

Serial number of sampling	River/Lake/channel/well	sample types	collection sites	coordinate		pH	T/(°C)
J1	Songhua R	river	Yilan City	46°18'	58.8" N 129°31' 23.1" E	6.8	0
J2	Mudang R	river	Yilan City	46°17'	45.5" N 127°32' 45.6" E	6.2	0
J3	Woken R	river	Yilan City	46°19'	37.3" N 129°34' 55.5" E	6.0	0
J4	Songhua R	river	Jiamusi City	46°50'	26.0" N 130°16' 35.6" E	6.3	0
J5	well(20m)	groundwater	291 Farm	46°52'	10.8" N 131°25' 41.6" E	6.8	5
J6	well(11m)	groundwater	Fujin City	46°55'	10.2" N 131°33' 17.5" E	6.8	4
J7	Songhua R	river	Tongjiang City	47°42'	08.1" N 132°31' 13.5" E	6.9	0
J8	Amur R	river	Tongjiang City	47°42'	51.2" N 132°30' 19.5" E	7.3	0
J9	well(7m)	groundwater	Tongjiang City	48°05'	25.4" N 133°34' 21.5" E	6.7	4
J10	well(13m)	groundwater	Tongjiang City	48°10'	49.4" N 133°57' 01.3" E	7.3	6
J11	Amur R	river	Fuyuan City	48°22'	24.9" N 134°17' 25.0" E	7.0	0
J12	Ussuri R	river	Fuyuan City	48°15'	33.2" N 134°40' 21.1" E	7.6	0
J13	well(15m)	groundwater	Qianfeng Farm	47°32'	45.4" N 133°52' 58.3" E	6.7	4
J14	well(35m)	groundwater	Sanjing Station	47°35'	18.6" N 133°29' 48.8" E	7.0	5
J15	well(35m)	groundwater	Chuanye Farm	47°21'	33.4" N 132°59' 57.4" E	7.1	5

COND(mS/cm)	TOC (mg/L)	TC (mg/L)	IC (mg/L)	Fe <sup>2+</sup> (mg/L)	Fe <sup>3+</sup> (mg/L)	Acid soluble Fe (mg/L)	Total Fe (mg/L)	Total Mn (mg/L)	K (mg/L)
0.43	9.02	35.10	26.08	0.10	0.14	0.29	0.25	0.26	7.03
0.17	6.52	16.65	10.13	0.10	0.11	0.54	0.22	0.04	3.11
0.53	45.85	99.72	53.87	1.38	0.39	4.26	2.20	5.94	8.72
0.30	9.53	33.27	23.73	0.15	0.21	0.39	0.37	0.37	4.92
0.36	0.05	42.68	42.63	0.40	0.78	2.07	1.21	0.27	1.86
0.67	0.10	72.19	72.09	1.63	2.25	10.51	4.40	0.31	2.56
0.32	5.50	22.72	17.22	0.05	0.08	0.31	0.14	0.12	4.93
0.06	10.32	14.25	3.93	0.04	0.15	0.33	0.32	0.05	1.11
0.26	2.41	9.08	6.68	0.03	0.09	0.18	0.13	0.02	1.37
0.16	1.55	11.13	9.58	0.03	0.06	0.13	0.09	0.05	1.34
0.17	7.68	13.54	5.86	0.04	0.16	0.32	0.24	0.05	2.34
0.15	2.75	14.54	11.79	0.03	0.16	0.34	0.21	0.10	2.08
0.29	2.88	47.02	44.14	3.82	4.80	13.27	8.68	0.47	2.62
0.32	1.42	34.59	33.17	1.00	1.82	4.32	2.95	0.65	4.21
0.25	0.33	32.58	32.25	1.60	1.10	3.77	2.78	0.28	4.57

Na (mg/L)	Ca (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)	NH <sub>4</sub> -N (mg/L)	NO <sub>3</sub> -N (mg/L)	NO <sub>2</sub> -N (μg/L)	PO <sub>4</sub> <sup>3-</sup> -P (mg/L)
21.66	40.21	7.45	29.11	3.55	140.54	3.08	16.66	1.20	37.48	0.04
9.11	17.86	3.80	17.75	1.57	58.56	1.79	0.04	1.17	12.48	0.02
37.09	38.16	15.80	56.90	10.27	267.18	7.50	6.18	0.03	15.36	0.25
21.07	27.98	7.50	26.62	5.65	125.17	1.93	0.03	1.13	62.90	0.03
19.26	38.86	27.80	23.08	nd	234.24	12.35	2.17	0.29	5.27	0.02
17.10	71.96	7.05	49.70	1.47	413.58	8.36	0.28	0.09	5.04	0.00
18.08	24.57	2.00	44.38	4.13	124.44	1.79	0.17	1.18	28.15	0.02
3.86	9.18	1.85	22.01	1.07	41.72	5.93	1.82	0.26	2.82	0.01
10.65	23.57	8.60	51.48	nd	42.46	1.65	0.08	10.69	4.81	0.01
7.89	14.11	1.85	35.50	nd	45.38	12.78	0.07	5.01	1.95	0.04
10.20	15.05	3.54	40.82	1.36	84.18	4.08	0.65	0.71	9.37	0.01
6.52	13.15	4.37	15.98	1.66	60.02	3.36	0.12	0.41	6.06	0.02
9.72	21.37	12.10	30.18	1.08	203.50	10.64	0.74	0.19	19.17	0.53
17.19	32.08	13.20	14.20	2.91	169.82	13.21	0.54	0.22	6.13	0.03
14.48	31.38	7.15	14.20	1.38	175.68	3.50	0.85	0.04	3.26	0.32