

Table S1. Coordinates of sampling sites, EC, pH, and HM concentration, and the results of the pollution indices.

S.N.	Lat.	Long.	pH	EC	Al	As	Cd	Cr	Cu
1	25°59'11.57"N	50° 49.75"E	8.12	76.4	0.71	7.6	0.05	11.4	2.7
2	25°58'29.30"N	50° 46.35"E	8.14	75.7	0.34	7.1	0.04	14	3.8
3	25°57'16.95"N	50° 6'54.84"E	8.15	75.6	0.71	6.4	0.06	14.5	3.4
4	25°56'52.62"N	50° 50.65"E	8.13	75.5	0.53	6.5	0.04	8.1	1.7
5	25°47'4.74"N	50°10'7.60"E	8.11	76	0.61	5.6	0.05	11	1.5
6	25°45'35.76"N	50°11'5.30"E	8.11	75.9	0.6	6.7	0.04	10.7	1.5
7	25°44'49.47"N	50°12'27.67"E	8.12	75.6	0.63	5.9	0.06	11.2	3.5
8	25°43'40.18"N	50°13'32.05"E	8.12	76.3	0.58	6.2	0.05	7.8	3.2
9	25°42'6.38"N	50°13'54.54"E	8.14	76.5	0.43	5.8	0.04	9.2	2.4
10	25°40'48.93"N	50°14'49.05"E	8.13	75.9	1.21	5.5	0.06	7	2.8
11	25°38'50.51"N	50°14'51.72"E	8.1	77.9	0.58	5.6	0.04	8.8	3.2
12	25°40'7.46"N	50°14'38.80"E	8.13	79.3	0.31	5.4	0.06	9.6	2.5
13	25°41'2.74"N	50°13'44.41"E	8.14	79.6	0.39	4.8	0.07	10.1	1.8
14	25°40'28.91"N	50°13'7.60"E	8.11	79.6	0.48	5.1	0.05	9	1.2
15	25°41'0.23"N	50°12'52.09"E	8.17	80.7	0.75	5	0.04	8.9	1.8
16	25°41'32.17"N	50°12'4.32"E	8.13	80.9	0.46	5.2	0.04	8.2	2.2
17	25°42'19.85"N	50°11'16.26"E	8.12	84.6	0.42	6.3	0.06	7.7	2.3
18	25°42'38.16"N	50°10'33.95"E	8.14	85.4	0.52	5.1	0.05	9	3
19	25°43'46.16"N	50° 9'55.94"E	8.14	85	1.31	4.9	0.04	8.9	1.5
20	25°43'43.30"N	50° 8'45.84"E	8.12	88.1	0.72	4.4	0.06	8.2	3.8
21	25°44'23.11"N	50° 8'5.78"E	8.11	86.9	0.36	5.1	0.04	7.7	1.5
22	25°43'3.63"N	50° 8'36.85"E	8.12	86.2	0.56	4.4	0.06	8.9	2.3
23	25°42'0.12"N	50° 9'10.59"E	8.1	85.7	0.39	4.6	0.07	8.5	2.9
24	25°41'1.36"N	50°10'7.42"E	8.1	84.5	0.8	4.8	0.06	8.3	1.1
25	25°40'17.50"N	50°11'5.87"E	8.13	122.5	0.98	6.6	0.08	9.8	3.2
26	25°39'42.20"N	50°11'12.44"E	8.11	84.8	0.46	5.2	0.04	8.1	2.9
27	25°40'14.68"N	50°11'55.25"E	8.1	89	0.88	6.2	0.06	8.1	2.7
28	25°40'54.41"N	50°12'26.88"E	8.12	80.8	0.47	4.7	0.07	9.4	1.1
29	25°40'6.46"N	50°12'33.61"E	8.14	79.9	0.66	4.9	0.05	8.6	2.4
30	25°39'32.99"N	50°13'2.73"E	8.13	79.1	0.61	4.8	0.04	9.4	2.3

31	25°38'50.25"N	50°13'2.73"E	8.1	79	1.34	5.6	0.04	10.8	3.1
32	25°37'56.06"N	50°12'49.64"E	8.13	78.4	0.54	4.6	0.06	10.7	2
33	25°37'32.48"N	50°12'58.68"E	8.14	72.4	1.43	4.8	0.05	11	3.4
34	25°36'52.04"N	50°13'25.84"E	8.11	73.6	1.22	4.7	0.04	12.4	3
35	25°36'21.11"N	50°13'46.26"E	8.13	73	0.66	4.6	0.06	12.5	3.2

Table S1 (Continued).

S.N.	Fe	Hg	Pb	Sb	Se	V	Zn	Ni	Sr	HPI	Pij	Cd
1	5.8	0.18	0.12	0.09	2.6	3.1	8.8	1.8	7244	11.03	0.39	1.86
2	6.5	0.44	0.43	0.07	3.1	4.2	9.1	2.2	7212	12.36	0.38	2.29
3	3	1	0.09	0.09	2.8	2.7	7.6	2.3	7288	13.04	0.52	2.00
4	3.8	0.5	0.11	0.08	2.5	3.2	6.9	3	7275	10.74	0.34	1.61
5	4.8	0.9	0.14	0.1	2.7	3.6	6.8	1.5	7202	11.72	0.46	1.57
6	7	0.2	0.31	0.08	2.5	3.7	5.7	3.8	7224	10.30	0.35	1.76
7	7.4	0.24	0.28	0.09	2.7	2.8	3.3	1.5	7249	10.06	0.31	1.77
8	6.5	1.08	0.2	0.07	2.5	2.3	5.1	2.3	7267	12.40	0.56	1.85
9	6	0.24	0.35	0.07	2.7	3.2	5.4	2.9	7255	9.87	0.30	1.73
10	3.9	0.35	0.31	0.06	2.5	3	7.2	5.8	7215	10.06	0.31	1.89
11	6.7	0.55	0.21	0.09	2.6	3.1	4.8	3.1	7178	10.38	0.30	1.76
12	6.1	0.32	0.41	0.06	2.8	2.3	7.1	5.8	7182	10.45	0.31	1.96
13	5.8	0.7	0.4	0.03	2.9	2.5	6.8	5.3	7192	11.36	0.37	1.85
14	6.5	0.65	0.39	0.02	3	2.6	5.9	3.5	7204	11.12	0.34	1.66
15	3	0.48	0.3	0.05	2.6	2.9	7.5	4	7198	9.94	0.27	1.67
16	3.8	0.72	0.28	0.06	2.6	3.2	8.3	4.1	7216	10.83	0.38	1.78
17	4.8	0.68	0.25	0.09	2.7	3.6	9.1	3.8	7299	11.88	0.36	1.89
18	7	0.6	0.3	0.08	2.7	2.8	8.8	3.3	7254	10.67	0.32	1.88
19	7.4	0.84	0.4	0.08	2.6	3.1	7.6	3.5	7243	11.09	0.44	1.75
20	6.5	1	0.32	0.09	2.7	4.3	6.9	3.3	7305	11.39	0.52	1.92
21	6	1.1	0.36	0.09	2.5	3.6	5.8	2.1	7176	11.69	0.56	1.64
22	3.9	0.75	0.24	0.06	2.7	2.6	6.7	2.2	7170	10.49	0.39	1.58
23	6.7	0.6	0.2	0.07	2.6	4.7	5.5	1.3	7140	10.05	0.32	1.56
24	4.6	0.6	0.34	0.09	2.5	3.7	4.8	2.3	7191	10.13	0.31	1.46
25	8.8	0.8	0.3	0.08	2.6	4.2	9.9	6.9	7398	12.95	0.43	2.33
26	7.8	0.85	0.2	0.08	2.8	3.9	6.6	1.5	7129	11.18	0.44	1.69
27	7	0.6	0.26	0.1	3.1	4.4	7	1.5	7109	11.85	0.33	1.78
28	8.2	0.75	0.24	0.09	2.9	3.8	5.2	3.5	7168	11.10	0.39	1.53
29	8	1	0.2	0.09	2.8	4.2	6.4	3.2	7176	11.63	0.51	1.72
30	6.6	1.05	0.18	0.08	2.6	4	7.8	2.4	7221	11.39	0.54	1.68
31	8.4	0.82	0.16	0.06	2.7	4.6	8	2.8	7208	11.48	0.43	1.88
32	5.6	0.48	0.09	0.08	2.5	4.4	6.4	3.2	7138	9.55	0.26	1.50

33	7	0.56	0.3	0.07	2.7	3.8	5.2	2.5	7174	10.21	0.30	1.80
34	6.4	0.58	0.2	0.05	2.6	3.6	4.5	1.8	7188	9.85	0.31	1.64
35	7.3	0.66	0.26	0.07	2.8	3.2	6.6	1.2	7206	10.63	0.35	1.75