

Table S1. The information of the water samples in the mainstream and Zhuyi Bay.

Numbers	Locations	Distance from the TGD (km)	Longitudes	Latitudes
S01	Chongqing Urban	598.73	29°33'55.00"	106°35'09.17"
S02	Changshou District	524.88	29°49'13.25"	107°03'25.84"
S03	Fuling District	479.24	29°42'53.32"	107°23'21.80"
S04	Fengdu County	427.09	29°52'30.58"	107°43'32.75"
S05	Zhongxian county	365.77	30°18'17.40"	108°02'48.71"
S06	Shibao Village	333.99	30°25'09.50"	108°11'19.36"
S07	Wanzhou District	281.87	30°46'07.22"	108°24'52.80"
S08	Yunyang County	249.06	30°56'42.83"	108°40'00.30"
S09	Tangxi River Estuary	222.84	30°57'40.97"	108°54'15.47"
S10	Modao River Estuary	219.12	30°55'59.61"	108°40'00.30"
S11	Zhuyi Bay Estuary	168.1	31°00'48.57"	109°27'07.63"
S12	Meixi River Estuary	159.75	31°03'27.36"	109°31'15.40"
S13	Caotang River Estuary	156.16	31°02'53.43"	109°34'37.36"
S14	Wushan Mountain	122.55	31°15'03.14"	109°49'37.30"
S15	Badong county	75.91	31°02'27.60"	110°19'18.38"
S16	Tongzhuang River Estuary	32.23	30°57'00.68"	110°44'01.34"
S17	Xiangxi Bay Estuary	30.61	30°58'11.78"	110°45'44.00"
S18	Jiuwan River Estuary	18.63	30°53'24.02"	110°53'24.09"
S19	Maoping Town	1.62	30°51'09.79"	110°58'27.84"
ZY01	Zhuyi Bay	—	31°00'42.29"	109°27'01.93"
ZY02	Zhuyi Bay	—	31°01'20.57"	109°25'30.56"
ZY03	Zhuyi Bay	—	31°01'08.75"	109°24'26.32"
ZY04	Zhuyi Bay	—	31°00'55.26"	109°23'50.15"