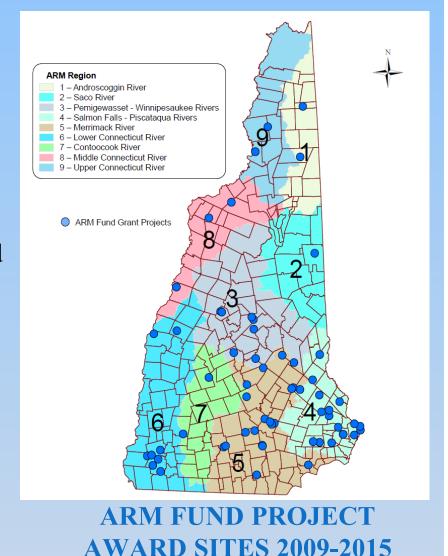
Aquatic Resource Mitigation Fund RSA 482-A:28 - 33

- Additional wetland mitigation option available to applicants.
- Option for projects that have difficulty in finding good mitigation.
- Process of providing a payment into a fund that pools money together to be spent in the "watershed" where impacts occurred.
- Funds go toward wetland restoration, preservation of land adjacent to aquatic resources, wetland creation or aquatic resource improvements.



Culvert Assessments and ARM

Assist and provide funds for improving a crossing that is deemed eligible for the stream mitigation program



Utilize information for mitigation option to replace deficient crossings for aquatic passage and address infrastructure needs

Evaluation Criteria for Stream Passage Improvement Projects

- Aquatic resource of concern?
 - Species present/potential?
- Overall Mitigation Potential/Protection.
 - AOP and Geomorphic scores
- How much of the aquatic resource will be protected.
- Buffers.
- Connections.
- Likelihood of project success.
 - Project Partners
 - Concept Design
- Flood hazard.
- Critical infrastructure



Fall Brook Culvert Replacement, Swanzey, NH



Funding: =\$165,000

Total Project Cost: \$250,572

Project Objective:

Increase access to cold water headwaters habitat

Project Partners:

Trout Unlimited, Cheshire County Conservation District, Town of Swanzey, NRCS, Fish &Game, Harris Center for Conservation





Downstream/Outlet side of structure
May 10, 2011

6-foot diameter, 50-foot long corrugated metal pipe

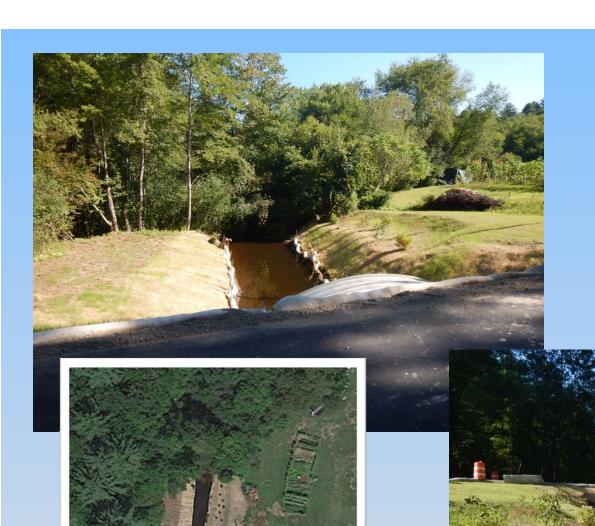




Upstream (inlet) side of culvert August 19, 2016

Connection to approximately ten miles of upstream, barrier free, spawning and rearing aquatic habitat.

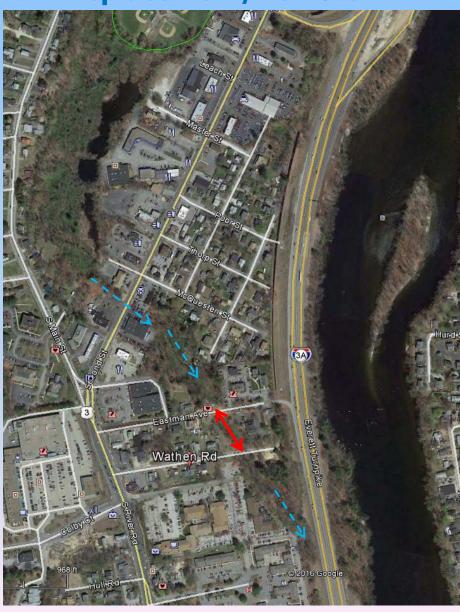
 Access to spawning habitat on approximately 6 smaller tributaries.



Downstream/Outlet side of structure

August 19/23, 2016

McQuesten Brook Culvert Replacement/Removal



Funding: = 354,000

Total Project Cost:

Approx. \$800,000

Project Objective:

- Increase access to 1,950 feet of brook,
- Reconnect 2.57 acres of wetland habitat
- Stormwater treatment

Project Partners:

New Hampshire Rivers Council, NHDES Watershed Assistance Program, Town of Bedford, McFarland Johnson, and John Fields.



Left: Eastman Upstream 2014

Right: Eastman Downstream 2014

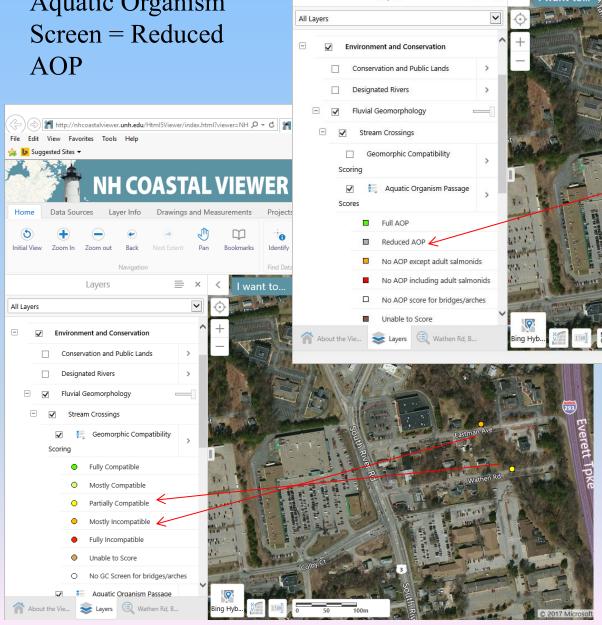




Left: Wathen Upstream 2014

Right: Wathen
Downstream 2014

Aquatic Organism



Navigation

Layers

Geomorphic Compatibility Screen: Eastman = Mostly Incompatible Wathen = Partially Incompatible





- Wathen "Inlet" July 2016
- Work overseen by John Fields





Wathen Floodplain Restoration



2018 ARM Fund Grant Round Deadlines

Majority of watersheds with available funding

2 Page Pre-proposal deadline: April 30, 2018

Final application materials deadline: August 31, 2018

Site Selection Committee review: Sept. – Oct., 2018

Army Corps and Wetland Council Review: November, 2018

Awards Announced December, 2018

Restoration Project Requirements

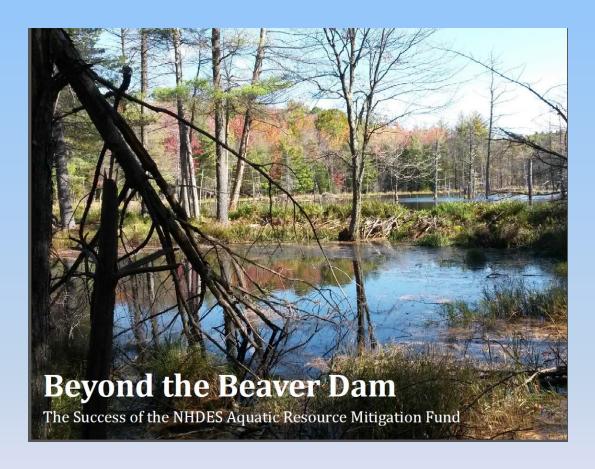
Restoration Plan

- Plan must be submitted and approved prior to commencing work.
 The restoration plan can often be part of the wetland permit.
- Coordination with wetlands permitting staff and ARM staff

Monitoring Plan

- Must include measurable performance objectives and metrics to establish project success.
- Must be developed in coordination with ARM Staff and approved by the ACOE.
- Post-Construction Report
- Five Years of Monitoring and Monitoring Reports

QUESTIONS? / IDEAS?



<u>http://www.des.nh.gov/organization/divisions/water/wetla</u>
<u>nds/wmp/documents/arm-fund-web.pdf</u>