

**U.S. Army Corps of Engineers  
2009 Handshake Program Application**

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**Eligibility checklist to qualify per ER 1130-2-500, Chapter 12.**

1. Is the seed money going to be spent at Corps facilities and resources that are being maintained by the Corps at 100% expense on the day the agreement is signed?  **Yes**  **No**
2. Is the agreement with a non-federal public or private entity(ies)?  **Yes**  **No**
3. Is the proposed activity within current authorities and contained in the annual or 5-year work plan in the approved OMP?  **Yes**  **No**
4. If no, when will the OMP be updated and approved? (example: Feb 09) **May 09**

**If the answer to either question 1 or 2 is No, the proposal cannot be authorized under the Corps Challenge Partnership program. If the answered to question 3 is No, and the date provided in the answer to question 4 would come after the commencement of the proposed challenge partnership, the activity cannot be considered under this program. Reference application instructions for further clarification.**

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**Highlight a box and press F1 if you need online help to complete any item.**

Corps Lake/Project Name: **Cape Cod Canal**  
Handshake Proposal Title: **Dykes Creek Alewife Revitalization Project**  
Corps POC Name: **John Pribilla**  
Street Address: 40 Academy Drive  
City, state and zip code: **Buzzards Bay, Ma 02532**  
Telephone: **(978) 318 - 8613 ext.**  
Fax: **(508) 759 - 8923**

E-Mail:

**john.pribilla@usace.army.mil**

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Partner Organization 1: Town of Bourne,  
Partner Authorized Official: Brandan C. Mullaney (Conservation Agent)  
Phone: (508) 759 - 615 ext. 6

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Partner Organization 2: The Buzzards Bay Project  
Partner Authorized Official: Dr. Joseph Costa  
Phone: (508) 291 - 3625 ext. 19

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Partner Organization 3: Coastal America's local chapter (Massachusetts Corporate Wetlands Restoration Partnership)  
Partner Authorized Official: Susan Redlich  
Phone: (617) 287 - 5568 ext.

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Categorize Use: (may check more than one)

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|--|---|
| <input type="checkbox"/> Interpretation/Environmental Education  | <input type="checkbox"/> Special Event                      |
| <input type="checkbox"/> Water Safety                            | <input type="checkbox"/> Recreation Facilities              |
| <input type="checkbox"/> Trails                                  | <input type="checkbox"/> Visitor Center                     |
| <input checked="" type="checkbox"/> Natural Resources Management | <input type="checkbox"/> Accessibility Other/ Miscellaneous |

Handshake Funding Amount Requested (\$10,000 Limit): \$10000

### **Description of the Handshake partnership and the project to be accomplished:**

Dykes Creek Alewife Revitalization Project. . Prior to the Corps reconstruction of the Cape Cod Canal, an estimated 10,000 Alewife (River Herring) utilized Dykes Creek to access their ancestral breeding grounds in Bourne Pond, located in Buzzards Bay, MA. Alewife reproduction and fishery decline over the past seventy six years has been significant and attributed to the Corps construction activity. During the Corp's reconstruction of the Cape Cod Canal (1932-1940), the lower portion of Dykes Creek was significantly impacted by dredging and construction operations. The Corps constructed a service road over Dykes Creek where the creek enters the Canal waterway. Unfortunately, a small tidal flow restricting culvert was installed under the roadway dramatically restricting salt marsh inundation and the migration of River Herring to Bourne Pond. This culvert, combined with the Canal's three foot tidal range has dramatically limited alewife access to Dykes Creek and their migration to Bourne Pond, thus ensuring the fishery decline. Since the Canal reconstruction in the 1930's the alewife population has steadily declined to today's' near non-existing levels. The town of Bourne had harvested a portion of the alewife fishery and disbursed the catch between resident lobstermen and fishermen up until the 1960's. The proposed fishway improvements on Corps property are essential to provideing Alewife continuous access to Dykes Creek regardless of tidal stage. Additional environmental benefits from a new culvert would be derived by controlling invasive species through the increased tidal volume of saltwater inundation of the marsh where common reed (Phragmites) has obtained a significant foothold. Revitalization of the run must start with planning and design for future installation of a non-restricting culvert underneath the canal's service road. The Corps of Engineers is partnering with Coastal America's local chapter (Massachusetts Corporate Wetlands Restoration Partnership). The restoration efforts on town property are financed by the Town of Bourne's Conservation Dept, The Buzzards Bay Project (Private Non-Profit Organization) and private resident's contributions.

- (1) Sustainability – Once completed this project will be self sustaining; its life span will be perpetual. The benefits to the Corps include better stewardship of fisheries and marshland improvements for increased productivity.
- (2) Partnership Value – The multiple Partners' contributions to the project will be the matching dollars for project planning and design.
- (3) Environmental Stewardship Value – This fisheries revitalization project constitutes physical improvement to natural resources in two ways. First, the project will revitalize the Dykes Creek Alewife fishery enhancing reproduction of this anadromous fish species. Second, the project thru the use of a new culvert will restore a salt water marsh area that is also located on the Canal project. Restoring tidal salt water flow to the Dykes Creek marsh will increase marsh productivity.
- (4) Communication and Education Value – This project is located in very close proximity to the Bourne Scenic Park, a 475 site campground on Corps property, out-granted to the Bourne Recreation Authority. We will have an opportunity to expand the Canal project's interpretive program to include public education on fishery management and marsh restoration thru interpretive programs that will be conducted on the project site.

(5) Recreational Benefit – People enjoy watching herring migrate from the saltwater of Cape Cod Canal up Dykes Creek to their fresh water breeding site at Bourne Pond. We find parents and grandparents enjoy bringing children to view this life perpetuating process that characterizes the alewife’s challenge to sustain itself as a species.

(6) Innovativeness of the Partnership or the End Result – This project is comprised of a very unique combination of government and private partners who are working together toward the important goals of anadromous fishway revitalization and saltwater marsh restoration.

**The Corps will:**

Revitalization must begin with site planning and design for the future installation of a non-restricting tidal flow, culvert.

**The Partner(s) will:**

Provide grant funding up to \$10,000 for herring run restoration design.

## Challenge Partnership Financial Work Sheet

Corps Project Name: Dykes Creek Herring Run Revitalization Project

Work Project Title: Culvert Reconstruction

POC Name: John Pribilla

Address: Cape Cod Canal, P.O.Box 1555      City: Buzzards Bay      State: MA      Zip Code: 2532

Telephone:

Location on Project: North Service Road, Station 300

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Partner Organization 1: Town of Bourne (municipal)

POC Name: Brandan C. Mullaney

Address: Town Hall, 24 Perry Ave      City: Buzzards Bay      State: MA      Zip Code: 02532

Telephone: 508-759-0615

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Partner Organization 2: Buzzards Bay Project (Buzzards Bay Project is comprised of private citizens who are proponents for water quality and environmental improvement throughout the Buzzards Bay region)

POC Name: Dr. Joseph Costa

Address: Buzzards Bay National Estuary Program 2870 Cranberry Hwy      City: Wareham      State: MA      Zip Code: 2538

Telephone: 508-291-3625

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Partner Organization 3: Mass. Corporate Wetlands Restoration Partnership (private non-profit organization)

POC Name: Susan Redlich

Address: .      City: Boston      State: MA      Zip Code: 2538

Telephone: 617-287-5568

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Proposed start date of work: Feb-08

Simple description of work to be accomplished through the partnership: Grant money will be utilized to plan and design a new culvert under the Canal service road.

Double click on spreadsheet to access data entry fields:

Explanations:

	Local Corps Office	Handshake Funds	Partner 1	Partner 2	Partner 3	Total
Salaries	\$10,000	N/A		\$10,000		\$20,000
Travel	\$0	N/A	\$0	\$0	\$0	\$0
Materials and Supplies		\$0	\$0	\$0	\$0	\$0
Equipment Use	\$0	\$0	\$0	\$0	\$0	\$0
Funds Contributed	N/A	N/A	\$0	\$0	\$0	\$0
Personal Property	N/A	N/A	\$0	\$0	\$0	\$0
Volunteer Efforts	N/A	N/A	\$0	\$0	\$0	\$0
In-Kind Services	N/A	N/A	\$0	\$0	\$0	\$0
Other (explain below)	\$0	\$10,000	\$10,000	\$0	\$10,000	\$30,000
<b>Total</b>	<b>\$10,000</b>	<b>\$10,000</b>	<b>\$10,000</b>	<b>\$10,000</b>	<b>\$10,000</b>	<b>\$50,000</b>

Other: Planning and Design

## Representative Photographs of Dykes Creek

