Supporting information for

**Treatment of polluted urban surface waters by sponge based aerobic biofilm reactor: Purification performances and resilience**

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There are 4 pages in this SI, containing 3 figures.



**Fig. S1** Appearances of the biofilms attached on polyurethane sponges in SABR at different times. (a) 0 day; (b) 20th days; (c) 100th days (Only filling ratio by 80% were present.)





**Fig. S2** Water qualities in continuous experiments by SABRs (Filling ratios by 20%, 40%, 60%, 80% were referred to as FR20, FR40, FR60, and FR80, respectively).



**Fig. S3** Purification performances of SABRs in stageⅤ(TOC were 59.56±3.09 mg L-1 at the beginning of the experiment. Filling ratios by 20%, 40%, 60%, 80% were referred to as FR20, FR40, FR60 and FR80, respectively).