

Table S1. Geographical Coordinates of Sampling Sites.

Sampling Stations	Coordinates
S1	24°54'36.81"N 91°49'23.96"E
S2	24°54'26.72"N 91°49'48.62"E
S3	24°54'13.27"N 91°50'9.56"E
S4	24°53'57.62"N 91°50'26.75"E
S5	24°53'36.60"N 91°50'21.44"E
S6	24°53'23.44"N 91°50'25.24"E
S7	24°53'20.36"N 91°50'47.98"E
S8	24°53'18.64"N 91°51'8.82"E
S9	24°53'13.99"N 91°51'32.54"E
S10	24°53'15.01"N 91°52'3.41"E
S11	24°53'5.07"N 91°52'28.08"E
S12	24°52'54.63"N 91°52'41.98"E
S13	24°52'44.50"N 91°53'5.91"E
S14	24°52'35.99"N 91°53'43.18"E
S15	24°52'29.64"N 91°54'9.93"E

Table S2. AAS conditions during analysis.

Metals	Flame Type	Wave Length	Gas Flow (Liter/min)
Fe	Air-C ₂ H ₂	248.3	1.8 L/min
Zn	Air-C ₂ H ₂	213.9	2.0 L/min
Cu	Air-C ₂ H ₂	324.8	1.8 L/min
Mn	Air-C ₂ H ₂	279.5	2.0 L/min
Ni	Air-C ₂ H ₂	232.0	2.5 L/min
Pb	Air-C ₂ H ₂	217.0	2.0 L/min
Cd	Air-C ₂ H ₂	228.8	1.8 L/min

Table S3. Metal Concentrations throughout the study area (units in mg/kg).

Sampling Sites	Cu	Zn	Fe	Mn	Pb	Cd	Ni
S1	3.050	2.490	238.000	207.300	17.000	0.030	113.900
S2	2.200	4.710	389.000	102.100	12.200	0.060	73.000
S3	2.550	8.340	295.000	58.500	11.300	0.026	65.560
S4	2.790	3.300	359.000	28.500	13.900	0.015	112.660
S5	3.450	7.080	363.000	208.500	16.300	0.100	108.050
S6	2.550	3.360	297.000	62.700	1.080	0.015	92.310
S7	5.050	8.100	400.000	85.800	27.750	0.150	130.640
S8	4.350	9.700	312.000	99.400	23.730	0.350	159.400
S9	3.950	17.560	325.000	223.450	41.230	0.290	172.500
S10	8.520	19.800	397.000	303.490	38.770	0.090	189.620
S11	6.650	17.900	418.000	209.600	35.810	0.040	165.560
S12	2.650	11.490	170.000	74.700	1.550	0.079	86.540
S13	3.930	15.650	270.000	4.200	17.400	0.165	78.670
S14	2.040	2.350	260.000	107.400	15.300	0.064	109.320
S15	1.590	2.430	270.000	26.400	11.300	0.017	83.430

Figure S1. Probability and Cumulative probability of Ecological Risk factor of Ni.

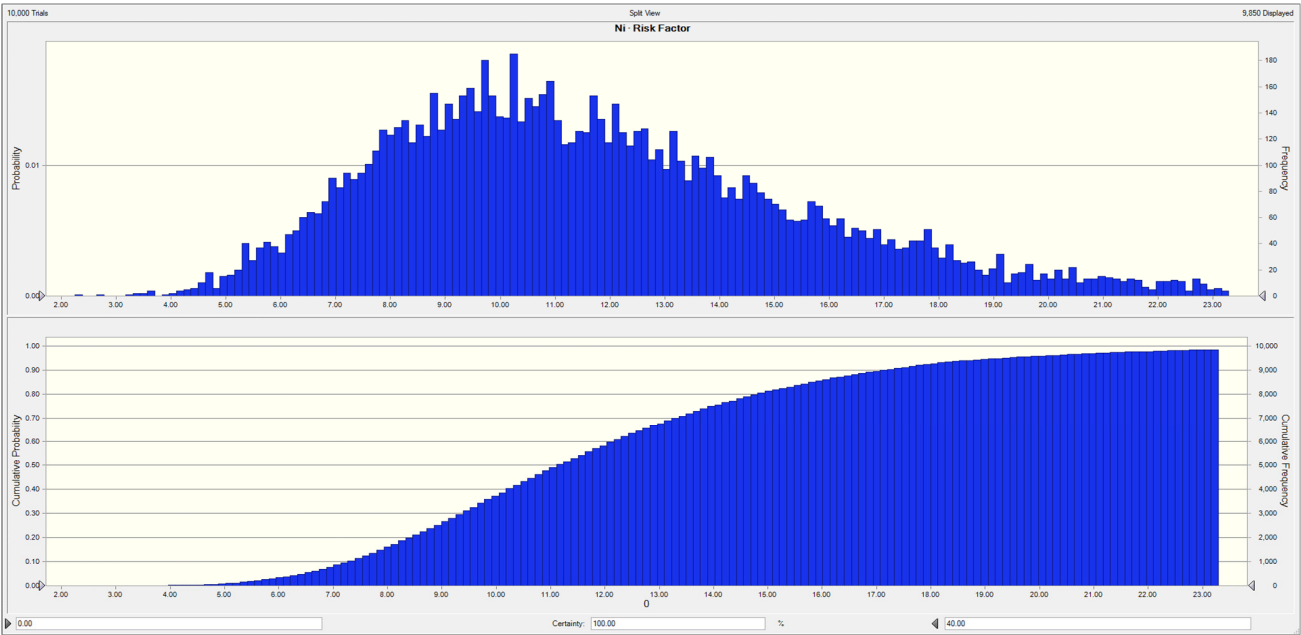


Figure S2. Probability and Cumulative probability of Ecological Risk factor of Pb.

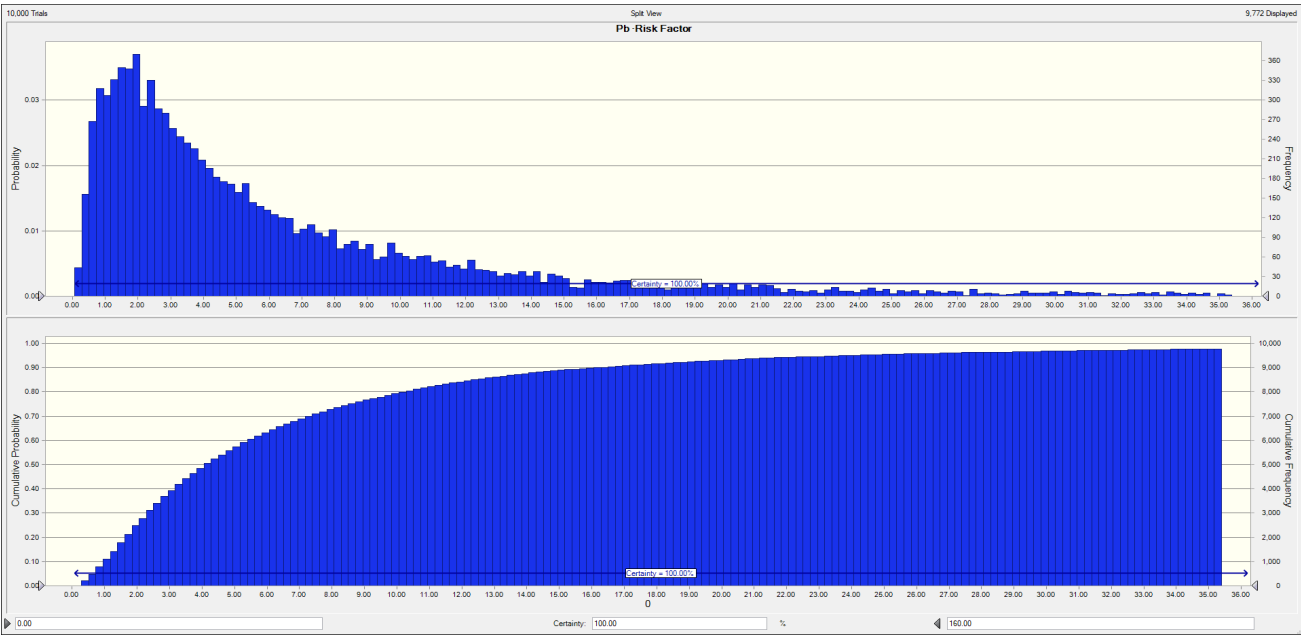


Figure S3. Probability and Cumulative probability of Ecological Risk factor of Cd.

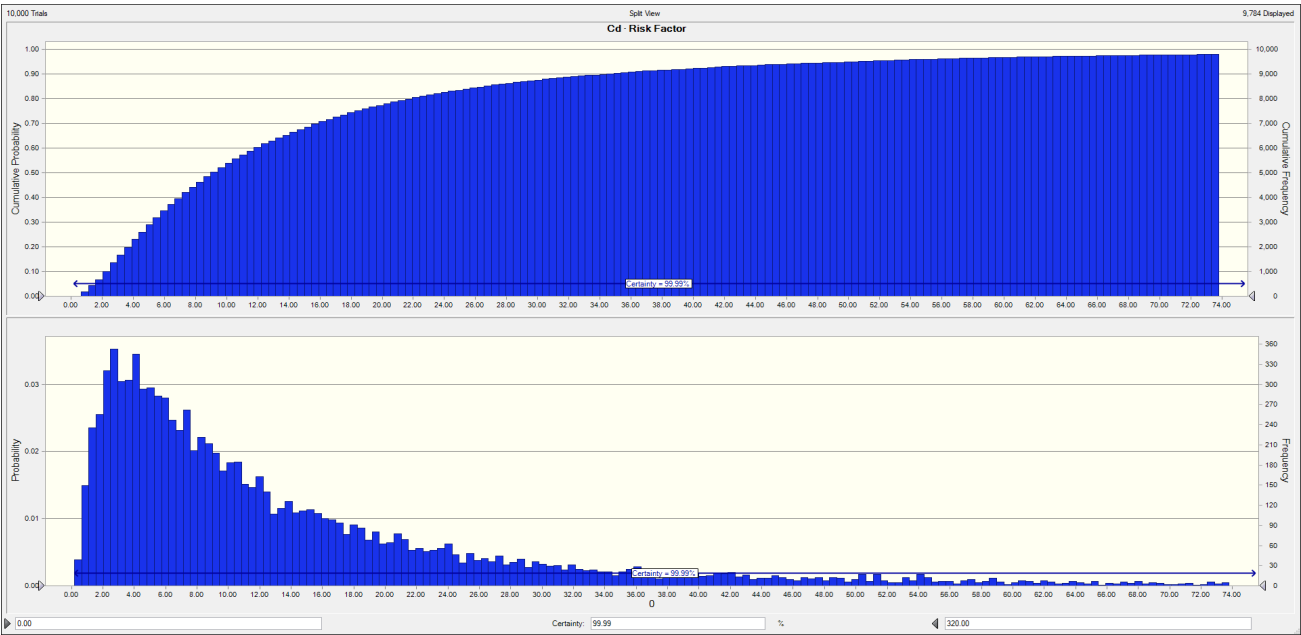


Figure S4. Probability and Cumulative probability of Ecological Risk factor of Zn.

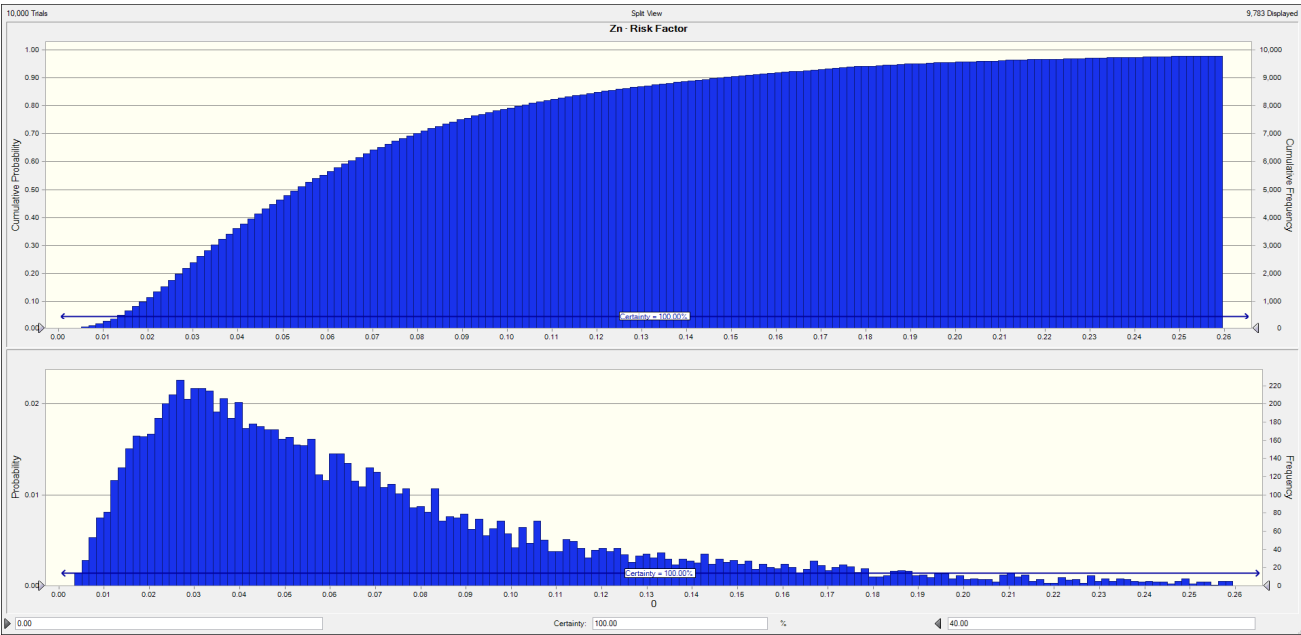


Figure S5. Probability and Cumulative probability of Ecological Risk factor of Cu.

