Deterministic Methodology for Determining the Optimal Sampling Frequency of Water Quality Monitoring Systems

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Supplementary Materials

Distribution patterns of turbidity, pH, DO, BOD, Ca^{2+} , Mg^{2+} , Na^+ , SO_4^{2-} , PO_4^{3-} , NO^3 , Cd, Cr and Pb for the cases 1, 15 and 30, respectively.



Figure S1. Distribution patterns of Turbidity; (a) Case 1, (b) Case 15, (C) Case 30.



Figure S2. Distribution patterns of pH; (a) Case 1, (b) Case 15, (C) Case 30.



Figure S3. Distribution patterns of TH; (a) Case 1, (b) Case 15, (C) Case 30.



patterns of DO; (a) Case 1, (b) Case 15, (C) Case 30.



Figure S5. Distribution patterns of BOD; (a) Case 1, (b) Case 15, (C) Case 30.



Figure S6. Distribution patterns of Ca²⁺; (a) Case 1, (b) Case 15, (C) Case 30.



Figure S7. Distribution patterns of Mg²⁺; (a) Case 1, (b) Case 15, (C) Case 30.



Figure S8. Distribution patterns of Na+; (a) Case 1, (b) Case 15, (C) Case 30.



Figure S9. Distribution patterns of NO3⁻; (a) Case 1, (b) Case 15, (C) Case 30.



Figure S10. Distribution patterns of PO4³⁻; (a) Case 1, (b) Case 15, (C) Case 30.

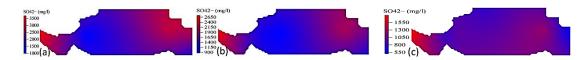


Figure S11. Distribution patterns of SO42-; (a) Case 1, (b) Case 15, (C) Case 30.



Figure S12. Distribution patterns of Cd; (a) Case 1, (b) Case 15, (C) Case 30.



Figure S13. Distribution patterns of Cr; (a) Case 1, (b) Case 15, (C) Case 30.



Figure S14. Distribution patterns of Pb; (a) Case 1, (b) Case 15, (C) Case 30.