Supplementary Table 1. Basic statistics for the microbial and physiochemical parameters.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | pH | TDS | Free Cl | Turbidity | MPN/Coliform | MPN/E.coli |
|  |  | ppm | ppm | NTU |  |  |
| Min | 4.994 | 57.785 | 0.030 | 1.200 | 0.00 | 0.00 |
| Max | 8.335 | 276.000 | 2.140 | 3.060 | 0.00 | 0.00 |
| Mean | 7.073 | 152.159 | 0.324 | 2.570 | 0.00 | 0.00 |
| WHO limit | 6.5-8.5 | 1000 | 0.50 | 5.00 | 0.00 | 0.00 |
| St. dev | 0.593 | 55.416 | 0.455 | 0.433 |  |  |

Supplementary Table 2. Basic statistics for the heavy metals, ions and physiochemical parameters.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Al | Cd | Pb | Cr | F- | Cl- | NO3- | SO4- | Na+ | K+ | Mg+2 | Ca+2 | Br- | Li+ |
| Min (ppm) | 0.000 | 0.000 | 0.010 | 0.005 | 0.000 | 10.578 | 0.000 | 0.700 | 9.291 | 0.100 | 0.365 | 6.373 | 0.020 | 0.090 |
| Max (ppm) | 0.470 | 0.003 | 0.039 | 0.056 | 0.170 | 66.600 | 8.100 | 27.436 | 37.100 | 6.595 | 5.100 | 43.700 | 0.370 | 0.190 |
| Mean (ppm) | 0.060 | 0.002 | 0.024 | 0.025 | 0.100 | 26.154 | 0.607 | 7.758 | 17.118 | 1.331 | 1.964 | 19.479 | 0.120 | 0.130 |
| WHO limit | 1.00 | 0.003 | 0.05 | 0.05 | 1.50 | 250 | 50.00 | 250 | 200 | 12.00 | 50.00 | 75.00 | 0.7 | 0.5 |
| St. dev | 0.110 | 0.001 | 0.006 | 0.009 | 0.034 | 9.967 | 1.202 | 6.296 | 6.708 | 1.333 | 0.937 | 7.711 | 0.060 | 0.030 |

Supplementary Table 3. Correlation coefficient between analyzed parameter.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | pH | Turb | TDS | Free Cl² | Al | Cd | Cr | Pb | F | Cl | NO³ | SO⁴ | Na | K | Mg | Ca |
| pH | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Turb. | -0.27 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TDS | 0.19 | 0.14 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Free Cl² | -0.16 | -0.23 | -0.14 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| Al | 0.04 | -0.05 | 0.63 | -0.02 | 1 |  |  |  |  |  |  |  |  |  |  |  |
| Cd | 0.15 | -0.15 | -0.71 | 0.02 | -0.86 | 1 |  |  |  |  |  |  |  |  |  |  |
| Cr | 0.03 | -0.22 | 0.19 | 0.16 | 0.05 | -0.19 | 1 |  |  |  |  |  |  |  |  |  |
| Pb | -0.45 | -0.29 | -0.24 | -0.07 | 0.07 | 0.07 | -0.52 | 1 |  |  |  |  |  |  |  |  |
| F | 0.01 | -0.15 | 0.211 | -0.22 | 0.16 | -0.11 | 0.46 | -0.22 | 1 |  |  |  |  |  |  |  |
| Cl | 0.06 | 0.12 | 0.931 | -0.27 | 0.57 | -0.65 | -0.04 | 0.07 | 0.10 | 1 |  |  |  |  |  |  |
| NO³ | -0.42 | 0.18 | -0.37 | 0.02 | -0.16 | 0.06 | 0.25 | 0.04 | 0.01 | -0.36 | 1 |  |  |  |  |  |
| SO⁴ | 0.10 | 0.11 | 0.88 | 0.05 | 0.81 | -0.80 | 0.32 | -0.29 | 0.35 | 0.72 | -0.13 | 1 |  |  |  |  |
| Na | -0.17 | 0.15 | 0.78 | -0.26 | 0.30 | -0.48 | -0.13 | 0.19 | 0.08 | 0.92 | -0.29 | 0.51 | 1 |  |  |  |
| K | -0.04 | 0.05 | 0.72 | -0.16 | 0.86 | -0.75 | -0.03 | 0.08 | 0.12 | 0.73 | -0.07 | 0.79 | 0.56 | 1 |  |  |
| Mg | 0.11 | 0.11 | 0.93 | -0.03 | 0.80 | -0.82 | -0.03 | -0.24 | 0.31 | 0.82 | -0.19 | 0.98 | 0.63 | 0.84 | 1 |  |
| Ca | 0.48 | 0.07 | 0.86 | -0.03 | 0.61 | -0.63 | 0.36 | -0.49 | 0.21 | 0.67 | -0.35 | 0.84 | 0.38 | 0.55 | 0.83 | 1 |