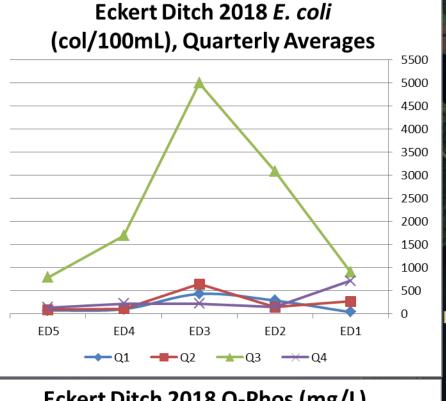


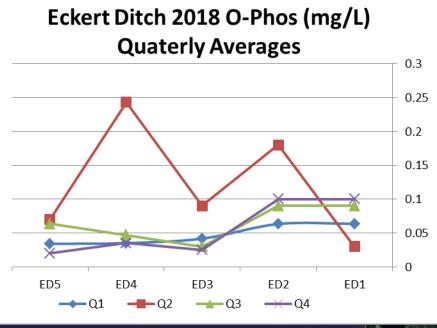


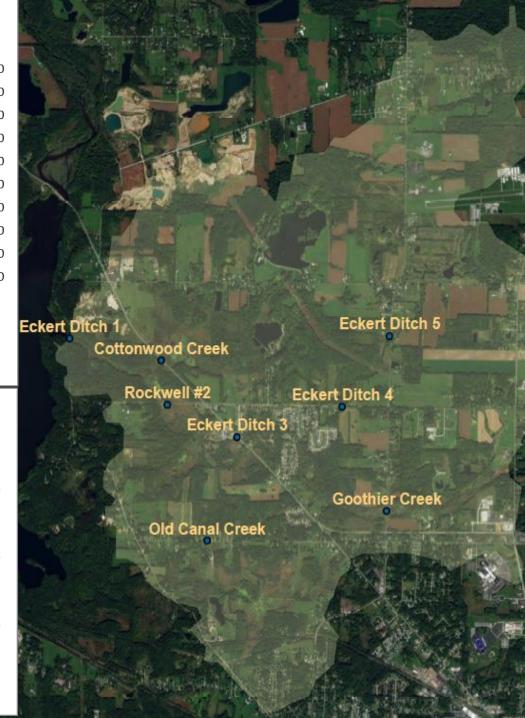


Ohio Water Development Authority (OWDA) R&D Grant and OEPA 319:

Collaboration with the University of Akron College of Engineering

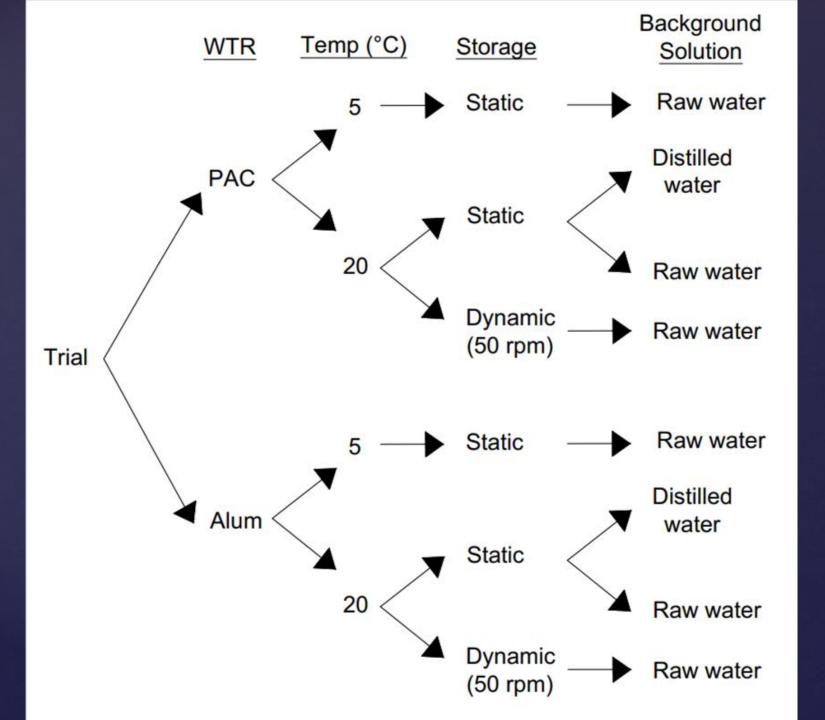


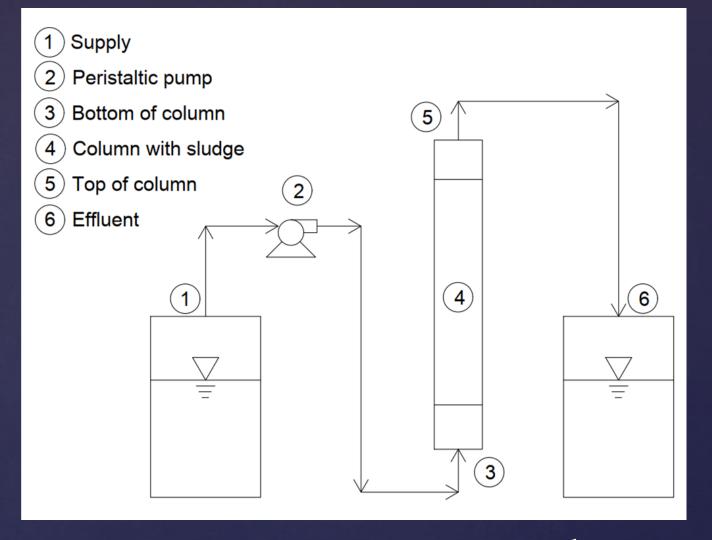




Characteristic	Alum WTR	PAC WTR
Water Content	48.42%	84.00%
рН	6.99	6.81
Dominant Particle size	Sand	Sand







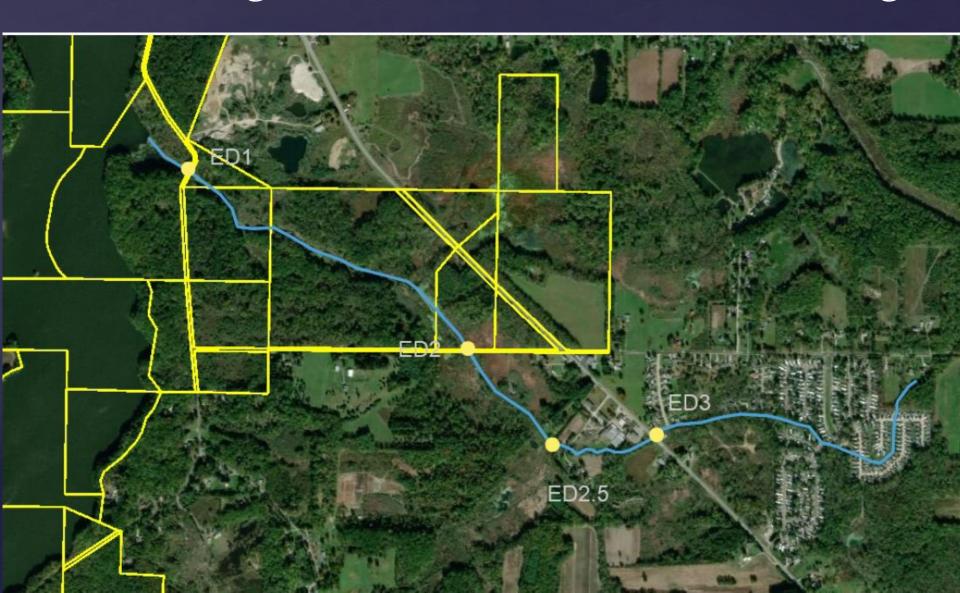
Estimating PO₄ Uptake

Alum WTR: 9.00 mg/g PAC WTR: 7.14 mg/g

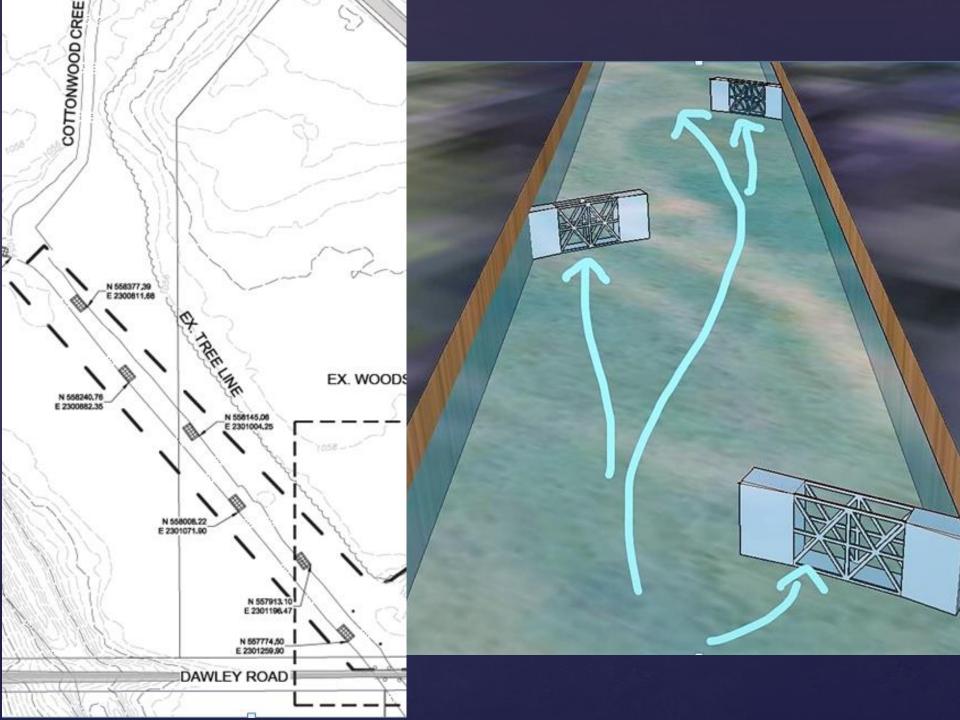
PO4 Uptake



Potential approaches to addressing Eckert Ditch nutrient loading



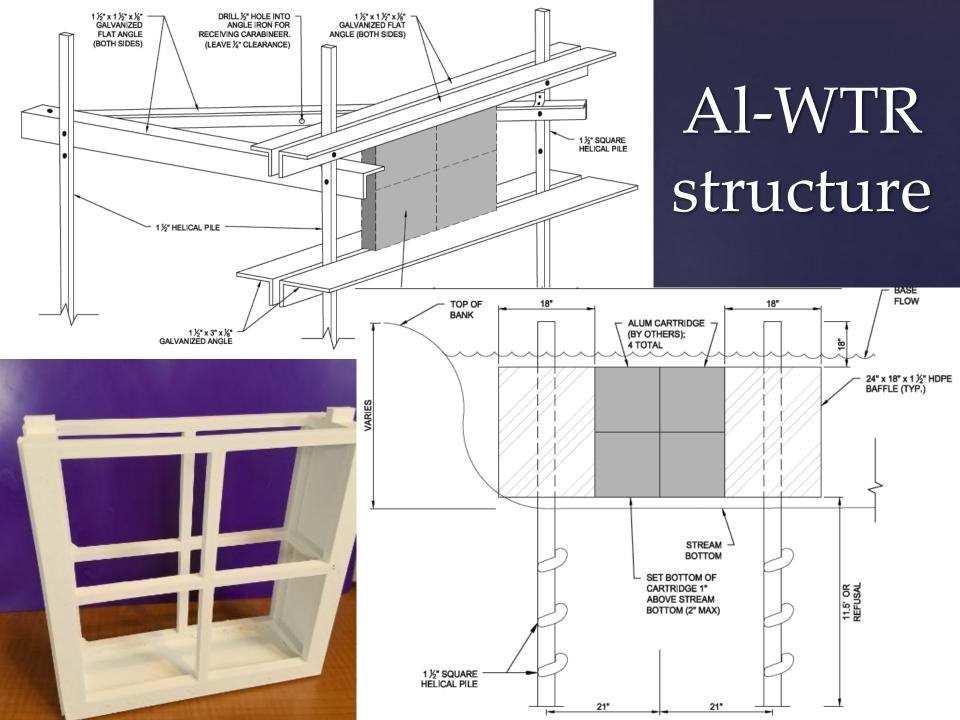




Alum WTR: 9.00 mg/g PAC WTR: 7.14 mg/g

PO4 Uptake





But, why?

& Cartridge system pros:

- Relatively low impact installation
- я <u>Measurable</u> removal
- Ability to refresh material and <u>permanently remove</u> contaminants
- Beneficial reuse of regular water treatment material residuals
- ø Customizable and scalable

& Cartridge system cons:

- ø Not a "set it and forget it" solution
- Requires in-channel work
- Currently cartridges are customized, can be expensive
- Not intended for larger waterways
- ø Not the end-all be-all solution