



Michigan's  
Nonpoint Source  
Program

Federal Clean Water Act  
Section 205j  
Non-point Source Grant  
2017-0108



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## Lake Superior Watershed Planning in Three Prioritized Watersheds

January 2018 - September 2020

The goal of the *Lake Superior: Watershed Planning in Three Prioritized Watersheds* project was to update three priority state and EPA approved watershed management plans in the Lake Superior Basin of Michigan's Upper Peninsula; the Two Hearted River Watershed (130,000 acres), the Lower Dead River Watershed (14,080 acres), and the Salmon Trout River Watershed (31,687 acres) after more than a decade of planning and watershed plan implementation. The updated plans reflect current watershed conditions, identify current non-point source impairments, and establish new non-point source pollutant reduction loads to achieve water quality goals. Sedimentation (from development, recreational use, etc.) continues to be the primary source of nonpoint source pollution in each watershed. Prioritized plan recommendations will address impacts from sedimentation as well as other potential sources including climate change and increased threats from mining to ensure continued protection of water quality and designated, and desired watershed uses.



Grant Amount: \$28,600.00  
Match Funds: \$10,400.00

Total Amount: \$39,000.00

### Best Management Practices:

- New GIS-based Land cover data and aerial imagery
- Ecosystems Services Assessment and Analysis Process
- Policies, Strategies, and Options for LUGs
- Place-based K-12 curriculum for educators



### Annual Load Reductions:

#### • LOWER DEAD RIVER WATERSHED:

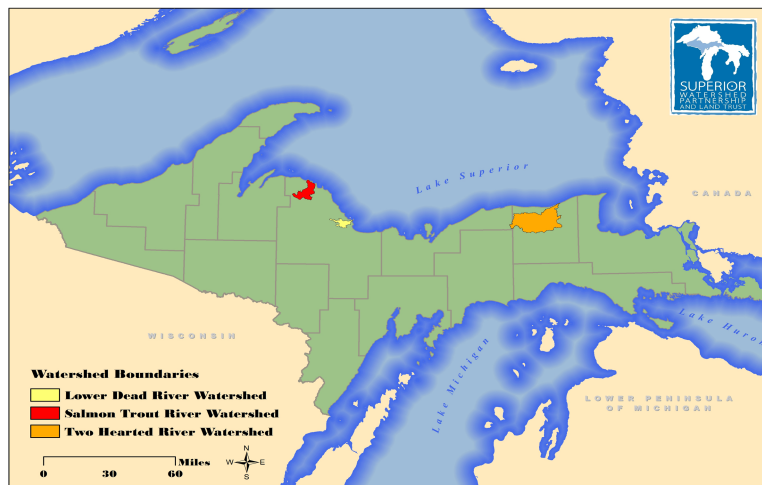
Nitrogen (N): 553.3 pounds/year  
Phosphorus (P): 213.1 pounds/year  
Biological Oxygen Demand (BOD): 1,106.7 pounds/year  
Sediment: 400.5 tons/year

#### • SALMON TROUT RIVER WATERSHED:

Nitrogen (N): 31.2 pounds/year  
Phosphorus (P): 12 pounds/year  
Biological Oxygen Demand (BOD): 62.3 pounds/year  
Sediment: 29.9 tons/year

#### • TWO HEARTED RIVER WATERSHED:

Nitrogen (N): 16,583 pounds/year  
Phosphorus (P): 8,087 pounds/year  
Biological Oxygen Demand (BOD): 42,634 pounds/year  
Sediment: 210 tons/year



### I&E Activities:

- Social Surveys of watershed residents
- Outreach and Communications Strategy Plan
- Conservation Toolkit
- Direct Contacts and Outreach to partners/stakeholders
- K-12 Curriculum for Educators



### Partners involved:

- Model Forest Policy Program
- Key-Log Economics
- Marquette County Climate Adaptation Task Force
- Local Units of Government
- The Nature Conservancy
- Applied Ecological Services
- Northern Michigan University
- Great Lakes Conservation Corps
- Upper Great Lakes Stewardship Initiative

## LOWER DEAD RIVER WATERSHED MANAGEMENT PLAN



SUPERIOR WATERSHED PARTNERSHIP  
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Funded by the Michigan Department of Environmental Quality (MDEQ)  
Non-point Source Pollution Prevention Program and the  
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Under the authority of Section 319 of the Clean Water Act

## Lower Dead River Watershed Management Plan

## Salmon Trout River Watershed Management Plan

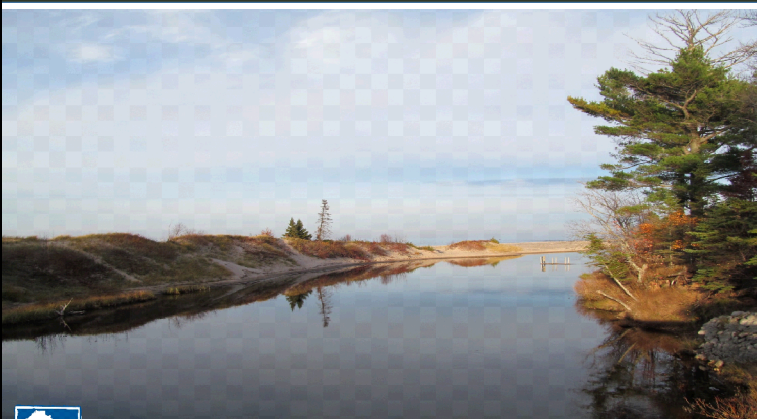
## SALMON TROUT RIVER WATERSHED MANAGEMENT PLAN



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## TWO HEARTED RIVER WATERSHED MANAGEMENT PLAN



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## Two Hearted River Watershed Management Plan