

## JYUGEI\_1GOSAWA

年	月	Sampling date	Sampling time	Water height (mm)	Water temp. (°C)	pH <sup>s</sup>	EC <sup>s</sup> (μS/cm)	Na <sup>+</sup> (mg/L)	K <sup>+</sup> (mg/L)	Mg <sup>2+</sup> (mg/L)	Ca <sup>2+</sup> (mg/L)	NH <sub>4</sub> <sup>+</sup> (mg/L)	Cl <sup>-</sup> (mg/L)	NO <sub>3</sub> <sup>-</sup> (mg/L)	SO <sub>4</sub> <sup>2-</sup> (mg/L)	
2003	1															
	2															
	3															
	4															
	5															
	6															
	7															
	8															
	9	2003/9/17	11:26	174	21.9	5.78	177	6.95	0.52	5.17	5.04	0.00	10.85	0.61	50.36	
	10	2003/10/15	9:52	177	16.5	5.60	176	6.03	0.68	5.21	4.91	0.00	10.02	0.88	48.73	
	11	2003/11/19	9:31	177	14.7	5.17	170	7.00	0.66	5.63	5.45	0.00	10.57	0.97	54.41	
	12	2003/12/17	10:03	187	9.8	5.37	182	5.05	0.21	4.74	4.27	0.00	11.74	0.00	54.42	
2004	1	2004/1/21	9:55	164	7.2	5.29	200	5.08	0.27	5.29	4.79	0.00	11.91	0.00	62.49	
	2	2004/2/18	9:55	158	6.5	5.14	177	4.69	0.21	5.47	4.98	0.00	11.57	0.00	63.54	
	3	2004/3/17	10:59	155	13.4	5.44	220	7.46	0.72	6.00	5.83	0.00	11.62	0.00	64.09	
	4	2004/4/21	9:25	161	14.5	5.34	187	7.73	0.87	5.79	5.71	0.00	11.44	0.00	62.24	
	5	2004/5/19	9:35	182	16.2	5.23	182	6.29	0.72	5.52	5.42	0.00	11.61	0.00	56.96	
	6	2004/6/16	9:24	188	18.0	5.38	146	8.14	0.92	5.45	5.37	0.07	11.60	1.40	52.25	
	7	2004/7/21	12:20	167	24.0	5.55	183	8.48	0.80	5.70	5.66	0.07	11.34	0.07	56.34	
	8	2004/8/18	9:20	187	22.9	5.74	148	6.65	0.91	5.19	5.22	0.08	11.12	1.40	49.47	
	9	2004/9/22	9:31	168	22.0	5.79	186	4.95	0.84	5.58	5.76	0.00	10.68	0.87	56.15	
	10	2004/10/22	9:27	227	17.3	5.93	146	5.55	0.55	4.22	4.06	0.00	12.28	2.51	35.80	
	11	2004/11/19	11:07	196	15.0	5.43	194	4.90	0.65	5.76	5.65	0.05	11.92	1.06	54.91	
	12	2004/12/22	9:07	171	10.7	5.34	260	5.90	0.73	6.39	6.31	0.03	12.23	0.80	61.69	
2005	1	2005/1/19	10:05	164	7.8	5.30	260	5.70	0.63	6.67	6.67	0.05	12.22	0.80	64.94	
	2	2005/2/16	9:15	166	7.9	5.54		5.94	0.49	4.94	5.08	0.00	11.47	0.65	58.89	
	3	2005/3/16	9:35	161	8.3	6.35		6.48	0.48	5.09	5.26	0.00	11.39	0.76	62.45	
	4	2005/4/21	9:21	218	13.9	5.69		3.31	0.21	1.50	1.60	0.00	5.31	0.84	18.15	
	5	2005/5/18	9:20	173	14.5	6.11		6.74	0.56	4.52	4.66	0.00	11.19	0.43	55.56	
	6	2005/6/21	14:12	167	19.0	5.76		6.68	0.64	4.49	4.61	0.00	10.80	0.83	55.85	
	7	2005/7/20	10:30	182	20.6	6.02	143	11.52	0.98	7.13	7.60	0.05	11.54	1.05	49.76	
	8	2005/8/22	15:37	178	22.6	6.10	197	11.23	1.15	6.66	6.91	0.00	10.51	1.40	47.32	
	9	2005/9/21	9:40	175	20.7	6.11	230	11.63	1.01	6.99	7.57	0.00	11.45	0.70	49.76	
	10	2005/10/19	9:43	183	17.1	6.17	220	10.53	1.03	7.02	7.36	0.08	10.86	1.92	48.29	
	11	2005/11/16	9:36	163	12.2	5.70	250	11.53	0.99	8.11	8.68	0.09	11.37	0.87	56.10	
	12	2005/12/21	9:46	157	8.7	5.75	193	11.11	0.88	8.30	8.71	0.00	11.63	0.00	60.92	
2006	1	2006/1/18	9:38	157	11.1	6.57	180	10.91	0.94	8.33	8.62	0.00	11.44	0.00	60.72	
	2	2006/2/15	9:50	158	14.7	6.29	184	11.20	0.90	8.45	8.81	0.00	11.51	0.00	61.99	
	3	2006/3/15	9:34	175	8.5	7.53	170	10.58	0.86	7.49	8.41	0.18	11.63	0.77	55.06	
	4	2006/4/19	9:20	203	16.6	7.54	137	10.43	0.86	6.23	7.03	0.14	11.84	1.32	45.45	
	5	2006/5/17	9:20	216	15.7	6.76	145	10.18	0.93	6.33	6.82	0.15	12.15	1.37	44.69	
	6	2006/6/21	9:42	211	19.3	7.97	139	10.18	0.95	6.42	6.38	0.12	12.19	1.68	44.83	
	7	2006/7/20	9:19	202	20.6	6.86	146	0.97	1.01	7.29	6.53	0.06	11.64	1.16	47.50	
	8	2006/8/16	10:14	214	22.6	8.17	135	8.61	0.72	4.58	3.98	0.09	10.12	1.35	29.79	
	9	2006/9/20	10:55	168	21.8	7.46	156	11.21	1.01	7.27	7.40	0.09	12.01	0.67	54.91	
	10	2006/10/18	11:25	161	18.7	5.81	176	11.12	0.99	7.85	7.92	0.15	11.80	0.45	58.67	
	11	2006/11/22	9:56	161	15.2	6.09	163	11.31	1.12	8.92	9.21	0.23	11.32	0.72	61.15	
	12	2006/12/22	9:35	155	11.6	5.84	179	11.78	1.00	9.49	9.63	0.15	11.68	0.58	64.14	
2007	1	2007/1/18	9:37	156	8.7	5.79	186	11.97	1.03	9.14	9.55	0.14	11.69	0.58	64.01	
	2	2007/2/26	13:39	154	9.8	5.93	175	11.67	1.12	9.11	9.47	0.17	11.51	0.87	64.39	
	3	2007/3/20	9:33	157	8.4	5.90	188	10.96	0.82	8.95	10.33	0.11	11.99	0.80	69.74	
	4	2007/4/18	9:23	165	11.1	6.29	172	10.46	0.95	8.43	9.91	0.00	11.50	0.80	64.36	
	5	2007/5/16	10:48	159	15.5	5.64	183	11.05	1.05	8.51	9.97	0.16	11.69	0.53	65.59	
	6	2007/6/20	9:27	172	18.6	6.13	163	10.92	1.11	8.04	9.29	0.00	11.85	0.80	62.25	
	7	2007/7/19	9:27	227	17.3	7.56	120	10.38	0.77	5.19	4.90	0.08	12.65	2.92	31.80	
	8	2007/8/16	13:58	175	23.2	7.08	153	11.25	1.01	7.06	8.24	0.00	12.15	1.07	53.07	
	9	2007/9/20	9:26	207	20.0	7.96	143	10.73	0.88	6.52	7.30	0.00	12.18	1.60	45.31	
	10	2007/10/17	9:26	174	16.1	6.98	156	10.98	0.91	7.48	8.62	0.72	11.97	1.07	54.72	
	11	2007/11/21	9:48	169	13.3	6.81	155	11.32	0.86	8.05	9.20	1.18	12.46	0.93	59.63	
	12	2007/12/20	9:23	161	9.0	6.53	169	11.22	0.85	8.26	9.52	0.00	12.30	0.53	61.24	
2008	1	2008/1/18	9:17	157	8.0	6.32	168	10.95	0.81	8.40	9.67	0.66	11.90	0.67	62.57	
	2	2008/2/18	13:23	154	6.6	6.23	176	11.20	0.80	8.86	10.23	0.10	12.25	0.80	66.89	
	3	2008/3/19	9:16	155	10.8	6.23	178	11.37	0.92	8.63	10.25	0.00	12.31	0.80	66.02	
	4	2008/4/16	13:34	167	13.9	6.10	171	10.63	0.97	8.06	9.37	0.00	11.66	0.80	61.38	
	5	2008/5/21	9:21	205	15.0	6.23	135	9.48	1.11	6.34	7.22	0.00	11.84	1.87	46.42	
	6	2008/6/18	9:25	186	17.5	6.77	155	10.90	1.00	7.41	8.46	0.00	12.24	1.47	54.83	
	7	2008/7/17	9:35	191	20.6	7.63	148	11.19	1.16	6.88	7.78	0.00	12.46	1.60	49.20	
	8	2008/8/20	9:24	165	23.3	7.10	155	12.03	1.17	7.39	7.63	0.00	11.87	0.67	52.83	
	9	2008/9/17	13:45	181	20.8	7.57	173	11.35	1.18	7.47	7.54	0.13	11.61	0.69	53.06	
	10	2008/10/22	14:04	172	17.7	6.23	176	10.58	0.94	6.88	6.96	0.00	11.30	0.77	51.26	
	11	2008/11/20	13:35	162	11.7	6.62	179	11.31	0.96	7.82	7.94	0.00	12.05	0.74	58.95	
	12	2008/12/18	9:57	162	10.6	6.28	174	11.16	1.00	7.88	8.12	0.00	11.55	0.55	58.49	

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年	月	Sampling date	Sampling time	Water height (mm)	Water temp. (°C)	pH <sup>s</sup>	EC <sup>s</sup> (μS/cm)	Na <sup>+</sup> (mg/L)	K <sup>+</sup> (mg/L)	Mg <sup>2+</sup> (mg/L)	Ca <sup>2+</sup> (mg/L)	NH <sub>4</sub> <sup>+</sup> (mg/L)	Cl <sup>-</sup> (mg/L)	NO <sub>3</sub> <sup>-</sup> (mg/L)	SO <sub>4</sub> <sup>2-</sup> (mg/L)
2009	1	2009/1/23	13:48	158	12.0	6.62	173	11.13	0.97	7.81	8.20	0.00	11.54	0.55	58.08
	2	2009/2/18	13:58	154	8.0	6.22	187	11.23	0.96	8.29	8.64	0.00	12.07	0.65	63.35
	3	2009/3/26	9:47	178	9.3	5.95	168	10.32	0.90	7.47	7.64	0.00	11.29	1.02	55.67
	4	2009/4/22	9:42	214	14.4	5.64	138	8.80	0.87	5.78	5.79	0.00	10.54	1.40	41.90
	5	2009/5/20	9:55	176	15.9	6.25	167	11.16	1.18	7.32	7.50	0.00	11.74	0.56	54.43
	6	2009/6/17	9:45	171	17.1	6.20	162	11.32	1.08	7.28	7.60	0.00	11.34	0.75	56.10
	7	2009/7/21	10:10	220	18.6	6.25	138	10.83	0.91	5.52	5.64	0.00	12.15	2.27	40.15
	8	2009/8/21	9:40	195	20.2	6.64	154	11.63	0.90	6.54	6.55	0.00	12.16	1.23	49.63
	9	2009/9/17	10:30	170	18.6	5.89	162	11.92	0.93	7.15	7.37	0.00	12.03	0.74	55.12
	10	2009/10/21	10:20	165	16.1	5.62	171	8.53	0.79	5.51	5.71	0.00	12.08	0.54	58.40
	11	2009/11/18	9:20	185	13.1	5.52	156	10.25	1.07	7.02	7.25	0.00	11.05	0.86	54.38
	12	2009/12/16	9:40	166	10.3	5.65	171	11.46	1.32	7.78	8.11	0.00	11.98	0.51	61.52
2010	1	2010/1/19	13:35	160	7.7	5.74	174	11.83	0.93	8.06	8.59	0.00	12.22	0.55	61.80
	2	2010/2/17	14:25	161	6.4	5.88	172	11.43	0.99	7.80	8.25	0.00	11.55	0.68	59.67
	3	2010/3/17	13:50	206	11.1	5.35	146	10.74	1.26	6.65	6.96	0.00	12.78	1.71	53.68
	4	2010/4/21	14:00	187	15.0	5.85	156	11.39	1.04	7.33	7.60	0.00	12.69	0.78	59.33
	5	2010/5/19	13:27	183	15.5	6.21	155	11.82	1.02	7.12	7.15	0.00	13.59	0.92	59.57
	6	2010/6/17	13:40	177	19.5	5.99	152	11.55	1.12	6.95	6.98	0.00	12.19	0.80	55.24
	7	2010/7/21	15:40	195	21.3	5.86	147	11.83	1.08	6.57	6.80	0.00	13.99	1.15	56.24
	8	2010/8/18	11:05	176	23.2	5.91	154	11.91	1.20	6.96	7.29	0.00	12.76	0.68	57.64
	9	2010/9/22	12:15	161	22.7	5.76	158	12.16	1.19	7.23	7.80	0.00	13.29	0.53	62.27
	10	2010/10/20	9:40	167	17.6	5.73	161	11.53	1.18	7.69	8.19	0.00	12.75	0.60	64.47
	11	2010/11/18	10:45	163	12.3	5.32	165	11.58	1.00	8.19	8.54	0.00	13.12	0.52	69.00
	12	2010/12/15	11:00	177	11.5	5.38	156	10.33	1.04	7.62	7.95	0.00	11.54	1.21	61.55
2011	1	2011/1/19	11:15	160	6.8	5.51	167	11.73	0.95	8.48	8.90	0.00	13.23	0.55	70.67
	2	2011/2/16	11:15	157	8.1	5.56	169		1.00	7.99	8.62	0.16	12.82		60.12
	3	2011/3/16	11:05	160	10.3	5.48	158		0.80	7.87	8.70	0.14	12.34		59.52
	4	2011/4/20	11:10	165	12.9	5.38	153		1.17	7.65	8.24	0.10	11.87		57.83
	5	2011/5/18	10:40	175	15.1	5.58	149		1.39	7.14	7.73	0.00	11.69		53.61
	6	2011/6/22	10:55	215	18.5	5.70	130		1.23	6.06	5.99	0.04	11.41		42.52
	7	2011/7/21	10:50	201	20.2	6.02	135		1.23	5.95	6.24	0.02	11.73		42.89
	8	2011/8/17	13:45	172	23.5	5.94	144		1.11	6.63	7.47	0.00	12.33		50.26
	9	2011/9/22	15:40	205	21.3	5.67	131		1.03	5.72	6.32	0.10	12.61		40.38
	10	2011/10/19	9:50	172	16.6	5.81	146		1.14	7.16	7.68	0.00	12.39		53.15
	11	2011/11/17	11:35	167	14.5	5.46	152		1.31	7.66	8.32	0.02	12.37		56.64
	12	2011/12/21	13:45	169	9.4	5.65	152		0.78	7.68	8.45	0.05	12.63		56.25
2012	1	2012/1/18	10:05	161	6.8	5.59	156		1.19	7.98	8.51	0.06	12.68		59.20
	2	2012/2/24	13:35	170	9.7	5.38	141		1.22	7.48	8.37	0.00	12.67		54.99
	3	2012/3/21	15:05	190	9.7	5.55	145		0.73	6.90	7.48	0.00	12.52		48.87
	4	2012/4/18	10:55	178	13.3	5.63	146		0.64	7.18	7.49	0.00	12.40		52.08
	5	2012/5/16	15:15	204	16.5	6.19	130		0.81	6.23	6.91	0.03	12.05		43.06
	6	2012/6/20	15:15	220	18.7	5.74	116		0.88	4.48	4.77	0.08	11.63		34.59
	7	2012/7/19	15:20	175	21.6	5.42	147		1.26	7.17	7.87	0.06	12.42		58.26
	8	2012/8/22	11:10	164	22.6	5.40	135		1.32	7.47	8.36	0.05	12.47		61.28
	9	2012/9/20	15:25	170	22.2	5.25	132		1.31	7.12	8.00	0.08	11.77		57.79
	10	2012/10/17	11:40	156	18.0	5.13	146		1.34	8.14	9.12	0.10	12.59		68.04
	11	2012/11/21	15:05	176	13.1	5.23	135		1.14	7.68	8.50	0.06	12.79		61.43
	12	2012/12/19	11:40	170	9.6	5.54	141		1.09	7.82	8.46	0.06	12.98		62.68
2013	1	2013/1/16	11:25	53	7.5	5.40	145		1.00	7.91	8.44	0.07	13.04		63.22
	2	2013/2/21	15:00	65	7.0	5.39	143		0.92	7.87	8.42	0.07	12.70		61.62
	3	2013/3/21	15:30	57	11.7	5.27	141		1.11	7.96	8.60	0.07	12.68		63.77
	4	2013/4/17	15:40	76	15.0	6.02	135		1.01	6.75	7.16	0.11	16.72		65.13
	5	2013/5/22	15:15	70	17.2	5.85	133		1.24	7.09	7.44	0.23	17.21		68.65
	6	2013/6/18	15:50	57	20.0	5.59	139		1.27	7.37	7.77	0.19	16.79		74.05
	7	2013/7/18	15:10	80	21.3	5.60	127		1.20	6.51	6.82	0.34	16.52		63.57
	8	2013/8/21	15:25	54	23.6	5.53	139		1.24	7.47	7.81	0.22	17.05		74.90
	9	2013/9/18	15:10	50	20.5	5.36	136		1.36	8.02	8.11	0.14	17.20		76.98
	10	2013/10/17	15:10	50	17.6	5.40	130		1.29	7.69	8.12	0.20	16.57		76.48
	11	2013/11/20	15:25		11.5	5.30	136		1.19	8.30	9.09	0.12	16.87		84.27
	12	2013/12/17	15:30	45	9.3	5.47	143		1.12	8.55	9.17	0.09	17.70		86.47
2014	1	2014/1/22	15:20	41	7.2		146		1.10	8.86	9.60	0.38	17.42		89.84
	2	2014/2/19	15:10	44	7.0	5.37	146		1.04	8.73	9.49	0.03	16.59		88.94
	3	2014/3/19	15:15	53	10.6	5.31	140		1.14	8.23	8.99	0.07	16.96		82.65
	4	2014/4/16	15:25	60	13.1	5.52	133		1.10	7.65	8.25	0.02	16.86		76.04
	5	2014/5/22	14:50	64	16.0	5.56	128		1.44	7.44	7.92	0.02	16.33		73.24
	6	2014/6/17	15:50	64	18.1	5.56	126		1.32	7.15	7.52	0.01	12.71		55.24
	7	2014/7/16	15:40	52	21.4	5.23	132		1.27	7.29	7.81	0.09	12.32		58.28
	8	2014/8/20	15:30	41	23.3	5.09	133		1.34	7.35	7.90	0.11	12.81		60.33
	9	2014/9/18	15:45	45	19.4	4.89	138		1.42	7.60	8.78	0.08	12.24		63.67
	10	2014/10/21	15:05	60	17.2	5.04	133		1.29	7.39	8.15	0.04	12.78		58.96
	11	2014/11/19	15:25	50	12.5	5.05	132		1.17	7.88	8.55	0.05	12.65		63.47
	12	2014/12/17	13:40	56	7.2	5.16	130		1.06	7.52	8.04	0.05	13.46		57.04

Note: blank cell is no data (water was not sampled or not measured /analysed)