



Supplementary Materials

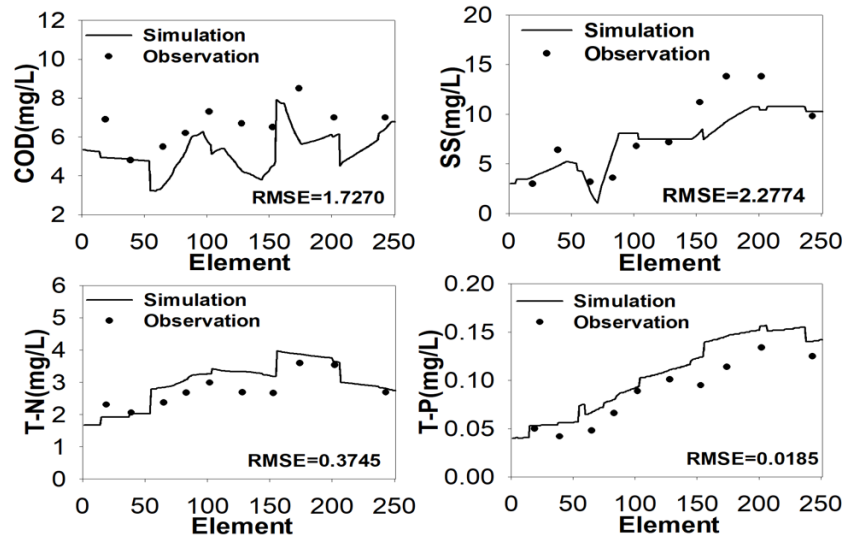


Fig. S1. Calibration results for each water quality factor

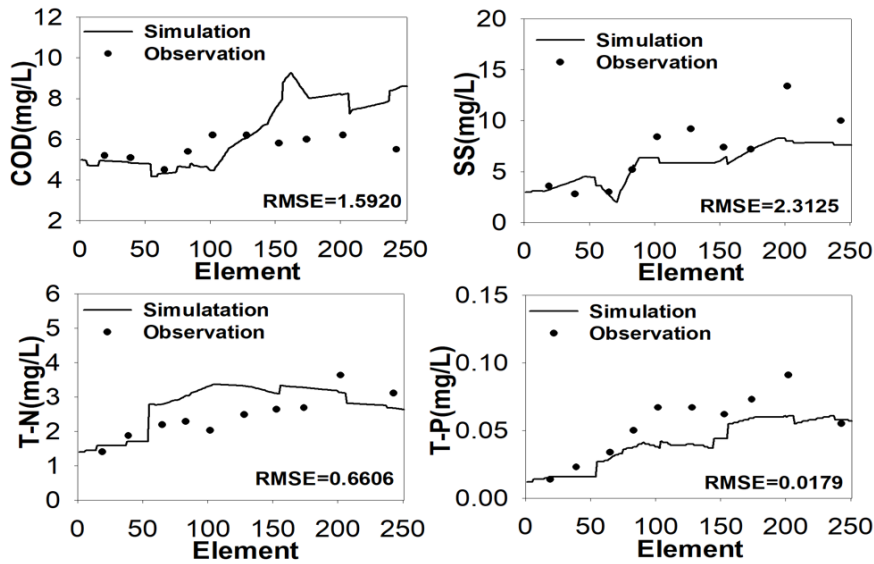


Fig. S2. Validation results for each water quality factor

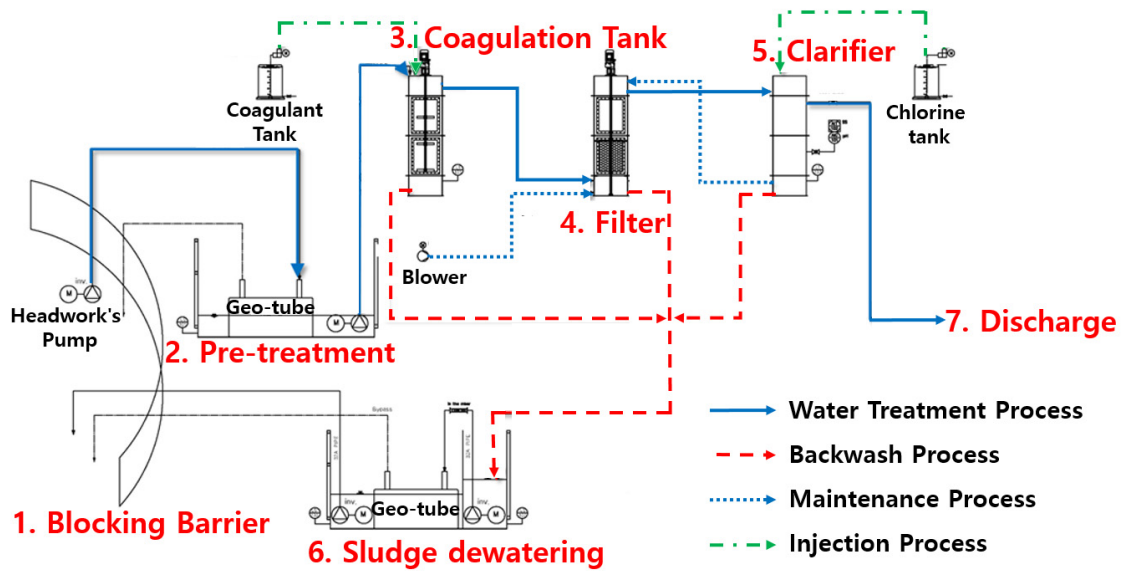


Fig. S3. Schematic diagram for the movable treatment unit

Table S1. Classification of computational elements used in QUAL2E

Element	Symbols	Definition
Headwater	H	The top of the main stream and tributary
Standard	S	The most common sub-section element
Upstream of a junction	U	The mainstream section right above the branch
Junction	J	The mainstream sub-section at the point where the tributaries join
Most downstream	E	The lowest part of the river
Point source	P	The sub-section in which a point source of pollution exists
Withdrawal	W	The sub-section where water reduces through water-intake
Dam	D	The sub-section where the dam is located