# WHY YOU SHOULD ATTEND

Migratory fish are critical components of coastal and estuarine ecosystems. Species such as alewife, blueback herring, American shad, American eel, and even sea run trout create valued fisheries and play an important ecological role in the marine food web. More than 200 coastal streams in Massachusetts provide important habitat for these fish, but many of these waterways have been obstructed by man-made structures, such as dams and improperly designed culverts, which limit the passage of migratory fish to important upstream habitats.

Community organizations and government agencies at the local, state and federal levels all play a role in ensuring fish passage in the Commonwealth's coastal streams. This workshop, which is the second in our series on restoring coastal streams, will introduce participants to the tools available for assessing and addressing barriers to passage in their home streams.

DIRECTIONS

Waquoit Bay National Estuarine Research Reserve 149 Waquoit Highway (Route 28), E. Falmouth, MA

**From /Sagamore Route 6**: Take Exit 2 (Route 130). Turn right off the ramp and follow 130 South 7.2 Miles to second light, turn right onto Great Neck Road and follow to the Mashpee Rotary. Take Route 28 North toward Falmouth/Woods Hole. The reserve is located 3.5 miles from the rotary on the left.

**From the East**: Route 6 to exit 5 (Route 149 South). Follow 149 South towards Marstons Mills to Route 28. Take a right on 28 North (towards Falmouth). Follow Route 28 around the Mashpee Rotary and continue on 28 North towards Falmouth/ Woods Hole. The reserve is located 3.5 miles from the rotary on the left.

#### MA Division of Marine Fisheries Annisquam River Marine Fisheries 30 Emerson Avenue, Gloucester, MA

Take Route 128 north to first rotary (Grant Circle actually part of Route 128). Take first right off rotary onto Washington Street. Take 5th right onto Centennial Avenue (at Georges Coffee Shop). Go over RR bridge to second right onto Emerson Avenue. The Gloucester Office is the last building on the left. Parking is available in parking lot inside gates - the main entrance is located at the front of the building.



P.O. Box 3092, Waquoit, MA 02536

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**RESEARCH RESERVE** 

ESTUARINE

NATIONAL

WAQUOIT BAY

#### **Coastal Decision-Maker Workshop**



COASTAL STREAM HABIIAT RESTORATION Workshop Series

#### Restoring Connections in Coastal Streams:

Assessing & Addressing Barriers to Fish Migration

## **Thursday, March10, 2005** 900AM- 300PM

Waquoit Bay National Estuarine Research Reserve 149 Waquoit Highway (Route 28) E. Falmouth, MA

#### Wednesday, March16, 2005 900AM- 300PM

MA Division of Marine Fisheries Annisquam River Marine Fisheries Station 30 Emerson Avenue Gloucester, MA

## **Restoring Connections in Coastal Streams:**

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Assessing & Addressing Barriers to Fish Migration

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8:30 am - 9:00 am	<b>Registration &amp; Continental Breakfast</b>	11:00 am - 12:00 pm	A Project Level Perspective: Case Studies Various individuals involved with fish passage restoration projects at the local level will lead an interactive discussion about the opportunities and challenges of addressing barriers in streams. These speakers, who will vary with workshop location, will refer to their own experience while fielding questions about implement- ing successful projects.	Waquoit Bay NERR, 149 Waquoit Highway (Route 28)	
9:00 am	Welcome & Introductions			117 1 1	
9:10 am - 10:00 am	Assessing Migratory Fish Barriers in Coastal Massachusetts In 2001-02 the MA DMF surveyed all rivers and streams flowing into Massachusets' coastal waters. The survey identified 380 obstructions to migratory fish passage, with the majority being man-made dams. One of the project's leaders will give an overview of the survey and it's findings as well as offer recommendations for further evaluating barriers in local streams. Philip Brady, Aquatic Biologist Massachusetts Division of Marine Fisheries			*	*
		12:00 pm - 12:45 pm	Lunch (provided)	Name	
		1:00 pm - 3:00 pm	A First Hand Look: Field Trip An afternoon field trip will visit local coastal streams to see typical examples of problematic barriers as well as locations	Organization	
10:00 am - 10:15 am	Break		where fish passage issues are being		
10:15 am - 11:00 am	describes the impacts of these barriers, actions to provide passage for fish, and technical challenges to prevent blockage, delay, and mortality of migratory fish species. Many new developments and problems will be discussed, focusing on		successfully addressed. Participants will have the opportunity to discuss concepts introduced in the morning sessions in the context of real world scenarios. ( <i>Transportation is limited and will be provided</i> on a first come-first served basis, please indicate if you would like to participate in the field trip.)	Phone	
		Participants will		E-Mail	
		<ul> <li>Learn about the habitat requirements and migration capabilities of various fish species common in local waters.</li> <li>Acquire an understanding of how various human activities and developments impede migratory fish access to important habitats.</li> <li>Learn how to identify and evaluate barriers to fish in coastal streams.</li> <li>Gain a realistic perspective of the opportunities and</li> </ul>		There is no charge for the workshop. Space is limited, please register early! Telephone (508) 457-0495 ext. 108	
				•	(508) 457-0495 ext. 108 X (617) 727-5537
	American eel, and sturgeon. Alex Haro, Ph.D, Ecologist	inevitable challen	ges of restoring fish passage in coastal camples and lessons from actual projects in	E-mail: lau	rie.tompkins@state.ma.us

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Please sign me up for the following workshop:

R E G I S T R A T I O N

#### Thusday March10 2005

Mail: Waquoit Bay NERR P.O. Box 3092, Waquoit, MA 02536