**Supporting Information**

**Advanced Phosphorus Recovery from Municipal Wastewater using Anoxic/Aerobic Membrane Bioreactors and Magnesium-based Pellets**

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Figure S1. Magnesium carbonate pellets.



Figure S2. A bench-scale continuous flow column packed with MgCO3 pellets for P recovery from the MBR effluent.

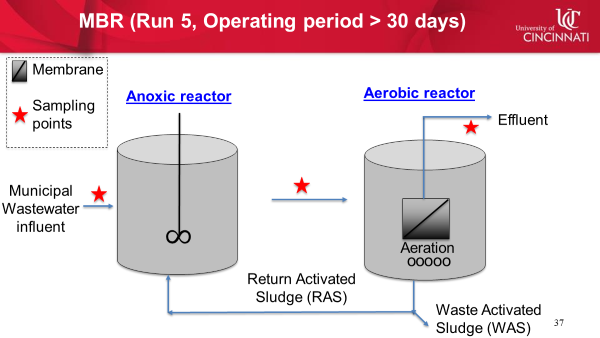


Figure S3. Anoxic/aerobic membrane bioreactor (MBR) system (Run 5).

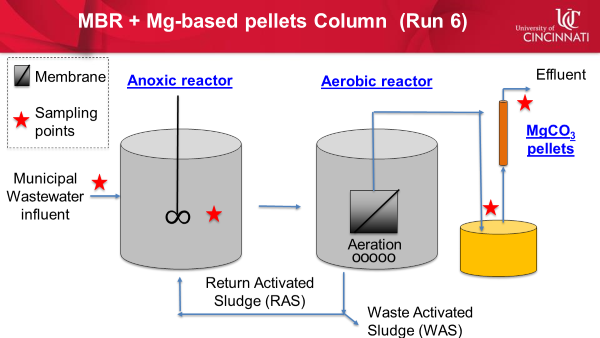


Figure S4. Schematic diagram of the MBR system with magnesium carbonate pellets for enhanced P recovery (Run 6).

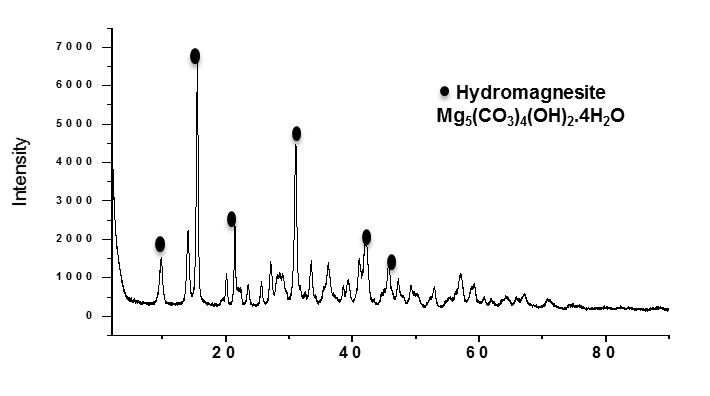
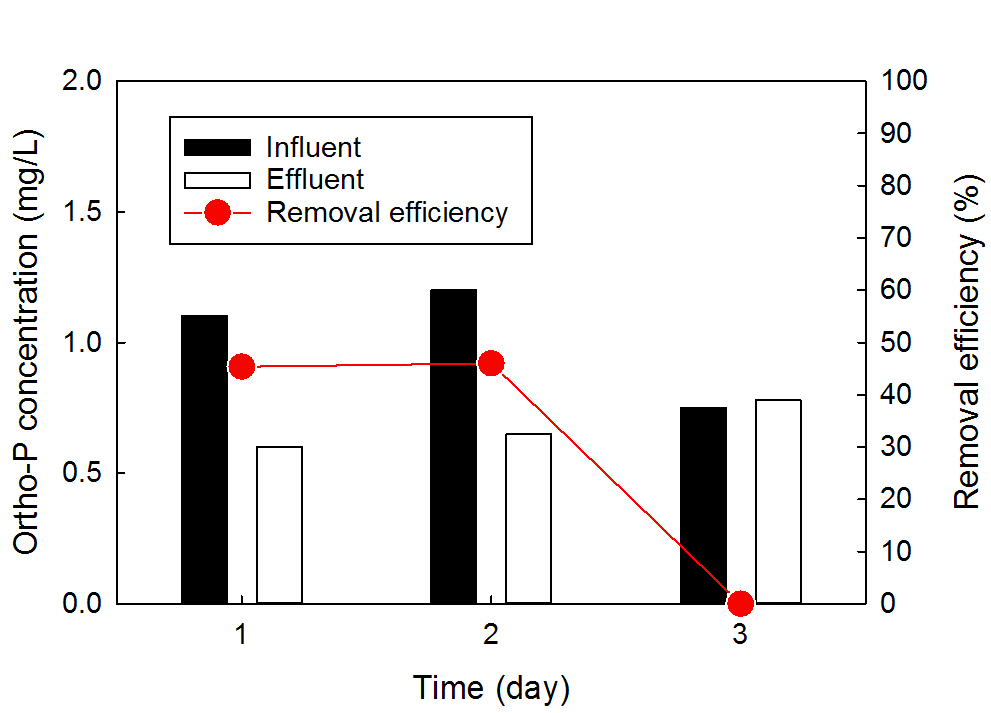


Figure S5. A typical XRD pattern of pristine MgCO3 pellets.

Figure S6. P recovery from raw wastewater using the MgCO3 pellets (Run 1).

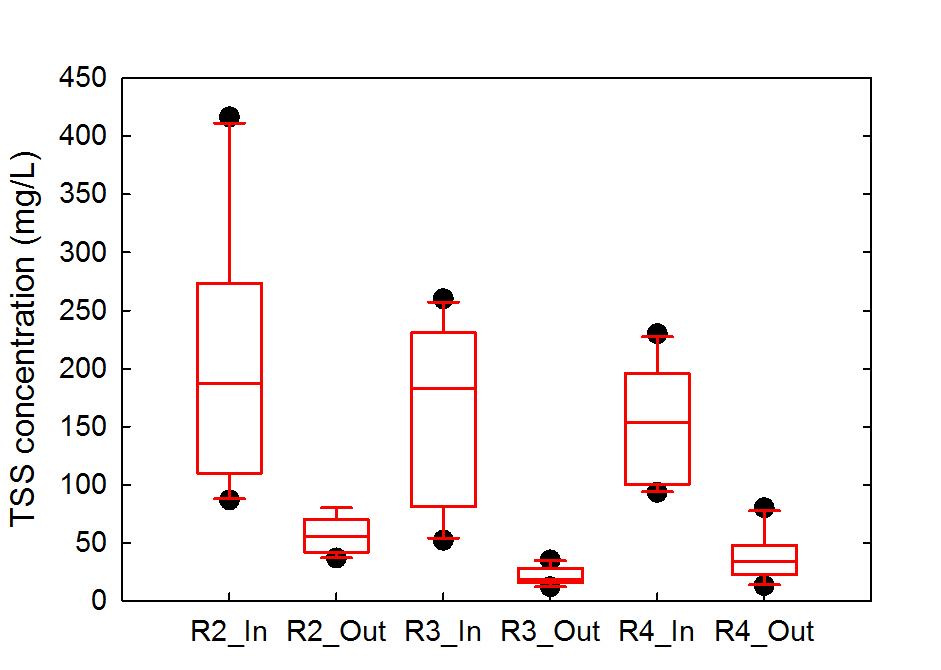


Figure S7. Distribution of TSS concentrations in primary effluent and the MgCO3 column effluent (Runs 2 - 4).

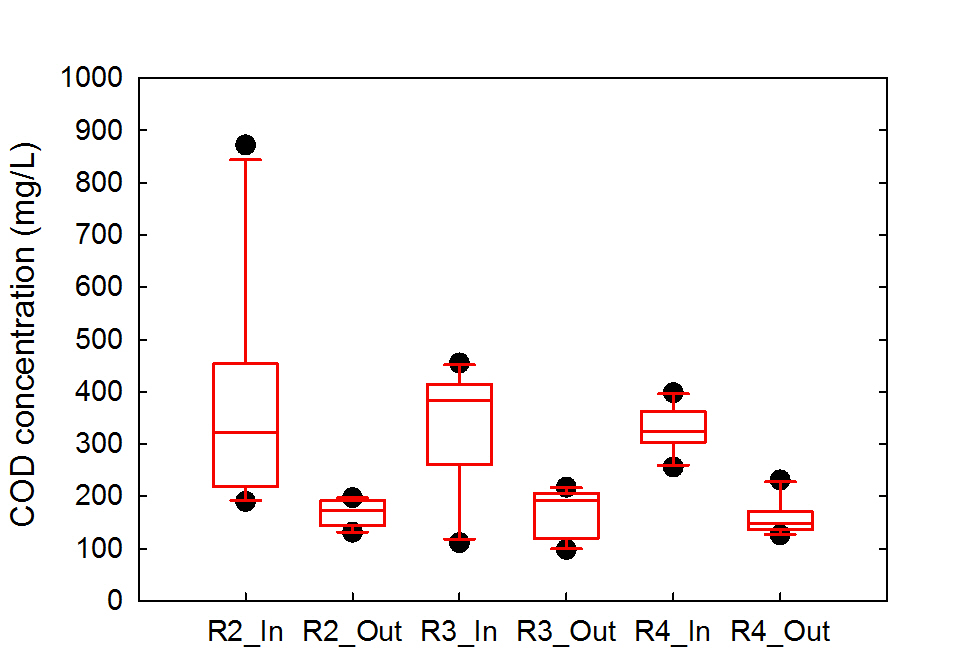


Figure S8. Distribution of COD concentrations in primary effluent and the MgCO3 column effluent (Runs 2 - 4).

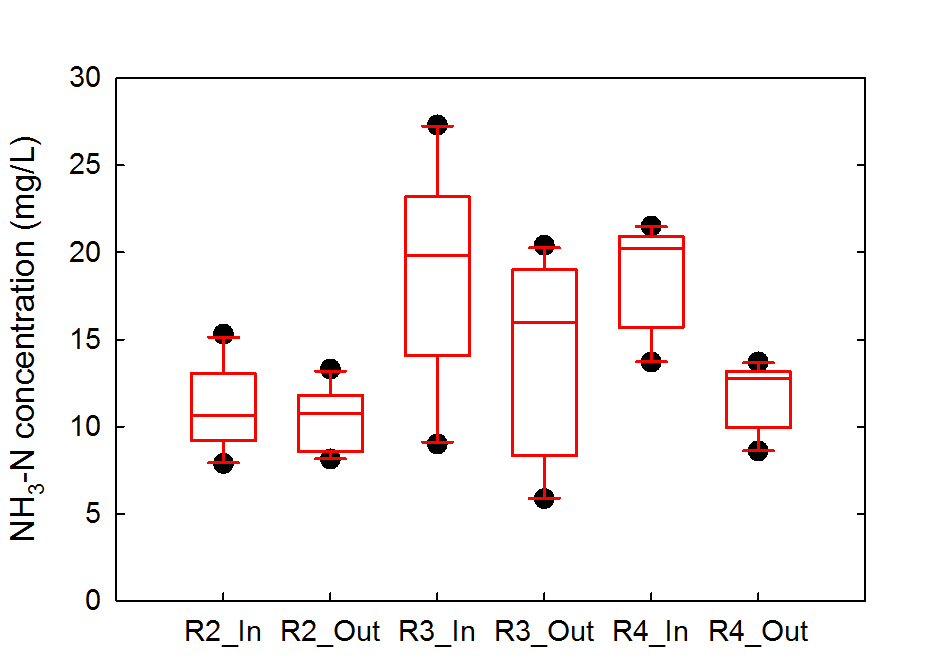


Figure S9. Distribution of NH3-N concentrations in primary effluent and the MgCO3 column effluent (Runs 2 - 4).



Figure S10. P recovery from primary effluent using the MgCO3 pellets at 10 L/day (Run 2).

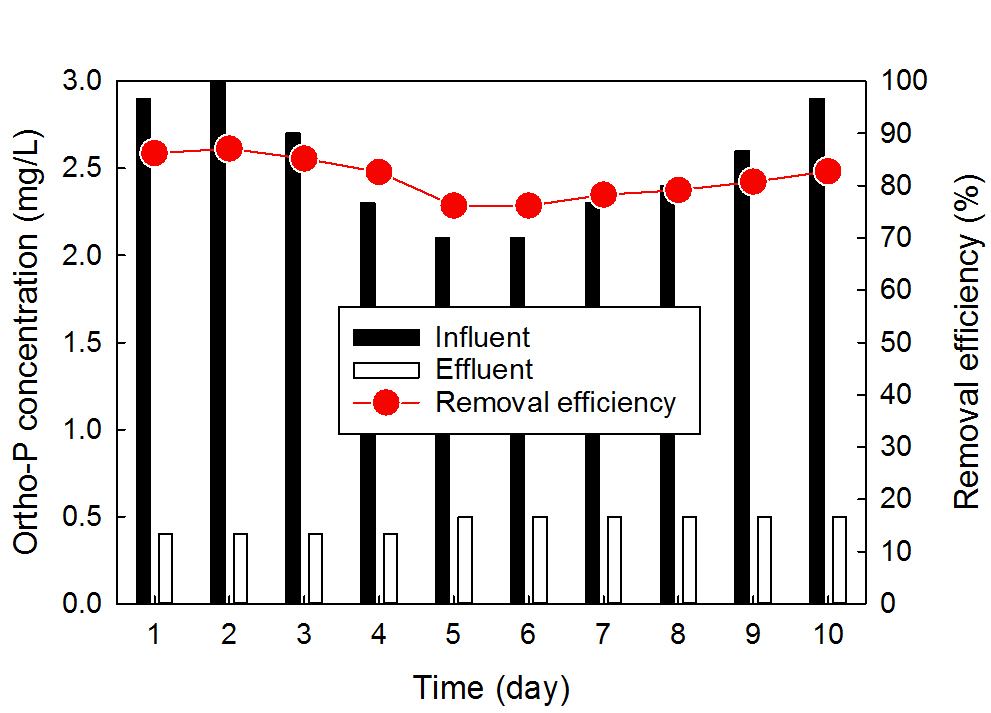


Figure S11. P recovery from the MBR effluent using the MgCO3 pellets at 5.0 L/day (Run 3).

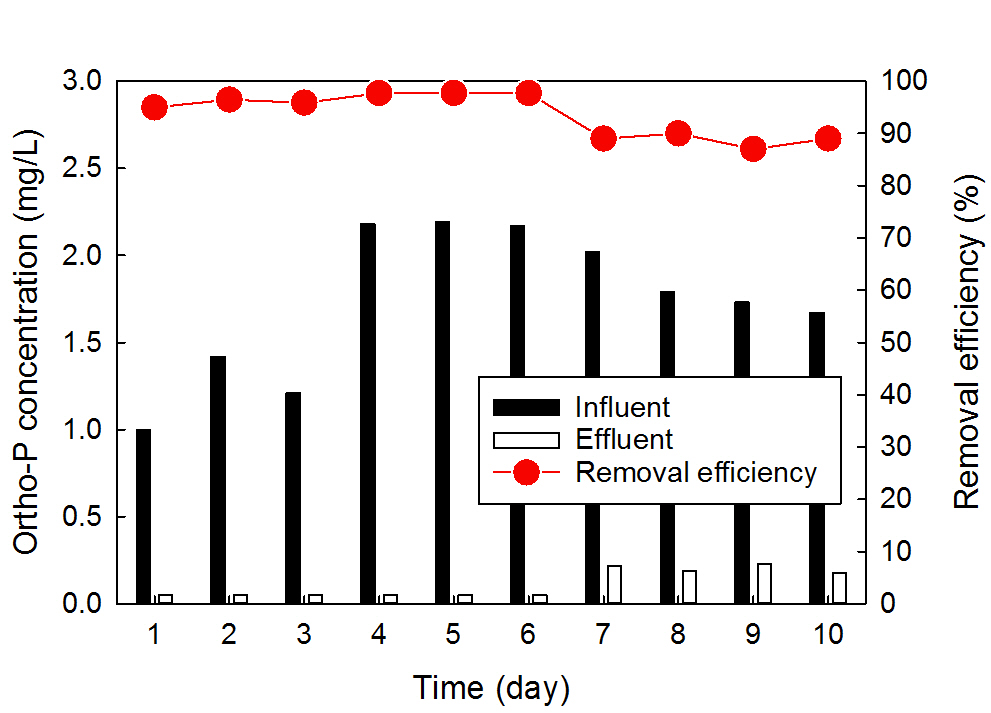


Figure S12. P recovery from primary effluent using the MgCO3 pellets at 2.5 L/day (Run 4).

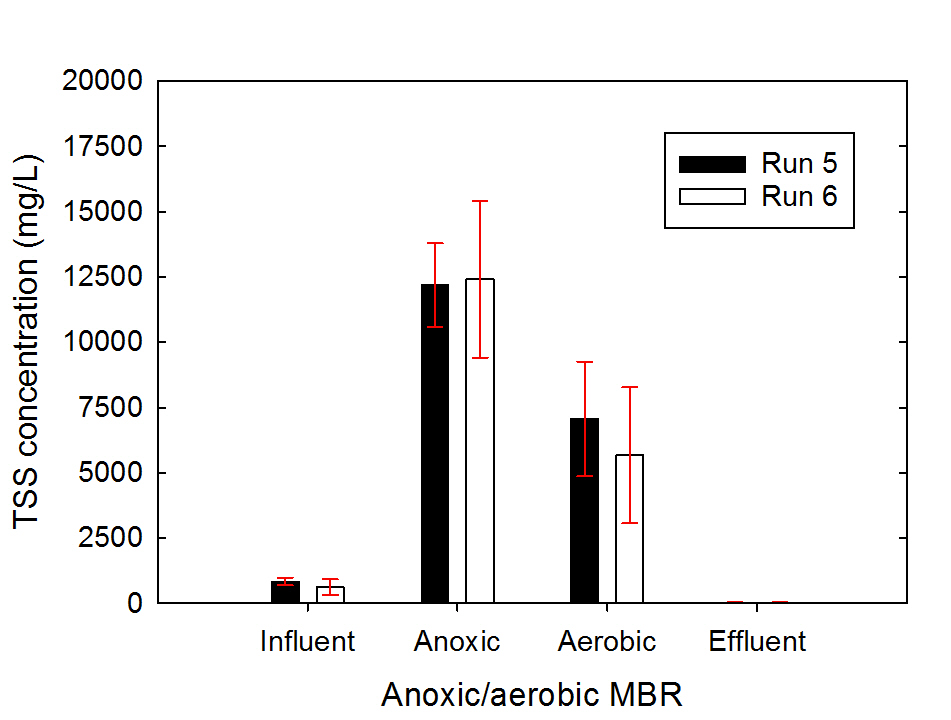


Figure S13. Changes in TSS concentration through the anoxic/aerobic MBR system (Runs 5 - 6).

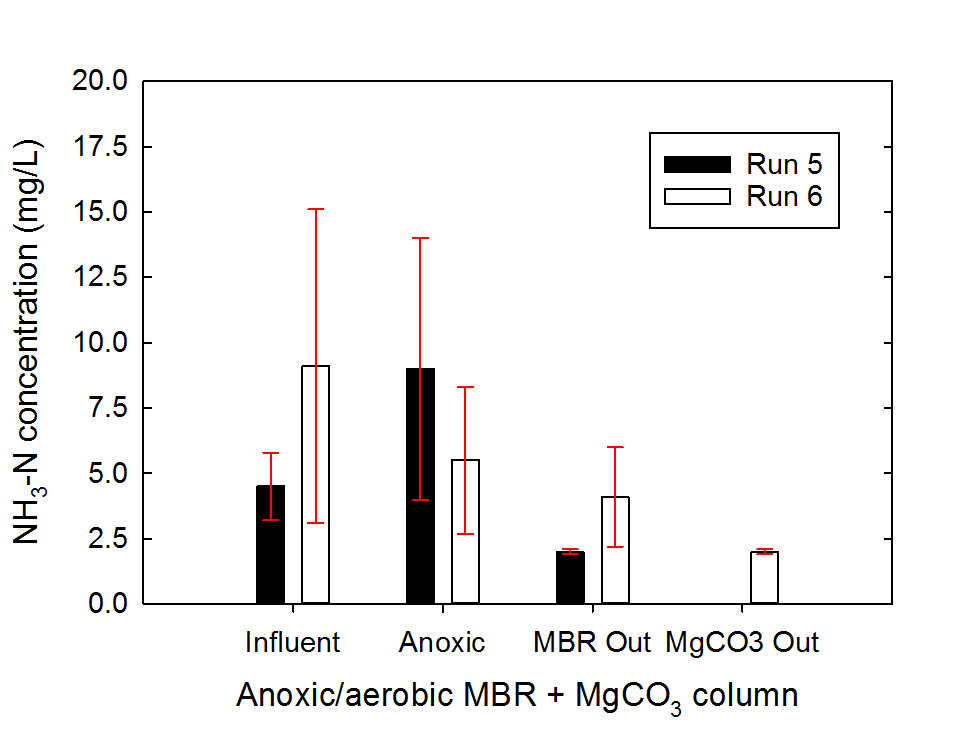


Figure S14. Changes in NH3-N concentration through the anoxic/aerobic MBR system and the MgCO3 column (Runs 5 - 6).