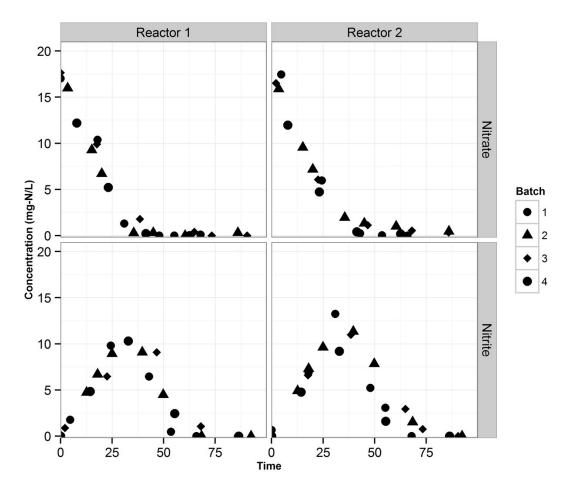
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SUPPLEMENTARY INFORMATION

Figure S1:Batch Denitrification data during Steady State Operation for Reactor 1 and Reactor 2.

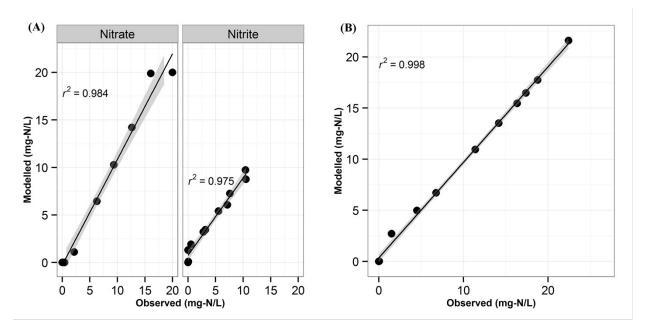


Figure S2: Modelled vs Observed Plots with R^2 values for Calibration Datasets (A) Typical Batch- 20 mg NO₃ .N/L (E2) (B) Nitrite-Only 30 mg NO₂ .N/L (E3). The shaded areas represent confidence intervals for the trendline.

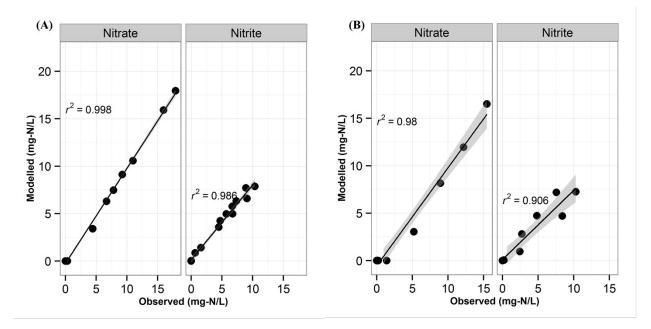


Figure S3: Modelled vs Observed Plots with R² values for Validation Datasets (A) MFC Reactor-1 (b) MFC Reactor-2. The shaded areas represent confidence intervals for the trendline.

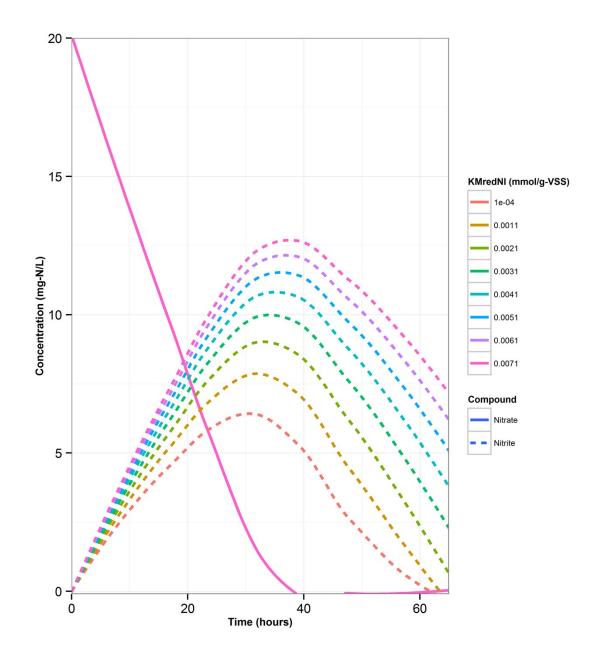


Figure S4: Sensitivity of the model to K_{mredNI}

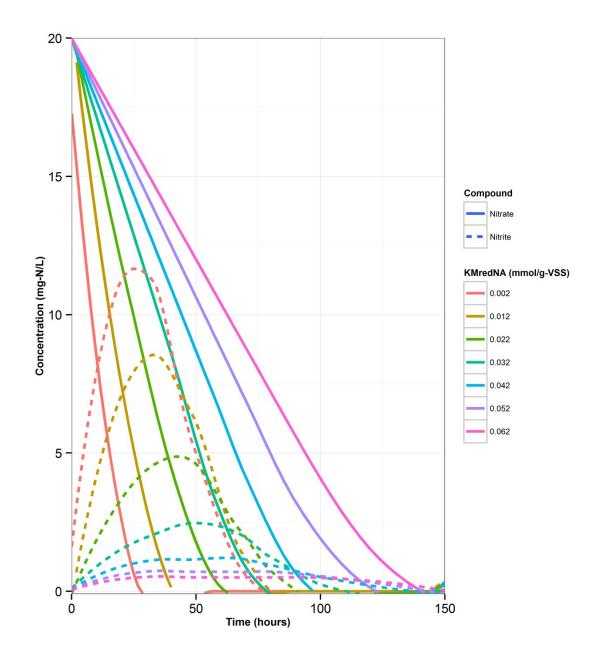


Figure S5: Sensitivity of the model to K_{mredNA}