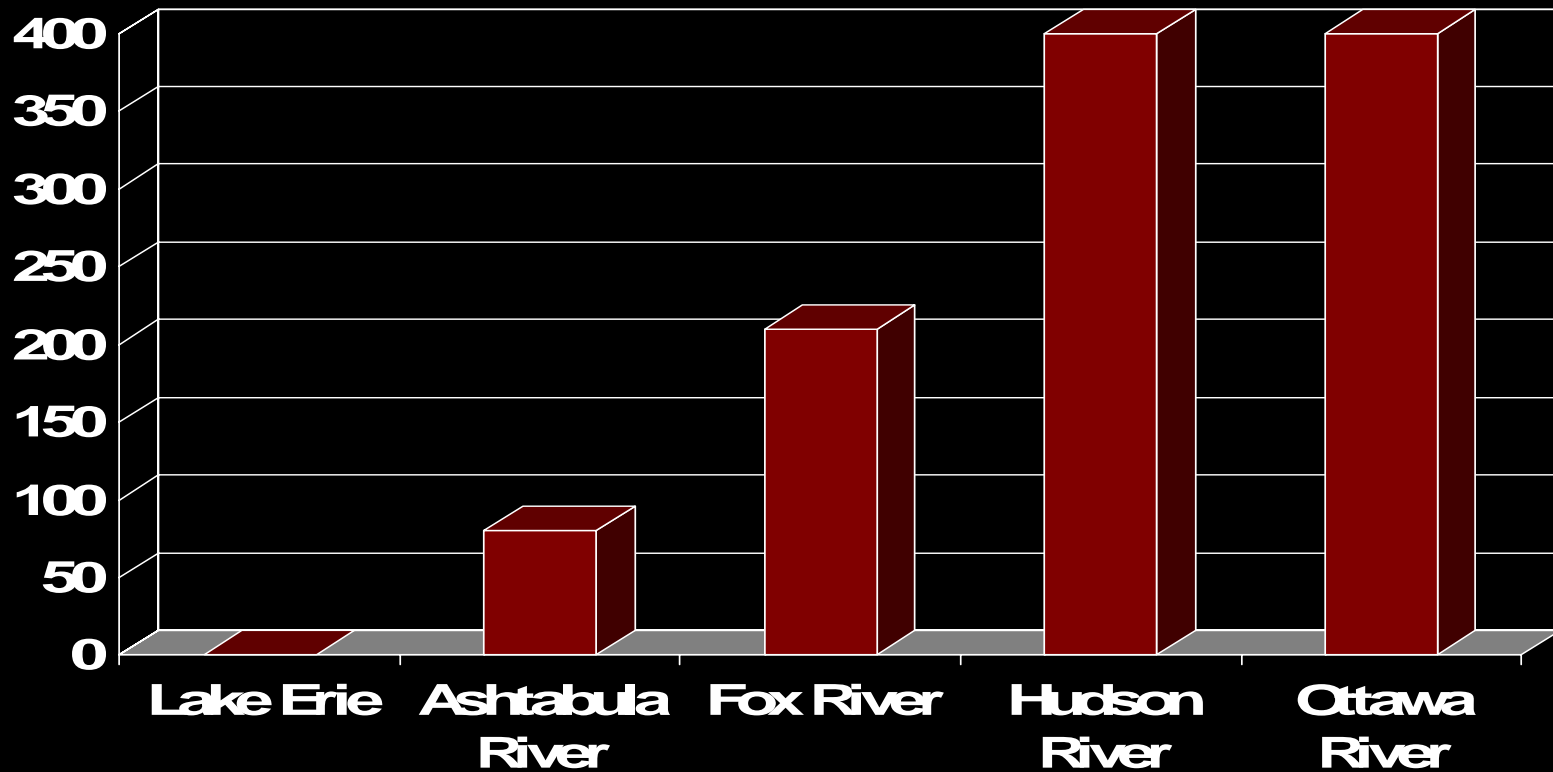


Restoring the Ottawa River

U.S. Fish and Wildlife Service
Reynoldsburg, OH



Water Column PCB Concentrations at Various NRDA Sites (ng/L)



Natural Resource Damages

- **Authorized by CERCLA aka Super Fund; can be implemented under a number of federal environmental laws**
- **The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) provides a claim for damages for “injury to, destruction of, or loss of natural resources resulting from such a release [of a hazardous substance].” CERCLA § 107(a)(4)(C).**



What are “Natural Resources”

CERCLA §101(16) defines “natural resources” as “land, fish, wildlife, biota, air, water, ground water, drinking water supplies, and other such resources belonging to, managed by, held in trust by, appertaining to, or otherwise controlled by the United States. . . , any State or local government, any foreign government, any Indian tribe. . .



DOI Resources

- **The Department of the Interior, through the U.S. Fish and Wildlife Service**
 - **Anadromus Fish**
 - **Nationally Significant Fish Stocks**
 - **Migratory Birds**
 - **Federally Listed Threatened and Endangered Species**
 - **AND Supporting Food Chains and Physical Habitat**
 - **National Wildlife Refuges and other DOI Lands**

Injuries to Surface Waters Have Occurred If the Concentration...

- Exceeds Drinking Water Standards, or**
- Exceeds Water Quality Criteria, or**
- Is Sufficient to Cause Injuries to Biological Resources**



Injuries to Biological Resources If the Concentration is Sufficient to Cause:

- **Death or Disease, or**
- **Behavioral Abnormalities, or**
- **Cancer, or**
- **Genetic Mutations, or**
- **Physiological or Reproductive Malfunction, or**
- **Physical Deformities, or**
- **Exceedance of USFDA Action and Tolerance Levels, or**
- **Fish Consumption Advisories**



PCBs

- **Water Column concentrations range from 200 to 400 ng/l**
 - **The Ohio Human Health Criteria is 0.026 ng/l**
 - **The Ohio Wildlife Criteria is 0.12 ng/l**

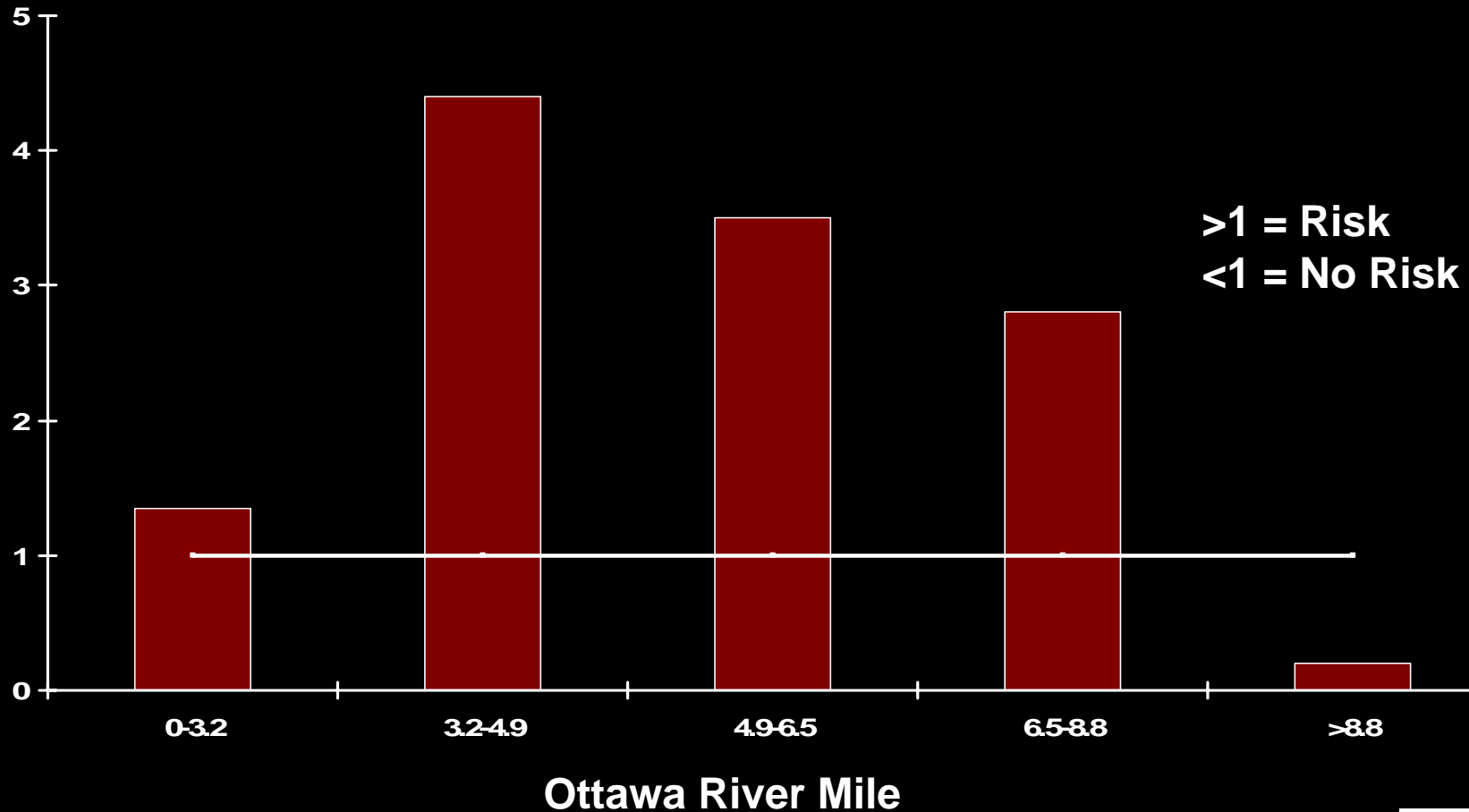


PCBs

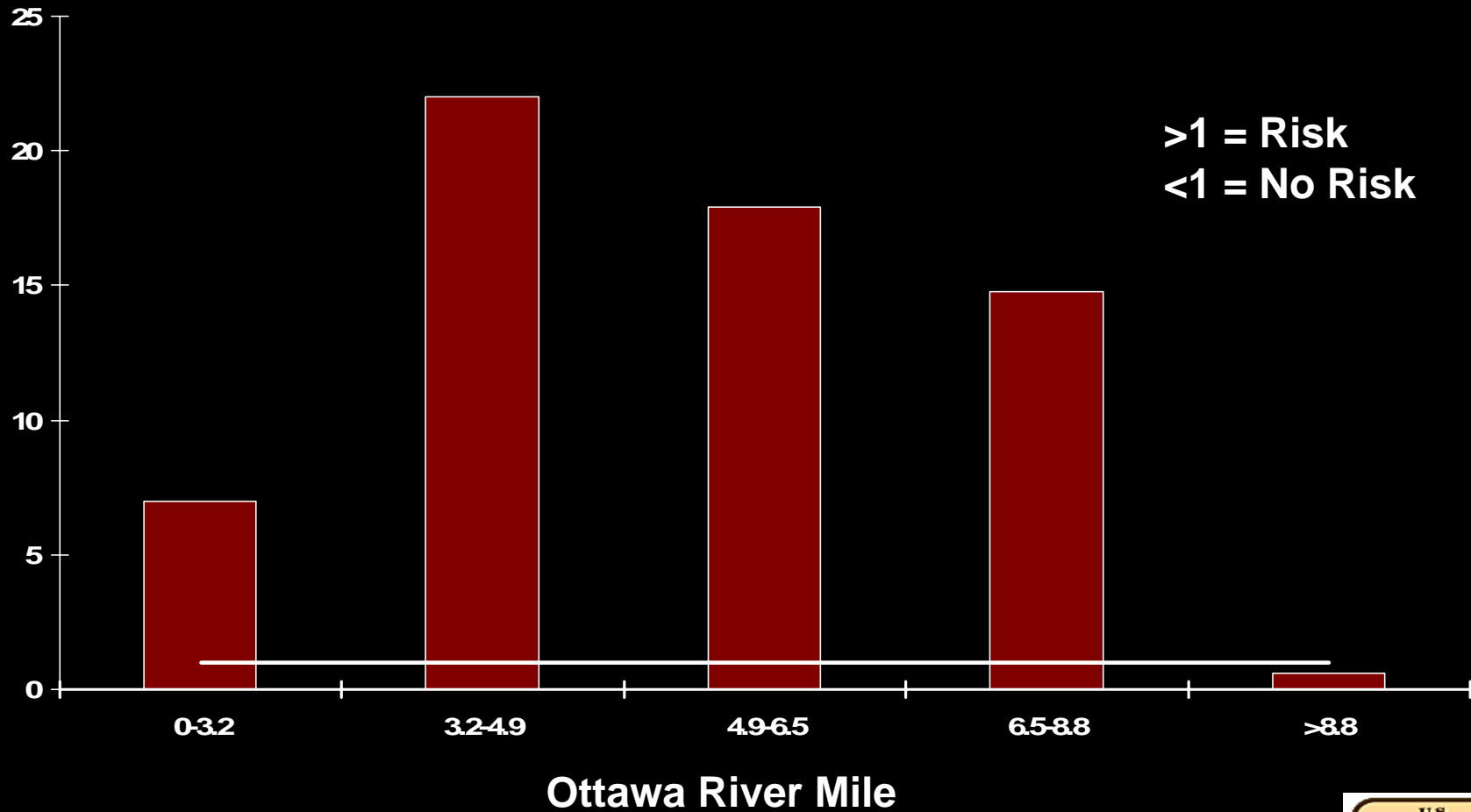
- **Fish Tissue Nd to 510 mg/kg**
 - **Fish Advisories 0.05**
 - **FDA Tolerance 2**
 - **Reproductive Failure - Birds ~ 0.3**
 - **Reproductive Failure – Mammals ~ 0.14**



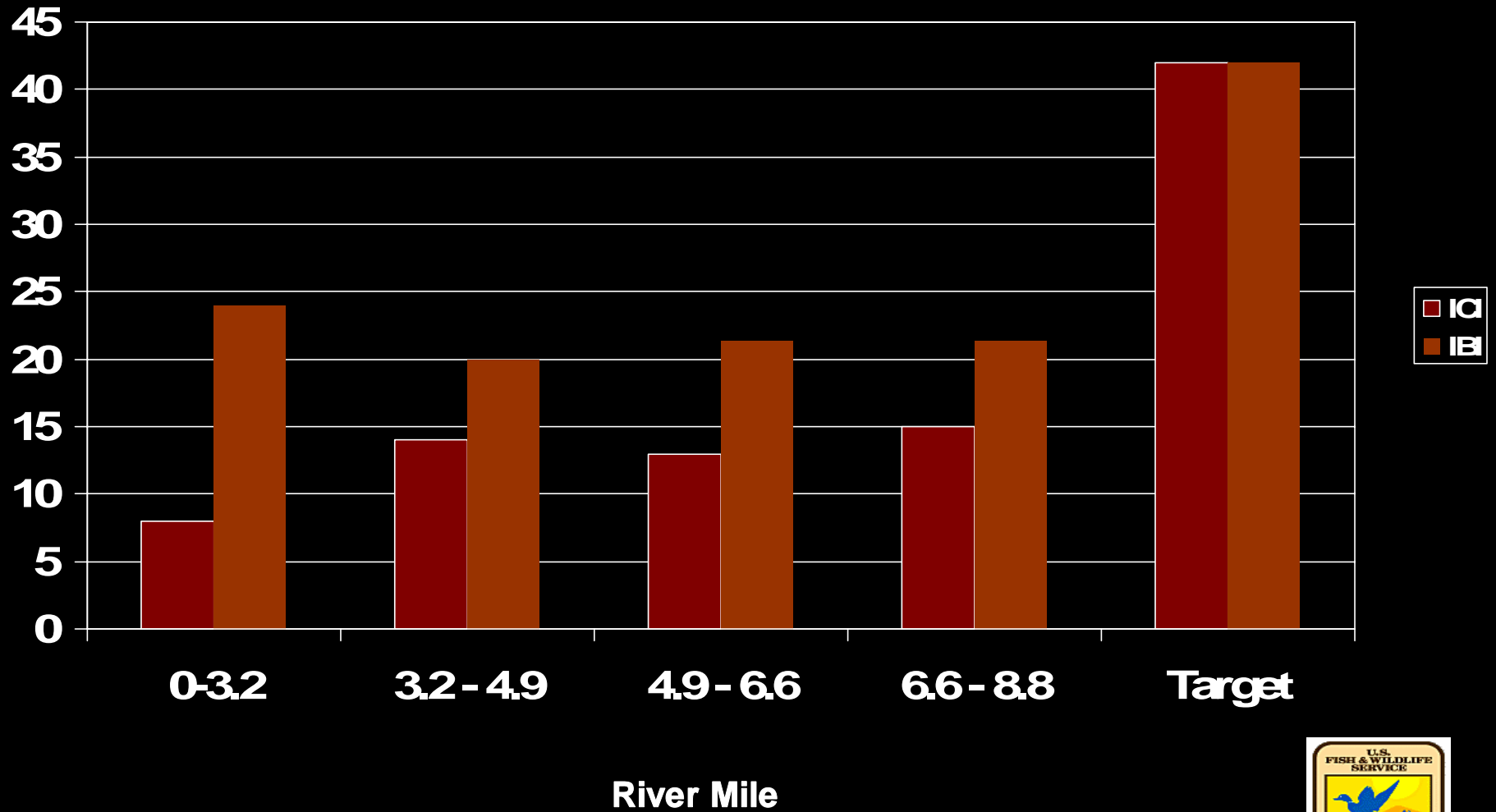
Chronic PCB Hazard Quotients for Eagles



Chronic PCB Hazard Quotients for Terns



Ecosystem Function




Preassessment Screen Determination:

Based upon a review of readily available data and an evaluation of the preassessment determination criteria, summarized in this document, the Trustees have reached the following conclusions:

- Releases of hazardous substances have occurred;
- Natural resources for which the trustees may assert trusteeship under CERCLA and FWPCA have been adversely affected by the discharge or release of hazardous substances;
- The quantity and concentration of the released hazardous substances are sufficient to potentially cause injury to natural resources;
- Data sufficient to pursue an assessment are readily available or likely to be obtained at a reasonable cost;
- Response actions planned will not sufficiently remedy the injury to natural resources without further action;

The Trustees hereby determine that further investigation and assessment is warranted and should be carried out at this site in accordance with Federal Regulations at 43 CFR §11, Subparts C and E. The Trustees further determine that current information indicates that there is a reasonable probability of making a successful natural resources damage claim pursuant to section 107 of the CERCLA and section 311 of the FWPCA and that all criteria and requirements in 43 CFR Part 11, generally, and 43 CFR § 11.23(a)-(g), § 11.24 and § 11.25, specifically, have been satisfied.

The information provided and conclusions made in this preassessment screen shall be used to direct further investigations and assessments and is not intended to preclude consideration of other resources later found to be affected or other parties found to be responsible for releases.



Robyn Thorson, Regional Director

U.S. Fish and Wildlife Service

**Authorized Official for the
Department of Interior**

WARNING
DUE TO WATER POLLUTION THIS
AREA OF THE RIVER IS UNSAFE
FOR SWIMMING SKIING, OTHER WATER
ACTIVITIES AND FISHING. FISH
CAUGHT IN THIS AREA MAY BE
CONTAMINATED AND UNSAFE TO
EAT.
THE TOLEDO DISTRICT HEALTH DEPARTMENT



Goals of the NRDA

- **Sediments which pose no risk to fish, wildlife, humans**
- **Elimination of contaminant loading to Maumee Bay**
- **Fully functioning, healthy ecosystem**
- **Compensate the public for past and future losses of ecosystem services**