

Serial number of sampling	River/Lake/channel/well	sample types	collection sites	coordinate	pH	DO(mg/l)
J1	Songhua R	river	Jiamusi City	46°50' 26.0" N 130°16' 35.6" E	7.60	8.40
J2	well (30m)	groundwater	291 Farm	46°52' 10.8" N131°25' 41.6" E	7.40	10.00
J3	Channal	agricultural drainage	Fujin City	46°55' 09.6" N131°33' 17.5" E	7.65	3.50
J4	well (29m)	groundwater	Fujin City	46°55' 09.0" N131°33' 17.5" E	7.12	10.00
J5	Channal	agricultural drainage	Fujin City	47°16' 34.4" N132°03' 36.1" E	7.69	2.46
J6	well (40J)	groundwater	Qixing Farm	47°20' 57.6" N132°52' 53.2" E	7.17	10.00
J7	Channal	agricultural drainage	Chuangye Farm	47°24' 02.2" N133°03' 48.6" E	7.43	5.15
J8	swamp	swamp	Sanjing Station	47°35' 11.4" N133°30' 04.3" E	5.60	8.65
J9	well (30m)	groundwater	Sanjing Station	47°35' 18.4" N133°29' 48.8" E	6.01	6.03
J10	Channal	agricultural drainage	Qianfeng Farm	47°31' 33.4" N133°52' 54.5" E	7.30	5.26
J11	Naoli R	river	Raohe City	47°15' 01.3" N133°45' 29.0" E	7.33	4.74
J12	Bielahong R	river	Fuyuan City	47°55' 00.4" N134°27' 55.3" E	7.03	4.20
J13	Ussuri R	river	Fuyuan City	47°52' 10.8" N134°39' 19.7" E	7.04	3.79
J14	Amur R	river	Fuyuan City	48°22' 37.0" N134°17' 37.3" E	7.66	4.93
J15	Nongjiang R	river	Tongjiang City	48°11' 39.7" N134°16' 14.5" E	6.58	6.85
J16	Yalv R	river	Tongjiang City	48°11' 46.8" N134°06' 00.2" E	6.81	7.39
J17	well (30m)	groundwater	Tongjiang City	48°03' 05.9" N133°29' 02.1" E	6.67	5.33
J18	Channal	agricultural drainage	Qindeli Farm	47°58' 05.1" N133°15' 10.1" E	7.53	4.48
J19	well (40m)	groundwater	Qindeli Farm	47°54' 49.4" N133°07' 22.6" E	6.86	7.64
J20	Songhua R	river	Tongjiang City	47°42' 08.1" N132°31' 13.5" E	7.40	4.59
J21	Amur R	river	Tongjiang City	47°42' 51.5" N132°30' 20.5" E	7.01	5.19
J22	Channal	agricultural drainage	Fujin City	47°21' 50.6" N132°28' 54.3" E	7.69	3.93

T/(°C)	COND(mS/cm)	TOC (mg/L)	TC (mg/L)	IC (mg/L)	Fe <sup>2+</sup> (mg/L)	Fe <sup>3+</sup> (mg/L)	Total Fe (mg/L)	Acid soluble Fe (mg/L)	Total Mn (mg/L)	Ca (mg/L)
23.0	0.12	6.29	9.61	3.32	0.21	0.22	0.46	0.62	0.01	7.43
8.0	0.31	0.25	26.65	26.40	2.10	0.40	2.81	3.89	0.30	42.53
25.4	0.30	4.77	21.45	16.68	0.08	0.03	0.12	0.24	0.00	13.94
7.5	0.33	0.65	29.30	28.65	7.25	0.93	8.73	10.23	0.50	22.42
26.2	0.16	4.74	13.72	8.98	0.16	0.04	0.24	0.50	0.00	16.25
8.5	0.29	1.17	25.58	24.41	5.00	0.20	5.51	6.12	0.41	41.12
23.4	0.13	4.88	13.45	8.58	0.13	0.30	0.54	0.74	0.00	11.71
20.0	0.05	21.22	24.53	3.31	0.15	0.63	0.80	0.91	0.54	6.05
9.0	0.30	2.35	25.21	22.86	6.00	0.20	6.38	6.72	0.33	18.28
24.4	0.10	5.74	10.41	4.67	0.13	0.10	0.31	0.69	0.00	8.61
24.7	0.10	5.33	10.25	4.92	0.25	0.40	0.69	0.95	0.46	9.03
25.0	0.10	5.76	11.88	6.12	0.13	0.43	0.62	1.35	0.53	7.24
24.1	0.00	3.64	7.50	3.86	0.13	0.17	0.30	0.44	0.45	7.27
23.0	0.07	5.08	8.67	3.60	0.20	0.21	0.42	0.63	0.46	8.75
24.1	0.08	8.30	12.74	4.44	0.14	1.41	1.59	2.08	0.48	6.62
23.9	0.14	10.55	18.93	8.38	0.13	1.49	1.63	2.55	0.54	10.86
17.3	0.13	0.98	15.22	14.24	14.00	0.20	15.96	17.11	1.15	11.62
24.2	0.10	7.15	12.71	5.56	0.14	1.36	1.56	1.70	0.11	8.99
10.0	0.22	0.04	20.28	20.24	1.46	0.40	1.98	2.24	0.84	18.78
23.8	0.15	3.50	9.05	5.55	0.35	0.31	0.68	1.33	0.00	13.23
21.8	0.06	5.92	9.21	3.30	0.10	0.14	0.28	0.62	0.00	7.16
25.4	0.17	3.16	9.58	6.42	0.15	0.14	0.40	0.93	0.00	14.62

K (mg/L)	Na (mg/L)	Mg (mg/L)	Cl <sup>-</sup> (mg/L)	SO <sub>4</sub> <sup>2-</sup> (mg/L)	HCO <sub>3</sub> <sup>-</sup> (mg/L)	SiO <sub>2</sub> (mg/L)	NO <sub>3</sub> -N (mg/L)	NH <sub>4</sub> -N (mg/L)	NO <sub>2</sub> -N(μg/L)	PO <sub>4</sub> <sup>3-</sup> -P (mg/L)
1.00	6.10	2.32	82.36	2.86	43.92	16.99	1.18	0.02	10.87	0.00
1.06	18.72	12.82	455.04	0.47	226.92	28.12	0.09	0.29	3.66	0.07
8.33	27.84	13.82	490.72	1.27	183.00	4.28	0.15	0.04	3.94	0.00
2.27	26.23	13.10	465.12	0.95	274.50	24.12	0.29	0.33	4.88	0.00
1.55	10.69	6.89	244.63	3.45	87.84	7.99	0.14	0.00	3.17	0.00
1.70	14.80	10.05	356.85	0.00	219.60	38.97	0.10	1.31	3.37	0.75
2.61	8.49	5.73	203.56	0.93	87.84	11.70	0.07	0.05	13.97	0.10
1.05	2.14	2.09	74.30	0.00	51.24	13.13	0.08	0.05	9.18	0.00
1.63	10.49	8.71	309.28	1.84	142.74	35.83	0.18	0.56	4.26	0.05
2.34	7.75	4.77	169.41	1.84	73.20	14.42	0.65	0.00	18.93	0.02
1.83	7.24	3.96	140.44	3.36	65.88	18.56	0.65	0.00	32.98	0.03
2.01	8.29	4.57	162.31	1.46	73.20	15.42	0.14	0.00	6.52	0.05
0.93	4.43	2.98	105.83	1.78	51.24	14.42	0.03	0.00	6.56	0.01
0.96	5.20	2.76	98.12	2.89	29.28	13.56	0.45	0.04	8.28	0.00
1.86	5.00	3.62	128.51	0.00	51.24	12.42	0.03	0.00	1.02	0.06
3.18	9.62	6.24	221.63	0.00	73.20	13.70	0.02	0.00	3.14	0.11
1.03	8.34	4.73	167.88	1.34	109.80	36.11	0.06	0.85	9.18	0.00
1.45	5.33	4.62	164.05	0.00	62.22	21.27	0.42	0.00	71.47	0.07
1.22	13.02	10.42	370.02	1.44	161.04	41.39	0.05	0.11	0.00	0.09
1.73	10.66	4.04	143.38	3.89	65.88	16.84	1.14	0.00	16.72	0.04
0.71	3.35	2.41	85.48	1.90	43.92	14.70	0.10	0.04	13.63	0.00
1.84	10.38	4.73	167.84	4.15	65.88	16.56	1.00	0.00	96.98	0.00