## Supporting Information

## 3316 in reclaimed water

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07/12/2021, the ESI was first published 02/12/2021. incorrect.

## S1. The detailed for electrochemical test

 pitting potential $\left(E_{\text {pit }}\right)$.Xi Chen, ${ }^{a}$ Hongyan Liu, ${ }^{a}$ Xiang Sun, ${ }^{a}$ Botao Zan ${ }^{\text {b }}$ and Meisheng Liang *a
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This version of the Electronic Supplementary Information replaces a previous copy in which the author order was

In order to reach a stable state for the experimental system before potentiodynamic polarization tests and EIS measurements, the open circuit potential method was used to monitor the corrosion potential ( $\mathrm{E}_{\text {corr }}$ ) of each sample for 30 min . Then EIS measurements were initially performed because its weak influence to working electrode, and the date were recorded using $\mathrm{E}_{\text {corr }}$ in a frequency range from $10^{5} \mathrm{~Hz}$ to $10^{-2} \mathrm{~Hz}$ with a sweeping frequency range of 12 points per decade frequency. After recording, EIS spectra were fitted by Z-view software. Finally, the potentiodynamic polarization tests with potential scan rate of $0.0005 \mathrm{~V} \mathrm{~s}^{-1}$ were carried out for analyzing the pitting corrosion susceptibility of working electrode, where the potential value was defined as the


Fig. S1 Calculated effective capacitance ( $\mathrm{C}_{\text {eff }}$ ) of AISI 304 and AISI 316 at different chloride concentration.

| $\mathrm{Cl}^{-} /(\mathrm{mg} / \mathrm{L})$ | 25 | 50 | 100 | 200 | 400 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathrm{I}_{\text {Corr }} / 304\left(\mathrm{nA} \cdot \mathrm{cm}^{2}\right)$ | -41 | -55 | -60 | -72 | -162 |
| $\mathrm{I}_{\text {Corr }} / 316\left(\mathrm{nA} \cdot \mathrm{cm}^{2}\right)$ | -30 | -44 | -49 | -59 | -74 |
| $\mathrm{E}_{\text {Corr }} / 304(\mathrm{mV})$ | 100 | 298 | 334 | 506 | 926 |
| $\mathrm{E}_{\text {Corr }} / 316(\mathrm{mV})$ | 60 | 162 | 284 | 395 | 595 |



Fig. S3 SEM images of AISI 304 (a) and AISI 316 (b) after being corroded in $200 \mathrm{mg} / \mathrm{L}$ of $\mathrm{Cl}^{-}$.

Table S1 $\mathrm{I}_{\text {Corr }}$ and $\mathrm{E}_{\text {Corr }}$ data for AISI 304 and AISI 316 in potentiodynamic polarization test

