nitrite (NO2-N)	mg/l	12	0.008	0.041	0.118	0.033	0.080	III
Nitrate (NO3-N)	mg/l	12	0.100	1.427	2.570	1.295	2.236	II
Total nitrogen	mg/l	6	1.43	2.34	3.06	2.47		II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.005	0.064	0.130	0.068	0.118	III
Total phosphorus	mg/l	12	0.065	0.122	0.206	0.122	0.169	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	12	359	430	529	424	458	
Calcium (Ca++)	mg/l	12	38.5	59.2	84.1	58.9	68.9	
Sulphate (SO4--)	mg/l	12	< 5.0	28.5	39.8	27.9	39.8	
Magnesium (Mg++)	mg/l	12	13.1	22.6	30.4	24.7	26.7	
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	12	0.0200	0.0484	0.0720	0.0540	0.0659	
Iron (Fe)	mg/l	12	0.060	0.402	0.815	0.352	0.738	
Chloride (Cl-)	mg/l	12	< 1.0	34.3	49.7	35.2	47.6	
Silicates (SiO2)	mg/l	10	2.13	7.00	11.20	6.99		
Zinc (Zn), dissolved	µg/l	10	10.00	42.40	122.00	25.00		III
Copper (Cu), dissolved	µg/l	10	1.93	5.01	8.95	5.81		III
Chromium (Cr), total dissolved	µg/l	10	0.05	1.15	5.61	0.81		III
Lead (Pb), dissolved	µg/l	10	0.99	4.17	9.32	3.41		III
Cadmium (Cd), dissolved	µg/l	10	0.05	0.10	0.21	0.06		III
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l	10	0.53	1.65	5.42	1.00		III
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12	10.00	66.17	145.00	50.00	136.50	III
Copper (Cu)	µg/l	12	3.67	9.60	15.40	10.22	14.36	II
Chromium (Cr) - total	µg/l	12	0.16	2.87	12.49	1.52	7.86	II
Lead (Pb)	µg/l	12	1.86	10.11	28.03	7.01	16.91	IV
Cadmium (Cd)	µg/l	10	0.05	0.26	0.47	0.30		II
Mercury (Hg)	µg/l	11	0.025	0.034	0.065	0.025	0.060	II
Nickel (Ni)	µg/l	12	1.03	3.22	10.62	2.42	5.80	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	8	0.0050	0.0050	0.0050	0.0050		
Anionic active surfactants (PAL-A)	mg/l	8	0.052	0.095	0.261	0.076		
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	10	0.0060	0.0312	0.0940	0.0265		II
pp-DDT	µg/l	8	0.0100	0.0499	0.1110	0.0355		V
Atrazine	µg/l	10	0.060	0.163	0.310	0.135		IV
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: Danube	Catchment: 817000 km2	2004
Distance from the mouth 0	Altitude: 1 m	RO07
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	620.0	1189.8	2140.0	1120.0	1680.0	
Temperature	°C	12	2.0	13.2	24.0	14.3	20.0	
Suspended solids	mg/l	12	2.0	18.9	46.0	14.0	41.8	
Dissolved oxygen	mg/l	12	5.7	8.6	11.8	8.2	6.5	II
BOD (5)	mg/l	12	1.2	2.3	4.1	2.4	3.2	II
COD (Mn)	mg/l	12	2.8	3.6	4.5	3.5	4.3	I
COD (Cr)	mg/l	6	5.0	19.7	26.0	21.5		III
TOC	mg/l							
DOC	mg/l							
pH	-	12	6.7	7.4	8.0	7.4	7.8	II
							6.8	II
Alkalinity - total	mmol/l	11	2.8	3.2	3.6	3.1	3.5	
Ammonium (NH4-N)	mg/l	12	0.186	0.504	1.820	0.357	0.817	IV
Nitrite (NO2-N)	mg/l	12	0.005	0.030	0.076	0.019	0.072	III
Nitrate (NO3-N)	mg/l	12	0.100	1.385	2.910	1.225	2.187	II
Total nitrogen	mg/l	6	1.29	2.32	3.36	2.48		II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.005	0.055	0.136	0.039	0.122	III
Total phosphorus	mg/l	12	0.072	0.125	0.225	0.121	0.185	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	12	356	437	530	418	526	
Calcium (Ca++)	mg/l	12	50.0	56.5	68.1	55.0	61.9	
Sulphate (SO4--)	mg/l	12	< 5.0	28.6	40.2	30.8	39.9	
Magnesium (Mg++)	mg/l	12	15.3	22.8	31.6	22.2	31.3	
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	12	0.0200	0.0501	0.0950	0.0440	0.0873	
Iron (Fe)	mg/l	12	0.060	0.302	0.716	0.217	0.627	
Chloride (Cl-)	mg/l	12	< 1.0	37.2	49.7	41.5	47.6	
Silicates (SiO2)	mg/l	10	2.51	7.33	11.47	7.18		
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12	10.00	57.00	201.00	20.00	177.40	III
Copper (Cu)	µg/l	12	5.45	7.39	10.13	7.43	9.74	II
Chromium (Cr) - total	µg/l	12	0.36	1.74	4.32	1.37	3.12	II
Lead (Pb)	µg/l	12	1.79	8.87	28.21	6.94	13.96	IV
Cadmium (Cd)	µg/l	10	0.05	0.27	0.84	0.16		II
Mercury (Hg)	µg/l	11	0.025	0.030	0.044	0.025	0.038	II
Nickel (Ni)	µg/l	12	0.85	3.46	10.66	2.35	5.96	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	8	0.0050	0.0050	0.0050	0.0050		
Anionic active surfactants (PAL-A)	mg/l	8	0.052	0.095	0.262	0.076		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	9	0.010	1.543	3.640	1.560		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	11	0.0060	0.0364	0.1120	0.0300	0.0540	II
pp-DDT	µg/l	10	0.0100	0.0370	0.1260	0.0190		V
Atrazine	µg/l	11	0.075	0.190	0.510	0.150	0.328	IV
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: Danube	Catchment: 817000 km2	2004
Distance from the mouth 0	Altitude: 1 m	RO08
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	810.0	1685.3	2630.0	1690.0	2420.0	
Temperature	°C	11	2.0	12.9	24.0	13.5	21.0	
Suspended solids	mg/l	12	5.0	21.3	46.0	21.5	40.5	
Dissolved oxygen	mg/l	12	6.6	8.8	12.6	8.2	7.0	I
BOD (5)	mg/l	12	0.5	1.7	3.3	1.9	2.4	I
COD (Mn)	mg/l	12	2.5	3.9	5.0	4.0	4.9	I
COD (Cr)	mg/l	6	5.0	20.7	29.0	23.0		III
TOC	mg/l							
DOC	mg/l							
pH	-	12	6.3	7.3	8.0	7.5	7.7	II
							6.5	II
Alkalinity - total	mmol/l	12	2.8	3.1	3.4	3.2	3.4	
Ammonium (NH4-N)	mg/l	12	0.191	0.525	1.140	0.525	0.907	IV
Nitrite (NO2-N)	mg/l	12	0.005	0.034	0.130	0.019	0.092	III
Nitrate (NO3-N)	mg/l	12	0.644	1.471	2.610	1.205	2.299	II
Total nitrogen	mg/l	6	1.75	2.34	3.38	2.01		II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.005	0.047	0.129	0.032	0.107	III
Total phosphorus	mg/l	12	0.039	0.123	0.308	0.107	0.191	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	12	390	432	518	428	454	
Calcium (Ca++)	mg/l	12	42.3	53.4	66.1	55.1	60.9	
Sulphate (SO4--)	mg/l	12	20.5	31.0	41.0	29.2	40.1	
Magnesium (Mg++)	mg/l	12	15.0	26.9	51.0	19.4	47.5	
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	12	0.0200	0.0757	0.2800	0.0540	0.1221	
Iron (Fe)	mg/l	12	0.060	0.413	1.253	0.348	0.820	
Chloride (Cl-)	mg/l	12	27.0	38.3	55.1	35.5	42.6	
Silicates (SiO2)	mg/l	11	2.73	6.09	12.04	6.20	8.99	
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12	10.00	38.92	111.00	31.00	86.60	II
Copper (Cu)	µg/l	12	3.51	8.03	10.70	8.61	10.58	II
Chromium (Cr) - total	µg/l	12	0.09	1.92	5.54	1.60	4.30	II
Lead (Pb)	µg/l	12	2.11	9.49	22.43	5.88	22.08	IV
Cadmium (Cd)	µg/l	10	0.05	0.27	1.55	0.11		III
Mercury (Hg)	µg/l	11	0.025	0.029	0.044	0.025	0.037	II
Nickel (Ni)	µg/l	12	1.07	3.36	6.36	3.15	5.19	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	8	0.0050	0.0050	0.0050	0.0050		
Anionic active surfactants (PAL-A)	mg/l	8	0.062	0.104	0.199	0.070		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	9	0.010	2.577	8.824	1.760		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	10	0.0050	0.0246	0.0530	0.0230		II
pp-DDT	µg/l	9	0.0100	0.0421	0.1020	0.0140		V
Atrazine	µg/l	10	0.060	0.141	0.330	0.106		IV
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: Danube
 Distance from the mouth 0
 Location: Middle

Catchment: 817000 km2
 Altitude: 1 m
 2004
 RO08

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	810.0	1685.3	2630.0	1690.0	2420.0	
Temperature	°C	11	2.0	12.9	24.0	13.5	21.0	
Suspended solids	mg/l	12	3.0	24.8	57.0	20.0	51.9	
Dissolved oxygen	mg/l	12	6.7	9.0	12.4	8.3	7.2	I
BOD (5)	mg/l	12	0.8	1.8	3.4	1.9	2.3	I
COD (Mn)	mg/l	12	2.4	3.9	6.9	3.6	4.8	I
COD (Cr)	mg/l	6	5.0	19.1	26.6	22.0		III
TOC	mg/l							
DOC	mg/l							
pH	-	12	6.7	7.5	7.9	7.6	7.8	II
							7.0	II
Alkalinity - total	mmol/l	12	2.8	3.3	3.9	3.3	3.6	
Ammonium (NH4-N)	mg/l	12	0.062	0.410	1.200	0.281	0.686	IV
Nitrite (NO2-N)	mg/l	12	0.013	0.037	0.088	0.028	0.082	III
Nitrate (NO3-N)	mg/l	12	0.965	1.550	2.710	1.335	2.167	II
Total nitrogen	mg/l	6	1.49	2.32	3.32	2.23		II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.005	0.055	0.139	0.033	0.129	III
Total phosphorus	mg/l	12	0.020	0.138	0.318	0.133	0.194	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	12	370	425	514	427	453	
Calcium (Ca++)	mg/l	12	40.0	55.3	74.3	55.1	63.9	
Sulphate (SO4--)	mg/l	12	21.3	30.5	40.6	28.0	40.4	
Magnesium (Mg++)	mg/l	12	13.1	26.2	48.6	22.2	39.7	
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	12	0.0200	0.0565	0.1060	0.0595	0.0787	
Iron (Fe)	mg/l	12	0.060	0.421	0.936	0.450	0.790	
Chloride (Cl-)	mg/l	12	27.0	37.7	55.1	35.5	42.6	
Silicates (SiO2)	mg/l	12	2.78	6.71	10.63	6.36	9.81	
Zinc (Zn), dissolved	µg/l	10	10.00	14.50	41.00	10.00		III
Copper (Cu), dissolved	µg/l	10	0.33	5.80	20.00	4.23		III
Chromium (Cr), total dissolved	µg/l	10	0.05	1.71	4.17	1.29		III
Lead (Pb), dissolved	µg/l	9	1.08	3.50	7.02	3.26		III
Cadmium (Cd), dissolved	µg/l	10	0.05	0.09	0.17	0.08		III
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l	10	0.78	2.12	6.18	1.48		III
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12	10.00	41.25	151.00	20.50	113.40	III
Copper (Cu)	µg/l	12	4.11	8.32	23.16	7.11	11.22	II
Chromium (Cr) - total	µg/l	12	0.05	4.14	20.23	2.05	6.61	II
Lead (Pb)	µg/l	12	2.14	7.09	12.96	5.95	11.81	IV
Cadmium (Cd)	µg/l	10	0.05	0.41	1.20	0.36		III
Mercury (Hg)	µg/l	11	0.025	0.031	0.058	0.025	0.046	II
Nickel (Ni)	µg/l	12	1.05	3.76	13.70	2.90	6.56	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	8	0.0050	0.0050	0.0050	0.0050		
Anionic active surfactants (PAL-A)	mg/l	8	0.062	0.105	0.199	0.074		
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	10	0.0080	0.0359	0.1260	0.0295		III
pp-DDT	µg/l	9	0.0100	0.0714	0.2910	0.0400		V
Atrazine	µg/l	11	0.060	0.185	0.410	0.129	0.397	IV
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: Danube	Catchment: 817000 km2	2004
Distance from the mouth 0	Altitude: 1 m	RO08
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	810.0	1685.3	2630.0	1690.0	2420.0	
Temperature	°C	11	2.0	12.9	24.0	13.5	21.0	
Suspended solids	mg/l	12	4.0	23.1	54.0	16.5	43.0	
Dissolved oxygen	mg/l	12	6.9	9.0	12.5	8.3	7.3	I
BOD (5)	mg/l	12	0.8	1.9	3.5	2.0	2.7	I
COD (Mn)	mg/l	12	2.1	3.4	4.9	3.5	4.5	I
COD (Cr)	mg/l	6	5.0	18.9	25.0	21.0		II
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.1	7.4	7.9	7.4	7.7	II
							7.1	II
Alkalinity - total	mmol/l	12	2.5	3.2	3.9	3.2	3.7	
Ammonium (NH4-N)	mg/l	12	0.044	0.488	1.010	0.463	0.790	IV
Nitrite (NO2-N)	mg/l	12	0.009	0.034	0.113	0.022	0.081	III
Nitrate (NO3-N)	mg/l	12	0.850	1.494	2.610	1.235	2.187	II
Total nitrogen	mg/l	6	1.62	2.51	3.30	2.54		II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.005	0.061	0.241	0.032	0.137	III
Total phosphorus	mg/l	12	0.073	0.136	0.268	0.113	0.227	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	12	358	432	540	433	467	
Calcium (Ca++)	mg/l	11	37.8	53.3	74.3	54.2	60.1	
Sulphate (SO4--)	mg/l	12	19.9	31.3	40.9	31.1	40.2	
Magnesium (Mg++)	mg/l	11	13.1	25.8	53.5	20.9	37.4	
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	12	0.0200	0.0436	0.0850	0.0380	0.0716	
Iron (Fe)	mg/l	11	0.060	0.373	1.011	0.280	0.632	
Chloride (Cl-)	mg/l	12	27.0	37.8	48.2	35.5	42.6	
Silicates (SiO2)	mg/l	12	2.48	7.24	11.83	6.54	10.74	
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12	10.00	31.42	109.00	11.00	76.40	II
Copper (Cu)	µg/l	12	3.72	9.47	18.35	8.00	14.74	II
Chromium (Cr) - total	µg/l	11	0.24	4.17	19.64	2.46	7.81	II
Lead (Pb)	µg/l	12	1.02	7.78	26.19	8.06	9.69	III
Cadmium (Cd)	µg/l	10	0.05	0.38	1.62	0.20		III
Mercury (Hg)	µg/l	11	0.025	0.036	0.081	0.025	0.066	II
Nickel (Ni)	µg/l	12	1.16	4.66	18.19	2.66	9.04	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	8	0.0050	0.0050	0.0050	0.0050		
Anionic active surfactants (PAL-A)	mg/l	8	0.061	0.105	0.199	0.072		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	9	0.010	1.886	5.294	1.412		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	10	0.0100	0.0366	0.1030	0.0230		III
pp-DDT	µg/l	10	0.0100	0.0511	0.1620	0.0320		V
Atrazine	µg/l	12	0.060	0.135	0.367	0.115	0.235	IV
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: /Arges
 Distance from the mouth 0
 Location: Middle

Catchment: 12550 km2
 Altitude: 14 m
 2004
 RO09

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	9.2	44.6	129.0	43.8	67.9	
Temperature	°C	11	2.2	14.3	26.0	15.0	25.5	
Suspended solids	mg/l	11	88.0	110.6	144.0	113.0	139.0	
Dissolved oxygen	mg/l	10	6.8	9.1	11.4	9.2		II
BOD (5)	mg/l	11	3.5	4.7	6.4	4.5	6.1	III
COD (Mn)	mg/l	11	5.6	7.9	14.4	7.6	8.8	II
COD (Cr)	mg/l	11	6.8	14.1	17.7	14.7	17.2	II
TOC	mg/l							
DOC	mg/l							
pH	-	11	7.4	7.8	8.1	7.8	8.0	II
							7.5	II
Alkalinity - total	mmol/l	11	3.4	3.9	4.5	3.8	4.5	
Ammonium (NH4-N)	mg/l	11	1.160	1.894	3.820	1.430	3.300	V
Nitrite (NO2-N)	mg/l	11	0.027	0.048	0.090	0.039	0.080	III
Nitrate (NO3-N)	mg/l	11	1.680	2.283	3.000	2.190	2.680	II
Total nitrogen	mg/l	1	9.64	9.64	9.64			IV
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	11	0.100	0.138	0.190	0.130	0.160	III
Total phosphorus	mg/l	11	0.190	0.262	0.350	0.260	0.310	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	11	473	526	604	517	574	
Calcium (Ca++)	mg/l	11	68.8	79.6	91.2	80.0	89.6	
Sulphate (SO4--)	mg/l	11	91.3	105.5	117.1	105.6	114.7	
Magnesium (Mg++)	mg/l	11	21.8	24.9	29.2	24.3	26.8	
Potassium (K+)	mg/l	11	2.7	4.6	7.0	4.4	6.6	
Sodium (Na+)	mg/l	11	17.7	27.5	38.4	26.8	35.7	
Manganese (Mn)	mg/l	12	0.0350	0.1527	0.2430	0.1550	0.2392	
Iron (Fe)	mg/l	12	0.060	0.566	1.357	0.517	1.092	
Chloride (Cl-)	mg/l	11	30.2	46.8	63.9	46.0	60.4	
Silicates (SiO2)	mg/l	10	2.00	7.84	16.90	7.76		
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12	10.00	43.42	132.00	37.00	63.40	II
Copper (Cu)	µg/l	12	0.41	6.65	21.16	4.81	11.91	II
Chromium (Cr) - total	µg/l	12	0.26	3.36	11.44	2.89	6.13	II
Lead (Pb)	µg/l	12	0.72	11.77	34.90	10.67	18.34	IV
Cadmium (Cd)	µg/l	10	0.05	0.29	0.50	0.33		II
Mercury (Hg)	µg/l	1	1.035	1.035	1.035			V
Nickel (Ni)	µg/l	11	0.44	5.16	14.12	4.92	9.96	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	9	0.0050	0.0106	0.0550	0.0050		
Anionic active surfactants (PAL-A)	mg/l	8	0.047	0.058	0.073	0.057		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	1	0.010	0.010	0.010			
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	10	0.0050	0.0263	0.0540	0.0230		II
pp-DDT	µg/l	10	0.0100	0.0458	0.1810	0.0215		V
Atrazine	µg/l	12	0.087	0.187	0.509	0.161	0.287	IV
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	10	1.600	22.480	160.000	7.300		
Faecal coliforms (44 C)	1000CFU/100m	10	0.040	3.236	24.000	0.820		
Faecal streptococci	1000CFU/100m	10	0.000	0.115	0.330	0.083		
Salmonella	No/1l							

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

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

River: /Siret
 Distance from the mouth 0
 Location: Middle

Catchment: 42890 km2
 Altitude: 4 m
 2004
 RO10

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	< 0.0	121584830.2	40000153.0	159.0	40000153.0	
Temperature	°C	12	2.0	11.9	24.0	11.3	23.5	
Suspended solids	mg/l	12	6.0	84.0	290.0	62.0	176.9	
Dissolved oxygen	mg/l	12	2.3	7.7	11.7	7.5	3.7	V
BOD (5)	mg/l	12	1.2	4.0	8.4	3.3	6.1	III
COD (Mn)	mg/l	12	3.0	8.2	30.8	5.0	17.1	III
COD (Cr)	mg/l	5	26.1	39.7	54.2	41.6		IV
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.1	7.7	8.3	7.7	8.1	II
							7.1	II
Alkalinity - total	mmol/l	12	2.5	3.6	4.4	3.6	4.2	
Ammonium (NH4-N)	mg/l	12	0.143	0.846	1.720	0.737	1.496	IV
Nitrite (NO2-N)	mg/l	12	0.005	0.054	0.110	0.047	0.104	III
Nitrate (NO3-N)	mg/l	12	1.080	2.113	3.270	2.140	3.168	III
Total nitrogen	mg/l	5	2.42	3.21	4.11	3.19		III
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.005	0.058	0.231	0.022	0.149	III
Total phosphorus	mg/l	12	0.034	0.204	0.685	0.136	0.414	IV
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	12	591	720	929	676	916	
Calcium (Ca++)	mg/l	12	54.2	65.7	77.0	66.2	73.1	
Sulphate (SO4--)	mg/l	12	34.2	49.9	66.3	48.4	63.3	
Magnesium (Mg++)	mg/l	12	11.6	22.2	30.4	22.8	30.0	
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	12	0.0200	0.2773	0.9890	0.1035	0.9015	
Iron (Fe)	mg/l	12	0.060	0.771	2.304	0.503	1.814	
Chloride (Cl-)	mg/l	12	63.9	92.9	142.0	86.2	120.1	
Silicates (SiO2)	mg/l	12	3.60	7.61	14.80	6.68	11.32	
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12	10.00	41.58	90.00	35.50	72.80	II
Copper (Cu)	µg/l	12	0.31	13.88	39.34	10.13	29.01	III
Chromium (Cr) - total	µg/l	12	0.15	2.82	12.44	1.03	9.07	II
Lead (Pb)	µg/l	12	0.05	15.97	55.54	12.63	29.75	V
Cadmium (Cd)	µg/l	10	0.05	0.63	2.65	0.30		IV
Mercury (Hg)	µg/l	11	0.025	0.081	0.541	0.030	0.074	II
Nickel (Ni)	µg/l	12	0.95	7.44	18.61	7.38	12.78	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	6	0.0050	0.0050	0.0050	0.0050		
Anionic active surfactants (PAL-A)	mg/l	7	0.042	0.096	0.222	0.056		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	10	0.010	0.750	2.118	0.706		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	11	0.0050	0.0426	0.1160	0.0300	0.0780	II
pp-DDT	µg/l	9	0.0100	0.1313	0.8300	0.0320		V
Atrazine	µg/l	12	0.060	0.121	0.212	0.117	0.184	III
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: /Prut
 Distance from the mouth 0
 Location: Middle

Catchment: 27480 km2
 Altitude: 5 m
 2004
 RO11

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	< 0.0	355628500.8	59999847.0	440000153.0	19999695.0	
Temperature	°C	12	2.0	12.3	25.0	12.8	22.6	
Suspended solids	mg/l	12	4.0	63.1	245.0	45.0	127.2	
Dissolved oxygen	mg/l	12	2.0	7.9	12.7	8.0	3.6	V
BOD (5)	mg/l	12	2.3	3.5	5.3	3.3	5.0	II
COD (Mn)	mg/l	12	3.2	5.2	9.9	5.1	6.0	II
COD (Cr)	mg/l	5	26.6	45.7	59.4	49.2		IV
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.0	7.7	8.3	7.8	8.2	II
							7.2	II
Alkalinity - total	mmol/l	12	3.4	4.0	4.4	4.0	4.4	
Ammonium (NH4-N)	mg/l	12	0.146	0.971	4.000	0.770	1.355	IV
Nitrite (NO2-N)	mg/l	12	0.005	0.052	0.099	0.050	0.092	III
Nitrate (NO3-N)	mg/l	12	0.535	1.594	2.810	1.735	2.219	II
Total nitrogen	mg/l	5	1.90	2.86	3.90	2.92		II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.005	0.059	0.276	0.025	0.168	III
Total phosphorus	mg/l	12	0.043	0.184	0.576	0.146	0.372	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	12	546	688	963	628	897	
Calcium (Ca++)	mg/l	12	45.9	64.9	80.1	62.8	76.5	
Sulphate (SO4--)	mg/l	12	35.8	56.7	104.2	53.1	79.3	
Magnesium (Mg++)	mg/l	12	12.8	27.3	46.6	25.1	41.5	
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	12	0.0200	0.0888	0.2410	0.0715	0.1338	
Iron (Fe)	mg/l	12	0.060	0.527	2.003	0.400	1.100	
Chloride (Cl-)	mg/l	12	47.3	74.7	186.7	63.9	88.9	
Silicates (SiO2)	mg/l	12	2.86	5.66	12.00	4.58	8.36	
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12	10.00	34.75	89.00	30.00	64.90	II
Copper (Cu)	µg/l	12	0.05	13.24	74.90	8.95	15.21	II
Chromium (Cr) - total	µg/l	12	0.05	1.16	3.46	0.94	2.78	II
Lead (Pb)	µg/l	12	0.94	15.54	55.29	11.15	24.32	IV
Cadmium (Cd)	µg/l	10	0.05	0.48	1.53	0.38		III
Mercury (Hg)	µg/l	11	0.025	0.068	0.192	0.040	0.122	III
Nickel (Ni)	µg/l	12	0.58	4.22	9.49	3.24	8.81	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	7	0.0050	0.0050	0.0050	0.0050		
Anionic active surfactants (PAL-A)	mg/l	8	0.028	0.082	0.182	0.067		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	10	0.010	1.720	9.410	0.644		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	11	0.0050	0.0284	0.0880	0.0180	0.0530	II
pp-DDT	µg/l	9	0.0100	0.0458	0.1540	0.0250		V
Atrazine	µg/l	10	0.060	0.154	0.315	0.123		IV
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: Danube	Catchment: 580100 km2	2004
Distance from the mouth 834	Altitude: 35 m	BG01
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	11	2.8	14.0	22.8	14.8	22.5	
Suspended solids	mg/l							
Dissolved oxygen	mg/l	11	5.7	8.0	11.4	7.7	6.2	II
BOD (5)	mg/l	11	1.8	2.7	4.5	2.4	3.2	II
COD (Mn)	mg/l	11	2.3	3.5	5.0	3.5	4.5	I
COD (Cr)	mg/l	11	7.1	11.1	16.2	11.7	15.0	II
TOC	mg/l							
DOC	mg/l							
pH	-	11	7.9	8.4	8.6	8.4	8.6	III
							8.1	II
Alkalinity - total	mmol/l	11	2.9	3.1	3.5	3.1	3.3	
Ammonium (NH4-N)	mg/l	11	0.073	0.184	0.294	0.186	0.271	II
Nitrite (NO2-N)	mg/l	11 <	0.002	0.022	0.029	0.024	0.027	II
Nitrate (NO3-N)	mg/l	11	0.464	1.169	2.540	0.940	2.108	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	11	0.030	0.088	0.347	0.064	0.103	III
Total phosphorus	mg/l	11	0.047	0.126	0.402	0.108	0.134	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	11	3.3	8.1	32.0	5.6	10.7	I
Conductivity	µS/cm	11	348	388	426	382	420	
Calcium (Ca++)	mg/l	11	42.1	49.6	54.1	50.1	54.1	
Sulphate (SO4--)	mg/l	11	26.8	34.0	40.5	35.9	39.2	
Magnesium (Mg++)	mg/l	11	10.9	16.2	29.2	15.8	19.5	
Potassium (K+)	mg/l	11	0.9	2.1	3.2	2.3	2.7	
Sodium (Na+)	mg/l	11	10.0	12.6	16.5	12.5	14.5	
Manganese (Mn)	mg/l	11	0.0050	0.0109	0.0310	0.0070	0.0230	
Iron (Fe)	mg/l	11	0.036	0.150	0.438	0.067	0.394	
Chloride (Cl-)	mg/l	11	16.2	20.1	24.4	20.3	23.1	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	11	7.00	25.55	64.00	22.00	41.00	II
Copper (Cu)	µg/l	11	4.00	10.00	49.00	7.00	10.00	II
Chromium (Cr) - total	µg/l	11 <	10.00 <	10.00 <	10.00	10.00	10.00	II
Lead (Pb)	µg/l	11 <	1.00	1.36	5.00	1.00	1.00	II
Cadmium (Cd)	µg/l	11 <	1.00 <	1.00 <	1.00	1.00	1.00	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	11 <	1.00	2.64	5.00	2.00	4.00	II
Arsenic (As)	µg/l	11	1.10	3.79	14.00	2.00	10.00	III
Aluminium (Al)	µg/l							
Phenol index	mg/l	11	0.0020	0.0044	0.0230	0.0020	0.0060	
Anionic active surfactants (PAL-A)	mg/l	11 <	0.010	0.036	0.180	0.010	0.107	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	11 <	0.100	0.118	0.300	0.100	0.100	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	11	0.0100	0.0100	0.0100	0.0100	0.0100	I
pp-DDT	µg/l	11	0.0100	0.0100	0.0100	0.0100	0.0100	II
Atrazine	µg/l	11	0.003	0.046	0.151	0.019	0.129	III
Chloroform	µg/l	11	0.05	7.26	43.20	0.66	11.49	V
Carbon tetrachloride	µg/l	11 <	0.02	0.11	0.37	0.02	0.26	II
Trichloroethylene	µg/l	11 <	0.02 <	0.02 <	0.02	0.02	0.02	I
Tetrachloroethylene	µg/l	11 <	0.02	0.02	0.03	0.02	0.02	I
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	11	0.019	0.732	2.100	0.370	1.900	
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m	11	0.000	32.909	150.000	20.000	80.000	
Salmonella	No/1l	11	0.0	0.0	0.0	0.0	0.0	

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

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

River: Danube	Catchment: 580100 km2	2004
Distance from the mouth 834	Altitude: 35 m	BG01
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	11	3.2	13.9	22.8	14.9	22.7	
Suspended solids	mg/l							
Dissolved oxygen	mg/l	11	5.6	8.0	11.2	7.8	6.5	II
BOD (5)	mg/l	11	2.0	2.7	4.4	2.4	4.1	II
COD (Mn)	mg/l	11	2.6	3.8	6.2	3.5	5.5	II
COD (Cr)	mg/l	11	7.5	14.2	39.9	10.8	18.7	II
TOC	mg/l							
DOC	mg/l							
pH	-	11	7.9	8.3	8.6	8.4	8.5	II
							8.1	II
Alkalinity - total	mmol/l	11	2.9	3.1	3.3	3.1	3.3	
Ammonium (NH4-N)	mg/l	11	0.083	0.190	0.298	0.166	0.289	II
Nitrite (NO2-N)	mg/l	11	0.020	0.025	0.035	0.025	0.028	II
Nitrate (NO3-N)	mg/l	11	0.470	1.248	2.650	1.021	2.033	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	11	0.035	0.071	0.138	0.068	0.113	III
Total phosphorus	mg/l	11	0.051	0.166	0.441	0.115	0.345	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	11	2.7	8.2	15.4	7.4	14.2	I
Conductivity	µS/cm	11	349	389	427	383	422	
Calcium (Ca++)	mg/l	11	44.1	50.1	56.1	50.1	54.1	
Sulphate (SO4--)	mg/l	11	27.1	34.4	41.5	36.4	39.2	
Magnesium (Mg++)	mg/l	11	10.9	16.3	27.9	14.6	20.7	
Potassium (K+)	mg/l	11	1.0	2.2	3.5	2.3	2.6	
Sodium (Na+)	mg/l	11	9.8	12.6	16.7	12.6	14.3	
Manganese (Mn)	mg/l	11	0.0010	0.0115	0.0350	0.0070	0.0280	
Iron (Fe)	mg/l	11	0.037	0.127	0.450	0.066	0.223	
Chloride (Cl-)	mg/l	11	15.8	20.2	24.8	20.6	23.4	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	11	7.00	19.64	44.00	17.00	30.00	II
Copper (Cu)	µg/l	11	5.00	10.91	48.00	6.00	19.00	II
Chromium (Cr) - total	µg/l	11	< 10.00	< 10.00	< 10.00	10.00	10.00	II
Lead (Pb)	µg/l	11	< 1.00	1.36	5.00	1.00	1.00	II
Cadmium (Cd)	µg/l	11	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	11	< 1.00	2.00	5.00	1.00	4.00	II
Arsenic (As)	µg/l	11	1.20	3.75	14.00	2.00	11.00	IV
Aluminium (Al)	µg/l							
Phenol index	mg/l	11	0.0020	0.0021	0.0030	0.0020	0.0020	
Anionic active surfactants (PAL-A)	mg/l	11	< 0.010	0.055	0.430	0.010	0.076	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	11	< 0.100	0.164	0.300	0.100	0.300	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	11	0.0100	0.0100	0.0100	0.0100	0.0100	I
pp-DDT	µg/l	11	0.0100	0.0100	0.0100	0.0100	0.0100	II
Atrazine	µg/l	11	0.003	0.043	0.127	0.021	0.125	III
Chloroform	µg/l	11	0.03	4.67	20.37	0.16	11.80	V
Carbon tetrachloride	µg/l	11	< 0.02	0.13	0.63	0.02	0.26	II
Trichloroethylene	µg/l	11	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Tetrachloroethylene	µg/l	11	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	11	0.028	0.920	2.700	0.900	2.000	
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m	11	0.000	18.000	60.000	15.000	50.000	
Salmonella	No/1l	11	0.0	0.0	0.0	0.0	0.0	

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

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

River: Danube	Catchment: 580100 km2	2004
Distance from the mouth 834	Altitude: 35 m	BG01
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	12	2.8	13.0	22.8	14.1	22.6	
Suspended solids	mg/l							
Dissolved oxygen	mg/l	12	6.4	8.3	11.3	7.9	6.4	II
BOD (5)	mg/l	12	1.8	2.7	4.7	2.6	3.3	II
COD (Mn)	mg/l	12	2.1	3.6	5.4	3.6	4.8	I
COD (Cr)	mg/l	12	6.7	14.7	36.2	11.9	22.0	II
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.9	8.3	8.7	8.3	8.5	II
							8.1	II
Alkalinity - total	mmol/l	12	2.8	3.2	3.8	3.2	3.3	
Ammonium (NH4-N)	mg/l	12	0.086	0.191	0.312	0.191	0.288	II
Nitrite (NO2-N)	mg/l	12	0.016	0.025	0.032	0.027	0.029	II
Nitrate (NO3-N)	mg/l	12	0.744	1.446	3.450	1.032	2.330	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.033	0.116	0.318	0.078	0.257	IV
Total phosphorus	mg/l	12	0.043	0.184	0.566	0.141	0.310	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	12	1.2	10.9	30.2	9.9	15.9	I
Conductivity	µS/cm	12	360	407	498	396	436	
Calcium (Ca++)	mg/l	12	44.1	52.1	60.1	53.1	59.9	
Sulphate (SO4--)	mg/l	12	31.2	39.6	50.0	39.3	48.8	
Magnesium (Mg++)	mg/l	12	10.9	16.4	19.5	16.5	19.5	
Potassium (K+)	mg/l	12	0.9	2.3	3.4	2.5	3.0	
Sodium (Na+)	mg/l	12	10.0	12.8	16.9	12.7	15.6	
Manganese (Mn)	mg/l	12	0.0050	0.0141	0.0360	0.0135	0.0251	
Iron (Fe)	mg/l	12	0.038	0.146	0.524	0.088	0.247	
Chloride (Cl-)	mg/l	12	15.5	20.6	24.8	20.3	24.4	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12	15.00	24.83	49.00	23.00	30.90	II
Copper (Cu)	µg/l	12	6.00	18.67	91.00	10.50	25.50	III
Chromium (Cr) - total	µg/l	12	< 10.00	< 10.00	< 10.00	10.00	10.00	II
Lead (Pb)	µg/l	12	< 1.00	2.00	5.00	1.00	5.00	II
Cadmium (Cd)	µg/l	12	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	12	< 1.00	2.42	5.00	2.00	4.00	II
Arsenic (As)	µg/l	12	0.60	3.40	12.00	2.05	9.26	III
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0020	0.0044	0.0230	0.0020	0.0092	
Anionic active surfactants (PAL-A)	mg/l	12	< 0.010	0.077	0.640	0.022	0.058	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	0.100	0.225	0.300	0.200	0.300	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.0100	0.0100	0.0100	0.0100	0.0100	I
pp-DDT	µg/l	12	0.0100	0.0100	0.0100	0.0100	0.0100	II
Atrazine	µg/l	12	0.002	0.040	0.134	0.020	0.087	II
Chloroform	µg/l	11	< 0.02	4.36	24.43	0.54	11.51	V
Carbon tetrachloride	µg/l	12	< 0.02	0.08	0.32	0.02	0.23	II
Trichloroethylene	µg/l	12	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Tetrachloroethylene	µg/l	12	< 0.02	0.02	0.02	0.02	0.02	I
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	0.005	0.472	1.300	0.235	1.190	
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m	12	0.000	16.083	50.000	10.500	39.500	
Salmonella	No/1l	12	0.0	0.0	0.0	0.0	0.0	

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

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

River: Danube	Catchment: 608820 km2	2004
Distance from the mouth 641	Altitude: 20 m	BG02
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	12	3.4	15.9	26.5	17.4	25.5	
Suspended solids	mg/l							
Dissolved oxygen	mg/l	12	2.4	7.1	14.2	4.8	3.2	V
BOD (5)	mg/l	12	1.0	2.7	4.4	2.9	3.9	II
COD (Mn)	mg/l	12	2.4	5.3	8.9	5.4	8.0	II
COD (Cr)	mg/l	10	6.5	11.0	18.1	10.4		II
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.2	7.6	8.3	7.5	8.0	II
							7.2	II
Alkalinity - total	mmol/l	12	2.1	2.9	4.4	2.7	3.6	
Ammonium (NH4-N)	mg/l	12	0.010	0.183	0.400	0.200	0.300	II
Nitrite (NO2-N)	mg/l	12	0.002	0.021	0.032	0.023	0.026	II
Nitrate (NO3-N)	mg/l	12	0.130	0.977	2.460	0.810	2.169	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12 <	0.020	0.061	0.160	0.050	0.123	III
Total phosphorus	mg/l	12	0.030	0.103	0.210	0.100	0.192	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	11 <	0.1	8.1	32.6	4.4	22.2	I
Conductivity	µS/cm	12	314	360	410	359	386	
Calcium (Ca++)	mg/l	12	22.4	41.9	56.5	42.6	54.9	
Sulphate (SO4--)	mg/l	12	13.7	31.0	42.7	32.5	36.5	
Magnesium (Mg++)	mg/l	12	8.3	13.1	20.9	11.6	17.2	
Potassium (K+)	mg/l	12	2.2	3.3	6.9	2.8	4.5	
Sodium (Na+)	mg/l	12	10.3	13.9	17.2	14.4	16.9	
Manganese (Mn)	mg/l	12	0.0010	0.0108	0.0240	0.0100	0.0207	
Iron (Fe)	mg/l	12 <	0.010	0.129	0.600	0.070	0.344	
Chloride (Cl-)	mg/l	12	10.0	31.8	53.0	30.6	50.0	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12	5.00	24.67	70.00	16.00	47.50	II
Copper (Cu)	µg/l	12	2.00	6.42	17.00	5.00	12.60	II
Chromium (Cr) - total	µg/l	12 <	10.00 <	10.00 <	10.00	10.00	10.00	II
Lead (Pb)	µg/l	12 <	1.00	2.58	6.00	2.50	4.00	II
Cadmium (Cd)	µg/l	12 <	1.00	1.17	3.00	1.00	1.00	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	12 <	1.00	2.33	6.00	2.00	4.00	II
Arsenic (As)	µg/l	12	1.30	3.67	18.00	2.35	3.63	II
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0020	0.0020	0.0020	0.0020	0.0020	
Anionic active surfactants (PAL-A)	mg/l	12 <	0.010 <	0.010	0.010	0.010	0.010	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12 <	0.100	0.100	0.100	0.100	0.100	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	9	0.0100	0.0100	0.0100	0.0100		I
pp-DDT	µg/l	9	0.0100	0.0100	0.0100	0.0100		II
Atrazine	µg/l							
Chloroform	µg/l	9 <	0.02 <	0.02 <	0.02	0.02		I
Carbon tetrachloride	µg/l	8 <	0.02 <	0.02 <	0.02	0.02		I
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l	1 <	0.02 <	0.02 <	0.02			I
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: Danube	Catchment: 650340 km2	2004
Distance from the mouth 554	Altitude: 16 m	BG03
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	12	3.8	16.0	27.0	13.6	25.9	
Suspended solids	mg/l							
Dissolved oxygen	mg/l	13	8.0	10.5	16.5	10.8	8.2	I
BOD (5)	mg/l	13	1.1	2.1	3.4	1.9	3.2	II
COD (Mn)	mg/l	13	2.3	3.3	4.7	3.4	4.2	I
COD (Cr)	mg/l							
TOC	mg/l							
DOC	mg/l							
pH	-	13	7.5	8.1	8.7	8.1	8.5	II
							8.0	II
Alkalinity - total	mmol/l	13	0.5	2.7	3.4	3.0	3.4	
Ammonium (NH4-N)	mg/l	13 <	0.010	0.059	0.170	0.048	0.139	I
Nitrite (NO2-N)	mg/l	13 <	0.002	0.006	0.017	0.005	0.014	II
Nitrate (NO3-N)	mg/l	13	0.290	1.192	1.990	1.110	1.580	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	13 <	0.020	0.058	0.100	0.060	0.090	II
Total phosphorus	mg/l	13 <	0.020	0.143	0.430	0.110	0.320	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	13	293	343	384	344	376	
Calcium (Ca++)	mg/l	13	26.1	44.6	64.2	44.0	58.0	
Sulphate (SO4--)	mg/l	13	17.0	31.3	44.9	32.1	41.5	
Magnesium (Mg++)	mg/l	13	4.9	16.9	43.8	11.6	28.4	
Potassium (K+)	mg/l	13	2.4	3.0	4.0	2.9	3.7	
Sodium (Na+)	mg/l	13	10.8	14.6	20.4	14.5	17.5	
Manganese (Mn)	mg/l	13	0.0010	0.0077	0.0300	0.0050	0.0172	
Iron (Fe)	mg/l	13 <	0.010	0.290	0.810	0.180	0.516	
Chloride (Cl-)	mg/l							
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	13 <	1.00	7.69	30.00	5.00	17.20	II
Copper (Cu)	µg/l	13	3.00	5.92	13.00	5.00	7.80	II
Chromium (Cr) - total	µg/l	13 <	10.00 <	10.00 <	10.00	10.00	10.00	II
Lead (Pb)	µg/l	13 <	1.00	2.38	6.00	2.00	4.00	II
Cadmium (Cd)	µg/l	13 <	1.00 <	1.00 <	1.00	1.00	1.00	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	13 <	1.00	2.69	8.00	2.00	5.40	II
Arsenic (As)	µg/l	13	2.00	3.23	4.00	3.00	4.00	II
Aluminium (Al)	µg/l							
Phenol index	mg/l	4	0.0020	0.0020	0.0020	0.0020		
Anionic active surfactants (PAL-A)	mg/l	3 <	0.010	0.023	0.050			
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: Danube	Catchment: 669900 km2	2004
Distance from the mouth 503	Altitude: 12 m	BG04
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class	
Flow	m3/s								
Temperature	°C	11	3.2	14.7	24.2	17.1	23.9		
Suspended solids	mg/l								
Dissolved oxygen	mg/l	11	7.1	8.8	11.6	8.5	7.3	I	
BOD (5)	mg/l	11	1.8	2.7	3.8	2.6	3.3	II	
COD (Mn)	mg/l	11	3.4	4.1	5.3	4.0	4.9	I	
COD (Cr)	mg/l	11	10.0	11.3	13.0	11.0	13.0	II	
TOC	mg/l								
DOC	mg/l								
pH	-	11	7.9	8.1	8.5	8.1	8.3	II	
							7.9	II	
Alkalinity - total	mmol/l	11	1.4	1.5	1.7	1.6	1.6		
Ammonium (NH4-N)	mg/l	11	0.030	0.074	0.190	0.070	0.116	I	
Nitrite (NO2-N)	mg/l	11	0.009	0.021	0.036	0.022	0.025	II	
Nitrate (NO3-N)	mg/l	11	0.740	1.452	2.680	1.300	2.140	II	
Total nitrogen	mg/l	9	2.29	2.94	4.10	2.87		III	
Organic nitrogen	mg/l	11	1.00	1.44	1.74	1.43	1.64		
Orthophosphate (PO4-P)	mg/l	11	0.026	0.078	0.144	0.070	0.126	III	
Total phosphorus	mg/l	11	0.040	0.182	0.414	0.142	0.289	III	
Total phosphorus, dissolved	mg/l								
Chlorophyll A	µg/l	11	1.7	17.9	70.0	3.4	65.6	III	
Conductivity	µS/cm	11	327	394	450	393	449		
Calcium (Ca++)	mg/l	11	47.5	56.0	65.1	54.4	62.1		
Sulphate (SO4--)	mg/l	11	19.7	33.2	43.0	35.3	40.7		
Magnesium (Mg++)	mg/l	11	11.8	14.6	19.0	14.1	17.1		
Potassium (K+)	mg/l	11	2.0	2.6	2.9	2.6	2.9		
Sodium (Na+)	mg/l	11	10.6	13.6	17.4	13.1	16.8		
Manganese (Mn)	mg/l	11	0.0010	0.0358	0.0540	0.0360	0.0530		
Iron (Fe)	mg/l	11	0.146	0.414	0.685	0.421	0.645		
Chloride (Cl-)	mg/l	11	21.3	26.2	34.9	25.4	31.9		
Silicates (SiO2)	mg/l								
Zinc (Zn), dissolved	µg/l								
Copper (Cu), dissolved	µg/l								
Chromium (Cr), total dissolved	µg/l								
Lead (Pb), dissolved	µg/l								
Cadmium (Cd), dissolved	µg/l								
Mercury (Hg), dissolved	µg/l								
Nickel (Ni), dissolved	µg/l								
Arsenic (As), dissolved	µg/l								
Aluminium (Al), dissolved	µg/l								
Zinc (Zn)	µg/l	11	<	1.00	13.18	34.00	10.00	25.00	II
Copper (Cu)	µg/l	11	<	1.00	3.18	15.00	1.00	11.00	II
Chromium (Cr) - total	µg/l	3	<	10.00	<	10.00	<	10.00	II
Lead (Pb)	µg/l	11	<	1.00	1.18	3.00	1.00	1.00	II
Cadmium (Cd)	µg/l	11	<	1.00	2.00	12.00	1.00	1.00	II
Mercury (Hg)	µg/l								
Nickel (Ni)	µg/l	11	<	1.00	<	1.00	<	1.00	II
Arsenic (As)	µg/l								
Aluminium (Al)	µg/l	11	<	20.00	45.36	154.00	35.00	54.00	
Phenol index	mg/l	11		0.0020	0.0020	0.0020	0.0020	0.0020	
Anionic active surfactants (PAL-A)	mg/l	11	<	0.010	0.011	0.023	0.010	0.010	
AOX	µg/l								
Petroleum hydrocarbons	mg/l	2	<	0.100	<	0.100	:	0.100	
PAHs (Borneff 6)	µg/l								
PCBs (7 congeners)	µg/l								
Lindane (gama-HCH)	µg/l	11		0.0100	0.0100	0.0100	0.0100	0.0100	I
pp-DDT	µg/l	11		0.0100	0.0100	0.0100	0.0100	0.0100	II
Atrazine	µg/l	11		0.011	0.021	0.044	0.015	0.039	II
Chloroform	µg/l								
Carbon tetrachloride	µg/l								
Trichloroethylene	µg/l								
Tetrachloroethylene	µg/l								
Macrozoobenthos sapr. index	-								
Macrozoobenthos no. of taxa	-								
Total coliforms (37 C)	1000CFU/100m	10		0.100	0.671	1.700	0.605		
Faecal coliforms (44 C)	1000CFU/100m								
Faecal streptococci	1000CFU/100m	10		0.000	49.700	180.000	37.500		
Salmonella	No/1l	10		0.0	0.0	0.0	0.0		

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

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

River: Danube	Catchment: 698600 km2	2004
Distance from the mouth 375	Altitude: 7 m	BG05
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	11	3.7	15.0	25.0	16.0	24.8	
Suspended solids	mg/l							
Dissolved oxygen	mg/l	11	7.6	9.1	11.0	8.9	7.8	I
BOD (5)	mg/l	11	2.5	3.2	4.1	3.2	3.6	II
COD (Mn)	mg/l	11	3.9	4.6	5.5	4.3	5.2	II
COD (Cr)	mg/l	11	10.0	12.5	17.0	12.0	16.0	II
TOC	mg/l							
DOC	mg/l							
pH	-	11	7.8	8.1	8.4	8.0	8.4	II
							7.8	II
Alkalinity - total	mmol/l	11	1.3	1.5	1.6	1.6	1.6	
Ammonium (NH4-N)	mg/l	11	0.079	0.152	0.321	0.138	0.222	II
Nitrite (NO2-N)	mg/l	11	0.011	0.023	0.035	0.022	0.031	II
Nitrate (NO3-N)	mg/l	11	0.685	1.265	2.080	1.100	2.070	II
Total nitrogen	mg/l	9	2.21	2.88	3.56	2.85		II
Organic nitrogen	mg/l	11	1.12	1.63	2.31	1.56	1.91	
Orthophosphate (PO4-P)	mg/l	11	0.026	0.077	0.141	0.070	0.113	III
Total phosphorus	mg/l	11	0.060	0.174	0.275	0.148	0.257	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	11	2.0	10.5	24.3	9.9	21.1	I
Conductivity	µS/cm	11	325	411	520	397	467	
Calcium (Ca++)	mg/l	11	43.7	55.0	72.1	54.7	64.1	
Sulphate (SO4--)	mg/l	11	26.8	32.4	39.4	31.4	36.9	
Magnesium (Mg++)	mg/l	11	12.0	15.9	22.6	15.1	22.5	
Potassium (K+)	mg/l	11	1.9	2.7	3.1	2.9	3.1	
Sodium (Na+)	mg/l	11	11.9	15.9	21.3	16.6	21.3	
Manganese (Mn)	mg/l	11	0.0210	0.0488	0.1340	0.0340	0.0730	
Iron (Fe)	mg/l	11	0.339	0.775	2.040	0.714	1.110	
Chloride (Cl-)	mg/l	11	21.3	27.2	37.6	26.9	32.7	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	11	< 1.00	29.91	91.00	21.00	55.00	II
Copper (Cu)	µg/l	11	< 1.00	3.27	14.00	1.00	13.00	II
Chromium (Cr) - total	µg/l	3	< 10.00	< 10.00	< 10.00			II
Lead (Pb)	µg/l	11	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Cadmium (Cd)	µg/l	11	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	11	< 1.00	3.18	25.00	1.00	1.00	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l	11	< 20.00	45.91	123.00	40.00	80.00	
Phenol index	mg/l	11	0.0020	0.0020	0.0020	0.0020	0.0020	
Anionic active surfactants (PAL-A)	mg/l	11	< 0.010	0.010	0.015	0.010	0.010	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	2	< 0.100	0.105	0.110			
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	11	0.0100	0.0100	0.0100	0.0100	0.0100	I
pp-DDT	µg/l	11	0.0100	0.0100	0.0100	0.0100	0.0100	II
Atrazine	µg/l	11	0.013	0.036	0.078	0.024	0.075	II
Chloroform	µg/l	11	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Carbon tetrachloride	µg/l	11	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Trichloroethylene	µg/l	11	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Tetrachloroethylene	µg/l	11	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	11	0.000	0.854	1.990	0.760	1.600	
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m	11	0.000	114.091	380.000	80.000	340.000	
Salmonella	No/1l	11	0.0	0.0	0.0	0.0	0.0	

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

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

River: Danube	Catchment: 698600 km2	2004
Distance from the mouth 375	Altitude: 7 m	BG05
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	11	3.6	15.0	25.1	16.0	24.7	
Suspended solids	mg/l							
Dissolved oxygen	mg/l	11	7.4	9.1	11.2	8.7	8.3	I
BOD (5)	mg/l	11	2.2	3.0	4.0	3.0	3.4	II
COD (Mn)	mg/l	11	3.9	4.3	5.2	4.2	5.1	II
COD (Cr)	mg/l	11	10.0	11.9	16.0	11.0	14.0	II
TOC	mg/l							
DOC	mg/l							
pH	-	11	7.9	8.1	8.5	8.0	8.4	II
							7.9	II
Alkalinity - total	mmol/l	11	1.4	1.5	1.6	1.5	1.6	
Ammonium (NH4-N)	mg/l	11 <	0.010	0.071	0.147	0.063	0.133	I
Nitrite (NO2-N)	mg/l	11	0.008	0.019	0.029	0.018	0.027	II
Nitrate (NO3-N)	mg/l	11	0.737	1.386	2.380	1.300	2.210	II
Total nitrogen	mg/l	9	2.45	2.89	3.44	2.79		II
Organic nitrogen	mg/l	11	1.10	1.58	2.00	1.52	1.90	
Orthophosphate (PO4-P)	mg/l	11	0.035	0.075	0.123	0.083	0.107	III
Total phosphorus	mg/l	11	0.076	0.170	0.264	0.162	0.226	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	11	1.8	11.3	28.9	11.2	27.3	II
Conductivity	µS/cm	11	320	390	441	392	440	
Calcium (Ca++)	mg/l	11	46.1	53.0	69.9	51.2	57.7	
Sulphate (SO4--)	mg/l	11	26.6	32.0	41.5	30.8	39.8	
Magnesium (Mg++)	mg/l	11	11.4	14.0	17.3	14.0	16.2	
Potassium (K+)	mg/l	11	1.8	2.6	3.2	2.7	2.9	
Sodium (Na+)	mg/l	11	11.0	13.9	19.7	14.3	16.1	
Manganese (Mn)	mg/l	11	0.0010	0.0424	0.1060	0.0330	0.0720	
Iron (Fe)	mg/l	11	0.176	0.680	1.440	0.475	1.270	
Chloride (Cl-)	mg/l	11	21.3	26.8	34.7	26.9	30.5	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	11 <	1.00	21.00	57.00	18.00	51.00	II
Copper (Cu)	µg/l	11 <	1.00	4.09	16.00	1.00	12.00	II
Chromium (Cr) - total	µg/l	3 <	10.00 <	10.00 <	10.00			II
Lead (Pb)	µg/l	11 <	1.00 <	1.00 <	1.00	1.00	1.00	II
Cadmium (Cd)	µg/l	11 <	1.00 <	1.00 <	1.00	1.00	1.00	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	11 <	1.00	2.82	21.00	1.00	1.00	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l	11	20.00	36.73	63.00	32.00	58.00	
Phenol index	mg/l	11	0.0020	0.0020	0.0020	0.0020	0.0020	
Anionic active surfactants (PAL-A)	mg/l	11 <	0.010	0.011	0.018	0.010	0.010	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	2 <	0.100	0.103	0.105			
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	11	0.0100	0.0100	0.0100	0.0100	0.0100	I
pp-DDT	µg/l	11	0.0100	0.0100	0.0100	0.0100	0.0100	II
Atrazine	µg/l	11	0.014	0.035	0.071	0.022	0.071	II
Chloroform	µg/l	11 <	0.02 <	0.02 <	0.02	0.02	0.02	I
Carbon tetrachloride	µg/l	11 <	0.02 <	0.02 <	0.02	0.02	0.02	I
Trichloroethylene	µg/l	11 <	0.02 <	0.02 <	0.02	0.02	0.02	I
Tetrachloroethylene	µg/l	11 <	0.02 <	0.02 <	0.02	0.02	0.02	I
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	10	0.220	1.052	3.600	0.620		
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m	10	0.000	58.800	240.000	10.500		
Salmonella	No/1l	11	0.0	0.0	0.0	0.0	0.0	

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

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

River: Danube	Catchment: 698600 km2	2004
Distance from the mouth 375	Altitude: 7 m	BG05
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	11	3.6	15.0	25.0	16.0	24.7	
Suspended solids	mg/l							
Dissolved oxygen	mg/l	11	6.9	8.9	11.6	8.5	7.0	I
BOD (5)	mg/l	11	2.2	2.9	3.5	3.0	3.5	II
COD (Mn)	mg/l	11	4.0	4.5	5.7	4.4	5.4	II
COD (Cr)	mg/l	11	10.0	12.9	17.0	12.0	16.0	II
TOC	mg/l							
DOC	mg/l							
pH	-	11	7.9	8.1	8.5	8.0	8.3	II
							7.9	II
Alkalinity - total	mmol/l	11	1.4	1.6	1.7	1.6	1.7	
Ammonium (NH4-N)	mg/l	11 <	0.010	0.074	0.156	0.058	0.142	I
Nitrite (NO2-N)	mg/l	11	0.011	0.020	0.030	0.018	0.030	II
Nitrate (NO3-N)	mg/l	11	0.771	1.435	2.440	1.140	2.360	II
Total nitrogen	mg/l	9	2.57	3.00	3.73	2.89		II
Organic nitrogen	mg/l	11	1.10	1.65	2.59	1.66	1.84	
Orthophosphate (PO4-P)	mg/l	11	0.020	0.071	0.147	0.063	0.106	III
Total phosphorus	mg/l	11	0.050	0.164	0.271	0.151	0.249	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	11	1.0	10.8	31.0	4.3	25.6	II
Conductivity	µS/cm	11	320	384	428	383	424	
Calcium (Ca++)	mg/l	11	47.3	53.0	61.3	52.6	60.9	
Sulphate (SO4--)	mg/l	11	24.9	32.4	41.9	30.5	39.9	
Magnesium (Mg++)	mg/l	11	12.0	13.9	18.1	13.7	14.6	
Potassium (K+)	mg/l	11	1.8	2.5	2.8	2.6	2.7	
Sodium (Na+)	mg/l	11	10.5	12.7	16.0	12.9	14.5	
Manganese (Mn)	mg/l	11	0.0010	0.0327	0.0740	0.0240	0.0730	
Iron (Fe)	mg/l	11	0.236	0.620	1.190	0.617	1.140	
Chloride (Cl-)	mg/l	11	21.3	26.0	29.1	26.2	29.1	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	11 <	1.00	23.27	56.00	24.00	39.00	II
Copper (Cu)	µg/l	11 <	1.00	2.55	12.00	1.00	7.00	II
Chromium (Cr) - total	µg/l	3 <	10.00 <	10.00 <	10.00			II
Lead (Pb)	µg/l	11 <	1.00 <	1.00 <	1.00	1.00	1.00	II
Cadmium (Cd)	µg/l	11 <	1.00 <	1.00 <	1.00	1.00	1.00	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	11 <	1.00	2.73	20.00	1.00	1.00	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l	11	20.00	36.18	73.00	29.00	49.00	
Phenol index	mg/l	11	0.0020	0.0020	0.0020	0.0020	0.0020	
Anionic active surfactants (PAL-A)	mg/l	11 <	0.010	0.011	0.017	0.010	0.010	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	2 <	0.100	0.103	0.105			
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	11	0.0100	0.0100	0.0100	0.0100	0.0100	I
pp-DDT	µg/l	11	0.0100	0.0100	0.0100	0.0100	0.0100	II
Atrazine	µg/l	11	0.013	0.033	0.075	0.020	0.072	II
Chloroform	µg/l	11 <	0.02 <	0.02 <	0.02	0.02	0.02	I
Carbon tetrachloride	µg/l	11 <	0.02 <	0.02 <	0.02	0.02	0.02	I
Trichloroethylene	µg/l	11 <	0.02 <	0.02 <	0.02	0.02	0.02	I
Tetrachloroethylene	µg/l	11 <	0.02 <	0.02 <	0.02	0.02	0.02	I
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	11	0.150	1.170	2.900	0.680	2.400	
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m	11	0.000	77.000	260.000	65.000	220.000	
Salmonella	No/1l	11	0.0	0.0	0.0	0.0	0.0	

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

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

River: /Jantra	Catchment: 6860 km2	2004
Distance from the mouth 12	Altitude: 32 m	BG07
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	13	0.0	13.7	27.0	12.0	23.8	
Suspended solids	mg/l							
Dissolved oxygen	mg/l	13	6.0	9.9	18.0	8.8	7.3	I
BOD (5)	mg/l	13	1.3	2.7	4.9	2.7	4.1	II
COD (Mn)	mg/l	13	3.1	5.4	12.7	4.8	6.1	II
COD (Cr)	mg/l							
TOC	mg/l							
DOC	mg/l							
pH	-	13	7.4	8.0	8.3	8.0	8.2	II
							7.8	II
Alkalinity - total	mmol/l	13	2.8	4.0	6.2	3.6	5.2	
Ammonium (NH4-N)	mg/l	13 <	0.010	0.076	0.170	0.057	0.156	I
Nitrite (NO2-N)	mg/l	13 <	0.002	0.008	0.019	0.006	0.016	II
Nitrate (NO3-N)	mg/l	13	0.510	1.705	3.000	1.640	2.710	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12 <	0.020	0.229	0.480	0.225	0.414	IV
Total phosphorus	mg/l	12	0.030	0.377	0.668	0.412	0.575	IV
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	13	258	414	536	410	496	
Calcium (Ca++)	mg/l	13	32.1	56.1	88.2	56.9	77.3	
Sulphate (SO4--)	mg/l	13	17.2	34.2	52.0	34.8	44.8	
Magnesium (Mg++)	mg/l	13	4.9	17.6	38.8	17.5	24.8	
Potassium (K+)	mg/l	13	3.1	4.8	7.4	4.7	6.4	
Sodium (Na+)	mg/l	13	6.6	16.2	23.7	15.9	23.1	
Manganese (Mn)	mg/l	13	0.0010	0.0139	0.0490	0.0100	0.0254	
Iron (Fe)	mg/l	13 <	0.010	0.259	0.980	0.150	0.622	
Chloride (Cl-)	mg/l							
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	13 <	1.00	13.92	49.00	10.00	25.40	II
Copper (Cu)	µg/l	13	2.00	5.38	22.00	4.00	6.80	II
Chromium (Cr) - total	µg/l	13 <	10.00 <	10.00 <	10.00	10.00	10.00	II
Lead (Pb)	µg/l	13 <	1.00	1.92	5.00	1.00	3.00	II
Cadmium (Cd)	µg/l	13 <	1.00 <	1.00 <	1.00	1.00	1.00	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	13 <	1.00	2.31	7.00	2.00	5.40	II
Arsenic (As)	µg/l	13 <	0.30	1.48	3.00	1.00	2.00	II
Aluminium (Al)	µg/l							
Phenol index	mg/l	4	0.0020	0.0265	0.1000	0.0020		
Anionic active surfactants (PAL-A)	mg/l	3 <	0.010 <	0.010 :	0.010			
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: /Russenski Lom	Catchment: 2800 km2	2004
Distance from the mouth 13	Altitude: 22 m	BG08
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	12	0.8	12.0	21.8	14.0	21.0	
Suspended solids	mg/l							
Dissolved oxygen	mg/l	12	7.2	8.7	10.7	8.2	7.4	I
BOD (5)	mg/l	12	3.4	6.9	12.0	6.5	9.5	III
COD (Mn)	mg/l	12	4.0	9.0	15.2	9.7	11.0	III
COD (Cr)	mg/l	12	11.9	26.0	35.0	27.5	32.9	III
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.5	8.2	8.3	8.2	8.3	II
							8.2	II
Alkalinity - total	mmol/l	12	3.3	3.7	4.0	3.7	3.9	
Ammonium (NH4-N)	mg/l	12 <	0.010	0.141	0.411	0.116	0.276	II
Nitrite (NO2-N)	mg/l	12	0.024	0.038	0.061	0.036	0.055	II
Nitrate (NO3-N)	mg/l	12	4.330	6.136	8.180	5.750	7.988	IV
Total nitrogen	mg/l	9	6.53	8.09	10.10	8.16		IV
Organic nitrogen	mg/l	12	1.27	2.13	3.19	2.01	2.92	
Orthophosphate (PO4-P)	mg/l	12 <	0.020	0.329	0.762	0.328	0.407	IV
Total phosphorus	mg/l	12	0.204	0.723	1.400	0.730	1.049	V
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	12	2.4	22.8	62.7	18.6	54.2	III
Conductivity	µS/cm	12	709	809	925	818	851	
Calcium (Ca++)	mg/l	12	79.6	89.3	108.2	88.2	96.1	
Sulphate (SO4--)	mg/l	12	36.0	48.0	57.2	49.7	55.8	
Magnesium (Mg++)	mg/l	12	39.8	46.1	54.0	44.8	53.9	
Potassium (K+)	mg/l	12	6.0	7.8	16.5	7.2	7.9	
Sodium (Na+)	mg/l	12	28.1	30.8	35.9	29.7	34.9	
Manganese (Mn)	mg/l	12	0.0010	0.1093	0.2420	0.1135	0.1995	
Iron (Fe)	mg/l	12	0.550	1.921	6.150	1.135	4.217	
Chloride (Cl-)	mg/l	12	31.9	37.4	53.9	35.5	41.9	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12 <	1.00	22.50	66.00	17.50	46.40	II
Copper (Cu)	µg/l	12 <	1.00	4.25	18.00	1.00	15.20	II
Chromium (Cr) - total	µg/l	4 <	10.00	10.00	10.00	10.00		II
Lead (Pb)	µg/l	12 <	1.00 <	1.00 <	1.00	1.00	1.00	II
Cadmium (Cd)	µg/l	12 <	1.00 <	1.00 <	1.00	1.00	1.00	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	12 <	1.00 <	1.00 <	1.00	1.00	1.00	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l	12 <	20.00	43.00	75.00	36.50	69.70	
Phenol index	mg/l	12	0.0020	0.0021	0.0030	0.0020	0.0020	
Anionic active surfactants (PAL-A)	mg/l	12 <	0.010	0.017	0.051	0.010	0.040	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	3 <	0.100	0.113	0.140			
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.0100	0.0100	0.0100	0.0100	0.0100	I
pp-DDT	µg/l	12	0.0100	0.0100	0.0100	0.0100	0.0100	II
Atrazine	µg/l	12 <	0.001	0.019	0.088	0.011	0.037	II
Chloroform	µg/l	12 <	0.02 <	0.02 <	0.02	0.02	0.02	I
Carbon tetrachloride	µg/l	12 <	0.02 <	0.02 <	0.02	0.02	0.02	I
Trichloroethylene	µg/l	12 <	0.02 <	0.02 <	0.02	0.02	0.02	I
Tetrachloroethylene	µg/l	12 <	0.02 <	0.02 <	0.02	0.02	0.02	I
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	10	0.120	0.713	1.950	0.495		
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m	10	30.000	95.700	310.000	67.500		
Salmonella	No/1l	10	0.0	0.0	0.0	0.0		

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

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

River: /Prut

Catchment:

8750 km2

2004

Distance from the mouth 658

Altitude: 100 m

MD01

Location: Left

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	10	24.0	40.7	65.8	40.3		
Temperature	°C	10	0.2	12.6	21.6	14.2		
Suspended solids	mg/l	10	1.0	22.6	80.0	1.0		
Dissolved oxygen	mg/l	10	5.8	7.6	9.8	7.1		III
BOD (5)	mg/l	10	1.7	2.5	4.6	2.3		II
COD (Mn)	mg/l							
COD (Cr)	mg/l	10	10.8	19.4	26.0	19.3		III
TOC	mg/l							
DOC	mg/l							
pH	-	10	7.6	7.9	8.6	7.8		III
Alkalinity - total	mmol/l	10	2.4	2.7	3.4	2.8		II
Ammonium (NH4-N)	mg/l	10	0.020	0.250	0.580	0.235		III
Nitrite (NO2-N)	mg/l	10	0.005	0.020	0.039	0.019		II
Nitrate (NO3-N)	mg/l	10	0.140	0.860	2.040	0.630		II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	10	0.005	0.016	0.045	0.014		I
Total phosphorus	mg/l							
Total phosphorus, dissolved	mg/l	10	0.010	0.030	0.054	0.029		
Chlorophyll A	µg/l	8	0.2	1.9	4.7	1.4		I
Conductivity	µS/cm	10	335	452	617	433		
Calcium (Ca++)	mg/l	10	49.5	61.5	72.1	63.0		
Sulphate (SO4--)	mg/l	10	39.0	61.7	84.0	60.0		
Magnesium (Mg++)	mg/l	10	4.9	9.1	14.6	7.5		
Potassium (K+)	mg/l	10	2.4	4.2	6.2	4.2		
Sodium (Na+)	mg/l	10	19.4	25.8	34.4	24.1		
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	10	21.3	32.6	46.2	31.9		
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	10	3.00	3.00	3.00	3.00		II
Copper (Cu), dissolved	µg/l	10	3.00	3.00	3.00	3.00		III
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l	10	3.00	3.00	3.00	3.00		III
Cadmium (Cd), dissolved	µg/l	10	0.50	0.50	0.50	0.50		III
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l	10	3.00	3.00	3.00	3.00		III
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	10	3.00	3.15	4.54	3.00		II
Copper (Cu)	µg/l	10	4.86	5.95	10.61	5.53		II
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l	10	3.00	3.06	3.60	3.00		II
Cadmium (Cd)	µg/l	10	0.50	0.50	0.50	0.50		II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	10	3.00	7.50	13.71	7.57		II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	10	0.0010	0.0025	0.0090	0.0010		
Anionic active surfactants (PAL-A)	mg/l	10	0.010	0.019	0.040	0.020		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	10	0.020	0.083	0.280	0.080		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	5	0.0020	0.0024	0.0040	0.0020		I
pp-DDT	µg/l	5	0.0500	0.0500	0.0500	0.0500		IV
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-	4	1.30	1.59	1.70	1.68		I
Macrozoobenthos no. of taxa	-	4	3	5	6	5		
Total coliforms (37 C)	1000CFU/100m	10	2.000	36.500	208.000	23.000		
Faecal coliforms (44 C)	1000CFU/100m	10	0.100	11.230	96.000	1.000		
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: /Prut

Catchment: 27480 km2

2004

Distance from the mouth 0

Altitude: 5 m

MD03

Location: Left

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	11	41.3	75.1	151.0	69.7	92.1	
Temperature	°C	11	0.5	13.6	26.4	14.5	25.0	
Suspended solids	mg/l	11	10.0	129.1	310.0	100.0	290.0	
Dissolved oxygen	mg/l	10	4.7	7.3	10.0	7.6		IV
BOD (5)	mg/l	11	1.8	3.0	5.1	2.7	3.8	II
COD (Mn)	mg/l							
COD (Cr)	mg/l	11	10.4	18.9	25.0	20.0	24.0	II
TOC	mg/l							
DOC	mg/l							
pH	-	11	7.5	7.9	8.4	7.9	8.4	II
							7.7	II
Alkalinity - total	mmol/l	11	2.5	3.3	4.2	3.1	3.9	
Ammonium (NH4-N)	mg/l	11	0.120	0.336	0.570	0.300	0.490	III
Nitrite (NO2-N)	mg/l	11	0.010	0.023	0.036	0.024	0.030	II
Nitrate (NO3-N)	mg/l	11	0.290	1.399	2.610	1.170	2.590	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	11	0.010	0.045	0.082	0.043	0.070	II
Total phosphorus	mg/l							
Total phosphorus, dissolved	mg/l	11	0.030	0.066	0.126	0.064	0.100	
Chlorophyll A	µg/l	8	0.2	2.9	7.1	1.8		I
Conductivity	µS/cm	11	450	595	775	555	735	
Calcium (Ca++)	mg/l	11	45.5	57.3	72.1	57.7	64.0	
Sulphate (SO4--)	mg/l	11	58.0	100.4	140.0	92.0	140.0	
Magnesium (Mg++)	mg/l	11	7.5	16.8	26.8	17.0	22.5	
Potassium (K+)	mg/l	11	5.2	6.4	8.8	5.6	8.8	
Sodium (Na+)	mg/l	11	31.0	47.4	72.0	42.0	70.0	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	11	28.4	34.3	40.8	31.9	39.1	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	11	3.00	3.00	3.00	3.00	3.00	II
Copper (Cu), dissolved	µg/l	11	3.00	3.03	3.38	3.00	3.00	III
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l	11	3.00	3.00	3.00	3.00	3.00	III
Cadmium (Cd), dissolved	µg/l	11	0.50	0.50	0.50	0.50	0.50	III
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l	11	3.00	3.26	5.83	3.00	3.00	III
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	11	3.00	4.49	19.44	3.00	3.00	II
Copper (Cu)	µg/l	11	4.87	6.97	14.25	5.76	8.89	II
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l	11	3.00	3.39	7.26	3.00	3.00	II
Cadmium (Cd)	µg/l	11	0.50	0.50	0.50	0.50	0.50	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	11	5.13	11.45	41.07	7.66	13.66	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	11	0.0010	0.0013	0.0040	0.0010	0.0010	
Anionic active surfactants (PAL-A)	mg/l	11	0.010	0.031	0.060	0.020	0.060	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	11	0.020	0.075	0.180	0.070	0.150	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	5	0.0020	0.0022	0.0030	0.0020		I
pp-DDT	µg/l	5	0.0500	0.0500	0.0500	0.0500		IV
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-	5	1.70	1.76	2.00	1.70		II
Macrozoobenthos no. of taxa	-	5	2	3	4	3		
Total coliforms (37 C)	1000CFU/100m	11	2.000	29.818	96.000	14.000	52.000	
Faecal coliforms (44 C)	1000CFU/100m	11	0.100	1.936	6.000	2.000	4.000	
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: /Prut

Catchment: 23400 km2

2004

Distance from the mouth 216

Altitude: 14 m

MD04

Location: Left

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	12	41.8	74.5	164.0	70.0	83.7	
Temperature	°C	11	0.8	12.9	25.2	13.8	25.0	
Suspended solids	mg/l	11	1.0	63.7	160.0	50.0	100.0	
Dissolved oxygen	mg/l	11	< 0.2	7.1	9.7	7.5	5.5	**
BOD (5)	mg/l	11	2.0	3.0	5.3	2.6	3.9	II
COD (Mn)	mg/l							
COD (Cr)	mg/l	11	11.4	19.1	24.4	20.0	22.9	II
TOC	mg/l							
DOC	mg/l							
pH	-	11	< 0.0	7.3	8.5	7.9	8.3	II
							7.7	II
Alkalinity - total	mmol/l	11	2.2	3.3	4.2	3.3	3.9	
Ammonium (NH4-N)	mg/l	11	0.120	0.370	1.000	0.350	0.630	IV
Nitrite (NO2-N)	mg/l	11	0.010	0.017	0.024	0.016	0.023	II
Nitrate (NO3-N)	mg/l	11	0.400	1.331	2.830	0.880	2.670	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	11	0.017	0.057	0.096	0.054	0.089	II
Total phosphorus	mg/l							
Total phosphorus, dissolved	mg/l	11	0.056	0.081	0.112	0.076	0.108	
Chlorophyll A	µg/l	8	1.2	4.5	9.5	4.3		I
Conductivity	µS/cm	11	384	590	765	555	754	
Calcium (Ca++)	mg/l	11	49.5	61.7	72.1	61.9	70.1	
Sulphate (SO4--)	mg/l	11	52.0	95.3	136.0	88.0	128.0	
Magnesium (Mg++)	mg/l	11	5.0	14.4	21.9	15.1	19.5	
Potassium (K+)	mg/l	11	4.8	6.2	8.8	6.0	8.0	
Sodium (Na+)	mg/l	11	27.2	45.5	73.2	45.2	59.2	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	11	24.8	32.9	40.8	31.9	39.1	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	11	3.00	3.00	3.00	3.00	3.00	II
Copper (Cu), dissolved	µg/l	11	3.00	3.00	3.00	3.00	3.00	III
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l	11	3.00	3.00	3.00	3.00	3.00	III
Cadmium (Cd), dissolved	µg/l	11	0.50	0.50	0.50	0.50	0.50	III
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l	11	3.00	3.00	3.00	3.00	3.00	III
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	11	3.00	7.83	40.26	3.00	12.14	II
Copper (Cu)	µg/l	11	5.30	7.66	14.43	6.00	13.43	II
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l	11	3.00	5.57	30.38	3.00	3.84	II
Cadmium (Cd)	µg/l	11	0.50	0.50	0.50	0.50	0.50	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	11	3.00	10.07	28.15	8.27	11.61	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	11	0.0010	0.0017	0.0090	0.0010	0.0010	
Anionic active surfactants (PAL-A)	mg/l	11	0.010	0.031	0.060	0.030	0.060	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	11	0.020	0.065	0.170	0.060	0.100	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	5	0.0020	0.0020	0.0020	0.0020		I
pp-DDT	µg/l	5	0.0500	0.0500	0.0500	0.0500		IV
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-	4	1.20	1.60	2.00	1.60		II
Macrozoobenthos no. of taxa	-	4	3	4	6	4		
Total coliforms (37 C)	1000CFU/100m	11	6.000	41.091	98.000	26.000	81.000	
Faecal coliforms (44 C)	1000CFU/100m	11	0.100	10.191	45.000	4.000	24.000	
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: Danube	Catchment: 805700 km2	2004
Distance from the mouth 132	Altitude: 4 m	UA01
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	1	14.1	14.1	14.1			
Suspended solids	mg/l							
Dissolved oxygen	mg/l	1	8.8	8.8	8.8			I
BOD (5)	mg/l	1	1.4	1.4	1.4			I
COD (Mn)	mg/l							
COD (Cr)	mg/l							
TOC	mg/l							
DOC	mg/l							
pH	-	1	8.1	8.1	8.1			II
Alkalinity - total	mmol/l							II
Ammonium (NH4-N)	mg/l	1	0.100	0.100	0.100			I
Nitrite (NO2-N)	mg/l	1	0.020	0.020	0.020			II
Nitrate (NO3-N)	mg/l	1	0.870	0.870	0.870			I
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	1	0.135	0.135	0.135			II
Total phosphorus	mg/l	1	0.233	0.233	0.233			II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm							
Calcium (Ca++)	mg/l	1	52.7	52.7	52.7			
Sulphate (SO4--)	mg/l	1	47.7	47.7	47.7			
Magnesium (Mg++)	mg/l	1	14.0	14.0	14.0			
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l	1	15.5	15.5	15.5			
Manganese (Mn)	mg/l	2	4.8000	8.9000	13.0000			
Iron (Fe)	mg/l	2	0.022	0.166	0.310			
Chloride (Cl-)	mg/l	1	35.0	35.0	35.0			
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	2	5.15	26.58	48.00			II
Copper (Cu)	µg/l	2	4.00	6.40	8.80			II
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	1	0.0500	0.0500	0.0500			
Anionic active surfactants (PAL-A)	mg/l	1	0.015	0.015	0.015			
AOX	µg/l							
Petroleum hydrocarbons	mg/l	1 <	0.050 <	0.050 :	0.050			
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

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

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

River: Danube	Catchment: 817000 km2	2004
Distance from the mouth 18	Altitude: 1 m	UA02
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	366	1660.0	3421.4	9090.0	3265.0	5380.0	
Temperature	°C	7	10.5	18.6	25.3	17.4		
Suspended solids	mg/l							
Dissolved oxygen	mg/l	8	7.2	8.8	10.1	9.0		I
BOD (5)	mg/l	8	0.6	2.2	3.7	2.1		II
COD (Mn)	mg/l							
COD (Cr)	mg/l							
TOC	mg/l							
DOC	mg/l							
pH	-	8	7.7	8.0	8.1	8.0		II
Alkalinity - total	mmol/l							II
Ammonium (NH4-N)	mg/l	8	0.050	0.176	0.355	0.148		III
Nitrite (NO2-N)	mg/l	8	0.018	0.040	0.090	0.035		III
Nitrate (NO3-N)	mg/l	8	0.790	1.210	1.510	1.260		II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	8	0.040	0.074	0.120	0.068		III
Total phosphorus	mg/l	8	0.056	0.126	0.192	0.119		II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm							
Calcium (Ca++)	mg/l	8	13.5	38.9	49.8	46.8		
Sulphate (SO4--)	mg/l	8	42.4	54.9	76.2	49.5		
Magnesium (Mg++)	mg/l	8	10.6	23.5	52.7	15.7		
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l	8	15.5	29.9	45.0	29.0		
Manganese (Mn)	mg/l	3	2.7500	7.0833	13.7000			
Iron (Fe)	mg/l	3	0.023	0.129	0.260			
Chloride (Cl-)	mg/l	8	23.6	30.1	35.0	30.5		
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	3	6.30	18.77	40.75			II
Copper (Cu)	µg/l	3	2.45	5.25	7.65			II
Chromium (Cr) - total	µg/l	6	<	0.00	1.61	2.75	1.73	II
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	8	0.0025	0.0046	0.0055	0.0048		
Anionic active surfactants (PAL-A)	mg/l	8	<	0.010	0.021	0.050	0.013	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	8	<	0.050	0.050	0.050	0.050	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
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