





The BRDC Restoration Project

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Bass River & Deer Creek Watersheds



Problems they face

 2016 Integrated Report(MDEQ) lists the following uses as unsupported:

- Warm water fisheries
- Total and partial body contact
- Fish consumption
- Causes listed in IR include
 - Low dissolved oxygen content
 - Phosphorus
 - E.coli bacteria (2005/2012 TMDLs)

Sediment loading



Where does it come from?

Failing septic systems

- A lot of older septic systems in the county – many over 20+ years old
- About a 1 in 5 failure rate in these watersheds
- Structural damage, size & location, drainfield issues, etc



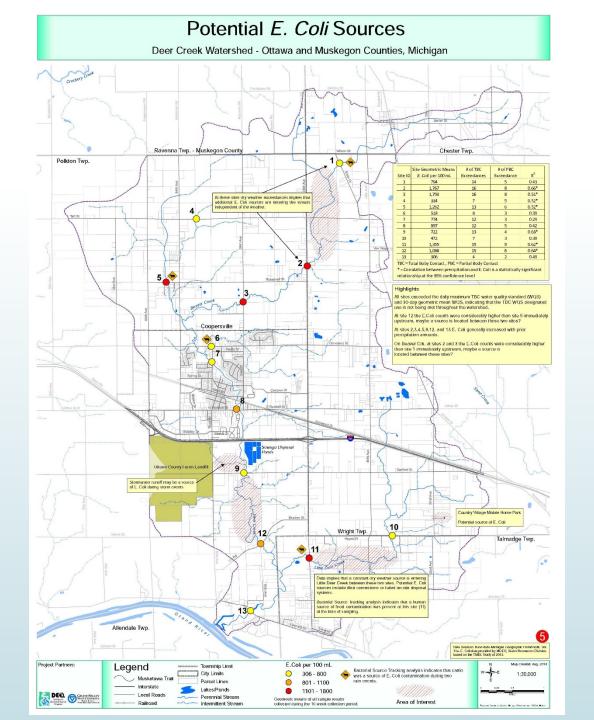


Agricultural Runoff

- 80% of DC land use, 65% of BR is Agricultural
- Several large and medium sized AFOs & CAFOs
- Runoff containing sediment, fertilizer, raw manure
- Animals in or near the waterbody.







BMP Funding

- Funded practices based off recommendations set in section 6.2 of the LGR Watershed Management Plan
- All practices cost-shared at a targeted 75%
- NRCS guidelines used for all agricultural practices – including engineering/design work

Cost Sharing

Septic Systems



Grassed Waterways



Filter Strips



Manure Storage



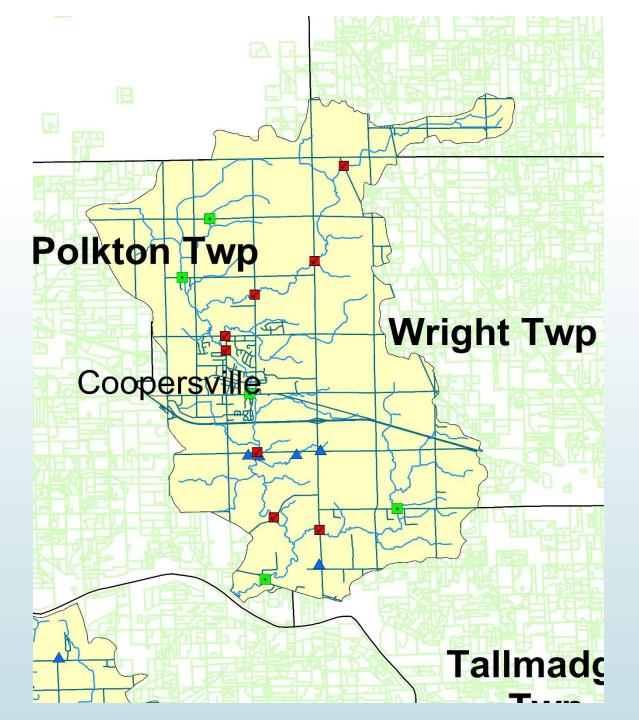
Accomplishments

- 17 Septic septic systems replaced with one more to be replaced this year
- \$99,961 in cost share directly to property owners
- All sites were chosen based on location, proximity to surface water, septic issues, etc





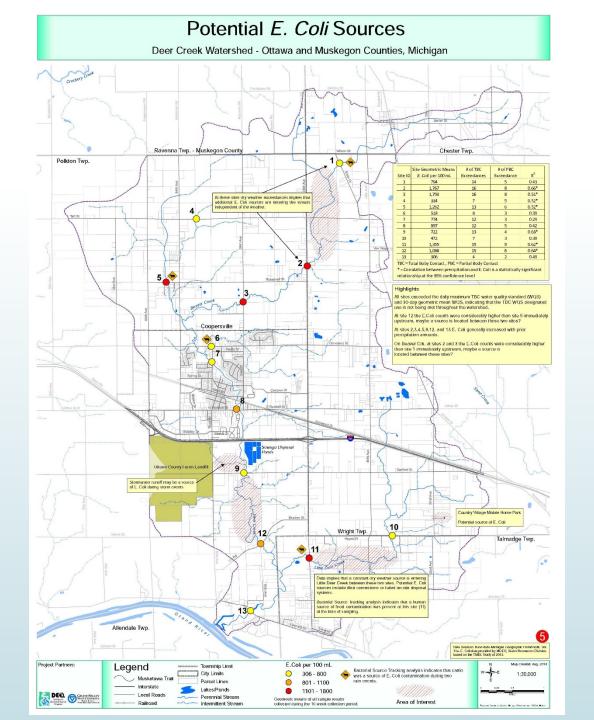




BMP Implementation

- Three producers have entered into contracts with the BRDC for a total of 1006 acres of cover crops in 2017
- Working in cooperation with the NRCS on an additional site including manure storage & livestock management
- Over \$63,000 in cost share to producers + additional funds available for 2018





The work continues...

- Load reduction estimates provided by LGROW using STEPL model
- Septic system calculations provided using the SSIE
- This is a "work in progress." Education and continued use of conservation practices is more important than many of the immediate practices funded
- We are seeking continued funding GLRI, 319, other funding sources for the future





- 2017 Grant Proposal included 8 producers "committed" to practices
- Over 2000 acres of cover crops
- Manure management practices including funding for a manure pit, three dry stack pads, and two CNMPs
- Several miles of buffer strips, livestock exclusions, grassed waterways, and animal crossings
- Funding for additional septic replacements

Questions?





