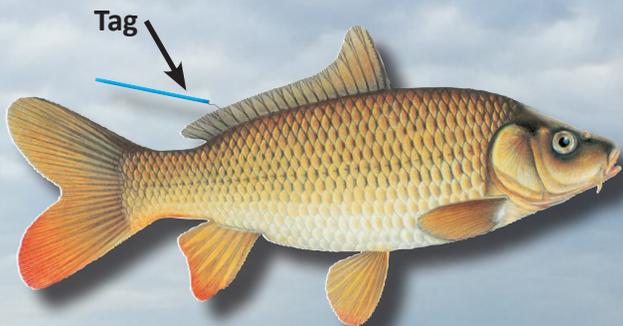


What will the tagged fish look like?

- Only carp will be tagged for this study.
- The fish will either have an orange, green, or blue tag on their dorsal fin.



- The tags will be marked with two or five numbers.

• If the tag is **ORANGE** or **GREEN**:

- **Please keep the fish.**
- Double wrap the fish in two plastic bags and freeze as soon as possible.
- Please call Karl Gustavson at 1-703-603-8753 or Bryan Hinterberger at 1-716-879-4409 to arrange pick-up for the fish.

• If the tag is **BLUE**:

- **Please return the fish to the water.**
- You do not need to call Karl or Bryan unless you have questions.
- In order for the study to be successful, the scientists need to collect all of the fish at the end of a certain amount of time.

If PCBs are in many places, why is this area being studied?

The Manistique River area has been selected because it is a fairly small area to study. It is also a site where the location and amount of contaminated sediment is already well known. This makes it an easy place to try out some new scientific methods that could benefit other areas with similar problems in the future.

It is hoped that the information collected will make it easier to locate areas where fish are being contaminated, here and at other sites. This way, work can be targeted to take care of the most polluted sediment first and limit the amount of chemicals that can get into the fish in the future.



Local Fish, Local Guide

If you are eating fish caught in Michigan or any of the Great Lakes, please call the Michigan Department of Health & Human Services (MDHHS) to request the **Eat Safe Fish Guide** for the region the fish is from. The regional **Guide** lists Michigan fish that have been tested for mercury and other harmful chemicals, like PCBs and dioxins.



For more information on safe fish, call MDHHS at 1-800-648-6942 or visit them online at www.michigan.gov/eatsafefish.

Get the FAQs:

Fish Tracking Project

in the Manistique River Area

Following the fish to
further the clean-up of
the Manistique
River and Harbor.



US Army Corps
of Engineers®

BUILDING STRONG®

<http://bitly.com/mraftp>

Photo Credit: Michelle Bruneau

What is this project all about?

During the summer of 2015, U.S. Army Corps of Engineers (USACE) tagged and tracked fish in the lower Manistique River.

By tracking these fish, the USACE hopes to learn where the fish are eating and being exposed to PCBs.

They can then focus their clean-up efforts on these targeted areas.

In the coming years, more fish will be tagged and tracked in Manistique River and Harbor.

When this happens, you will see:

- white posts (see picture) in the river and harbor
- people from the USACE and their partners checking on the equipment

What are PCBs?

These chemicals have been in the environment for a long time and are found in many places - not just the Manistique River area.

- These chemicals were used in electrical equipment and hydraulic oils.
- They will not change the flavor or the look of the fish filet.
- PCBs are linked to potential health problems in people, including cancer and diabetes.

The Michigan Department of Health & Human Services (MDHHS) tests the filets of fish from around the state and calculates how often they can be eaten safely. The results are in the *Eat Safe Fish Guides*. You can learn more about this at www.michigan.gov/eatsafefish or by calling 1-800-648-6942.

How will this project affect boating and fishing?

This study will not affect boating or fishing areas. Receivers on poles will be placed in certain locations both in the river and bay, but they will be outside of navigational channels and fishing areas.

The study partners do request that people avoid the areas around the receiver posts, though. The equipment is sensitive. They're placed in specific locations to ensure that the entire area is covered, so they don't miss the movement of the fish.

Climbing on the poles or touching the recording equipment could result in the loss of useful information for the study.

Questions about the project?

Please contact the U.S. Army Corps of Engineers:

Karl Gustavson - (703) 603-8753 or Gustavson.karl@epa.gov

Bryan Hinterberger - (716) 879-4409 or Bryan.A.Hinterberger@usace.army.mil.

The other partners on this project are: the U.S. Environmental Protection Agency (EPA), Michigan Department of Environmental Quality (MDEQ), EA Science and Technology, and Lotek.

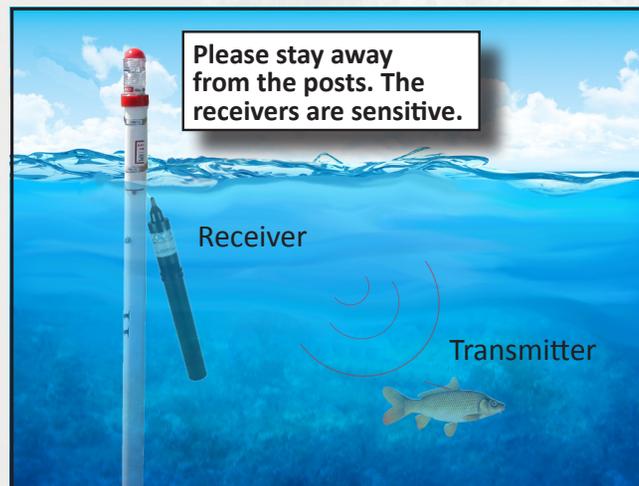
What are those posts in the water?

Receivers

The receivers listen for signals from the special tags that will be put into a small number of fish in the river. The equipment can only receive signals from the fish tags. They cannot receive any other type of radio or GPS transmission.

Transmitters (Fish Tags)

The fish tags transmit a signal that is picked up by the special receiver. As the fish move around the area, the information will be saved by the receiver and then reviewed by scientists to see where the fish are moving, when, and how long they are staying in certain areas.



You can cut out this section of the brochure to keep with you in case you catch one of these fish in the future!