



**STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES**

SR45 Appendix

February 2008

Tahquamenon River Assessment Appendix

James R. Waybrant

and

Troy G. Zorn

MICHIGAN DEPARTMENT OF NATURAL RESOURCES FISHERIES DIVISION

Special Report 45 Appendix
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Appendix A

Distribution Maps of Fish Species

Known present and past fish distributions in the Tahquamenon River watershed. Distribution maps were compiled from Bailey et al. (2004), Taylor (1954), and records at the Michigan Department of Natural Resources Newberry Operations Service Center and from the Michigan Department of Natural Resources Fish Collection System. No species found in the watershed is listed under Michigan's Endangered Species Act (Part 365, Endangered Species Protection, of the Natural Resource and Environmental Protection Act, Act 451 of the Public Acts of 1994). Historical records indicate that the threatened lake sturgeon *Acipenser fulvescens* were at one time present in the lower river, but none have been documented in recent times.

Habitat descriptions were compiled from the Fishes of Ohio (Trautman 1981), Freshwater Fishes of Canada (Scott and Crossman 1973), Fishes of Wisconsin (Becker 1983), Fishes of Missouri (Pflieger 1975), and Fishes of the Great Lakes Region (Hubbs and Lagler 1947).

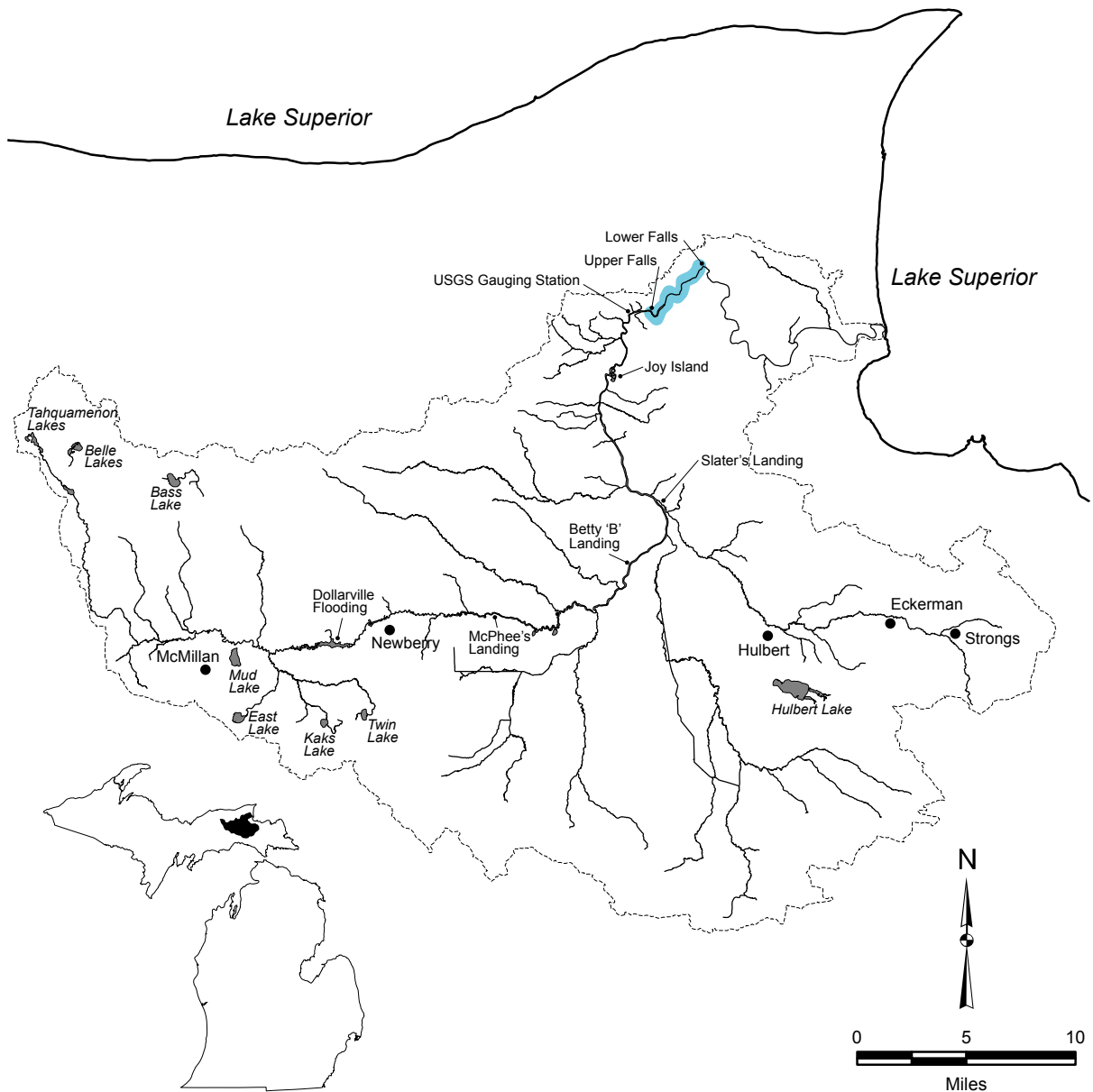
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Silver lamprey *Ichthyomyzon unicuspis*

Habitat:

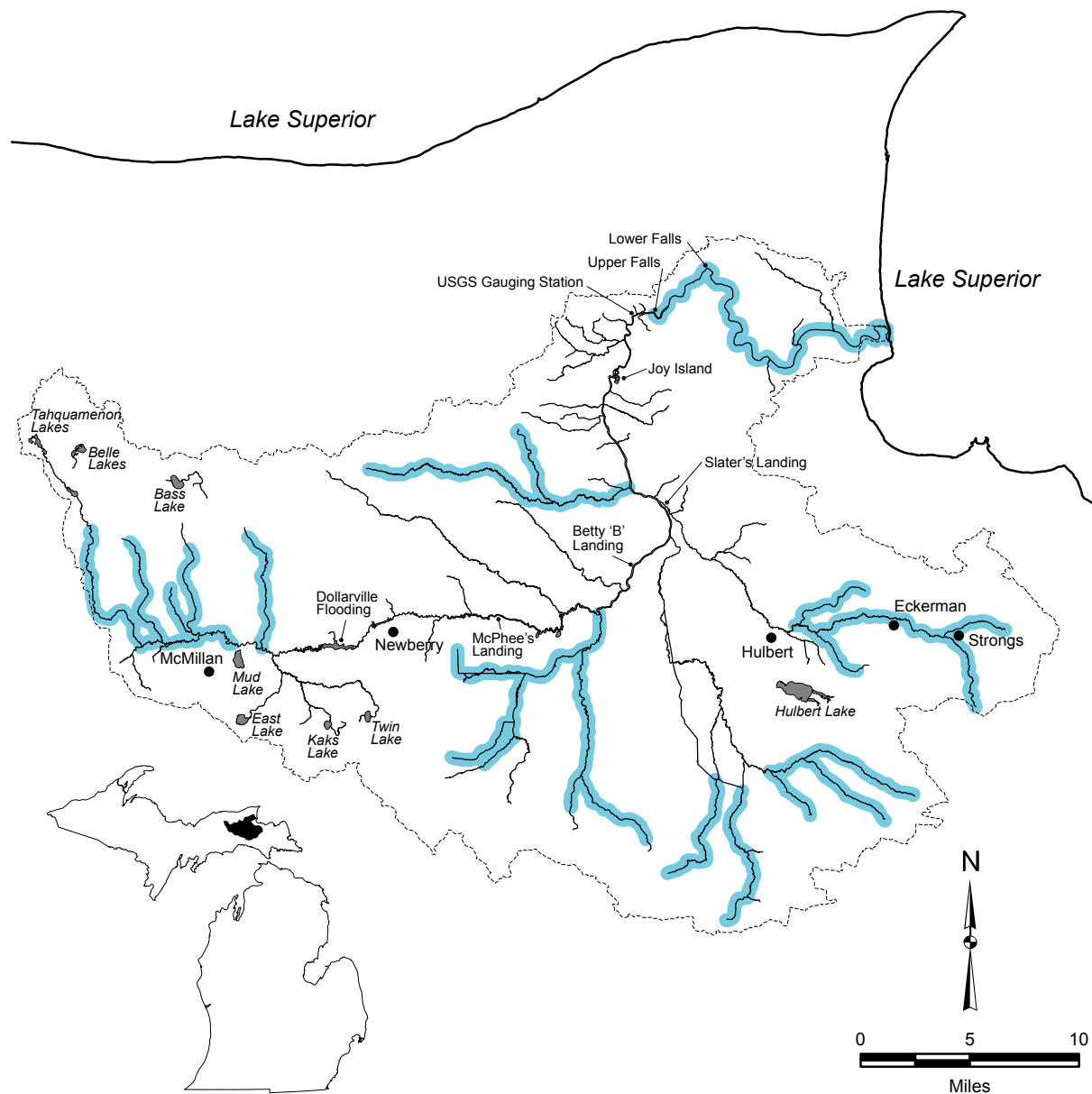
- feeding - young: sand, muck, or organic debris substrate
- adults: clear river water with prey species
- spawning - gravel and sand substrate
- moderate gradient
- moderate size stream
- cannot tolerate silt
- no dams
- winter refuge - ammocetes burrow for 4 to 7 years
 in mud and silt at river margins



American brook lamprey *Lampetra appendix*

Habitat:

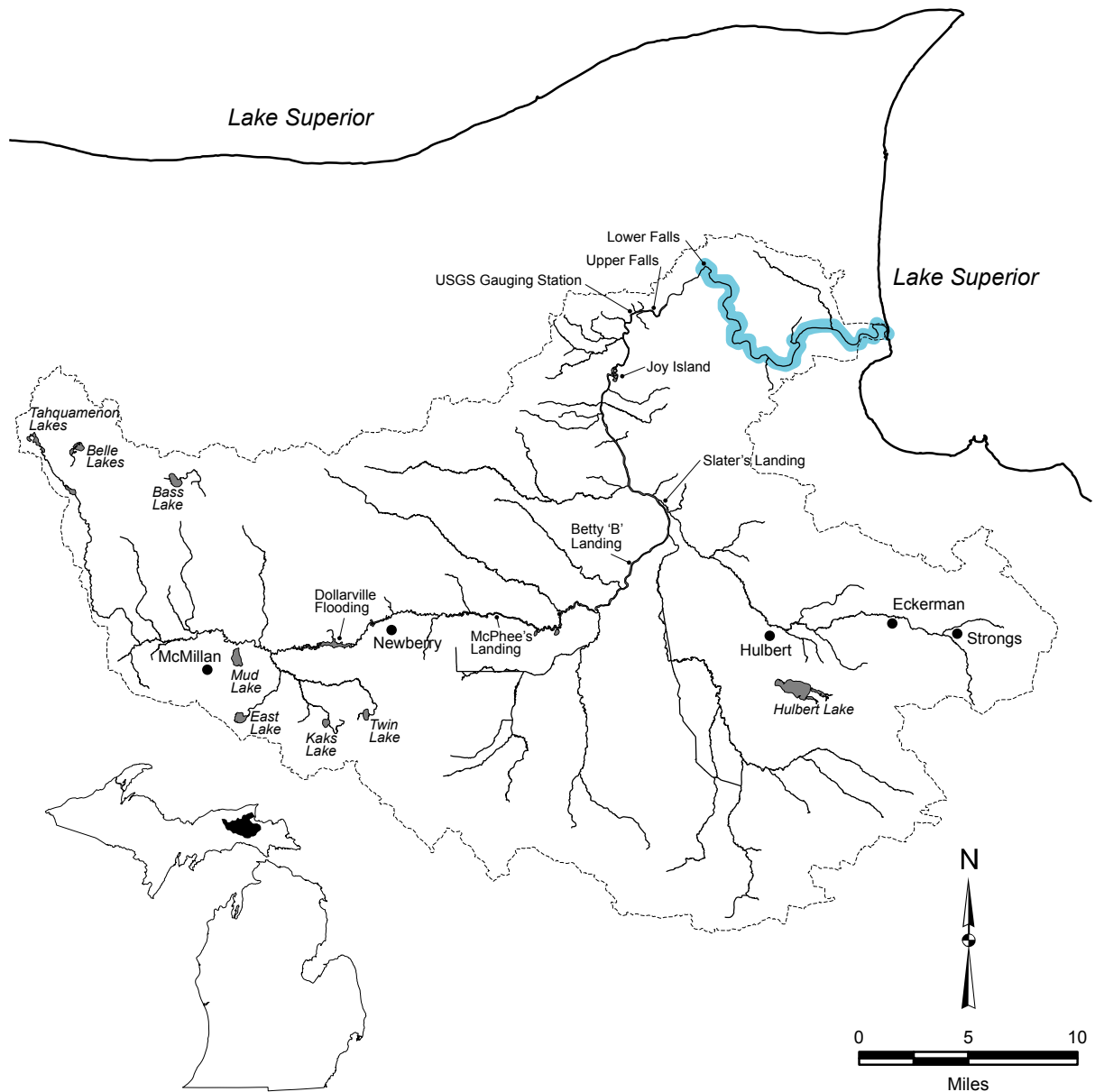
- feeding - young: low gradient, substrate with bars and beds of mixed sand and organic debris
 - clear cool stream water, sensitive to turbidity
- spawning - clear, high gradient streams (>15 feet wide)
 - cold water
 - gravel substrate
- winter refuge - sand or silt substrate for ammocetes



Sea lamprey *Petromyzon marinus*

Habitat:

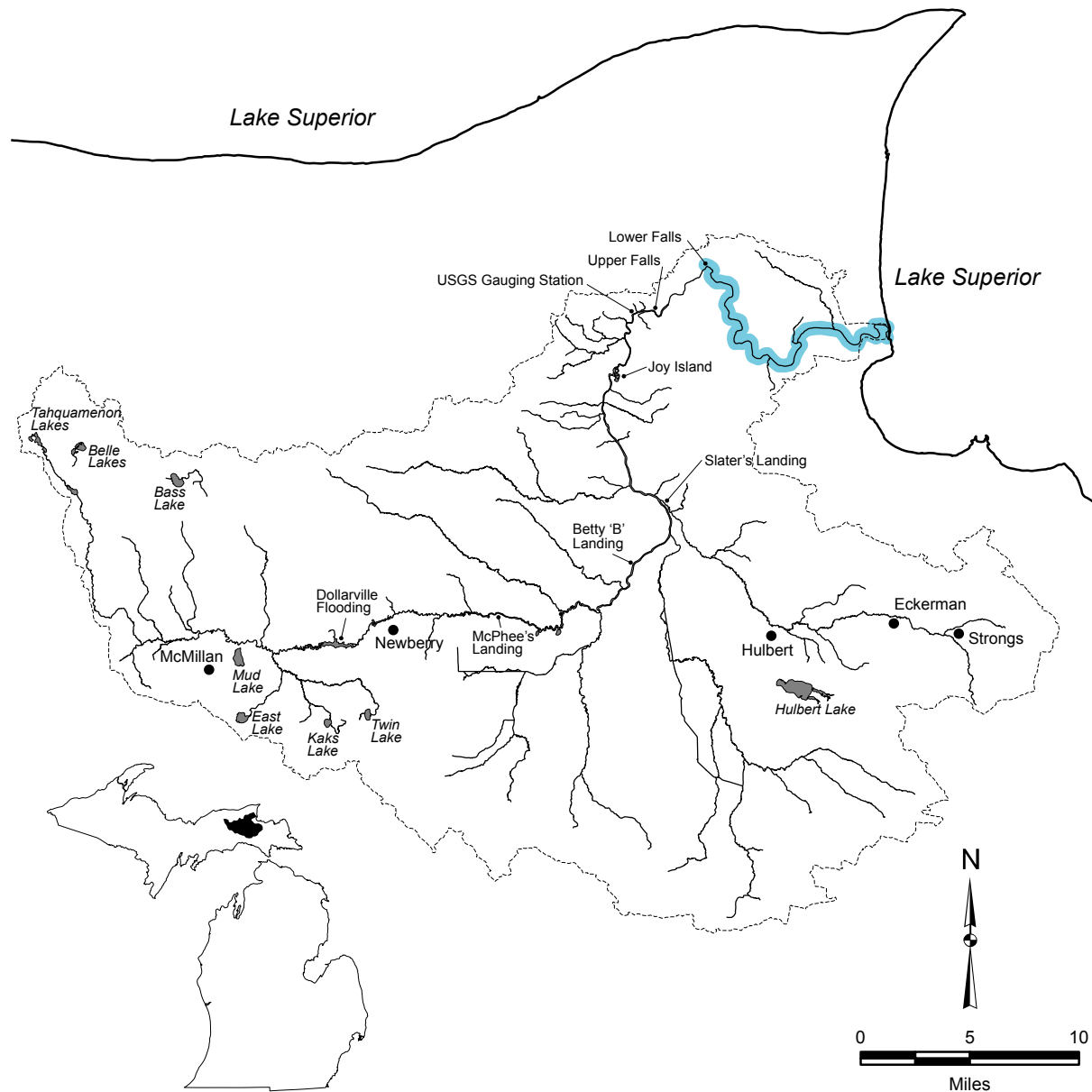
- feeding - young: substrate with beds of sand mixed with organic debris
- cannot tolerate silt
- adults: clear cool water of Lake Superior
- spawning - no dams
- riffles with sand and gravel substrates



Lake sturgeon *Acipenser fulvescens* – threatened

Habitat:

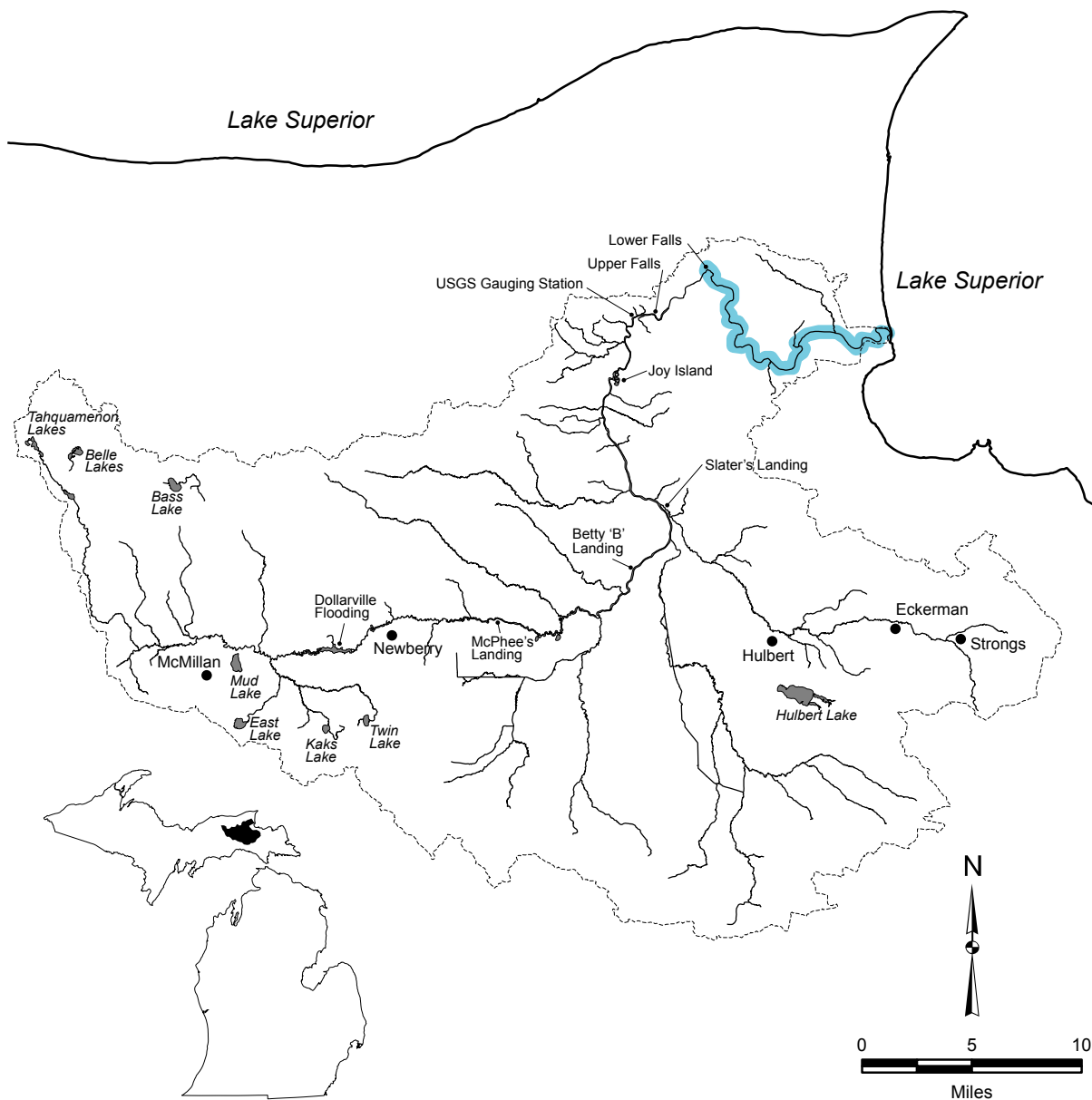
- feeding - shoal areas of large rivers, lakes, and impoundments
- gravel, sand, rock substrates
- spawning - in or before rapids, at the base of dams in rivers
- in 2-15 feet of water
- swift current
- rocky ledges or around rocky islands in Great Lakes



Common carp *Cyprinus carpio*

Habitat:

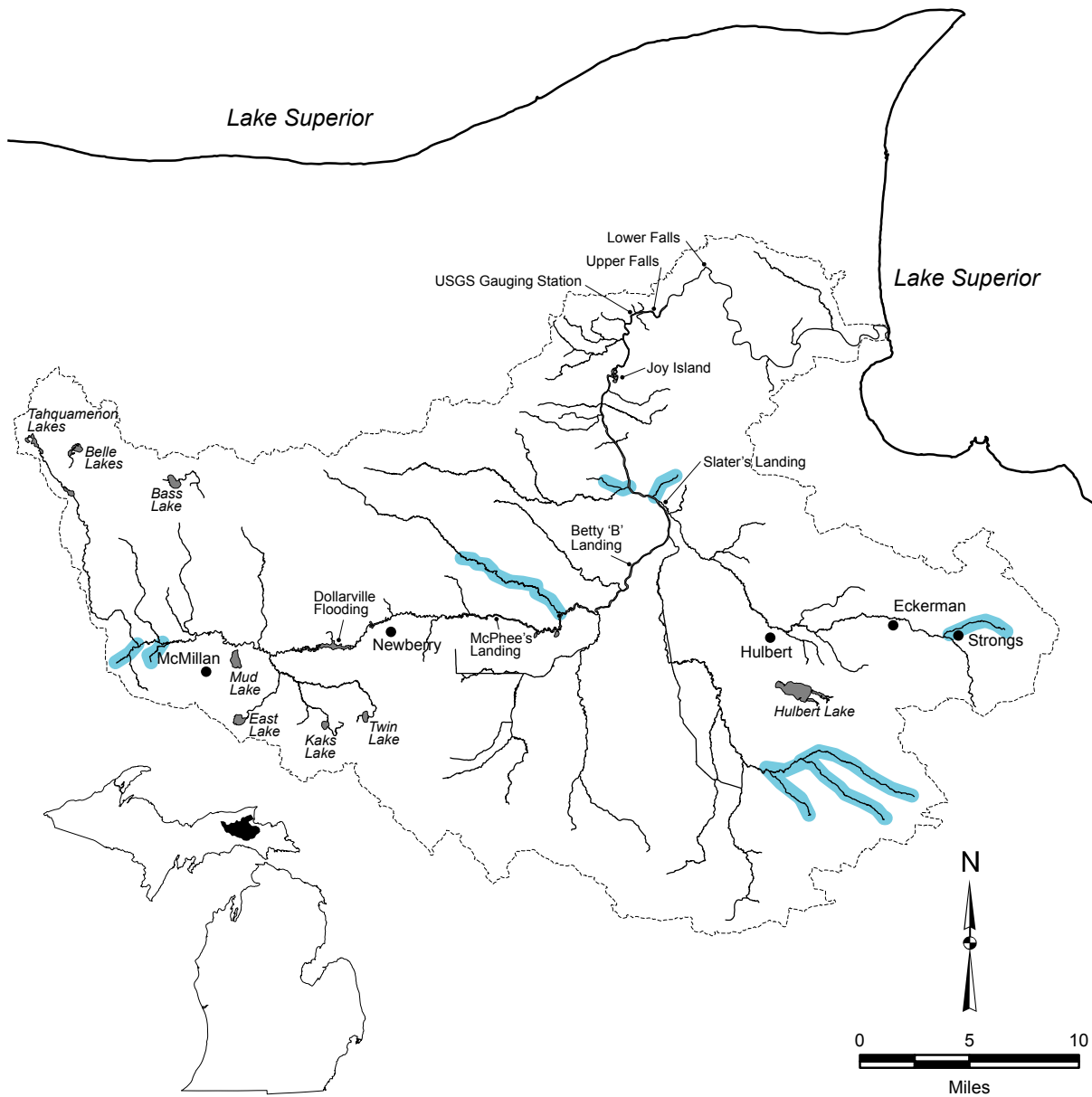
- feeding - low gradient fertile streams, rivers, lakes, and impoundments
- abundance of aquatic vegetation or organic matter
- tolerant of all substrates and clear to turbid water
- spawning - weedy or grassy shallows



Brassy minnow *Hybognathus hankinsoni*

Habitat:

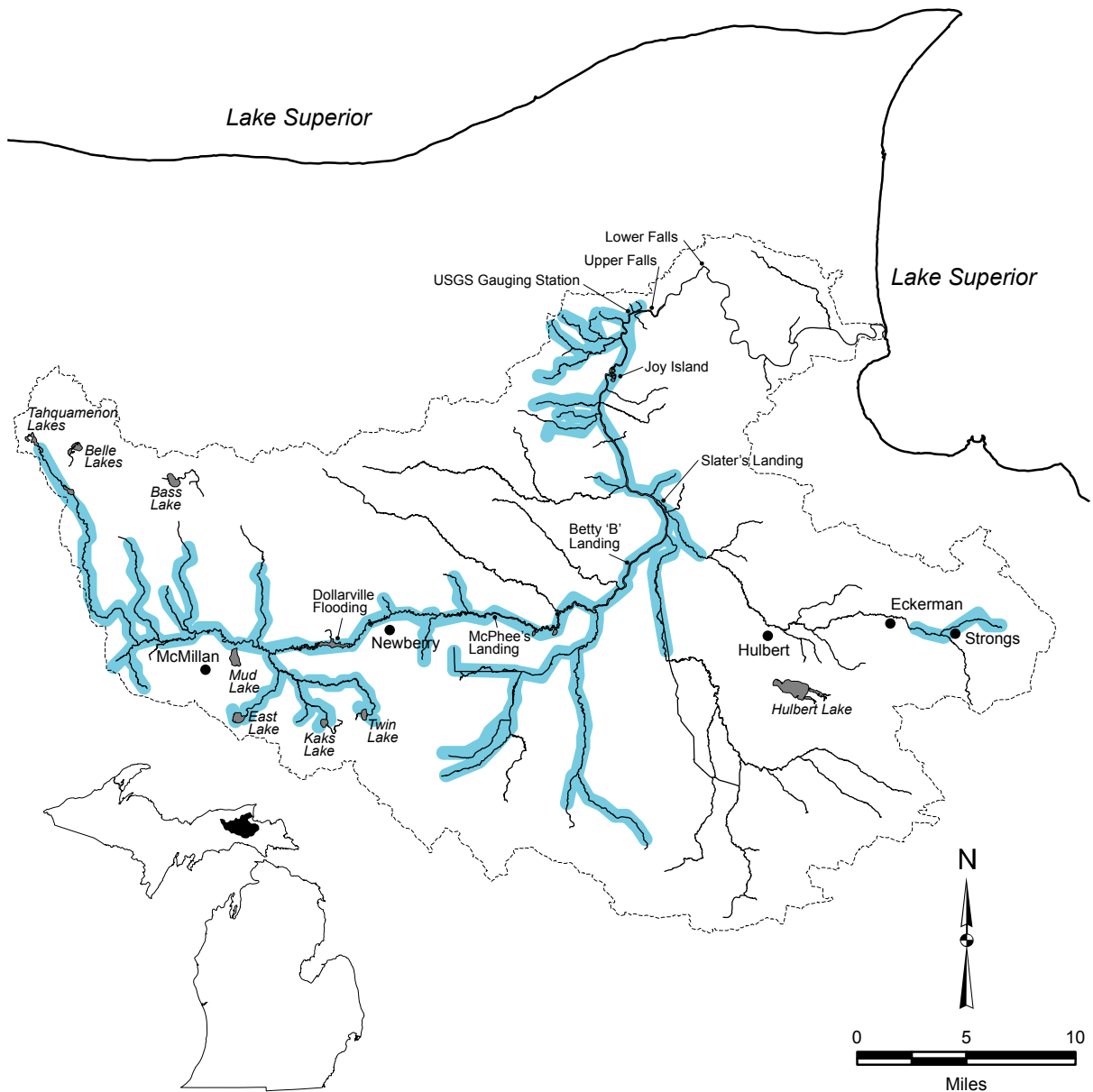
- feeding - cool acidic streams
- slow to moderate current
- sand or gravel substrate



Common shiner *Luxilus cornutus*

Habitat:

- feeding - small, clear, high-gradient streams and rivers, or shores of clear water lakes and impoundments
 - gravel substrate
 - can tolerate some submerged aquatic vegetation
 - not very tolerant of turbidity or silted waters
- spawning - gravel nests of other fish, especially those at the head of a riffle



Northern pearl dace *Margariscus nachtriebi*

Habitat:

- feeding - cool, neutral to acidic streams and lakes
- clear to slightly turbid water
- spawning - males are territorial
- clear water, 18-24 inches deep
- sand or gravel substrate
- weak to moderate current

