

**Table S1.** Classification of Igeo that represents various levels of pollution.

<b>0</b>	<b>Igeo&lt;0</b>	<b>Unpolluted</b>
<b>1</b>	0<Igeo<1	Unpolluted to moderately polluted
<b>2</b>	1<Igeo<2	Moderately polluted
<b>3</b>	2<Igeo<3	Moderately to strongly polluted
<b>4</b>	3<Igeo<4	Strongly polluted
<b>5</b>	4<Igeo<5	Strongly polluted
<b>6</b>	5<Igeo	Extremely polluted

**Table S2.** Background value for the respective metal.

<b>Metals</b>	<b>As</b>	<b>Cd</b>	<b>Cr</b>	<b>Cu</b>	<b>Pb</b>	<b>Ni</b>	<b>Zn</b>	<b>Hg</b>
Background value (mg/Kg)	6	0.6	26	16	31	16	120	0.2

**Table S3.** Toxic response factor quotients for the studied heavy metals.

<b>Heavy metals</b>	<b>As</b>	<b>Cd</b>	<b>Cr</b>	<b>Cu</b>	<b>Pb</b>	<b>Ni</b>	<b>Zn</b>	<b>Hg</b>
$T_r^i$	10	30	2	5	5	5	1	40

**Table S4.** Various ER and RI index levels represent risks to the aquatic environment.

<b>Class</b>	<b><math>E_r^i</math></b>	<b>Significance</b>	<b>RI value</b>	<b>Significance</b>
I	$\leq 40$	Low Risk	$\leq 150$	Low Risk
II	$>40 < 80$	Medium Risk	$>150 < 300$	Medium Risk
III	$>80 < 160$	High Risk	$\geq 300$	High Risk
IV	$>160 < 320$	High Risk	$\geq 600$	Very High Risk
V	$\geq 320$	Very High Risk	$\geq 1200$	

**Table S5.** Water quality level determination based on the Nemerow pollution index method.

<b>Water quality level</b>	<b>NPI</b>
<b>No pollution</b>	$\leq 0.7$
<b>Low pollution</b>	$>0.7 < 1$
<b>Moderate pollution</b>	$>1 < 2$
<b>High pollution</b>	$>2.00 < 3$
<b>Very High pollution</b>	$\geq 3$