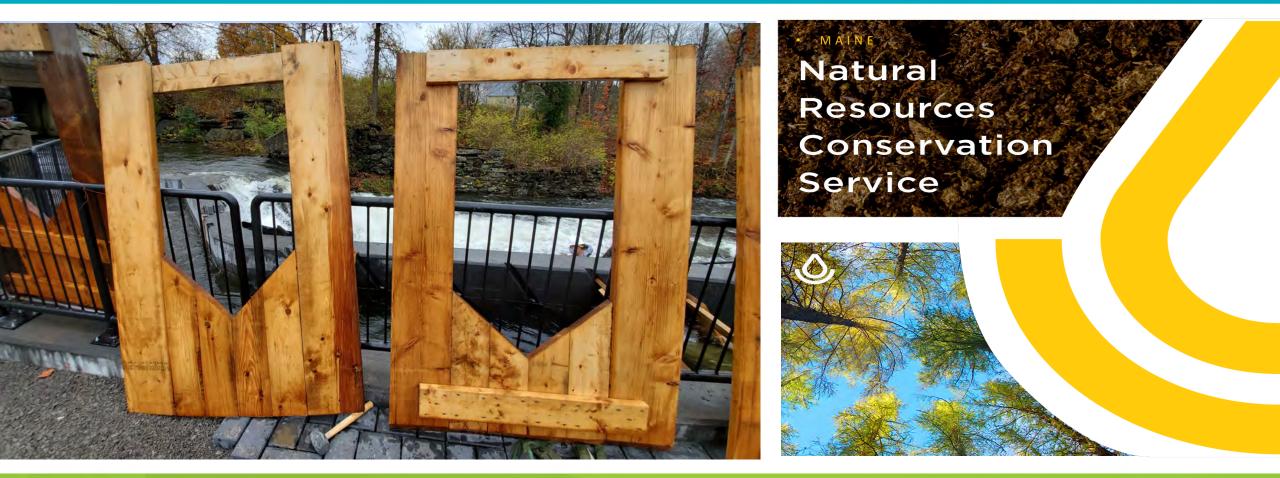


United States Department of Agriculture



NRCS Engineering Technical Assistance (TA) for Aquatic Restoration Projects

Heidi Bunn – Aquatic Restoration Engineer USDA-NRCS Natural Resources Conservation Service

Types of NRCS Technical Assistance (TA)

- **Farm/Site Consultations**
 - Site Assessments
 - **Resource Inventory**

Conservation Planning

- **Resource Assessment**
- **Resource Monitoring**
- **Conservation Plan Development**

Conservation Planning Assistance •

- Outreach
- Water Level Monitoring
- Site Visit/Trip Report ٠
- Site Survey
- H&H •
- **Conceptual Designs** ٠
- **Design Review**
- Design
- Project Layout
- **Construction Inspection**
- **Project Certification**





Different Ways NRCS Can Provide Engineering TA

- Agreements
- Engineering Contracts
- Technical Service Providers (TSP)
- NRCS Programs (EQIP/RCPP)
 - Local NRCS Service Centers
 - Maine NRCS Aquatic Restoration Team
 - NRCS National Conservation Engineering Team
 - NRCS Regional Tech Centers
 - NRCS National Design, Construction and Soil Mechanics Center
 - NRCS Plant Materials Centers



Natural Resources Conservation Service

USDA United States Department of Agriculture

Examples of TA used for the China Lake Alewife Initiative



Before photo looking upstream at existing AOP barrier at Site 6.

Engineering Technical Assistance Utilized:

- Site visits
 - Maine NRCS Field Office
 - Maine NRCS State Office
 - NRCS Tech Center
- Trip reports
- Monthly partner meetings
- Engineering contract
- Engineering design reviews
- Technical Service Provider (TSP)
 - Construction oversite
 - Checkout
- Weekly construction meetings with partners
- Outreach

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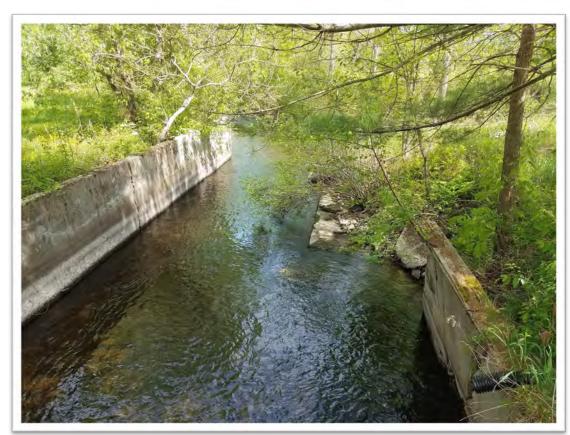
Examples of TA used for the China Lake Alewife Initiative



Left: Before photo looking upstream at AOP barriers at Site 3.

Engineering TA Utilized:

- Site visits
- Trip reports
- Monthly partner meetings



Right: Before photo looking downstream at Site 3.

- Conceptual design review
- Design
- Construction oversite and checkout
- Outreach

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Examples of TA used for the China Lake Alewife Initiative



Left: After photo of engineered concrete fish ladder at Site 6.



Right: After photo of stream restoration at Site 3.
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Questions?

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