

Supplementary data

(Journal name: Water)

Table S1. Specifics of lab scale HSSF CW and its detection results.

Index	Area A	Area B	Area C	Area D
Size L×W×H (m)	0.4×0.4×0.5	0.4×1.0×0.5	0.4×1.0×0.5	1.4×1.0×0.5
Mixed sediment (L)	12.3	25.2	13.1	0
Porosity (%)	19.5	22.5	28.3	35.0
Preset ϕ Sed. (%)	44.0	36.0	19.0	0
Detected ϕ Sed. (%) ¹	60.3±14.1	54.4±9.5	19.4±9.7	4.7±0.19
Detected ϕ Sed. (%) ²	48.7±3.2	33.9±3.5	20.9±2.6	3.0±0.1

¹ Four-probe method; ² Two-probe method.