

Table S1: Results of physico-chemical characterization from hemodialysis wastewater before and after treatment

| Parameters | pH | Conductivity (mS/cm) | Salinity (g/l) | COD (mg/l) | Cl ⁻ (mg/l) | Total nitrogen (mg N/l) | PO ₄ ³⁻ (mg/l) | SO ₄ ²⁻ (mg/l) | Mg ²⁺ (mg/l) | Ca ²⁺ (mg/l) | Na ⁺ (mg/l) |
|-------------------------|------|-------------------------|-------------------|---------------|---------------------------|----------------------------|---|---|----------------------------|----------------------------|---------------------------|
| Raw HWW | 7.46 | 13.53 | 9.11 | 262.03 | 3976 | 143 | 6.47 | 110.64 | 13.88 | 21.09 | 3757 |
| After EC process | 9.15 | 15.19 | n.d | 0 | 3692 | n.d | 0.4 | 49 | 2.3 | 1.36 | 1.38 |
| After EO process | 8.53 | 12.84 | n.d | 0 | 3195 | 15 | n.d | 43.12 | 1.98 | 0.88 | 1.01 |
| After Absorption | 8.57 | 14.73 | n.d | 0 | 3856 | n.d | 0.22 | n.d | n.d | 0.26 | n.d |

n.d: Not determined