

Table S1. The sampling locations, water parameters and chemical compositions of the Mun River water.

Sample Number	Location		temperature (°C)	pH	DO (mg/L)	TDS (mg/L)	DOC (mg/L)	SO ₄ ²⁻ (mg/L)	NO ₃ ⁻ -N (mg/L)	HCO ₃ ⁻ (mg/L)	Cl ⁻ (mg/L)	Na ⁺ (mg/L)	K ⁺ (mg/L)	Ca ²⁺ (mg/L)	Mg ²⁺ (mg/L)	NH ₄ ⁺ -N (mg/L)	DSi (mg/L)
	Lat.North	Long.East															
The Upper Mun																	
U1	14°30'43.43"	101°22'49.18"	28.3	7.09	6.75	62	4.61	2.27	0.03	47.58	2.78	4.62	2.32	2.05	9.28	0.17	6.74
U2	14°41'52.57"	101°24'54.31"	26.7	7.87	7.17	397	2.62	9.76	0.83	362.34	19.21	14.11	2.57	9.59	103.50	0.20	8.87
U3	14°48'0.63"	101°31'44.10"	28.8	8.51	11.82	209	8.91	9.04	0.56	158.30	19.18	18.14	4.95	7.06	38.03	0.48	1.67
U4	14°51'22.32"	101°35'35.06"	26.0	8.15	7.37	222	6.50	8.47	0.39	173.85	18.23	17.74	4.96	7.06	42.37	0.22	2.11
U5	14°55'58.23"	101°57'06.18"	26.2	7.44	7.00	325	11.36	15.60	0.09	200.39	45.62	38.82	7.65	8.07	46.92	0.17	3.63
U6	14°56'59.79"	101°59'12.73"	26.7	7.79	7.20	325	11.27	17.45	0.33	201.30	48.75	41.11	7.12	8.26	48.25	0.19	3.85
U7	14°58'03.73"	102°14'14.69"	26.5	7.50	6.20	159	12.34	13.89	0.02	53.07	35.29	26.81	8.23	4.49	10.40	0.16	5.71
T1	14°29'38.47"	101°41'06.38"	28.2	7.54	5.14	213	10.25	13.04	0.03	80.52	49.86	39.52	10.60	5.29	10.93	0.21	4.90
T2	14°28'17.93"	102°07'24.35"	28.3	6.96	7.16	44	7.10	1.36	0.05	28.37	4.50	2.58	3.13	2.07	4.61	0.21	2.49
T3	14°33'51.08"	102°10'16.89"	28.0	6.78	3.26	105	11.39	2.71	0.03	53.07	18.70	14.55	4.44	4.42	8.21	0.32	4.49
U8	15°09'34.51"	102°22'07.51"	27.6	7.33	5.56	397	14.32	16.12	0.10	115.29	126.68	83.98	12.74	8.70	22.47	0.16	5.71
U9	15°13'11.62"	102°25'41.89"	28.4	7.66	7.38	598	17.17	18.34	0.02	146.40	215.67	134.80	14.05	11.60	29.99	0.30	3.74
U10	15°15'16.47"	102°31'49.68"	30.5	7.65	6.86	748	14.43	7.95	0.03	159.21	255.98	169.30	9.73	11.39	38.66	0.17	6.63
T4	15°03'57.65"	102°24'09.00"	26.8	7.70	6.60	189	11.76	4.60	0.03	120.78	27.61	26.29	5.12	7.55	22.05	0.16	5.25

T5	15°10'51.44"	102°15'31.03"	29.8	7.82	8.17	1456	16.87	6.48	0.99	174.77	668.55	369.60	6.90	16.18	62.50	0.11	6.29
The Middle Mun																	
T6	14°59'55.95"	102°49'01.70"	28.1	7.40	5.17	192	11.44	2.16	0.03	63.14	56.37	26.60	5.21	5.50	18.64	0.29	5.57
M1	15°21'55.13"	102°44'52.95"	28.2	7.92	7.63	384	11.62	22.61	0.03	96.08	126.23	81.52	5.12	6.72	22.68	0.20	5.46
M2	15°26'07.64"	103°00'45.2"	28.3	7.63	6.50	579	11.16	17.54	0.13	92.42	235.12	141.20	6.07	7.88	27.64	0.18	5.56
M3	15°17'50.39"	103°12'09.77"	26.5	6.91	3.77	105	9.74	1.86	0.04	55.82	18.22	19.32	2.53	3.28	8.70	0.24	5.24
M4	15°17'59.57"	103°17'34.21"	28.1	7.47	5.19	683	10.67	31.25	0.08	78.69	282.07	169.30	5.67	7.39	32.37	0.24	8.07
T7	14°52'31.81"	103°22'44.04"	31.3	6.88	5.70	170	4.52	52.49	0.24	39.35	16.79	31.78	4.80	1.86	14.81	0.64	9.93
T8	14°51'26.30"	103°28'36.92"	29.9	6.11	3.94	53	8.26	1.24	0.04	28.37	8.94	9.10	2.04	1.15	5.65	0.23	3.11
T9	15°08'29.36"	103°25'44.61"	26.2	7.23	6.34	174	7.65	3.23	0.18	22.88	67.99	21.51	2.57	3.23	25.58	0.21	2.27
M5	15°17'48.14"	103°35'43.95"	24.0	7.86	8.19	748	10.29	17.21	0.03	86.01	330.67	187.90	5.08	8.37	30.15	0.31	4.99
M6	15°19'47.36"	103°40'56.51"	25.6	7.76	6.48	839	8.70	40.75	0.66	83.27	361.59	213.70	5.08	8.44	43.30	0.70	6.19
M7	15°27'41.19"	103°53'40.23"	26.9	7.47	5.96	624	9.09	13.68	0.05	72.29	270.44	161.50	4.02	6.19	23.78	0.20	5.80
M8	15°20'01.47"	104°02'38.7"	26.8	7.55	4.69	384	9.91	2.89	0.13	58.56	158.97	92.55	3.34	5.03	17.04	0.21	4.43
M9	15°20'22.90"	104°09'09.03"	26.7	8.46	8.72	358	12.75	5.70	0.18	69.54	136.51	82.52	3.43	5.14	17.95	0.22	3.29
T10	15°34'18.24"	103°49'11.34"	25.5	6.62	6.36	139	9.78	2.19	0.07	7.32	58.03	36.09	1.74	1.47	1.29	0.24	2.14

T11	15°28'09.97"	104°04'06.67"	26.7	7.69	7.08	345	10.65	3.31	0.06	39.35	146.20	86.69	2.88	3.94	11.19	0.17	3.23
T12	15°02'53.71"	104°01'15.72"	31.2	6.68	7.68	46	7.95	1.08	0.07	16.47	10.94	6.68	1.53	0.84	3.06	0.25	3.64
T13	15°00'37.70"	104°07'42.33"	31.2	6.30	6.95	38	9.15	0.45	0.69	13.73	8.76	4.30	2.23	1.23	2.15	0.82	3.41
M10	15°07'04.66"	104°19'06.95"	30.1	6.98	7.60	172	8.83	5.64	0.03	33.86	54.41	37.13	3.52	2.17	8.29	0.19	3.40
M11	15°07'56.15"	104°29'18.14"	29.3	7.91	7.70	288	11.68	2.52	0.41	57.65	107.27	67.46	2.97	4.28	14.39	3.28	4.11
T14	15°00'22.96"	104°38'00.41"	28.4	7.22	4.14	114	6.72	3.50	0.07	56.73	18.27	8.37	6.75	3.21	9.94	0.19	5.88

The Lower Mun

L1	15°06'40.34"	104°40'43.83"	29.6	7.13	7.53	113	6.51	1.86	0.04	32.03	34.54	20.61	2.99	2.64	7.73	0.16	5.00
L2	15°09'06.31"	104°43'35.18"	30.4	7.42	6.31	299	7.95	4.39	0.05	66.80	108.68	64.40	3.76	5.15	19.22	0.20	3.95
L3	15°12'34.84"	104°45'24.2"	28.9	7.72	6.43	150	6.77	5.66	0.22	68.63	28.16	22.66	3.42	3.57	17.25	0.19	3.92
L4	15°12'22.29"	104°48'49.99"	29.3	7.79	6.25	152	6.92	5.63	0.10	71.37	29.67	22.88	3.42	3.58	17.07	0.18	3.81
T15	15°30'10.7"	104°35'43.78"	30.6	7.10	7.10	208	6.68	5.42	0.28	37.52	73.42	50.74	1.48	3.00	8.49	0.18	5.91
T16	15°15'56.27"	104°38'40.18"	28.8	7.24	6.81	146	7.40	5.81	0.31	70.46	27.29	22.17	3.43	3.58	17.41	0.20	3.89
T17	15°17'07.92"	104°44'17.60"	31.0	7.18	7.22	332	7.18	12.67	0.03	31.11	136.83	88.57	1.71	2.53	8.89	0.22	6.22
T18	15°30'14.22"	104°57'56.95"	28.7	7.67	6.45	128	7.33	1.87	0.34	19.22	48.71	31.58	1.32	2.21	3.75	0.15	3.49
T19	15°20'17.12"	105°04'30.50"	29.8	7.90	7.79	234	7.31	10.32	0.29	74.12	63.30	45.42	3.29	4.49	21.12	0.23	4.61

T20	15°14'01.86"	105°09'38.67"	29.4	6.92	3.95	69	5.67	1.21	0.24	39.35	9.87	6.35	6.31	1.75	7.95	0.20	3.70
L5	15°18'24.54"	105°07'19.82"	29.9	7.62	6.13	157	7.11	6.49	0.03	72.29	30.05	24.18	3.58	3.84	18.34	0.19	3.86
L6	15°16'22.4"	105°13'12.32"	30.4	7.64	7.11	164	6.98	6.81	0.04	74.12	32.51	26.22	3.71	3.94	19.07	0.20	3.90
L7	15°13'36.10"	105°18'03.39"	29.7	6.47	6.22	28	7.89	1.05	0.27	16.47	2.72	3.71	1.60	0.69	3.52	0.18	2.67
T21	15°20'08.24"	105°23'59.84"	33.0	7.90	7.85	122	6.05	2.97	0.26	58.19	23.51	16.29	2.34	2.72	15.63	0.17	3.68
T22	15°17'10.46"	105°20'20.43"	30.4	7.34	6.71	152	8.04	6.29	0.05	68.99	30.44	24.47	3.49	3.62	17.31	0.25	3.62
L8	15°15'53.95"	105°26'19.54"	30.6	7.59	8.02	155	7.86	5.94	0.15	68.99	31.51	24.80	3.45	3.73	17.51	0.21	3.55
T23	15°15'18.53"	105°27'05.42"	30.1	6.30	7.76	14	5.72	0.79	0.38	7.87	1.73	1.34	1.24	0.46	1.07	0.22	2.06
L9	15°18'37.21"	105°29'35.20"	29.2	7.52	7.17	152	8.14	5.46	0.03	67.34	30.92	24.08	3.33	3.62	16.95	0.20	3.50
L10	15°19'07.90"	105°33'10.91"	27.7	7.59	7.62	163	2.55	17.76	0.52	96.62	15.97	9.05	2.45	8.84	26.93	0.23	4.66
L11	15°19'13.91"	105°34'04.23"	29.3	7.57	6.20	150	2.45	5.97	0.29	73.60	27.53	21.92	3.46	17.84	3.65	0.16	3.87
T24	15°16'02.45"	105°28'12.34"	26.4	7.40	10.3	186	3.21	4.23	0.59	124.44	14.46	16.03	5.52	24.79	10.30	0.22	4.12
T25	15°15'17.24"	105°27'06.11"	29.8	7.27	5.85	53	2.56	4.71	1.07	35.69	5.65	3.46	2.81	5.88	2.69	0.12	3.65

'-' means undetected; 'T' means tributary; 'DO' means dissolved oxygen; 'TDS' means total dissolved solid; 'Dsi' means dissolved silicon.