

**Table S1.** Geoaccumulation index-based standard for contamination levels ( $I_{geo}$ ).

$I_{geo}$ Class	$I_{geo}$ value	Contamination level
0	$I_{geo} \leq 0$	Uncontaminated
1	$0 < I_{geo} < 1$	Uncontaminated to moderately contaminated
2	$1 < I_{geo} < 2$	Moderately contaminated
3	$1 < I_{geo} < 2$	Moderately to strongly contaminated
4	$2 < I_{geo} < 3$	Strongly contaminated
5	$3 < I_{geo} < 4$	Strongly to extremely contaminated
6	$I_{geo} > 5$	Extremely contaminated

**Table S2** Pollution standards by contamination factor (CF).

<b>Contamination Factor Index (CF)</b>	< 1	Low contamination
	1 – 3	Moderate contamination
	3 – 6	Considerable contamination
	> 6	Very high contamination

**Table S3.** Nemerow Pollution Index' standard for pollution levels ( $I_n$ ).

$P_n$ Class	$I_n$ value	Pollution level
0	$0 < I_n \leq 0.5$	Unpolluted
1	$0.5 < I_n \leq 1$	Unpolluted to moderately polluted
2	$1 < I_n \leq 2$	Moderately polluted
3	$2 < I_n \leq 3$	Moderately to heavily polluted
4	$3 < I_n \leq 4$	Heavily polluted
5	$4 < I_n \leq 5$	Heavily to extremely polluted
6	$I_n > 5$	Extremely polluted

**Table S4.** Sphericity test conducted by Bartlett and Kaiser-Meyer-Olkin (KMO)

<b>Kaiser-Meyer-Olkin Measure of Sampling Adequacy</b>		
<b>Bartlett's Test of Sphericity</b>		<b>0.59</b>
	Approx. Chi-Square	66.31
	df	28
	Sig.	0.00