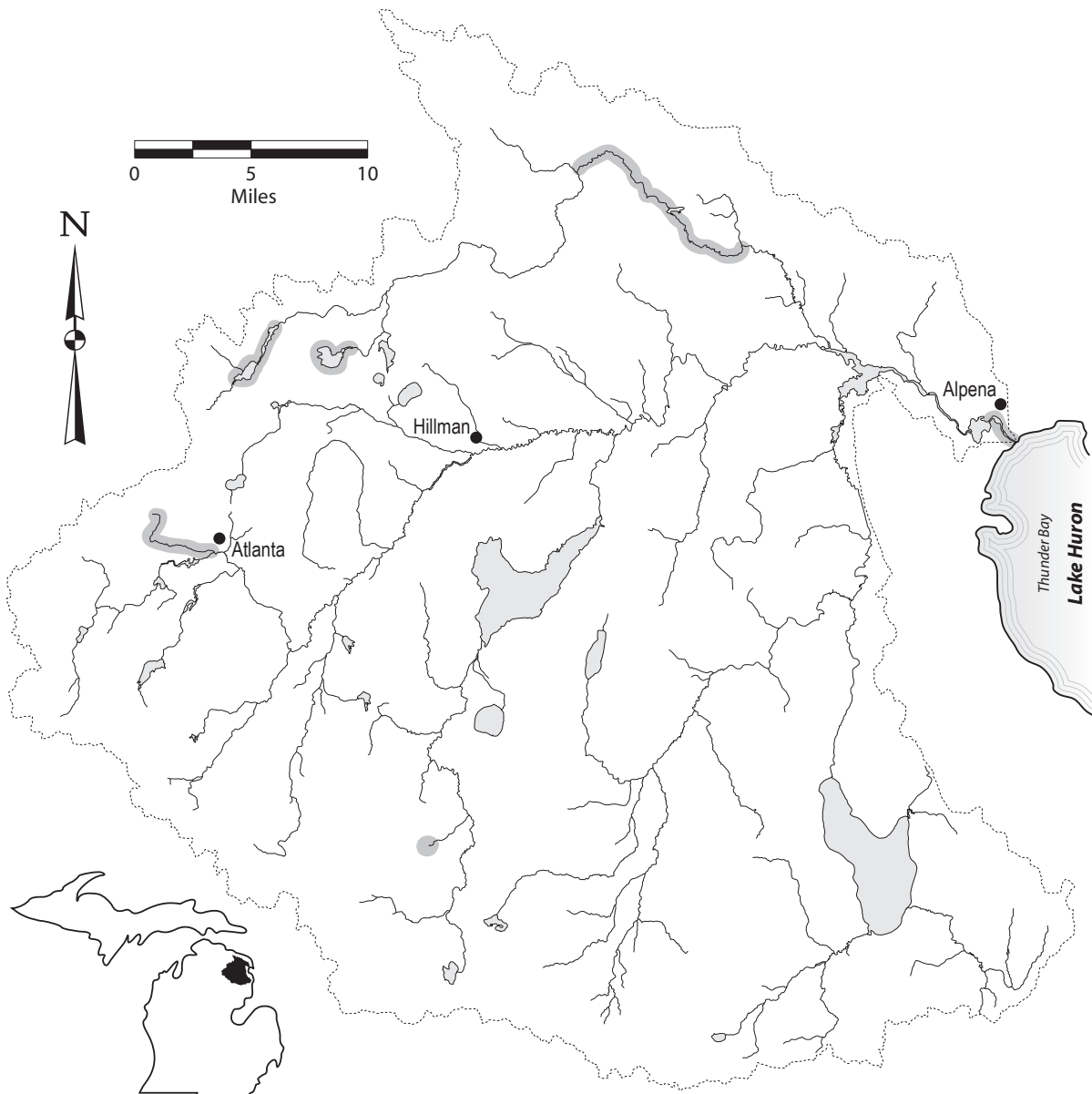


Blackchin shiner (*Notropis heterodon*)

Habitat:

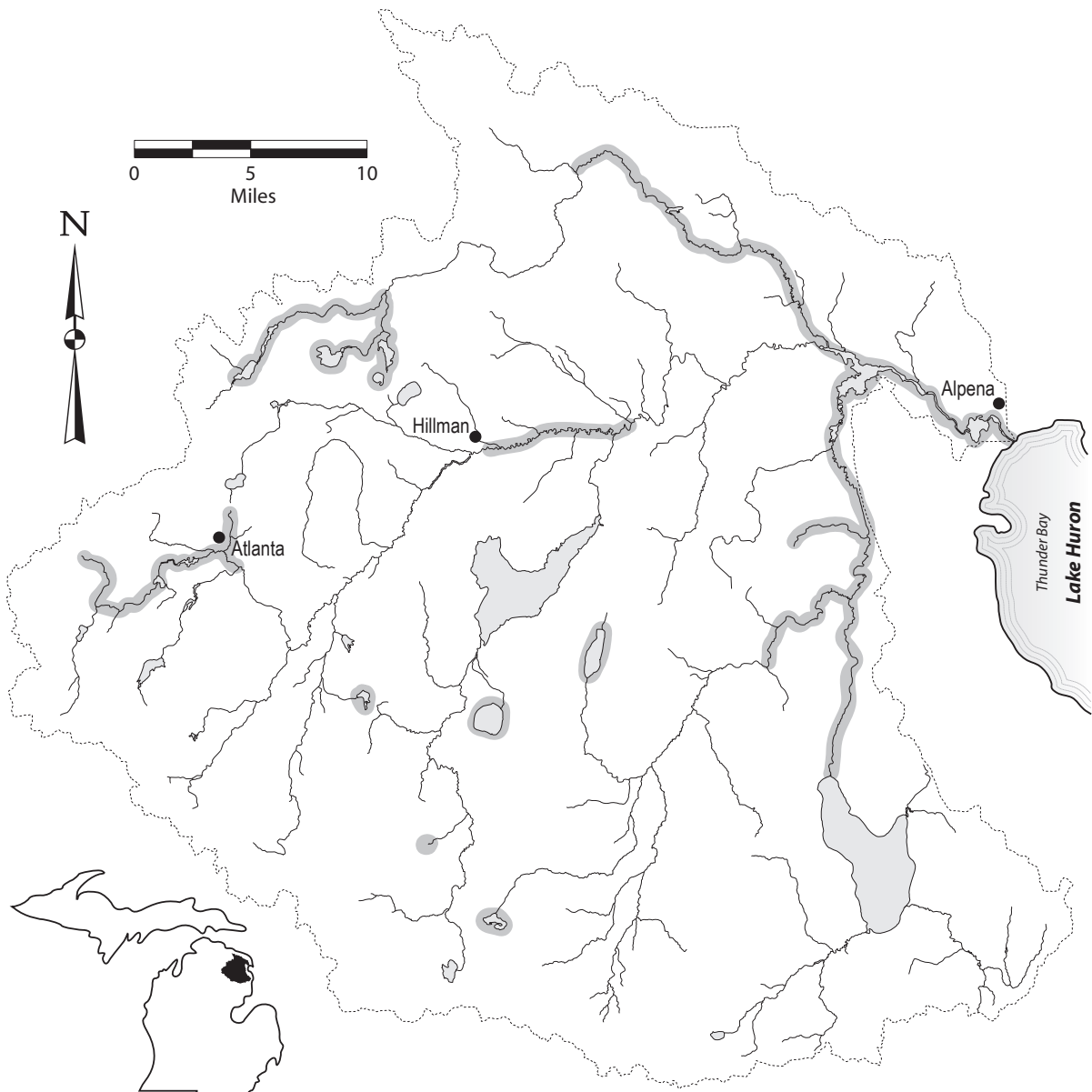
- feeding - lakes, impoundments, and quiet pools in streams and rivers
- clear water
- clean sand, gravel, or organic debris substrate
- dense beds of submerged aquatic vegetation
- cannot tolerate turbidity, silt, or loss of aquatic vegetation



Blacknose shiner (*Notropis heterolepis*)

Habitat:

- feeding - clear lakes, impoundments, and pools of small, clear, low-gradient streams
 - aquatic vegetation
 - clean sand, gravel, marl, muck, peat, or organic debris substrate
 - cannot tolerate much turbidity, much siltation, or loss of aquatic vegetation
- spawning - sandy substrate

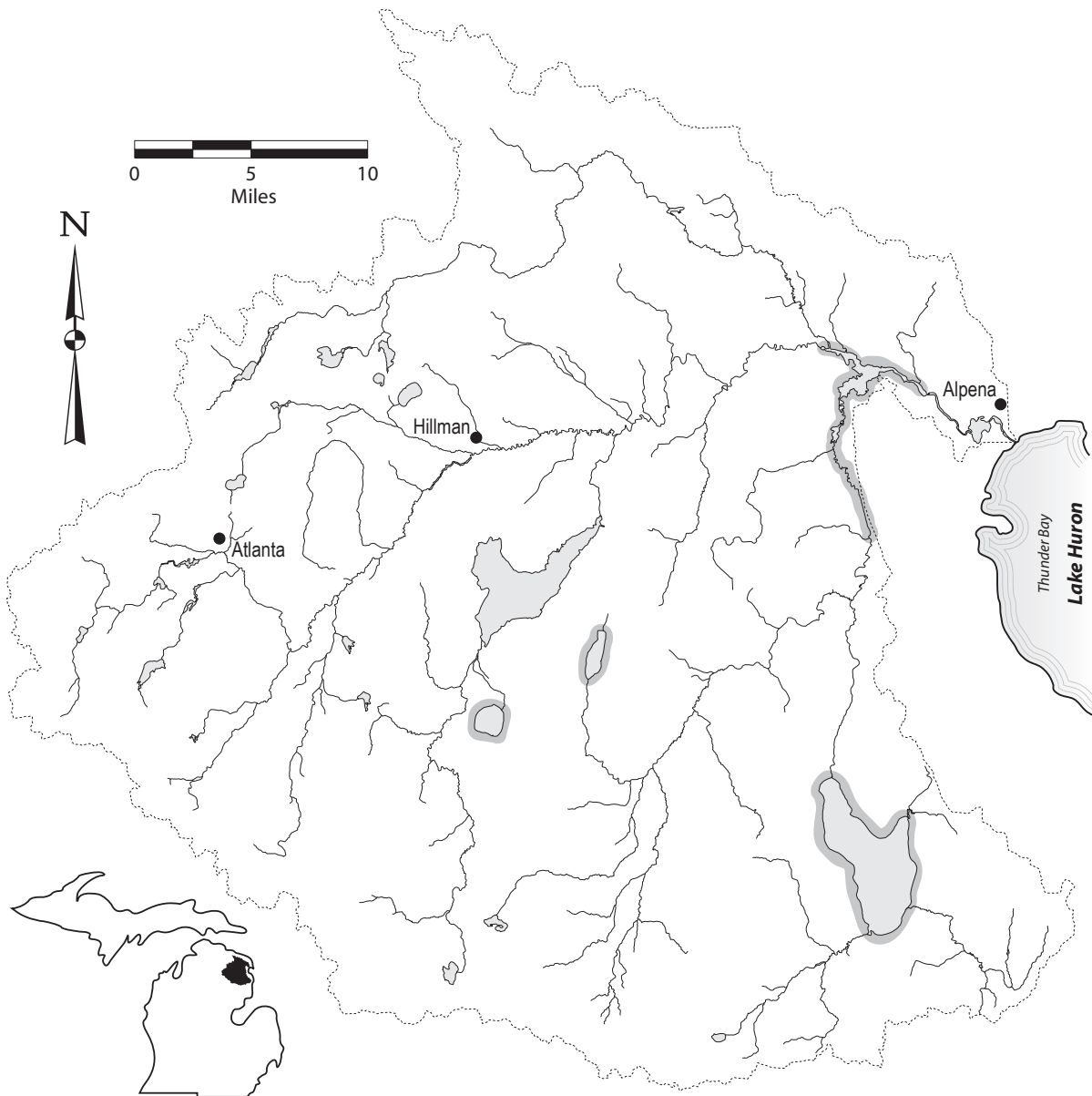


Spottail shiner (*Notropis hudsonius*)

Habitat:

- feeding - large rivers, lakes, and impoundments
- firm sand and gravel substrate
- low current
- sparse to moderate vegetation
- avoids turbidity

- spawning - over sandy shoals or gravelly riffles
- near the mouths of small streams

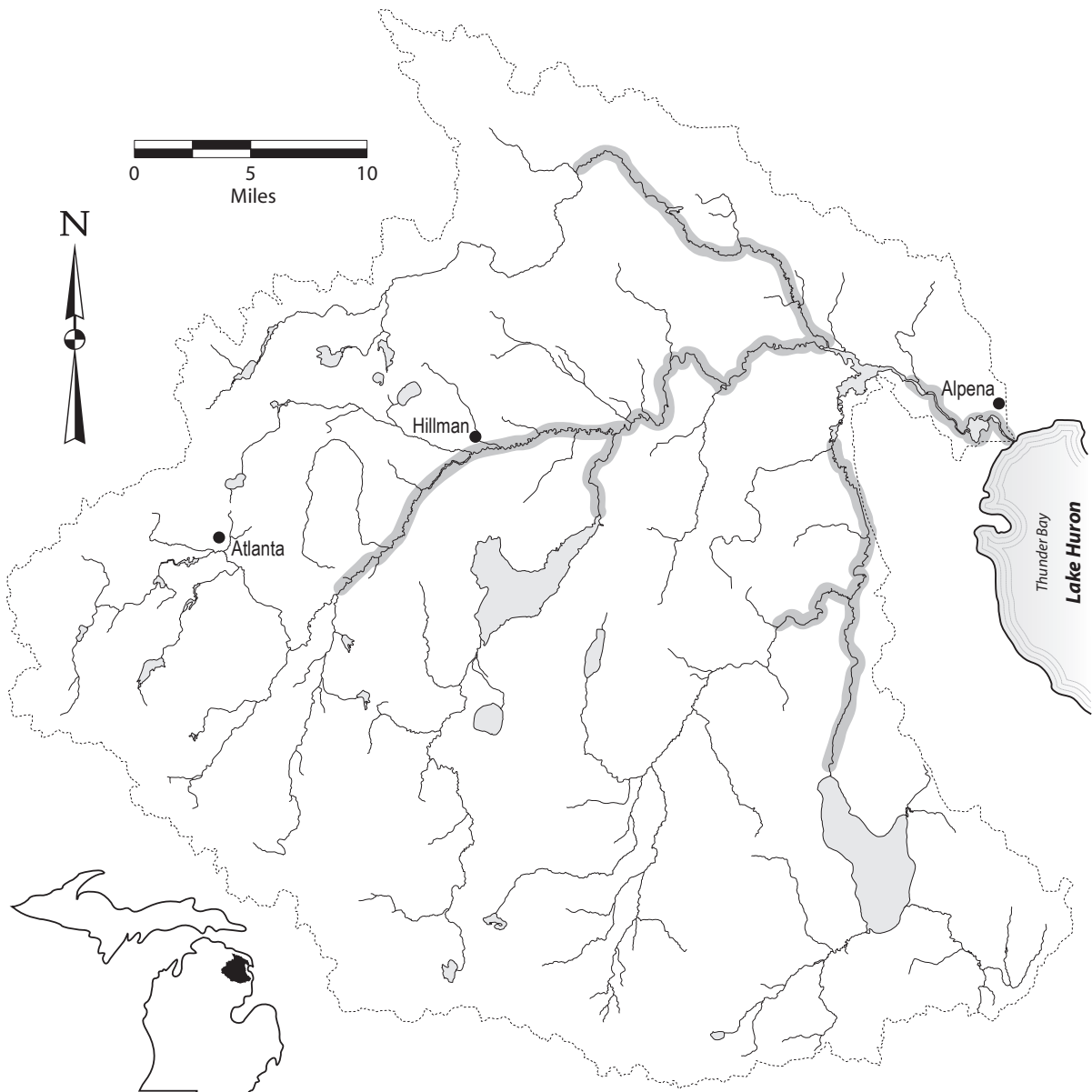


Rosyface shiner (*Notropis rubellus*)

Habitat:

- feeding - moderate sized streams
- moderate to high gradient
- gravel or sand substrate; intolerant of silt substrate
- clear water; intolerant of turbidity

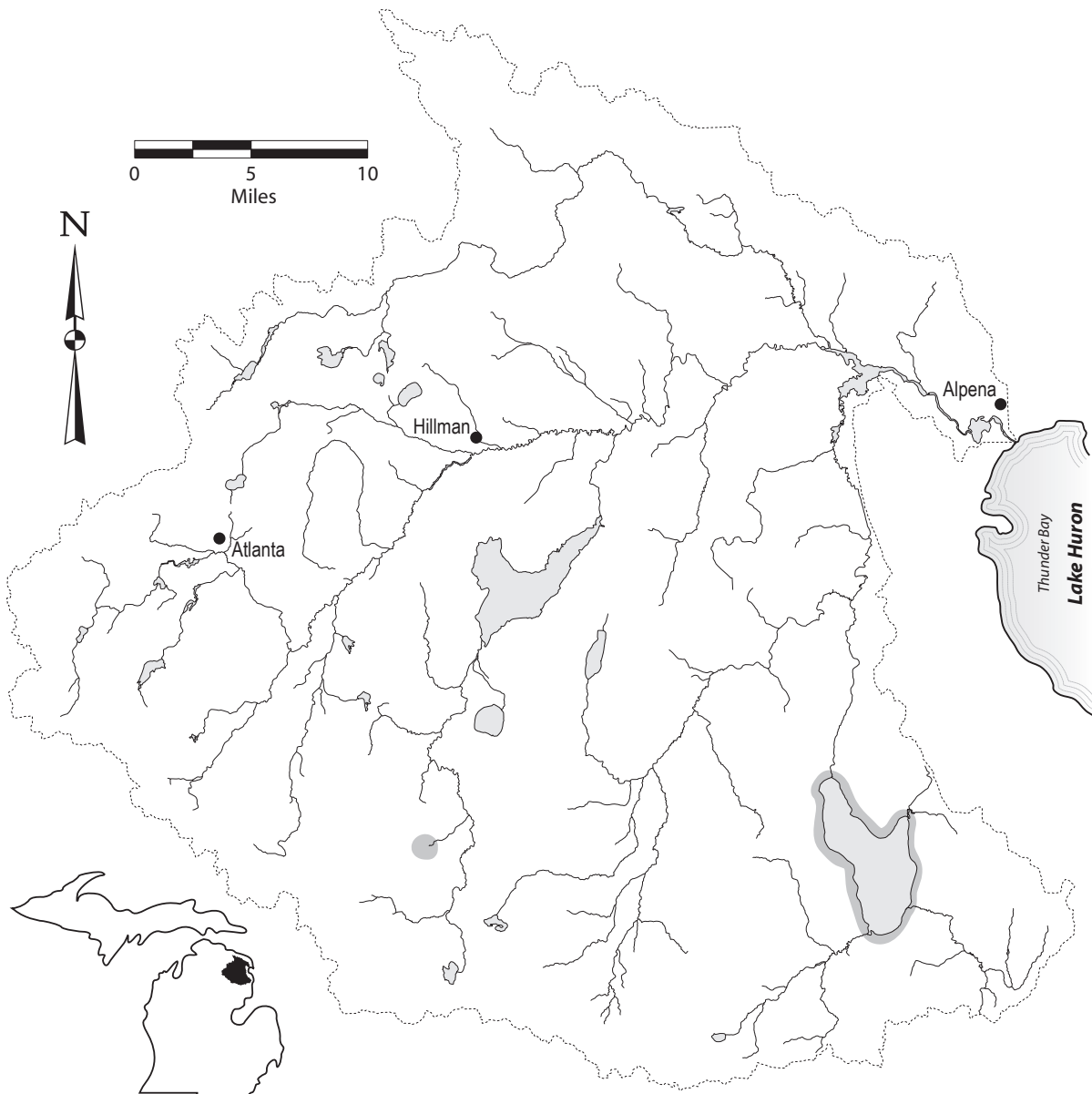
- spawning - on nests of hornyhead chub, chestnut lamprey, and redhorses
- sandy-gravel, gravel or bedrock substrate
- shallow high gradient water



Sand shiner (*Notropis stramineus*)

Habitat:

- feeding - sand and gravel substrate
 - shallow pools in medium size streams, lakes, and impoundments
 - clear water and low gradient
 - rooted aquatic vegetation preferred
 - tolerant of some inorganic pollutants provided substrate is not covered
- spawning - clean gravel or sand substrate

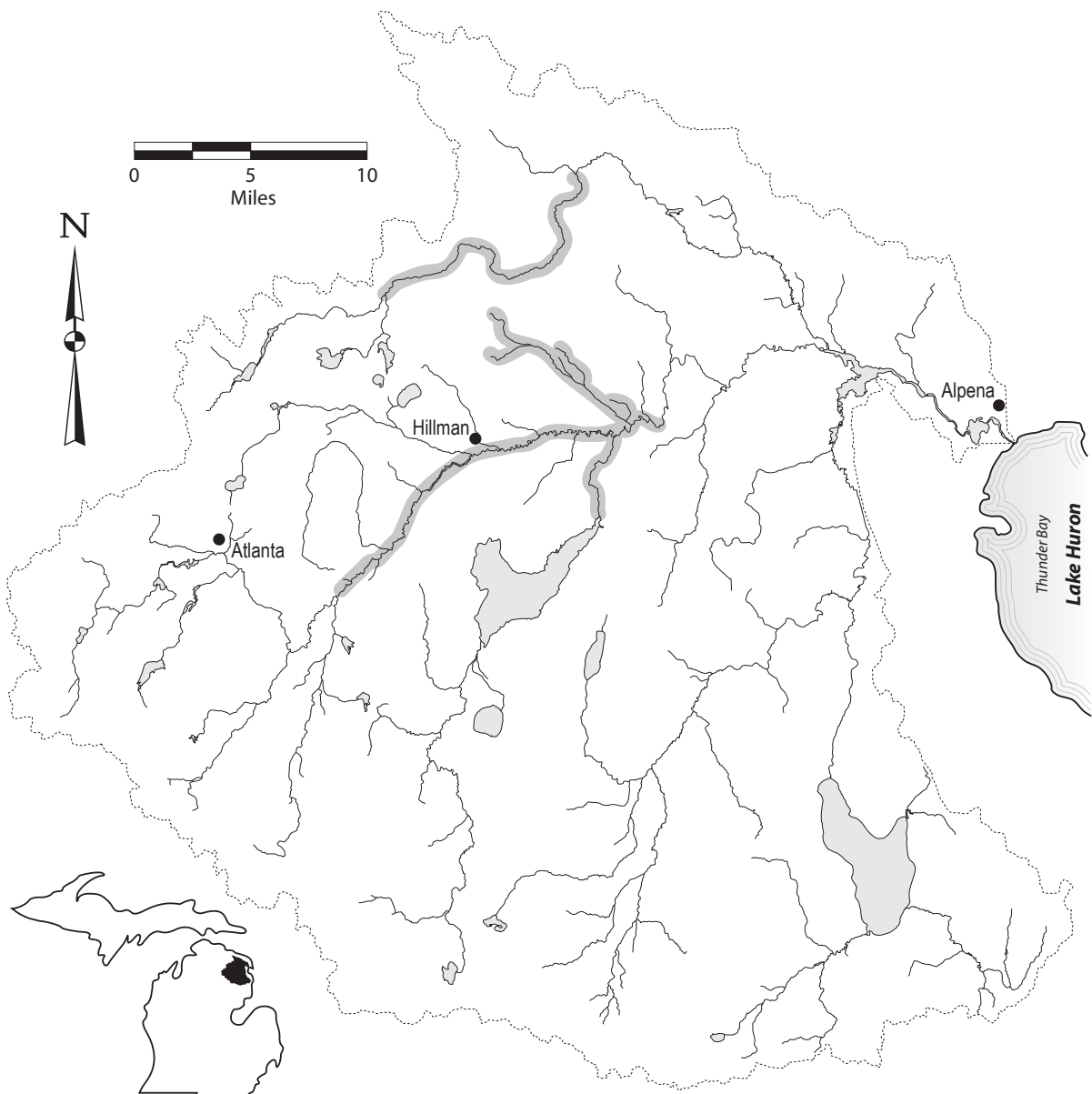


Mimic shiner (*Notropis volucellus*)

Habitat:

- feeding - pools and backwater of streams, moderately weedy lakes and impoundments
- quiet or still water
- clear shallow water

- spawning - aquatic vegetation necessary

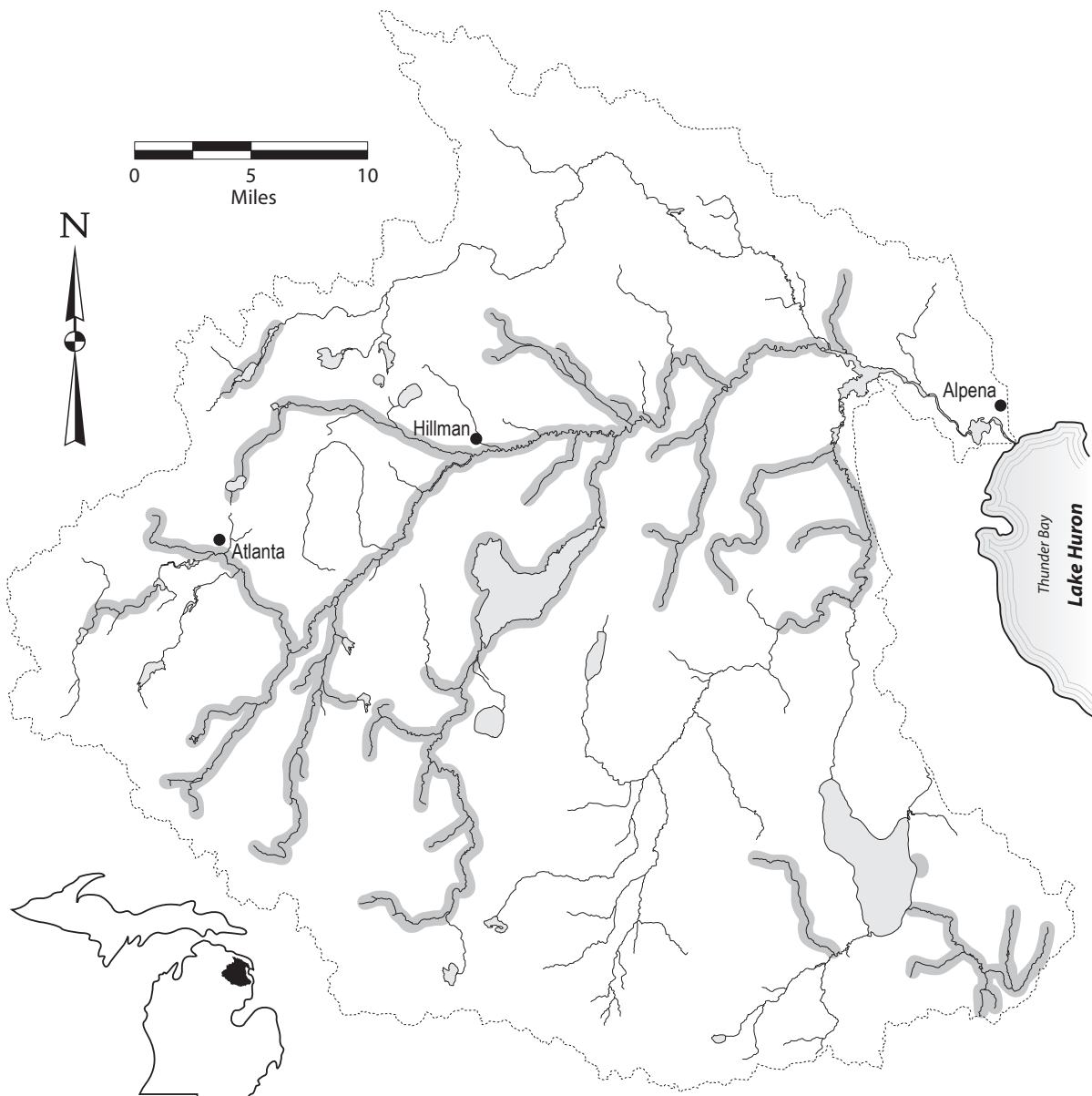


Northern redbelly dace (*Phoxinus eos*)

Habitat:

- feeding - slow current
- in boggy lakes and streams
- detritus or silt substrate
- clear to slightly turbid water

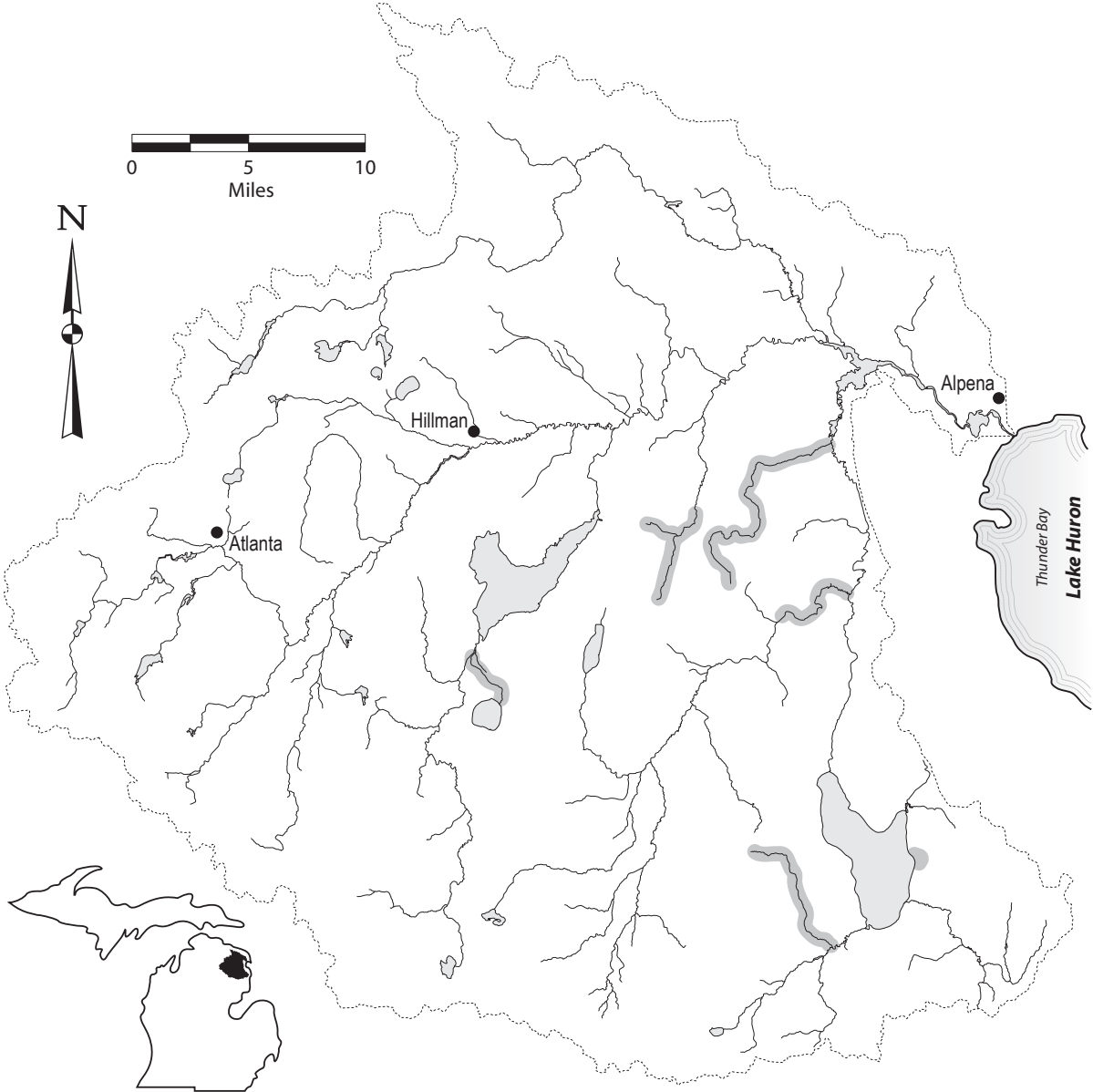
- spawning - filamentous algae needed for egg deposition



Finescale dace (*Phoxinus neogaeus*)

Habitat:

- feeding - cool bog lakes and streams
- neutral to slightly acidic waters
- various substrates

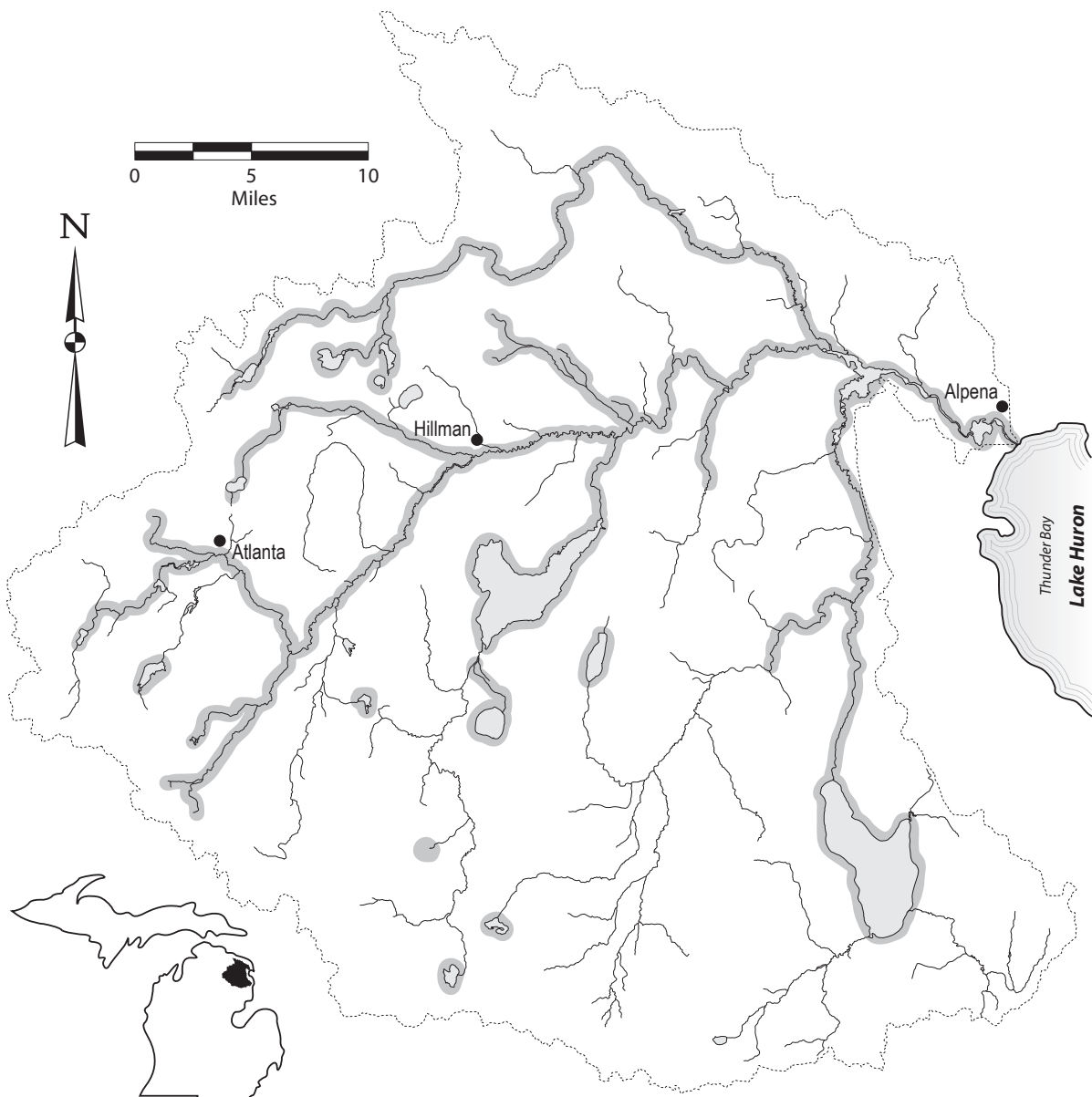


Bluntnose minnow (*Pimephales notatus*)

Habitat:

- feeding - quiet pools and backwaters of medium to large streams, lakes, and impoundments
- clear warm water
- some aquatic vegetation
- firm substrates
- tolerates all gradients, turbidity, organic and inorganic pollutants

- spawning - eggs deposited on the underside of flat stones or objects
- nests in sand or gravel substrate



Fathead minnow (*Pimephales promelas*)

Habitat:

- feeding - pools of small streams, lakes, and impoundments
- tolerant of turbidity, high temperatures, and low oxygen

- spawning - on underside of objects in water 2 to 3 feet deep
- prefer sand, marl, or gravel substrate

