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Characteristics and ecological risks of microplastics pollution in a tropical  
drinking water source reservoir in Hainan province, China

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**Table S1. The potential ecological hazards of microplastic in water from each sampling sites.**

Sampling sites	$E_r^i$						$RI$		
	PS	PP	PVC	PE	PET	nylon			
<b>Reservoir</b>	W1	-	-	-	-	0.13	-	0.13	
	W2	-	-	-	-	0.53	1.67	2.21	
	W4	-	0.07	-	-	0.27	-	0.33	
	W9	-	0.10	-	-	1.60	-	1.70	
	W10	-	0.03	-	-	1.20	-	1.24	
	W11	-	0.03	-	-	1.20	-	1.24	
	W12	-	0.17	-	-	0.94	3.34	4.44	
	W13	-	0.13	-	-	0.94	1.67	2.74	
	W14	-	0.13	-	-	0.67	-	0.80	
	<b>Basin</b>	W3	-	0.17	-	-	0.27	-	0.43
		W5	-	0.10	-	0.37	0.13	-	0.60
		W6	-	0.13	-	-	1.87	-	2.01
		W7	-	-	334.20	0.37	0.53	1.67	336.78
		W8	-	0.13	-	-	0.53	-	0.67
<b>Living area</b>	W21	-	0.23	-	0.37	0.80	-	1.40	
	W22	-	0.27	-	-	0.80	-	1.07	
	W23	-	0.07	-	-	0.27	1.67	2.01	
	W24	-	0.07	334.20	-	0.27	1.67	336.21	
	W25	-	0.10	-	-	0.27	-	0.37	
	W26	-	0.07	-	-	0.40	-	0.47	
	W27	1.00	0.23	-	-	0.53	1.67	3.44	
	W28	-	-	-	-	0.13	1.67	1.80	
	W29	-	0.13	-	-	0.27	-	0.40	
<b>Agricultural area</b>	W15	-	-	-	-	0.13	-	0.13	
	W16	-	0.10	-	-	0.80	1.67	2.57	
	W17	-	0.07	-	-	0.40	0.00	0.47	
	W18	-	0.07	-	-	0.40	1.67	2.14	
	W19	-	0.13	-	-	0.53	-	0.67	
	W20	-	0.10	-	-	0.67	-	0.77	

\* The symbol “-” means “not detected” in the sampling sites.  $E_r^i$ : Ecological Risk Index;  $RI$ : potential ecological hazard index;

**Table S2. The potential ecological hazards of microplastic in sediments from each sampling sites.**

Sampling sites	$E_r^i$						$RI$		
	PS	PP	PVC	PE	PET	nylon			
<b>Reservoir</b>	W1	-	0.60	-	0.51	0.56	-	1.67	
	W2	-	0.23	-	-	0.37	-	0.60	
	W4	1.39	0.74	-	-	0.93	-	3.06	
	W9	-	1.06	-	-	0.37	-	1.44	
	W10	-	0.37	-	0.51	-	-	0.88	
	W11	-	0.28	-	-	0.19	2.31	2.78	
	W12	-	0.42	-	-	0.56	-	0.97	
	W13	-	0.23	-	-	0.74	-	0.97	
	W14	-	0.23	463.01	-	0.37	2.31	465.93	
	<b>Basin</b>	W3	-	0.05	-	-	0.56	-	0.60
		W5	-	0.23	463.01	-	0.56	-	463.80
		W6	-	-	-	0.51	0.19	2.31	3.01
		W7	-	0.05	-	-	0.37	-	0.42
		W8	-	0.05	-	1.02	0.19	2.31	3.56
<b>Living area</b>		W21	-	-	-	-	-	2.31	2.31
	W22	-	0.14	-	-	0.56	-	0.69	
	W23	-	0.37	-	-	0.37	-	0.74	
	W24	1.39	0.09	463.01	-	0.37	-	464.86	
	W25	-	0.05	-	-	1.30	-	1.34	
	W26	-	0.04	-	-	-	-	0.04	
	<b>Agricultural area</b>	W15	-	0.05	-	-	0.37	-	0.42
W16		-	0.69	-	-	1.11	-	1.81	
W17		-	1.16	-	-	0.56	-	1.71	
W18		-	0.05	-	-	0.19	-	0.23	
W19		-	0.56	-	1.02	0.37	-	1.94	
W20		-	0.09	-	0.51	1.85	-	2.45	

\* The symbol “-” means “not detected” in the sampling sites.  $E_r^i$ : Ecological Risk Index;  $RI$ : potential ecological hazard index;