Supporting Information

Figure S1. Pseudo-first-order kinetic model for the adsorption of phosphate by E33 and modified E33

|  |
| --- |
| Table S1. Weight Percent of Various Elements on the Adsorbents’ Surfaces |
| Element | E33 (%) | E33/Mn (%) | E33/AgI (%) | E33/AgII (%) |
| Fe | 93.10 | 75.80 | 91.97 | 94.11 |
| P | 6.90 | 4.39 | 5.25 | 4.00 |
| Mn | N/A | 17.66 | N/A | N/A |
| Ag | N/A | N/A | 1.07 | 0.66 |

Table S2. Concentration of Mn and Ag in Solution after Isotherm Experiment with EPA Secondary Drinking Water MCL

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | E33 | E33/Mn | E33/AgI | E33/AgII | EPA MCL (mg L-1) |
| [Mn] (mg L-1) | N/A | 0.0012 | N/A | N/A | 0.05 |
| [Ag] (mg L-1) | N/A | N/A | Not detected | Not detected | 0.10 |