

S1. Collected data in Wilga River in 2018/2019.

sampling point	sampling season	pH	EC	Na <sup>+</sup>	K <sup>+</sup>	NH <sub>4</sub> <sup>+</sup>	Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>2-</sup>	Ca	Mg	IC	Zn	Cd	Cr	Pb	Al
			μS/cm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
1	spring	7.74	665	42.42	4.08	n.d.	72.09	n.d.	83.78	104.35	11.05	27.78	0.00	0.00	0.00	0.00	0.053
1	summer	7.18	581	42.08	5.60	0.07	67.27	15.49	73.95	54.23	7.00	35.89	n.d.	n.d.	n.d.	n.d.	n.d.
1	autumn	7.39	1055	65.18	9.69	0.08	129.30	10.09	130.65	109.95	13.27	37.51	n.d.	n.d.	n.d.	n.d.	n.d.
1	winter	7.79	1080	82.23	4.63	0.04	153.81	6.05	95.47	84.62	10.26	46.64	0.06	0.00	0.00	0.00	0.021
2	spring	7.72	738	51.85	4.18	n.d.	116.51	n.d.	86.50	118.35	10.89	28.09	0.00	0.00	0.00	0.00	0.032
2	summer	7.26	637	49.39	5.16	0.07	106.53	15.39	68.39	61.11	6.84	30.96	n.d.	n.d.	n.d.	n.d.	n.d.
2	autumn	7.44	1304	89.48	9.11	0.08	227.10	11.86	124.56	139.10	13.27	40.96	n.d.	n.d.	n.d.	n.d.	n.d.
2	winter	7.78	1160	92.93	5.39	0.02	189.91	6.01	91.01	103.54	10.78	46.01	0.05	0.00	0.00	0.00	0.011
3	spring	7.72	953	72.27	4.54	n.d.	179.98	n.d.	86.18	148.25	11.07	27.58	0.00	0.00	0.00	0.00	0.044
3	summer	7.26	771	62.43	5.19	0.04	152.79	18.04	69.41	74.26	6.53	28.03	n.d.	n.d.	n.d.	n.d.	n.d.
3	autumn	7.39	2480	192.30	10.12	0.15	634.83	14.49	132.57	252.85	13.32	54.14	n.d.	n.d.	n.d.	n.d.	n.d.
3	winter	7.77	1390	115.00	5.12	0.03	272.76	5.00	99.27	118.45	10.80	44.36	0.07	0.00	0.00	0.00	0.022
4	spring	7.77	1015	77.62	4.60	n.d.	198.83	n.d.	84.93	155.95	11.14	27.99	0.00	0.00	0.00	0.00	0.026
4	summer	7.22	800	66.45	5.04	0.07	175.03	16.46	66.96	79.94	6.34	26.26	n.d.	n.d.	n.d.	n.d.	n.d.
4	autumn	7.42	2480	186.70	10.14	0.06	597.66	14.91	130.85	255.50	13.81	53.09	n.d.	n.d.	n.d.	n.d.	n.d.
4	winter	7.77	1440	122.50	5.29	0.01	303.17	7.04	101.79	129.95	11.12	46.45	0.06	0.00	0.00	0.00	0.021
5	spring	7.69	1297	106.9	4.90	n.d.	292.75	n.d.	88.41	185.25	11.16	28.4	0.00	0.00	0.00	0.00	0.029
5	summer	7.07	1195	100.80	5.48	0.07	279.58	15.58	68.32	112.65	6.29	24.33	n.d.	n.d.	n.d.	n.d.	n.d.
5	autumn	7.32	4130	351.00	12.17	0.23	1117.29	16.30	142.01	407.05	14.52	51.98	n.d.	n.d.	n.d.	n.d.	n.d.
5	winter	7.85	1870	155.80	5.54	0.06	423.83	8.97	101.96	157.50	11.11	44.91	0.08	0.00	0.00	0.00	0.029
6	spring	7.69	1362	111.2	4.97	n.d.	321.88	n.d.	93.24	189.65	11.27	27.16	0.00	0.00	0.00	0.00	0.054
6	summer	7.13	1403	121.20	6.12	0.04	351.63	17.14	72.40	139.30	7.22	26.88	n.d.	n.d.	n.d.	n.d.	n.d.
6	autumn	7.31	4190	349.70	12.15	0.27	1221.36	15.53	151.99	400.15	14.51	52.71	n.d.	n.d.	n.d.	n.d.	n.d.
6	winter	7.88	1890	162.80	5.69	0.04	438.87	7.28	103.18	167.25	11.38	43.49	0.06	0.00	0.00	0.00	0.028
7	spring	7.69	1534	134.7	5.10	n.d.	347.72	n.d.	97.87	197.15	11.09	27.73	0.00	0.00	0.00	0.00	0.047
7	summer	7.23	2210	201.60	7.47	0.07	640.03	17.20	99.06	219.15	8.61	29.64	n.d.	n.d.	n.d.	n.d.	n.d.
7	autumn	7.36	5370	495.20	13.71	0.81	1529.07	10.65	150.09	463.85	14.28	53.02	n.d.	n.d.	n.d.	n.d.	n.d.

7	winter	7.77	2130	188.30	5.85	0.03	517.40	7.07	107.79	173.55	11.31	44.38	0.08	0.00	0.00	0.00	0.030
8	spring	7.76	1513	138.7	5.31	n.d.	346.31	n.d.	91.16	198.95	11.44	27.07	0.00	0.00	0.00	0.00	0.067
8	summer	6.85	2420	229.30	7.48	0.13	765.85	2.42	108.72	246.80	9.09	37.80	n.d.	n.d.	n.d.	n.d.	n.d.
8	autumn	7.25	5300	508.40	12.27	0.28	1514.62	12.26	151.43	446.85	14.80	50.55	n.d.	n.d.	n.d.	n.d.	n.d.
8	winter	7.69	2320	211.20	5.96	0.04	573.13	7.32	114.43	183.35	11.79	47.43	0.05	0.00	0.00	0.00	0.033

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n.d. – no data; 0.00 – below detection level