

Supporting Information

Table A. Sample sites information of surface water

ID	Location	Date	Water types
w212	Grand canyon in Linzhou District	7-18	River water
w213	Upstream of the Grand canyon	7-19	Spring water
w1	Longdong Town in Jiaozuo District	8-3	River water
w6	Yellow River in Wen County	8-7	Yellow River water
w167	Houzhaidan river in Qinyang County	8-10	River water receiving power plant effluent
w11	Dasha river, south of Qintun Town	8-14	River water
w13	Jiangou river	8-14	River water
w14	Qin river in Wushe County	8-14	River water
w29	Dasha river in Xiuwu County	8-20	River water
w33	Xingwu Bridge over Yellow River	8-21	Yellow River water
w36	Qin river in Wushe County	8-21	River water
w37	Communist canal in Wushe County	8-21	River water
w39	Yellow river in Wushe County	8-21	Yellow River water
w40	Qin river in Wushe County	8-21	River water
w43	Dan river in Bo'ai County	8-22	River water
w52	Qin river in Bo'ai County	8-22	River water
w61	Qinhe in Qinyang District	8-23	River water
w165	Qingtianhe reservoir in Bo'ai County	8-25	River water
w169	Downstream of Qingtianhe reservoir	8-25	Reservoir water
w91	Tagang Town in Weihui County	9-9	River water
w92	Taganghu reservoir in Weihui County	9-9	Reservoir water
w93	Cang river in Weihui County	9-9	River water
w125	Wenming canal in Changheng County	9-9	River water
w130	Ergan canal in Changheng County	9-9	River water
w132	Yellow river in Changheng County	9-9	Yellow River water
w100	Huamu river in Hui County	9-10	River water
w102	Zancheng river in Hui County	9-10	River water
w111	Zhulou river in Xinxiang District	9-10	Irrigation ditch
w113	Yellow river in Zhengzhou District	9-10	Yellow River water
w140	Yellow river in Kaifeng District	9-10	Yellow River water
w148	Liuqing river in Yanjin County	9-10	River water
w155	Baoquan reservoir in Hui County	9-11	Reservoir water
w153	Upstream of Baoquan reservoir	9-12	River water
w154	Downstream of Baoquan reservoir	9-12	River water
w73	Shimen reservoir in Hui County	9-14	Reservoir water

Table B. Sample sites information of rainfall

ID	Location	Date	Rainfall amount
w204	Ji Town in Hebi District	7-22	107mm
w202	Yuhekou hydrological station	7-28	38mm
w158	Qinyang Town	7-29	187mm
w159	Jiaozuo City	7-29	187mm
w160	Henan Polytechnic University	7-29	187mm
w211	Xinxiang City	7-29	187mm
w201	Yuhekou hydrological station	8-5	50mm
w161	Bo'ai Town	8-10	80mm
w162	Xiuwu Town	8-10	80mm
w163	Henan Polytechnic University	8-10	80mm
w164	Henan Polytechnic University	8-10	80mm
w168	Qinyang Town	8-10	80mm
w210	Xinxiang City	8-30	177mm

Data source: China Meteorological Data Sharing Service System (http://cdc.cma.gov.cn/cdc_en/home.dd)