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Evaluating the Impact of River Settlement on phosphorus uptake

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Phosphorus sorption to sediments is an important process that can buffer dissolved P concentrations. Both the amount of P and sediment as well as the mode of binding can influence transport of P in aquatic ecosystems. This study focused on determining sediment stocks in the Maumee River basin and quantifying reactive and total P extracted from sediment by a sequential multi-step process. Quantification of sediment stock will enable more accurate modeling of P retention and ultimately P loading into western Lake Erie.