

<p>Notice of Public Meeting  <b>Tuesday, February 25, 2020</b>  1:00 p.m.</p>	<p><b>LAND AND WATER  RESOURCE MANAGEMENT  PLAN LOCAL ADVISORY  COMMITTEE</b></p>	<p><i>Door County Community Center  Large Activity Room  916 N 14<sup>th</sup> Ave, Sturgeon Bay, WI</i></p>
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**AGENDA**

1. **Call Meeting to Order**
2. **Establish a Quorum**
3. **Adopt Agenda / Properly Noticed**
4. **Elect Chair and Vice-Chair**
5. **Public Comment** (Maximum agenda item of 30 minutes with a maximum of three minutes per speaker)
6. **New Business**
  - Land and Water Resource Management Plan Overview **Page 2**
  - Local Advisory Committee Overview **Page 7**
  - Public Input Sessions Results (February 17, 19, and 20) **Page 12**
  - Prioritized List of Land and Water Resource Needs
  - Next Steps
7. **Future Agenda Items**
8. **Next Meeting Date(s)**
9. **Adjourn**

*Deviation from the order shown may occur*



**DOOR COUNTY**  
**LAND & WATER RESOURCE**  
**MANAGEMENT PLAN**

Prepared by the  
Door County Soil & Water Conservation Department  
and approved by the  
Door County Land Conservation Committee

2011-2020

Principal Contributors

William E. Schuster, SWCD Department Head  
Brian Forest, SWCD Conservationist  
Beth Hanson, SWCD Administrative Assistant

**Complete Plan can be found here: <http://map.co.door.wi.us/swcd/>  
Hard copy of plan will be provided at Local Advisory Committee Meeting**

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**DOOR COUNTY**

**Resolution No. 2020-03**

**CREATION AND APPOINTMENT OF A § ATCP 50.12(3)(A), WIS. ADM. CODE ADVISORY COMMITTEE**

**TO THE DOOR COUNTY BOARD OF SUPERVISORS:**

ROLL CALL Board Members	Aye	Nay	Exc.
AUSTAD	X		
BACON	X		
BULTMAN	X		
CHOMEAU	X		
D. ENGLEBERT		X	
R. ENGLEBERT	X		
ENIGL	X		
FISHER	X		
GUNNLAUGSSON			X
HALSTEAD		X	
HEIM PETER			X
KOCH		X	
KOHOUT	X		
LIENAU	X		
LUNDAHL	X		
NEINAS		X	
NORTON	X		
ROBILLARD	X		
VIRLEE	X		
VLIES WOTACHEK	X		
WAIT	X		

**BOARD ACTION**

Vote Required: Majority Vote of a Quorum

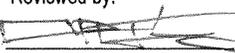
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Motion to Approve Adopted

1st Fisher Defeated

2nd Virlee

Yes: 15 No: 4 Exc: 2

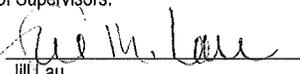
Reviewed by:  Corp. Counsel

Reviewed by:  Administrator

**FISCAL IMPACT:** The mileage expense for the creation of this Committee was not part of the 2020 budget process, monies can be transferred as needed from contingency in 2020 and will part of future budget processes. STW

**Certification:**

I, Jill Lau, Clerk of Door County, hereby certify that the above is a true and correct copy of a resolution that was adopted on the 28th day of January, 2020 by the Door County Board of Supervisors.

  
Jill Lau  
County Clerk, Door County

1       **WHEREAS**, Every county land conservation committee is to establish  
2 and maintain a county soil and water conservation program, including a  
3 county land and water resource management ("LWRM") plan under §  
4 ATCP 50.12, Wis. Adm. Code and § 92.10, Wis. Stats.; and

5  
6       **WHEREAS**, The Door County Land Conservation Committee ("LCC")  
7 must re-write Door County's LWRM Plan in 2020; and

8  
9       **WHEREAS**, A county land conservation committee, when preparing a  
10 LWRM plan, must appoint and consult with a local advisory committee of  
11 interested persons (See: § ATCP 50.12(3)(a), Wis. Adm. Code); and

12  
13       **WHEREAS**, The membership of the local advisory committee should  
14 reflect a broad spectrum of public interests and perspectives.

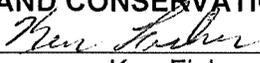
15  
16       **NOW, THEREFORE, BE IT RESOLVED**, That the Door County Board  
17 of Supervisors hereby approves the creation and appointment of a § ATCP  
18 50.12(3)(a), Wis. Adm. Code Door County Advisory Committee consisting  
19 of fourteen (14) members as set forth in *Addendum A* (attached hereto and  
20 incorporated herein by reference as if fully set forth).

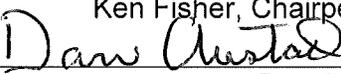
21  
22       **BE IT FURTHER RESOLVED**, That § ATCP 50.12(3)(a), Wis. Adm.  
23 Code Door County Advisory Committee members are not eligible for  
24 compensation, but are eligible for mileage, under Door County's Rules of  
25 Order.

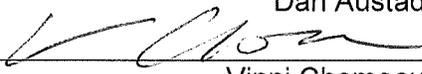
26  
27       **BE IT FURTHER RESOLVED**, That, upon approval of the re-written  
28 Door County LWRM Plan by the Wisconsin Land and Water Conservation  
29 Board, the § ATCP 50.12(3)(a), Wis. Adm. Code Door County Advisory  
30 Committee will automatically cease to exist.

**SUBMITTED BY:**

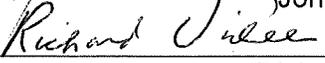
**LAND CONSERVATION COMMITTEE**

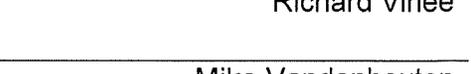
  
Ken Fisher, Chairperson

  
Dan Austad

  
Vinni Chomeau

  
John Neinas

  
Richard Virlee

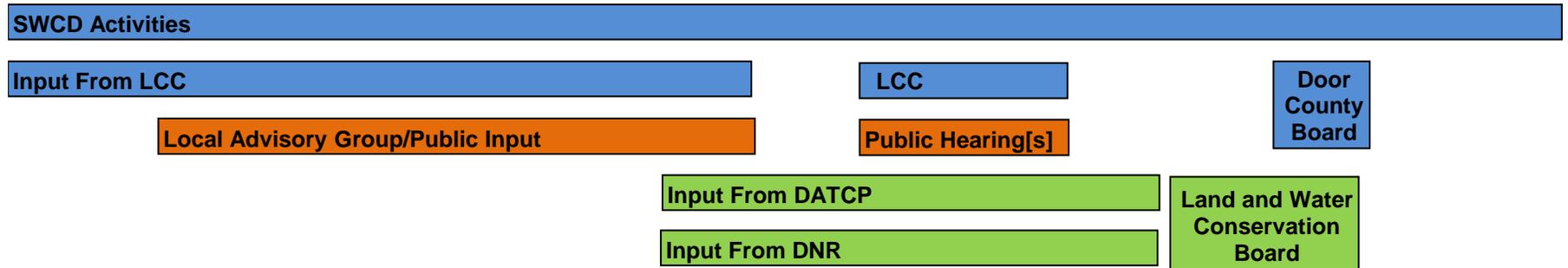
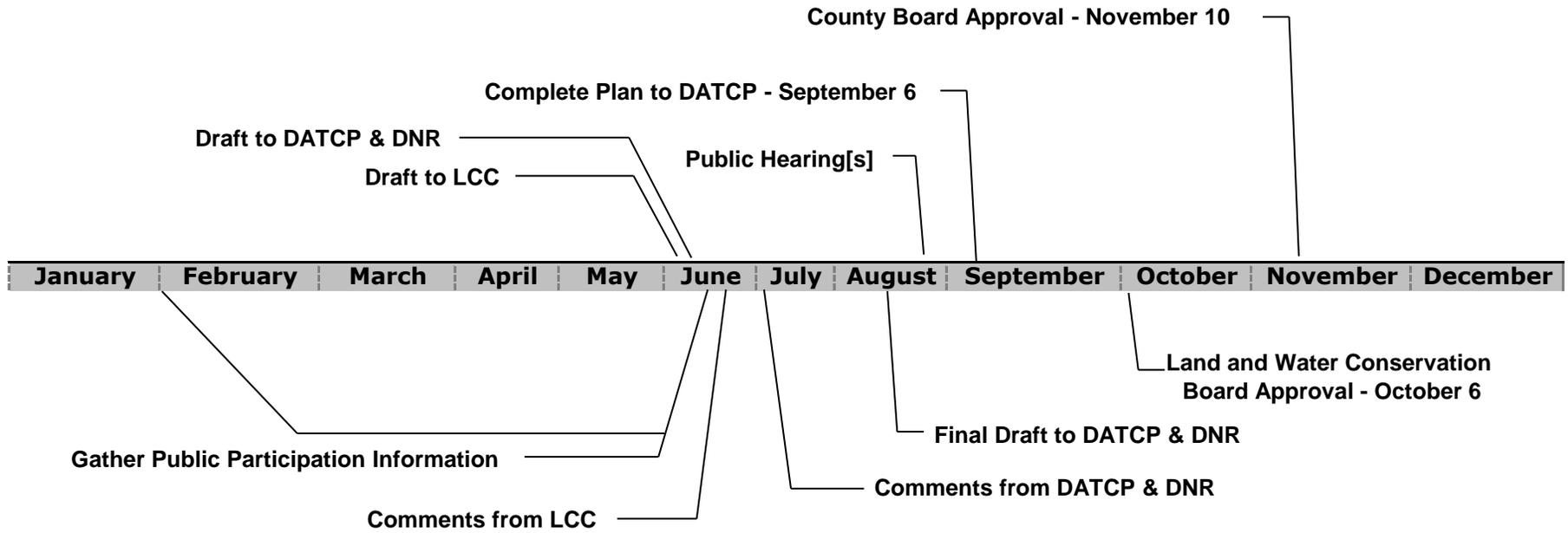
  
Mike Vandenhouten

Randy Halstead

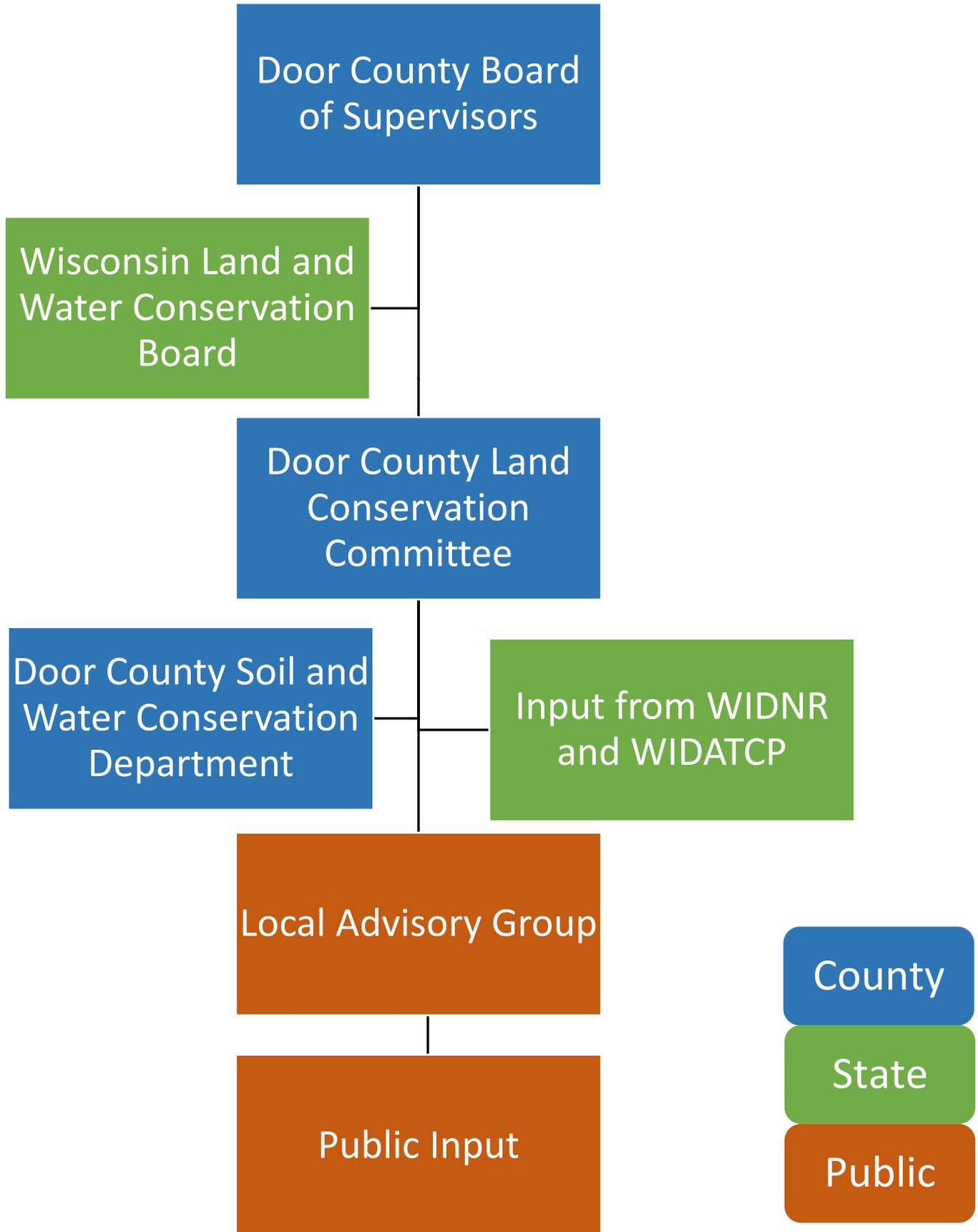
## Resolution No. 2020-03 Addendum A

Organization	Representative
Brey Cycle Farm / Demonstration Farms Network	Tony Brey, Co-owner
Door County Cooperative	Caleb Cornell, Agronomist
Door County Economic Development Corporation	Tom Strong, Business Development Specialist
Door County Environmental Council	Mike Barke, President
Door County Land Trust	Tom Clay, Executive Director
Door County Land Use Services	Mariah Goode, Director
Door County Visitor Bureau	Michelle Rasmusson, Director of Marketing & Sales
Olson Family Farm	Rich Olson, Owner
The Nature Conservancy	Mike Grimm, Conservation Ecologist
U.S. Natural Resource Conservation Service	Joe Johnson, District Conservationist
University of Wisconsin – Oshkosh	Greg Kleinheinz, Chair, Dept. of Engineering Technology
UW Madison Peninsular Research Station	Matt Stasiak, Emeritus Fruit & Ag. Research Specialist
Wisconsin Department of Natural Resources	Erin Carviou, Nonpoint Source Coordinator
Wisconsin Geological and Natural History Survey	David Hart, Hydrogeologist/Geophysicist

## Timeline for the Update of the 2020 Land and Water Resource Management Plan



# Organizations Involved in the 2020 Update of the Door County Land and Water Resource Management Plan



## Local Advisory Committee Meeting Schedule

### Meeting 1 – February 25

- Plan Overview
  - What is it? What does the current LWRMP look like?
- Plan Process & Timeline
- Local Advisory Committee Role
- Public Input Results
  - Overview of Information Given at Input Sessions
  - Review of Results
- Establish Prioritized List of Resource Needs

### Meeting 2 - March

- Approve Section 2 – Land and Water Resource Needs
- Review portions of Section 3 and 4 – Agricultural Implementation & Goals
  - Existing Programs
    - Description
    - Status
  - Goals and Objectives of Existing Programs
    - Tied to Identified Resource Needs

### Meeting 3 – April (Early)

- Approve portions of Section 3 and 4 – Agricultural Implementation & Goals
- Review portions of Section 3 and 4 – Non-Agricultural Implementation & Goals
  - Existing Programs
    - Description
    - Status
  - Goals and Objectives of Existing Programs
    - Tied to Identified Resource Needs

### Meeting 4 – April (Late)

- Approve portions of Section 3 and 4 – Non-Agricultural Implementation & Goals
- Review of Section 5 – Summary Work Plan and Fiscal Management

### Meeting 5 – May

- Review of Complete Draft
- Approval to Forward Complete Draft to LCC

# Door County Land and Water Resource Management Plan



# Tonight's Proceedings

- Information on land, water and natural resources in Door County
- Participatory discussion of the soil, water and natural resources in Door County
- Prioritize the issues

# Land and Water Resource Management Plan

- Each county in Wisconsin is required to have a plan approved by the State Land and Water Conservation Board

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- Plans are approved for a 10 year period, with review in year 5
- Plans guide annual department work plans
- Plans are required to contain established key elements and follow an established process

# Plan Content

- **Assessment** of land and water resource needs
  - causes of impairments and pollutant sources by watershed
- **Implementation plan** to address resource needs
  - available programs, funding sources, and needed conservation practices
  - voluntary approach as well as state and local regulations
- **Goals** to address identified impairments
  - water quality objectives and pollutant load reduction targets
- **Work plan** to achieve established goals
  - multi-year with benchmarks for performance
  - anticipated costs for implementation

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# Plan Development Process

- Public input sessions - February
- Local Advisory Group & Land Conservation Committee Meetings – Jan - May
- Land Conservation Committee approves draft plan - June
- Revise draft to incorporate State Agencies comments - July
- Public hearing – August
- Submit plan to State Agencies - September
- Present plan to State Land and Water Conservation Board – October
- Adoption by Door County Board of Supervisors - November

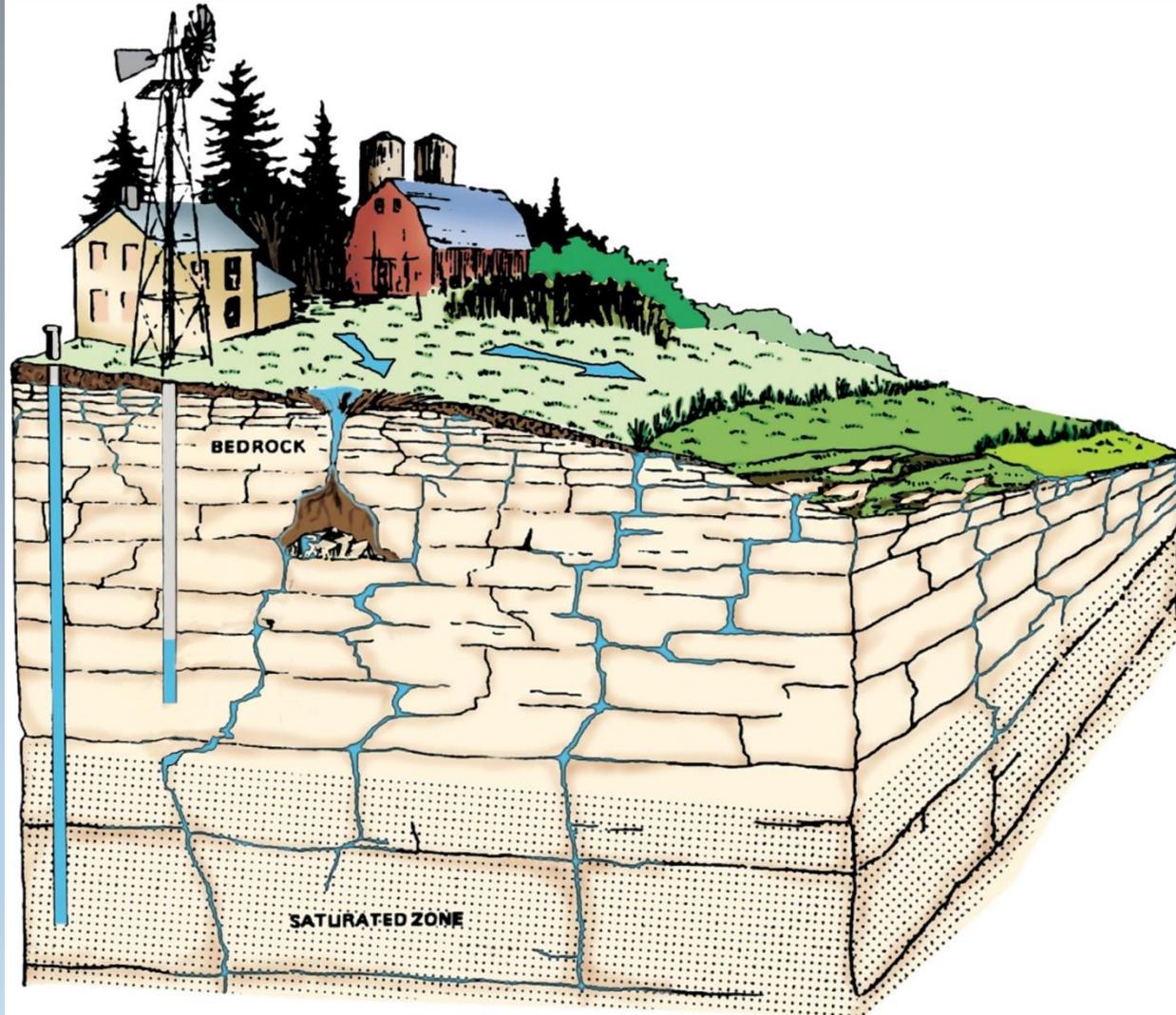
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# Natural Resource Concerns Identified in the 2010 Plan

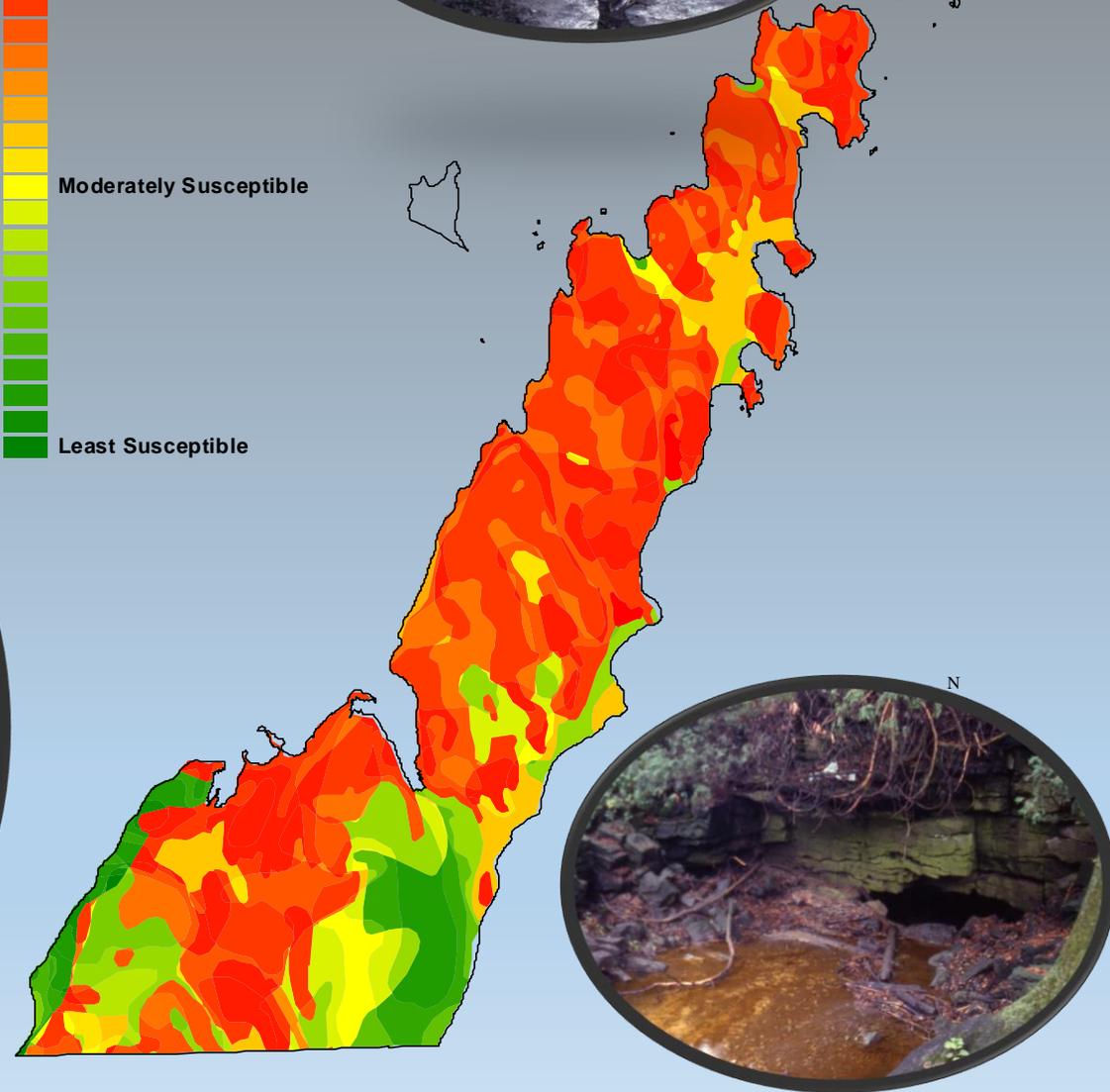
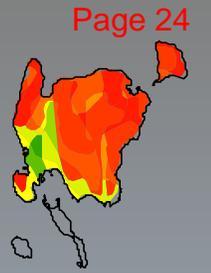
1. Groundwater Protection and Improvement
2. Surface Water Protection
3. Impacts of Development on Natural Resources
4. Human Waste Management
5. Animal Waste Management
6. Storm Water Management
7. Soil Erosion Control; Agricultural and Construction Site
8. Non-Metallic Mine Reclamation
9. Invasive Species
10. Beach Contamination
11. Agricultural Land Protection
12. Lack of Education on and Awareness of Environmental Issues and Sustainable Farming Practices

# Geology



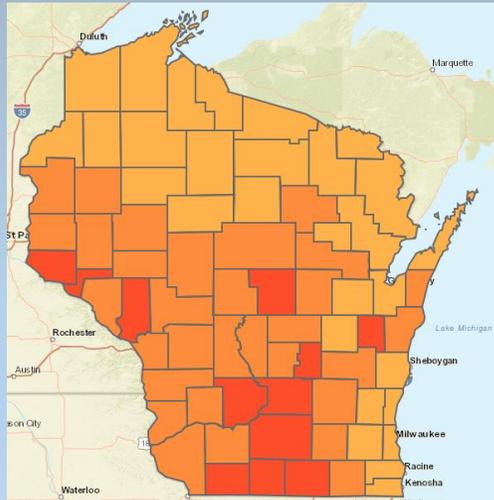
# Soil Characteristics

- Sinkholes/Karst Features
- Closed Depressions
- Solution Enlarged Crevices
- 22% less than 18 inches to bedrock
- 39% less than 36 inches to bedrock
- Filter between surface activities and our drinking water

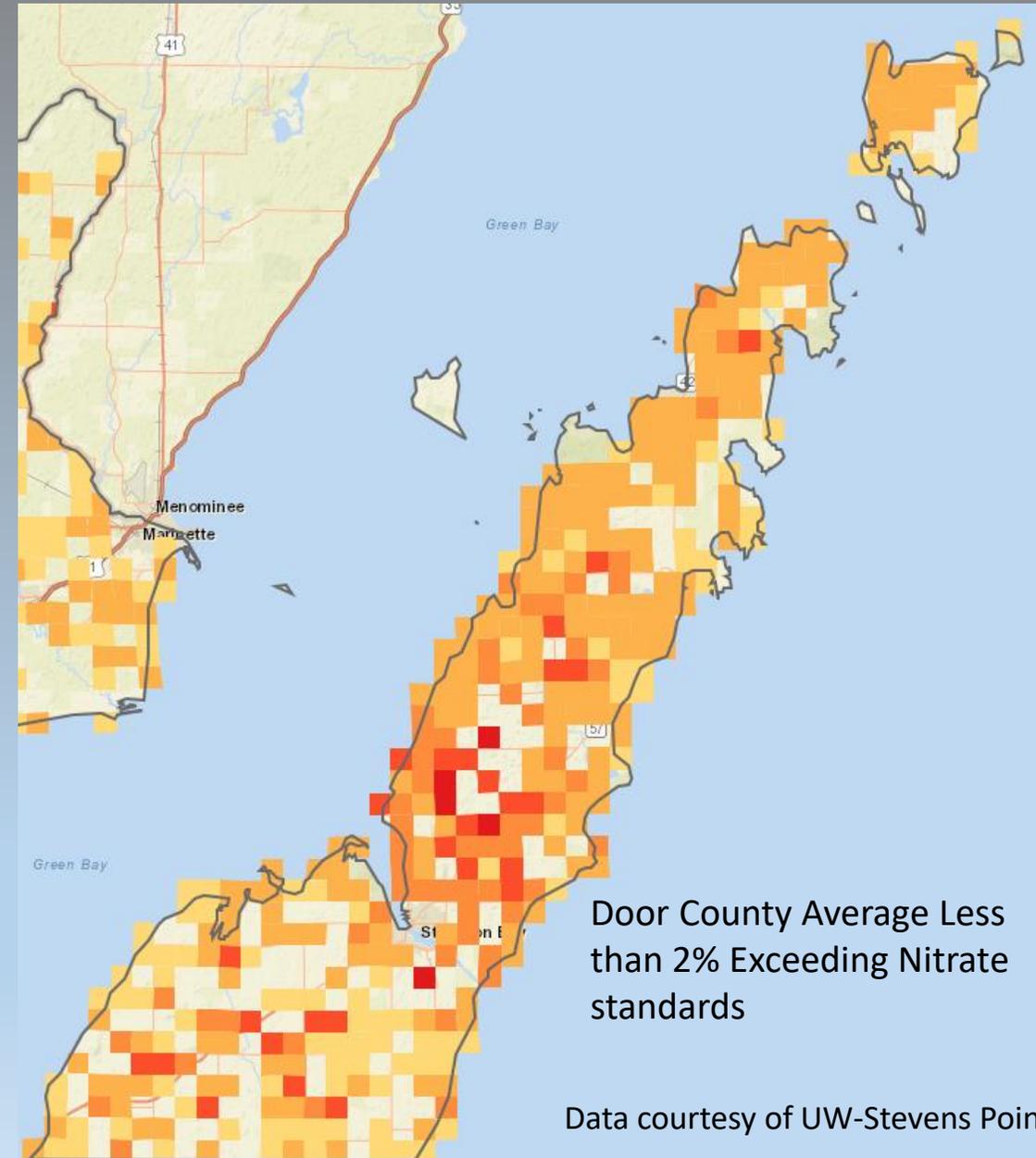
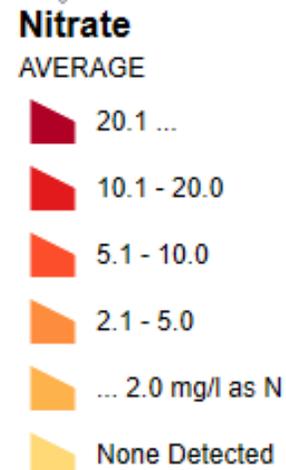


# Groundwater - Nitrate

- 2011-2015 - 557 Wells Sampled
  - 1% exceeded Nitrate standards
- 2015 – 477 Wells Sampled
  - 3% exceeded Nitrate standards
- 2016 – 392 Wells Sampled
  - 2% exceeded Nitrate standards
- 2019 – 148 Wells Sampled
  - 2% exceeded Nitrate standards



State Average ~10%  
Exceeding Nitrate standards

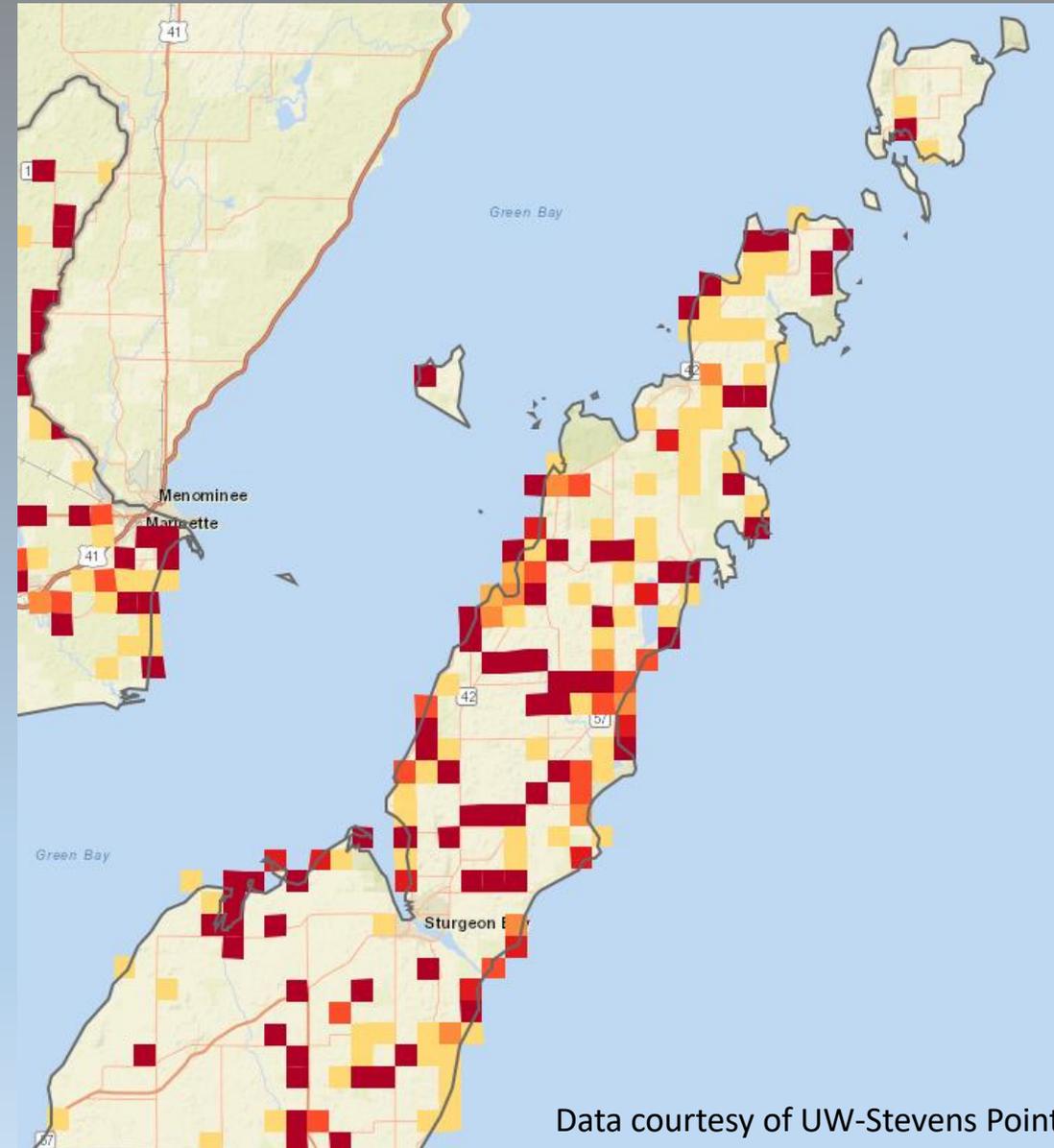
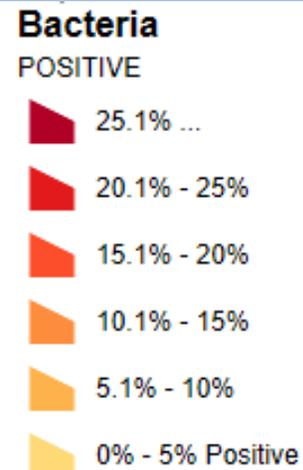
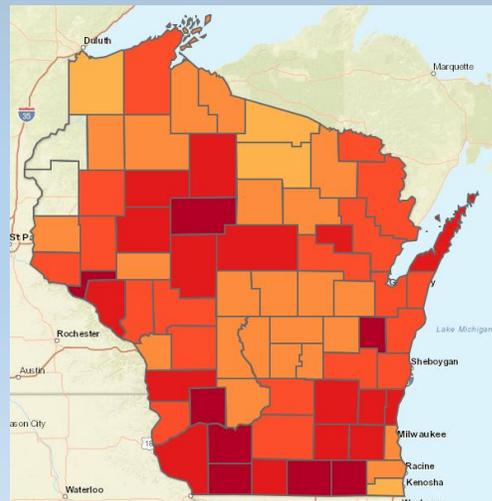


Door County Average Less  
than 2% Exceeding Nitrate  
standards

Data courtesy of UW-Stevens Point

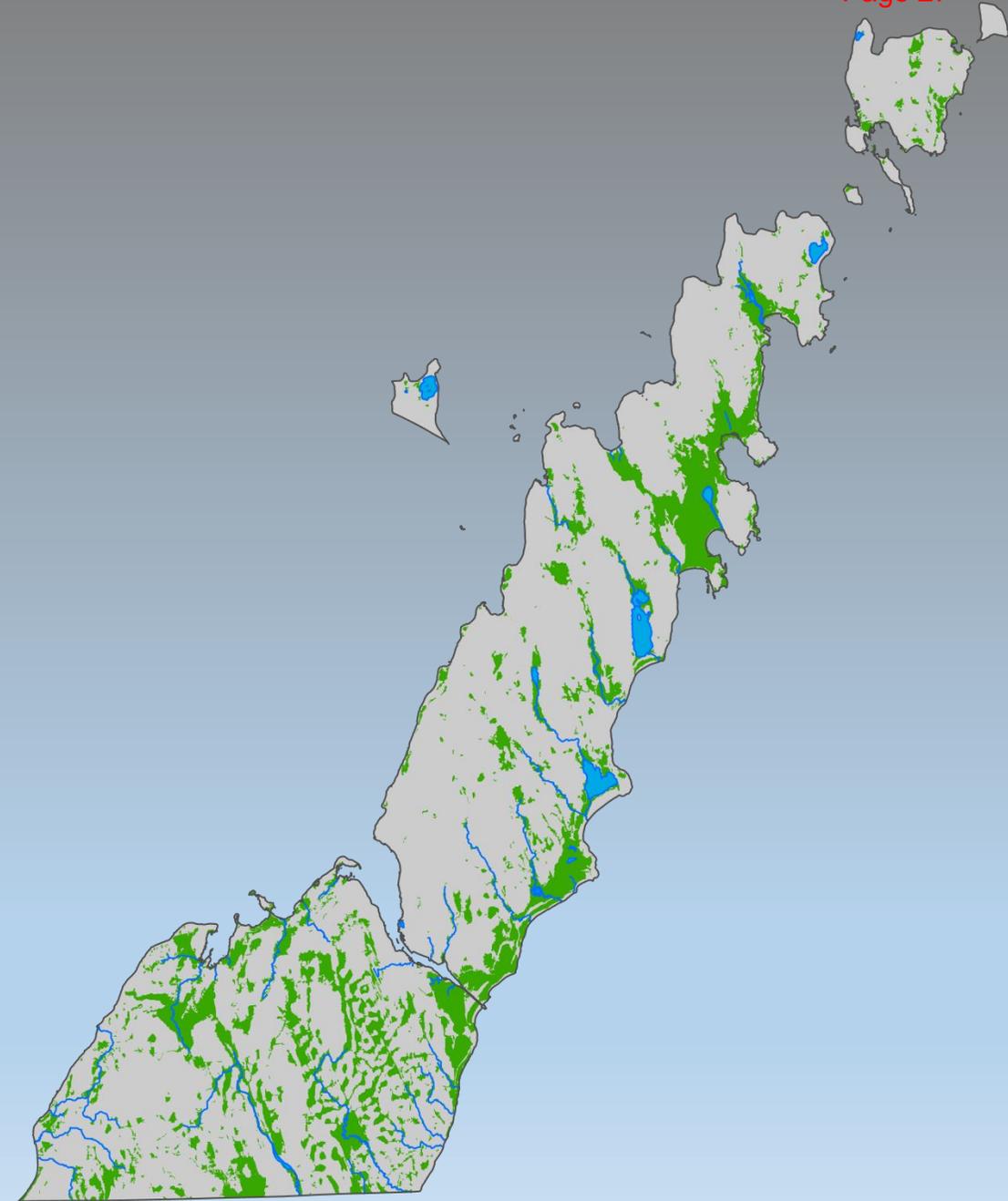
# Groundwater - Bacteria

- 2011 – 2015
  - 21% exceeded standards for Total Coliform
  - 10% indicated the presence of E. coli
- 2015 – 477 Wells sampled
  - 12% exceeded standards for Total Coliform
  - 1% indicated the presence of E. coli
- 2016 – 392 Wells sampled
  - 22% exceeded standards for Total Coliform
  - 2% indicated the presence of E. coli
- 2019 – 148 Wells sampled
  - 16% exceeded standards for Total Coliform
  - No detects of E. coli



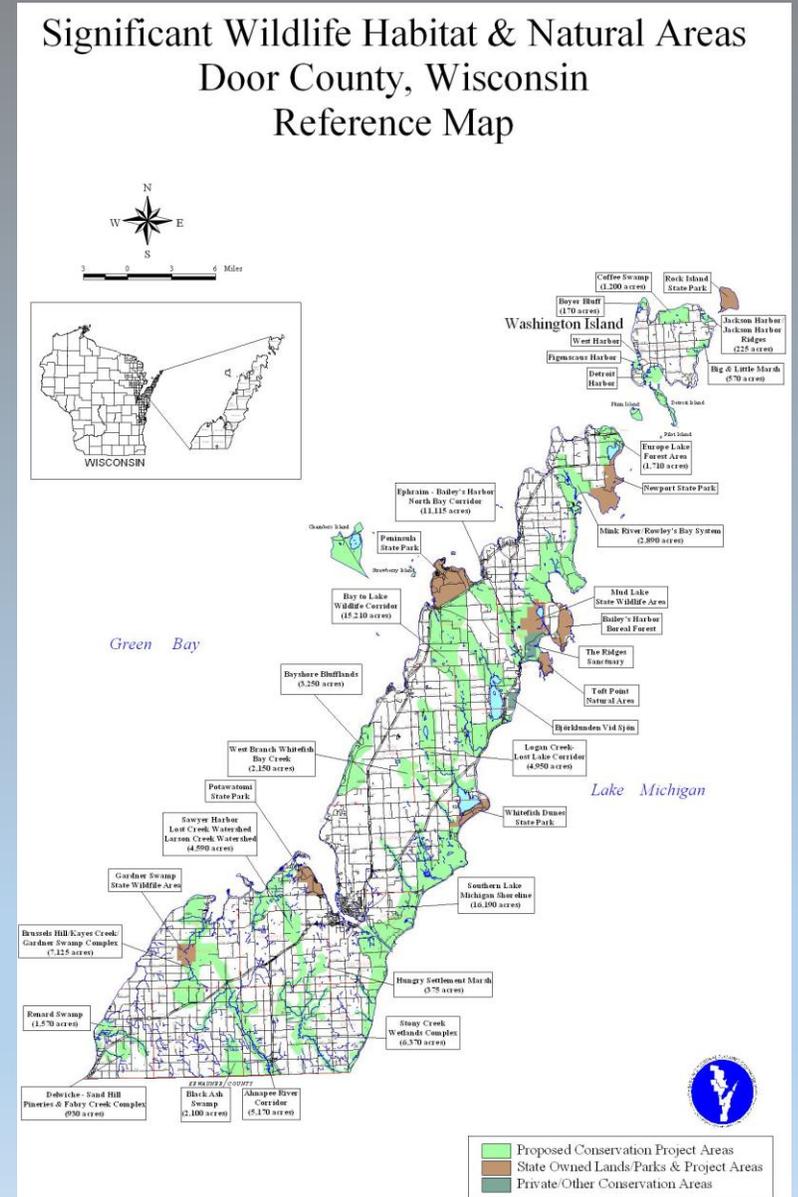
# Surface Waters

- Nearly 300 Miles of Shoreline
- 38 Named Streams
- 25 Named Lakes
- Nearly 55,000 Acres of Wetlands



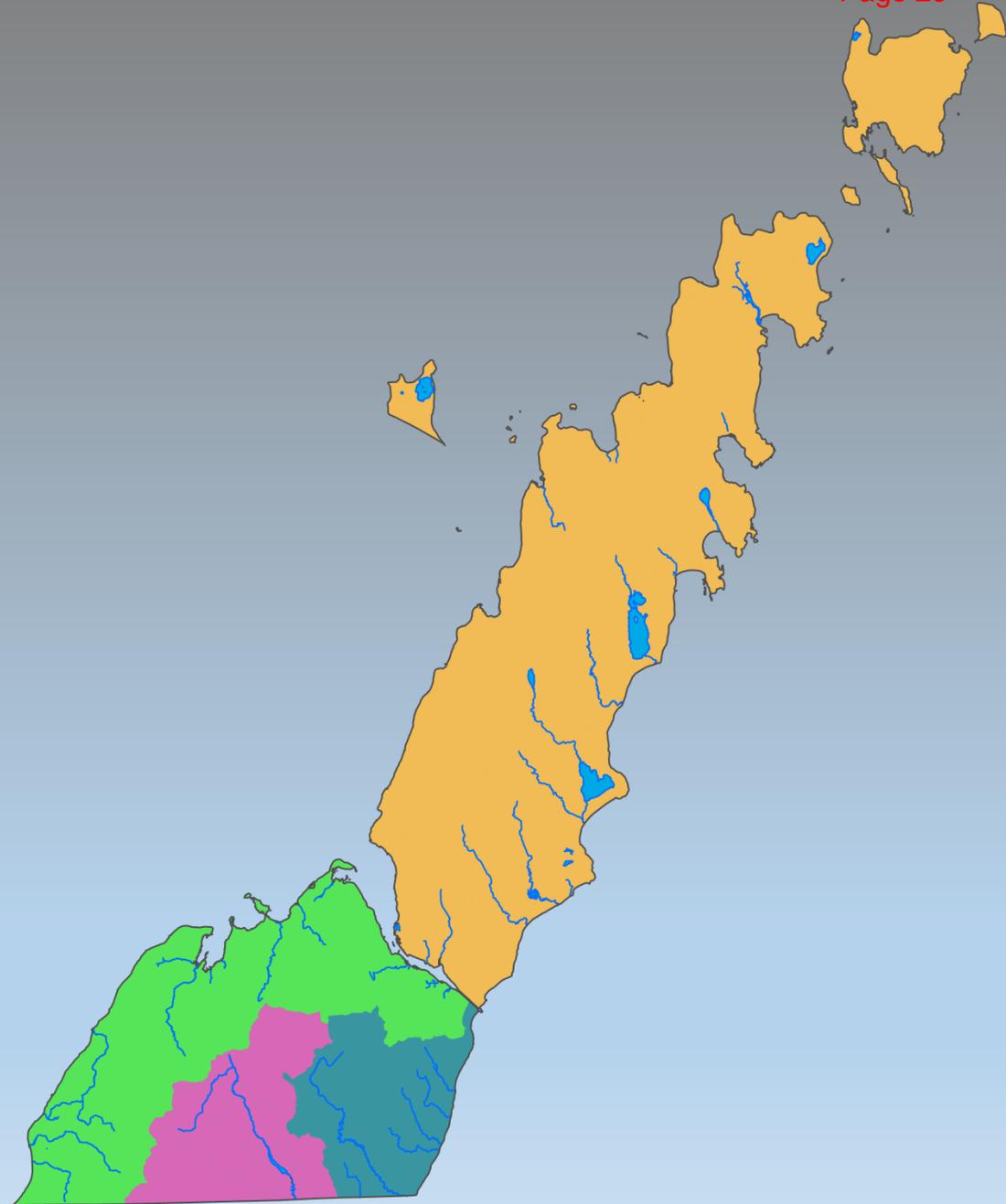
# Significant Wildlife Habitat and Natural Areas

- Ahnapee River Corridor
- Black Ash Swamp
- Delwiche-Sand Hill Pineries & Fabry Creek Complex
- Renard Swamp
- Stony Creek Wetlands Complex
- Brussels Hill/Keyes Creek/Gardner Swamp Complex
- Hungry Settlement Marsh
- Southern Lake Michigan Shoreline
- Sawyer Harbor/Lost Creek & Larson Creek Watersheds Complex
- West Branch Whitefish Bay Creek Corridor
- Bay Shore Bluff Lands
- Logan Creek/Lost Lake Corridor
- Bay to Lake Wildlife Corridor
- Ephraim/Baileys Harbor Forest Corridor & North Bay Lowlands
- Mink River/Rowley's Bay System
- Europe Lake Forest Area
- Grand Traverse Islands



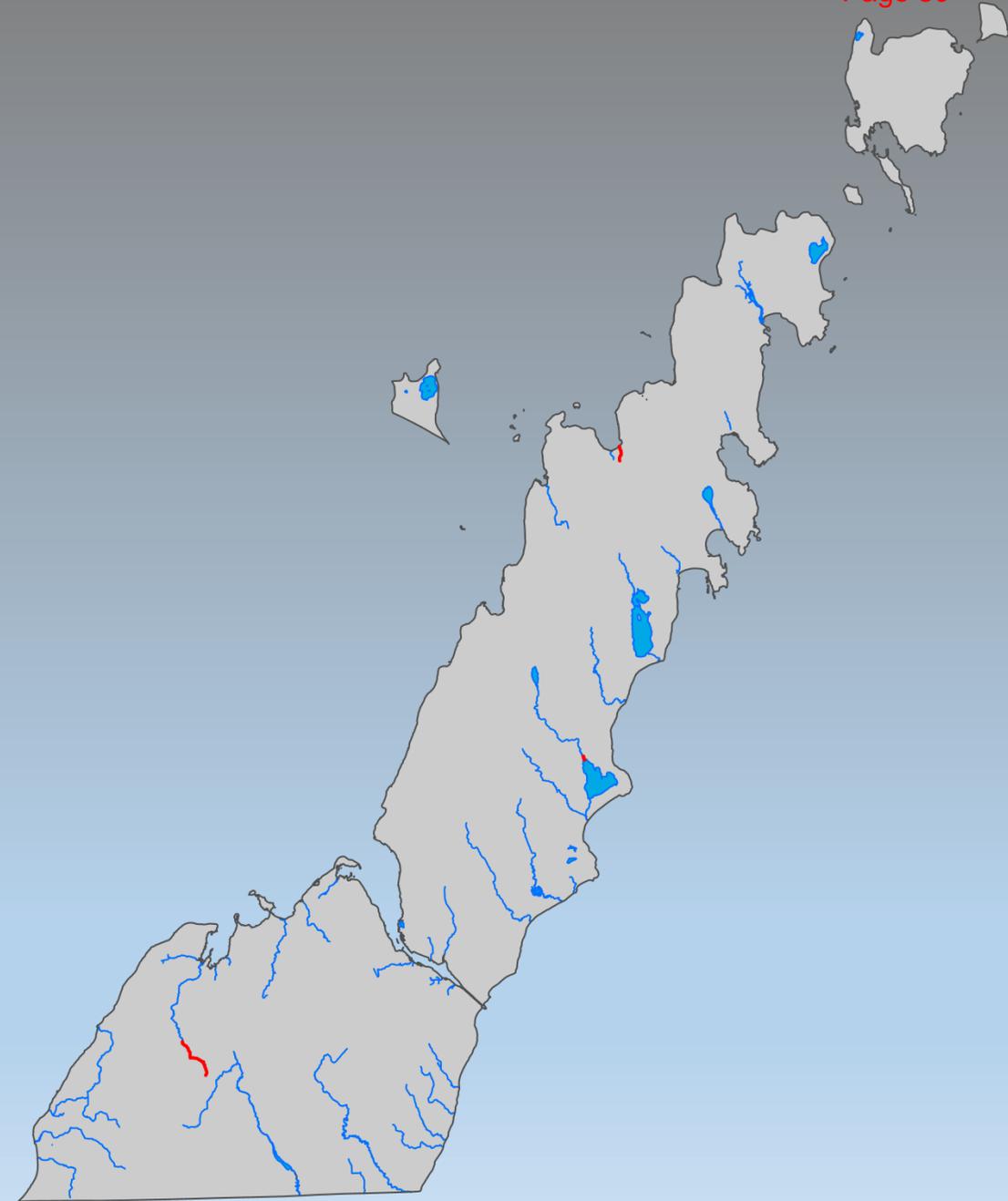
# Large-Scale Watersheds

- Upper Door
- Red River/Sturgeon Bay
- Stony Creek
- Ahnapee River



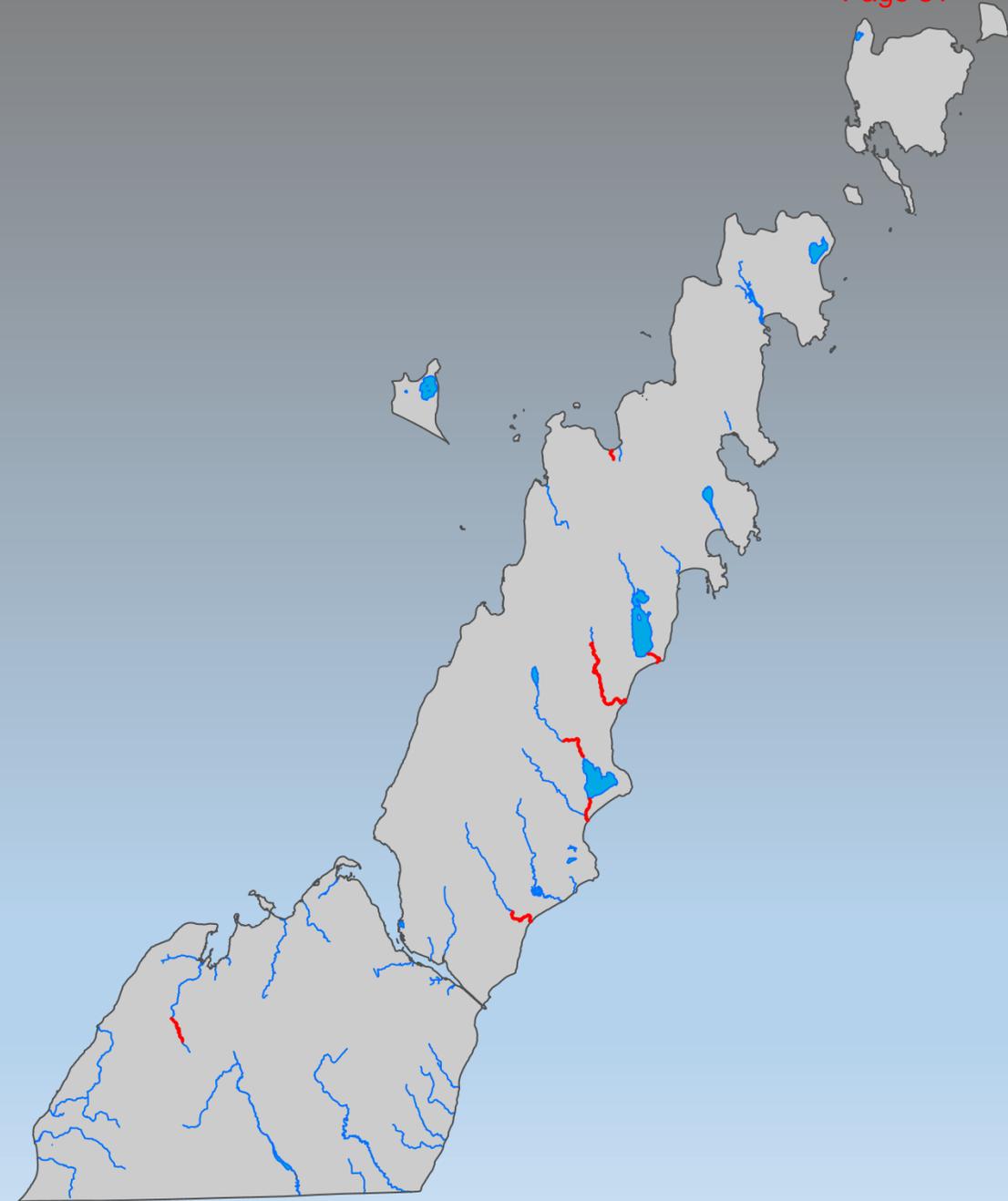
# Class I Trout Streams Waters

Streams are high-quality streams where trout populations are sustained by natural reproduction.



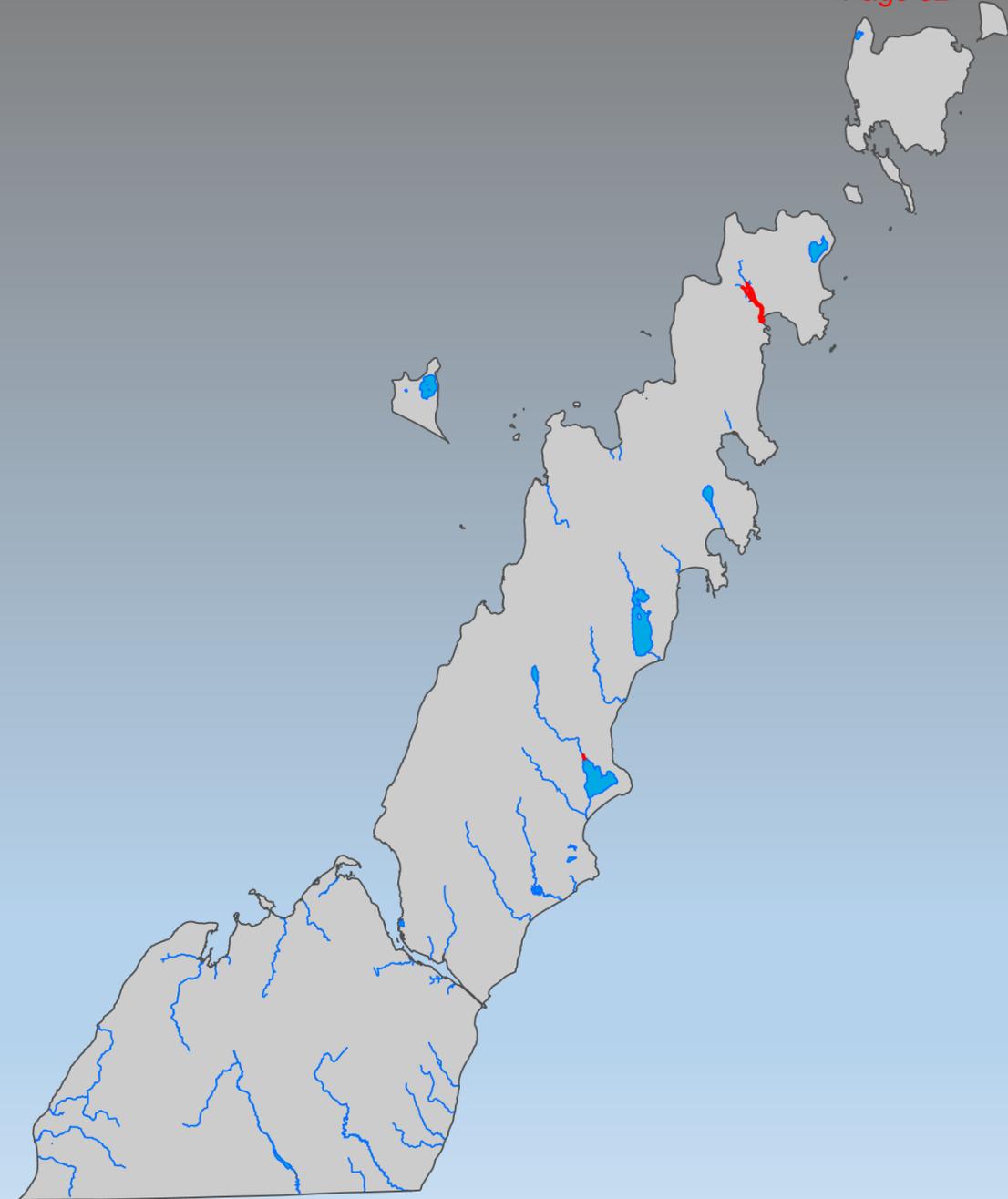
# Class II Trout Streams Waters

Streams have some natural reproduction of trout but need stocking to maintain a desirable fishery.



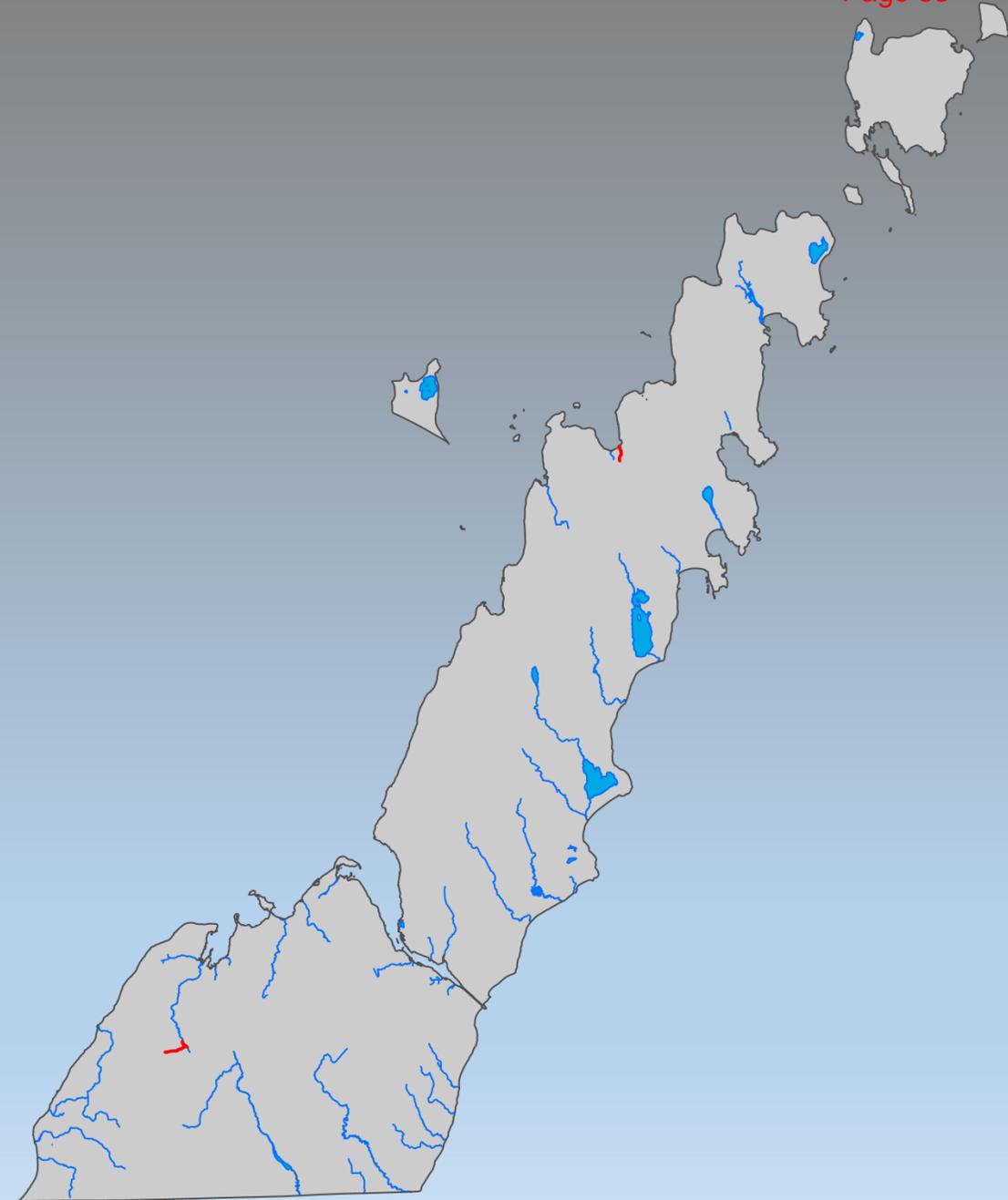
# Outstanding Resource Waters

An *outstanding resource water* is a lake, stream or flowage having excellent water quality, high recreational and aesthetic value and high quality fishing. ORW waters are free from point source or nonpoint source pollution.



# Exceptional Resource Waters

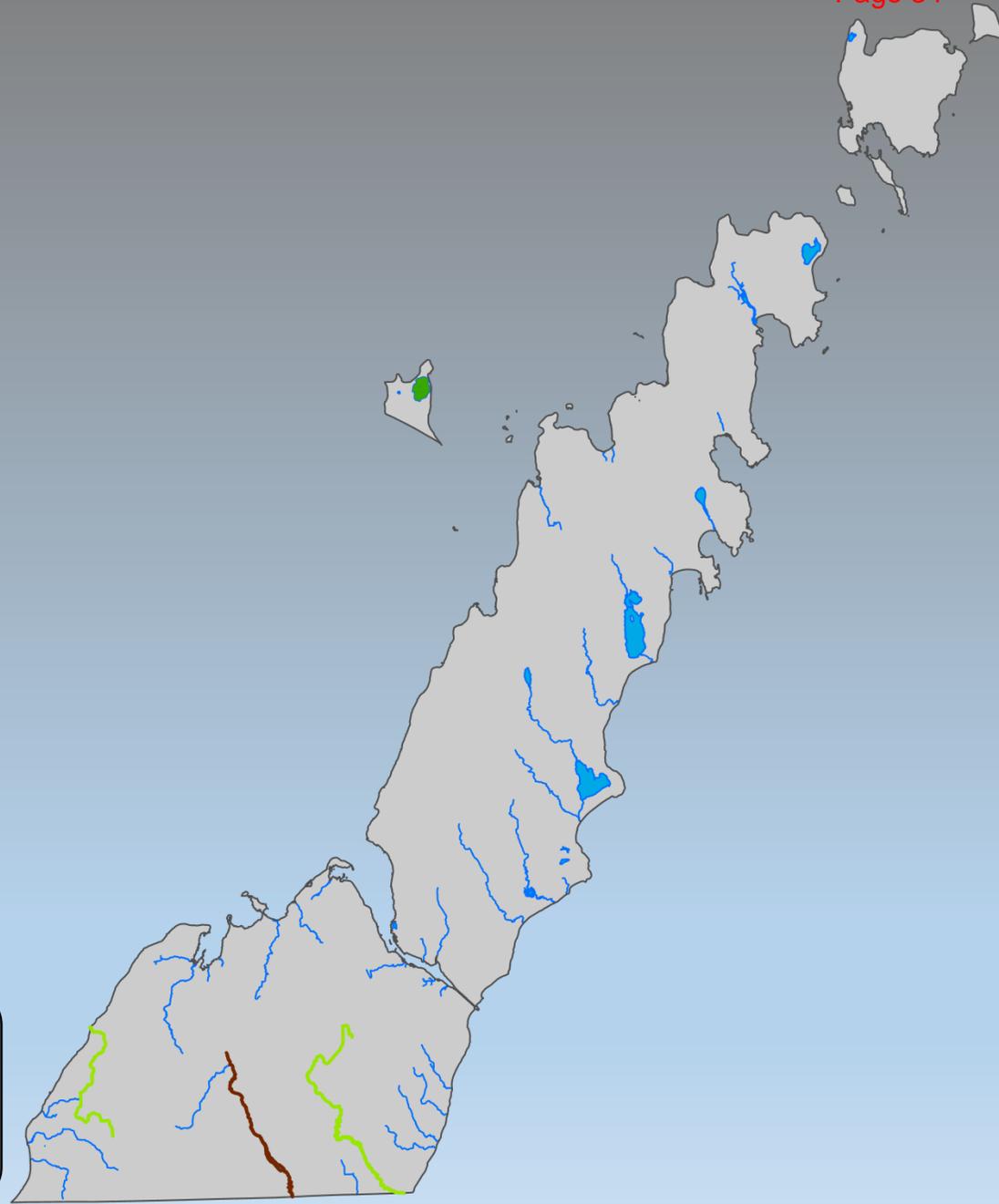
An *exceptional resource water* is a lake, stream, or flowage exhibiting the same high quality resource values as outstanding waters, but may be affected by point source pollution or have the potential for future discharge from a small sewer community.



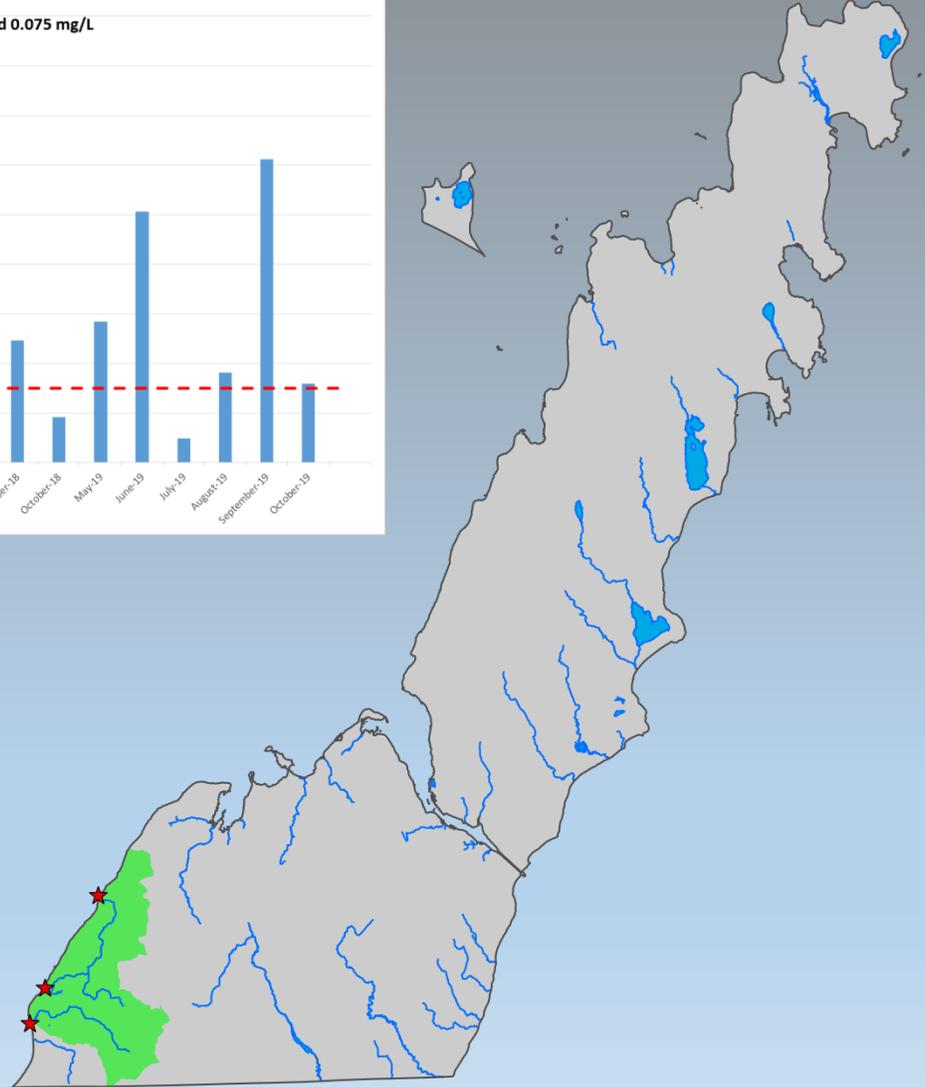
# Impaired Waters

Every two years, Section 303(d) of the Clean Water Act requires states to publish a list of all waters that *do not meet* water quality standards. The list, also known as the Impaired Waters List, is updated to reflect waters that are newly added or removed based on new information or changes in water quality status

- Impaired for PCBS
- Impaired for Total Phosphorus
- Impaired for Atmospheric Deposition

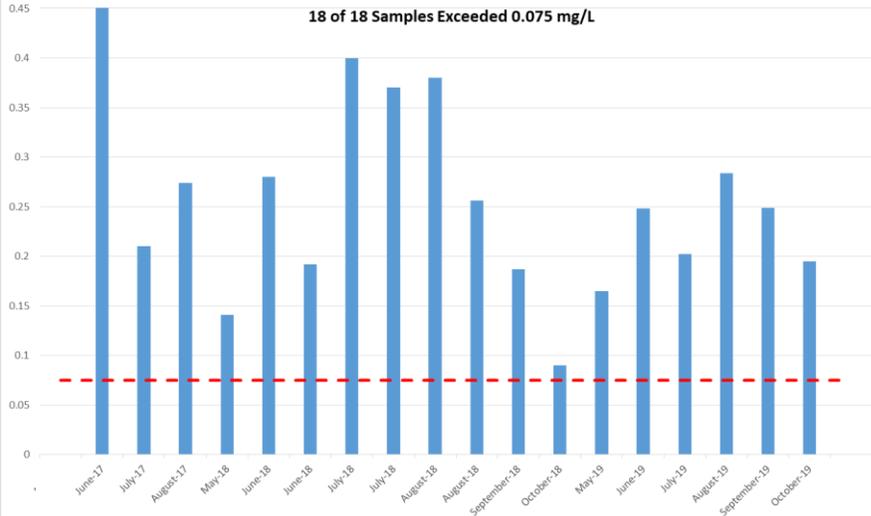


# Renard Creek - Silver Creek - Sugar Creek



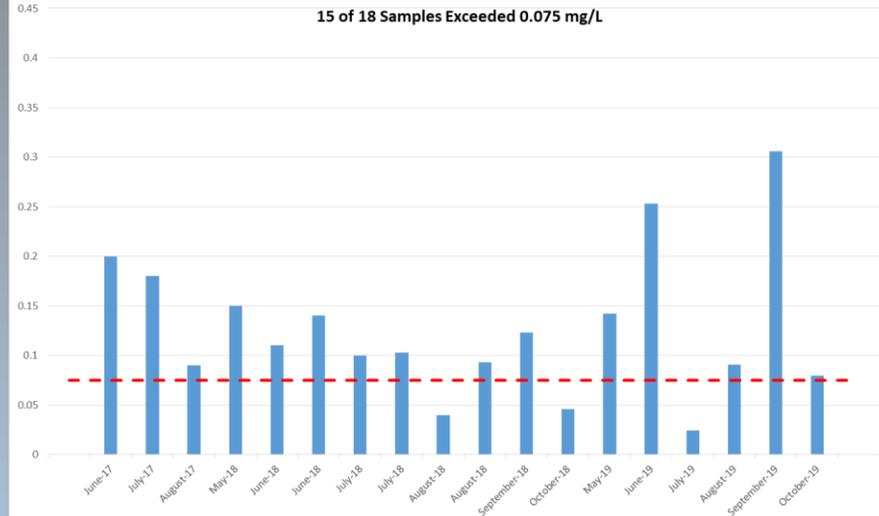
Total Phosphorus - Silver Creek

18 of 18 Samples Exceeded 0.075 mg/L



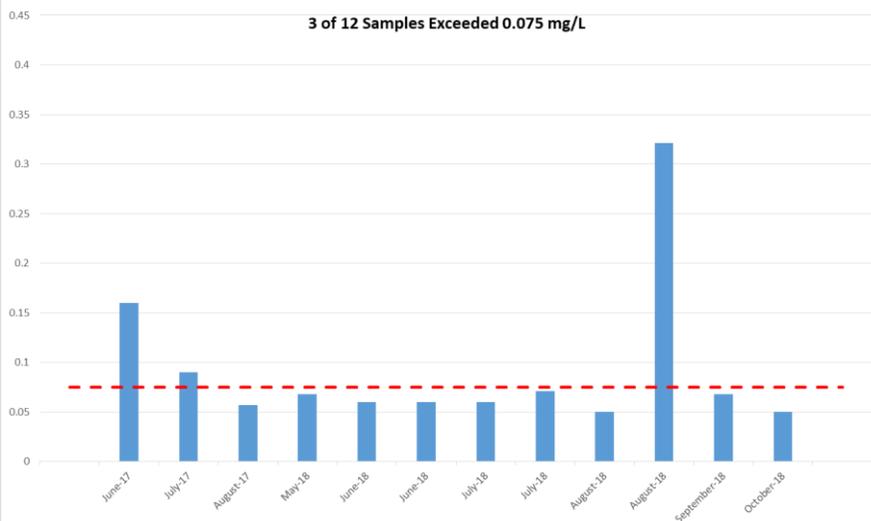
Total Phosphorus - Sugar Creek

15 of 18 Samples Exceeded 0.075 mg/L

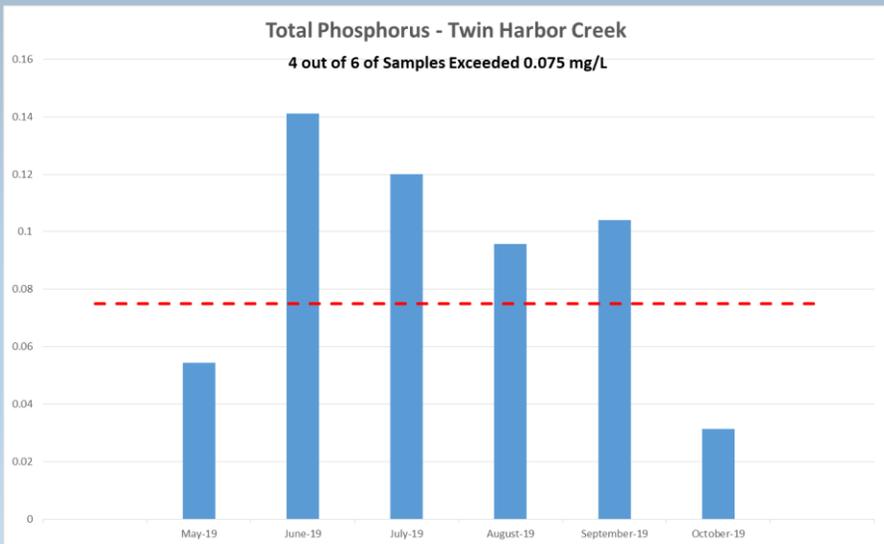
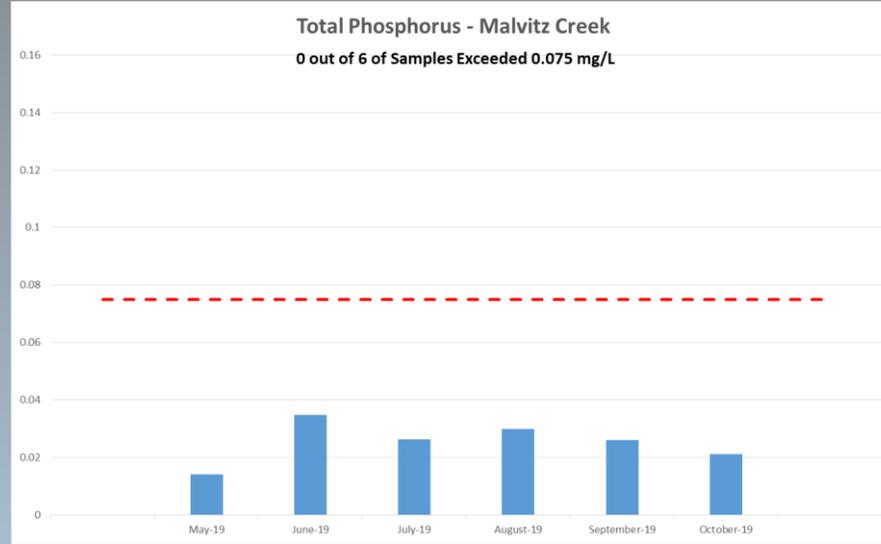
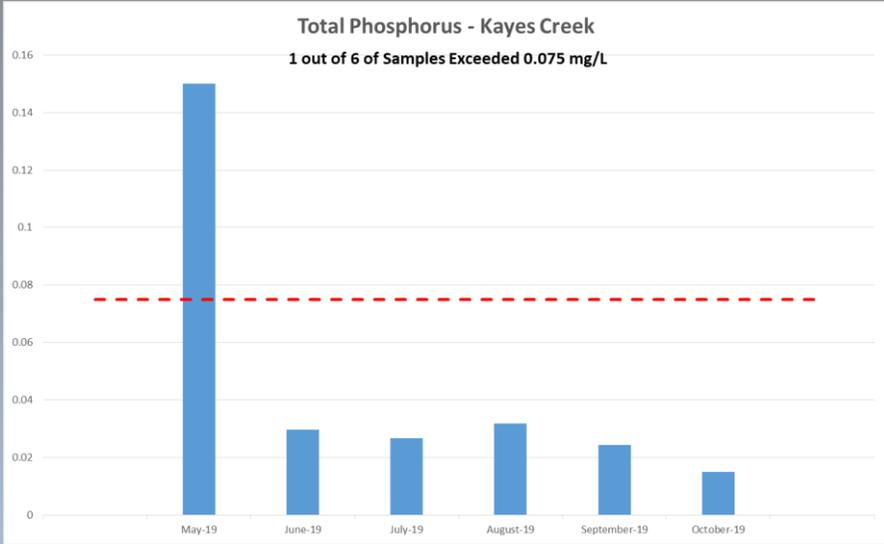
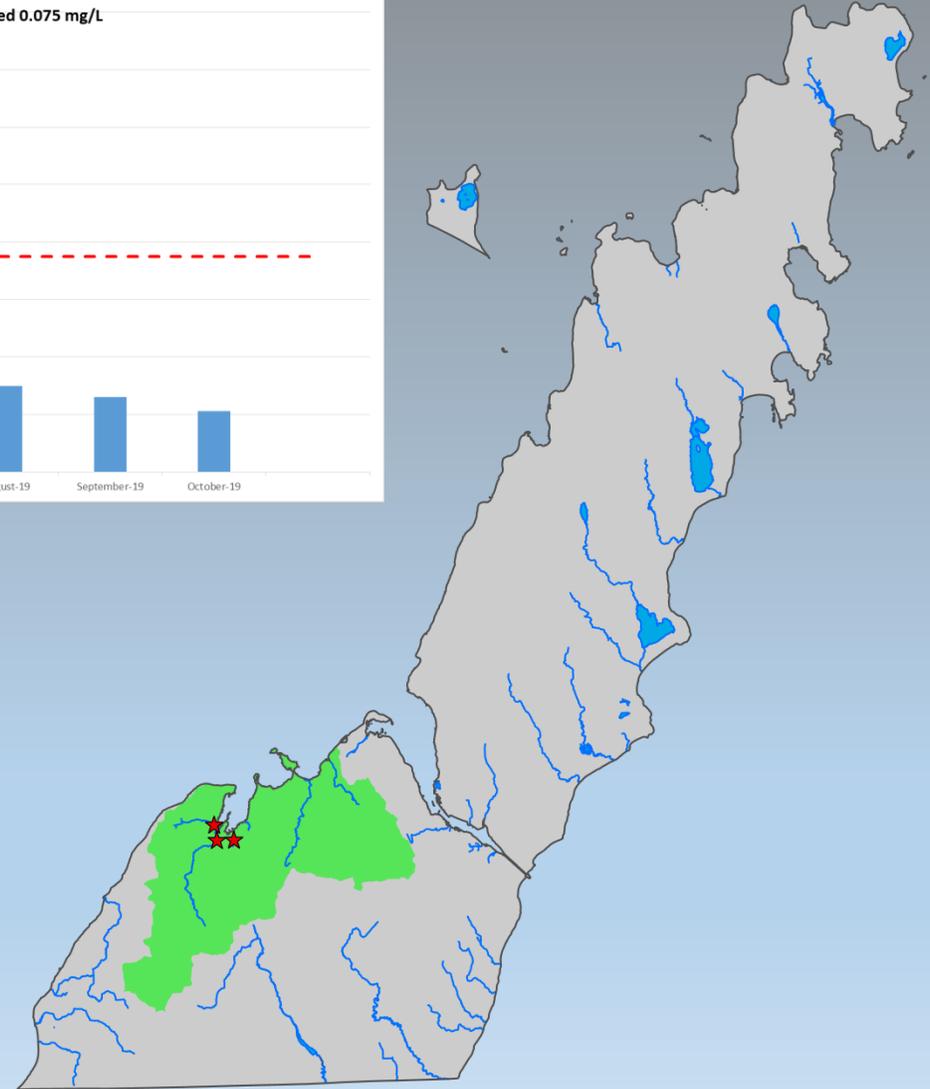


Total Phosphorus - Renard Creek

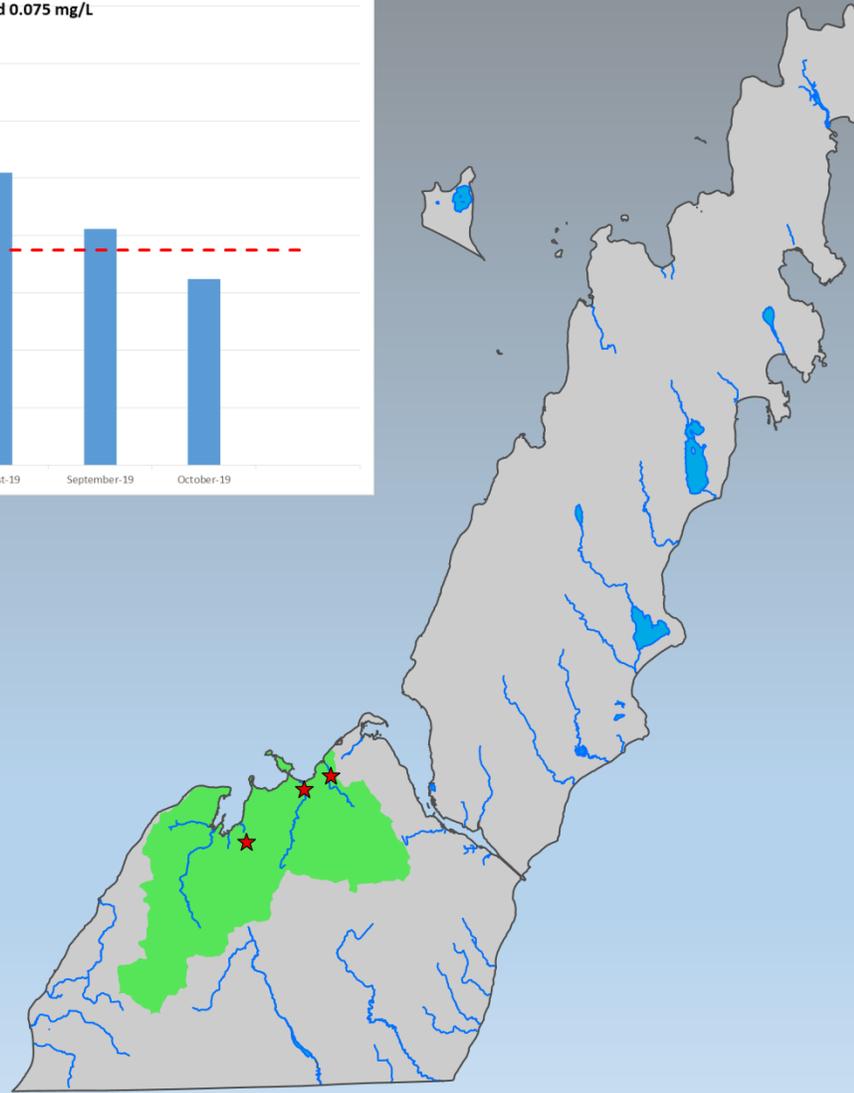
3 of 12 Samples Exceeded 0.075 mg/L



# Kayes Creek – Larson Creek

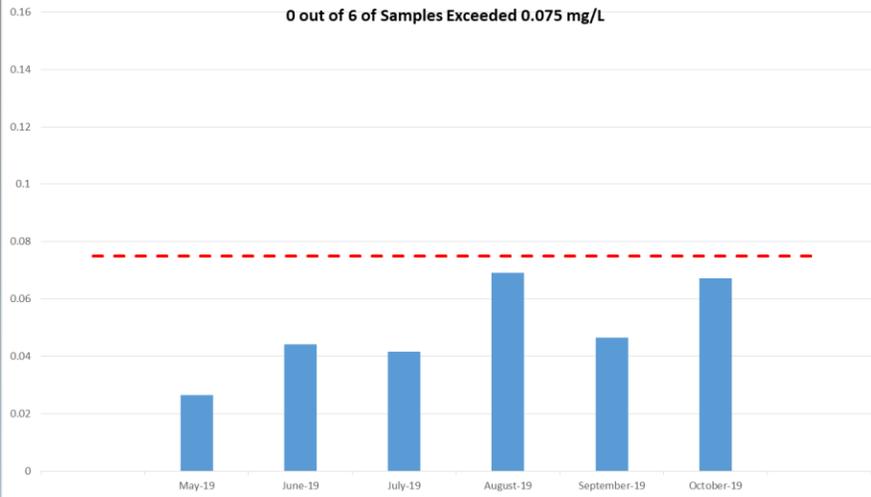


# Kayes Creek – Larson Creek



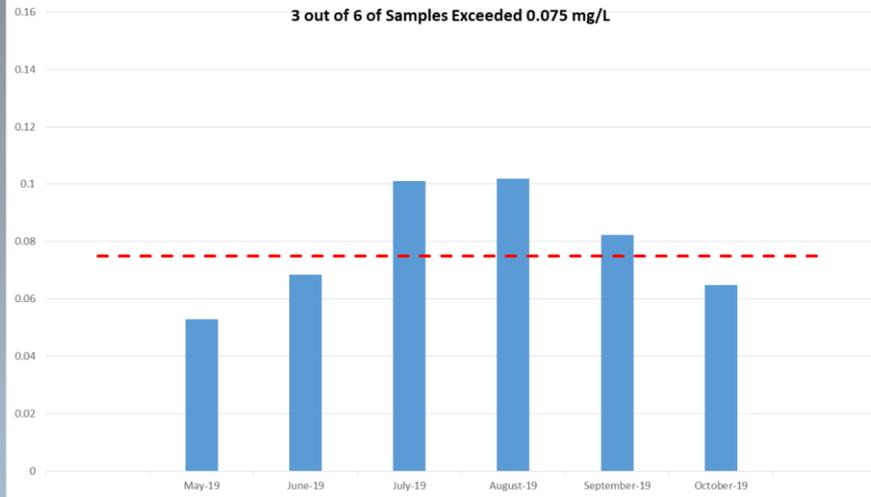
Total Phosphorus - May Creek

0 out of 6 of Samples Exceeded 0.075 mg/L



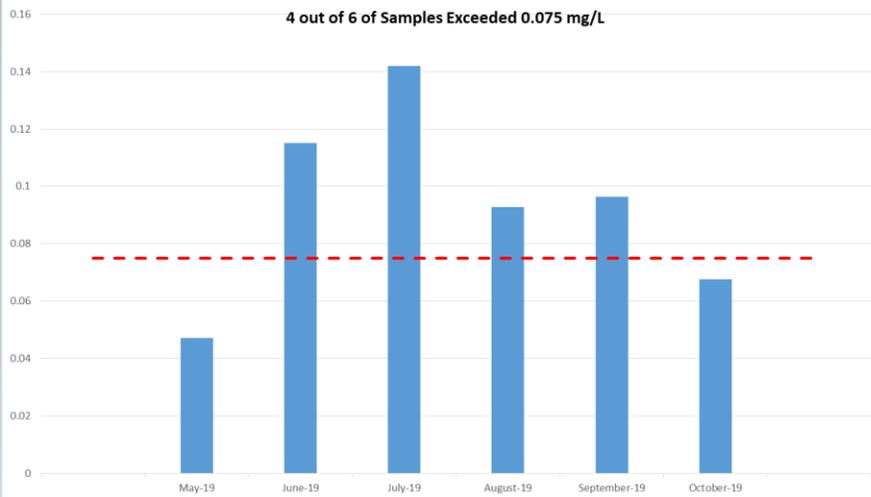
Total Phosphorus - Larson Creek

3 out of 6 of Samples Exceeded 0.075 mg/L

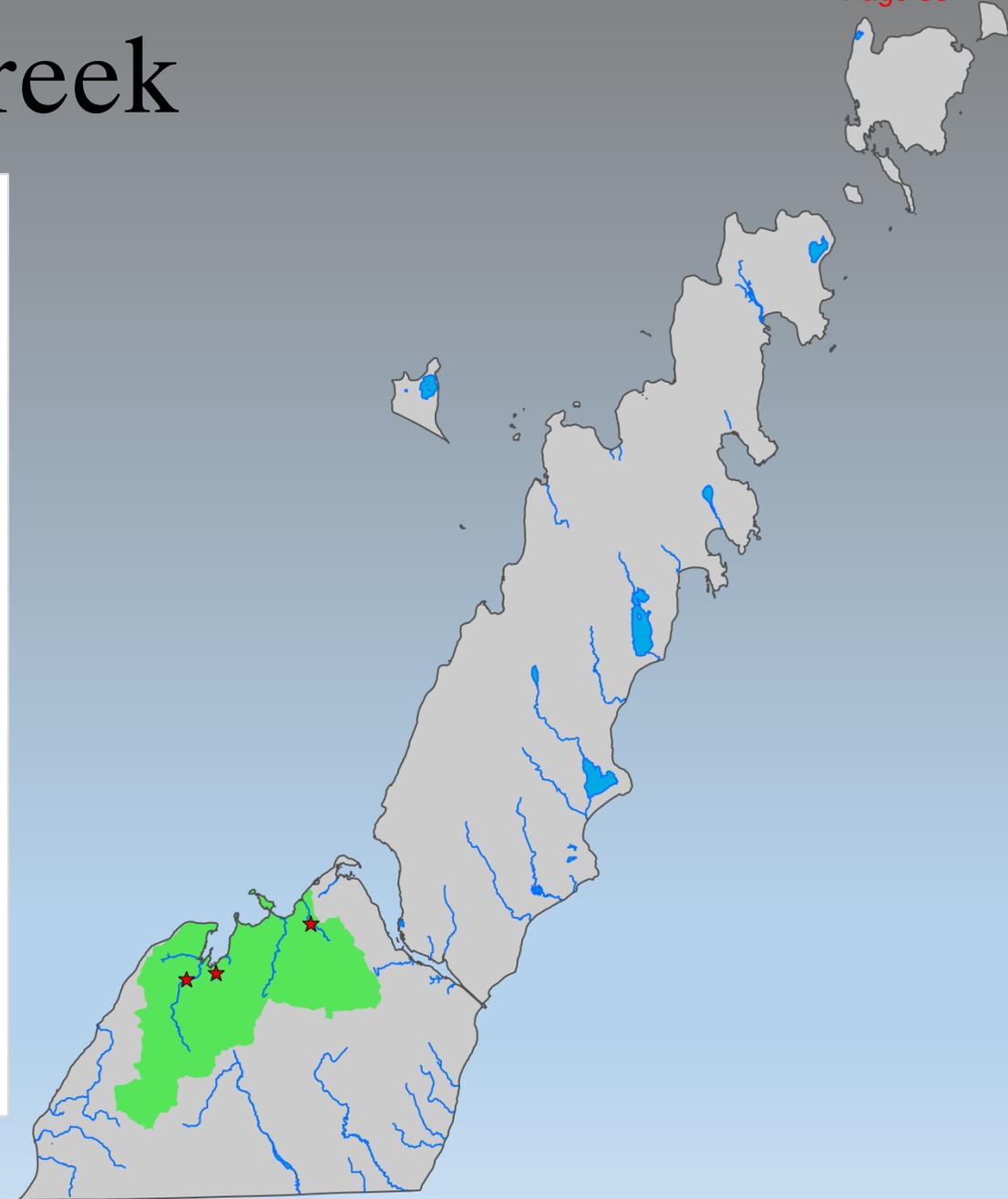
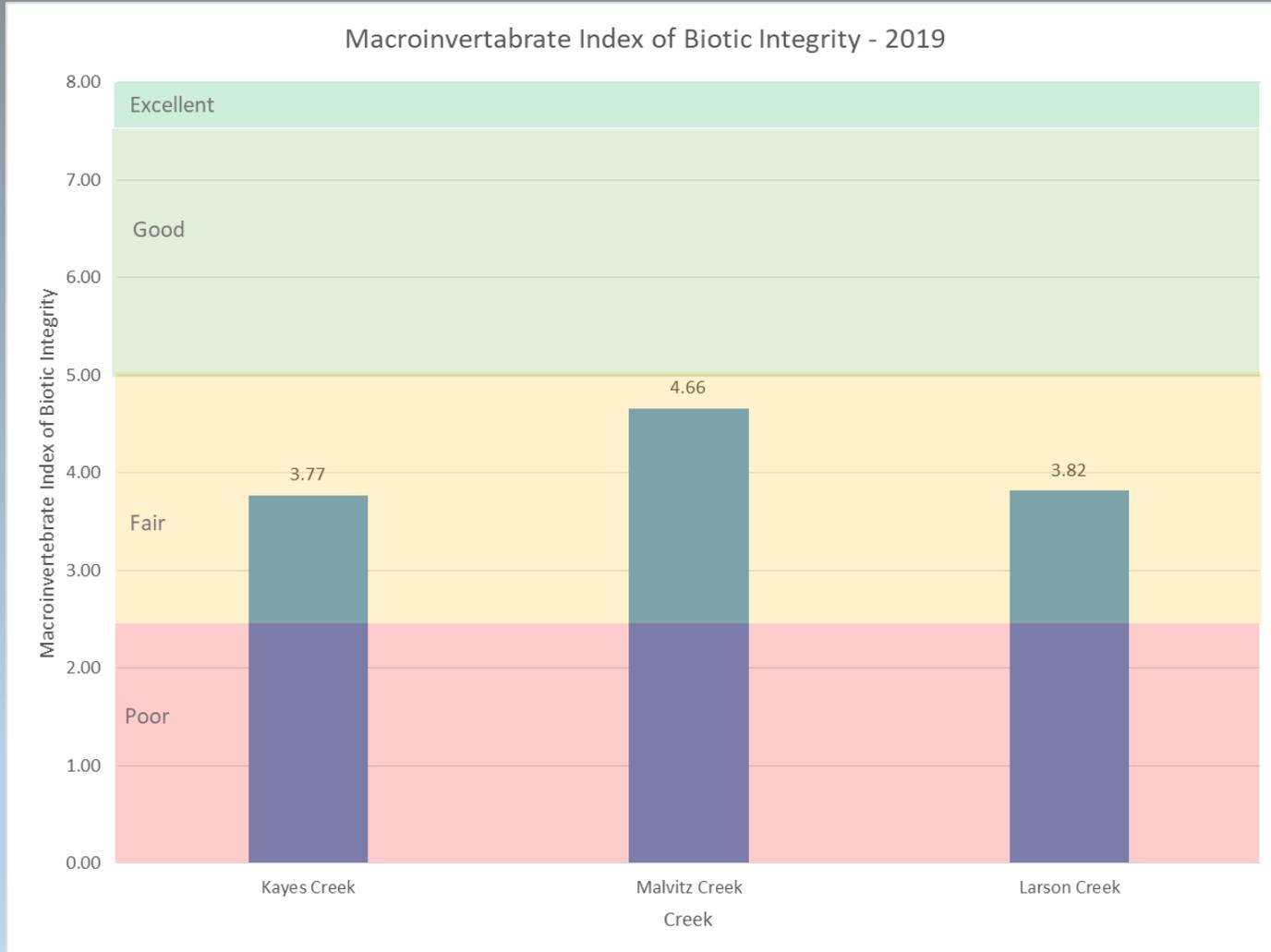


Total Phosphorus - Krueger Creek

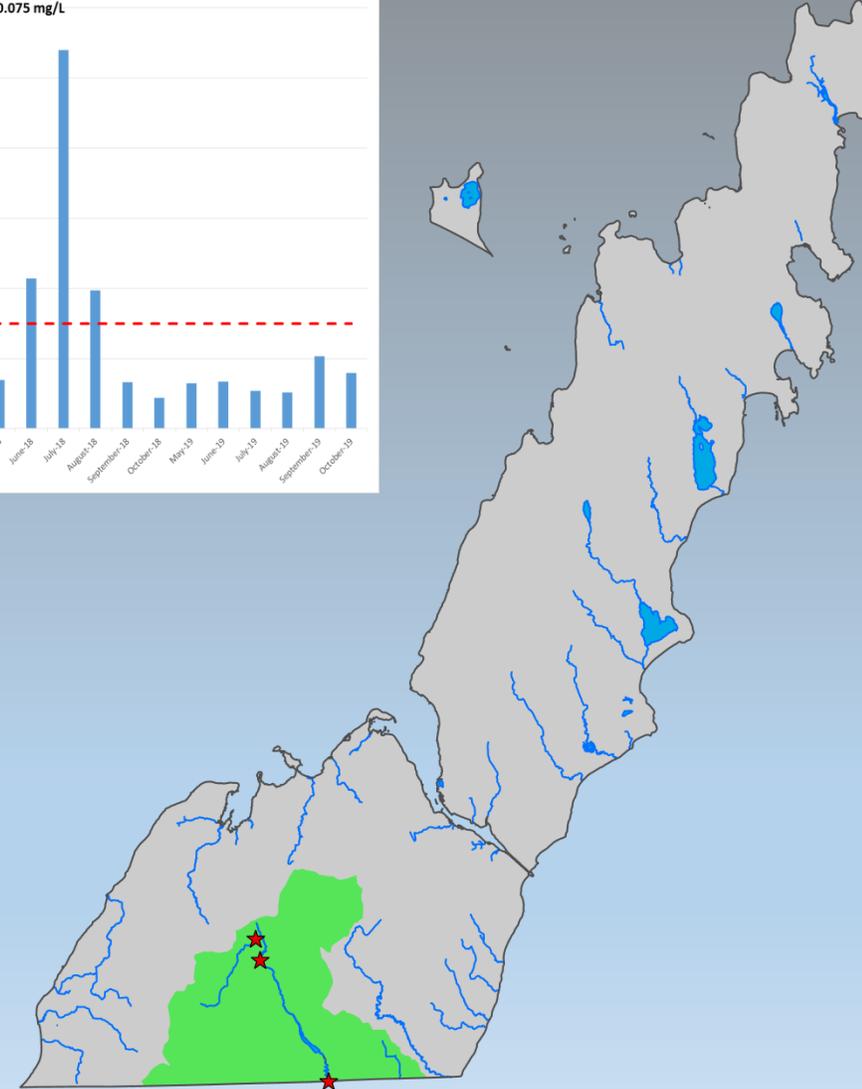
4 out of 6 of Samples Exceeded 0.075 mg/L



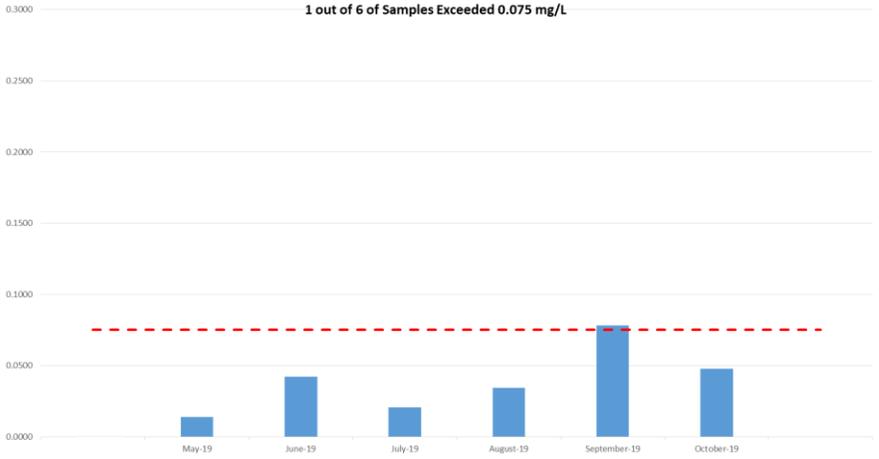
# Kayes Creek – Larson Creek



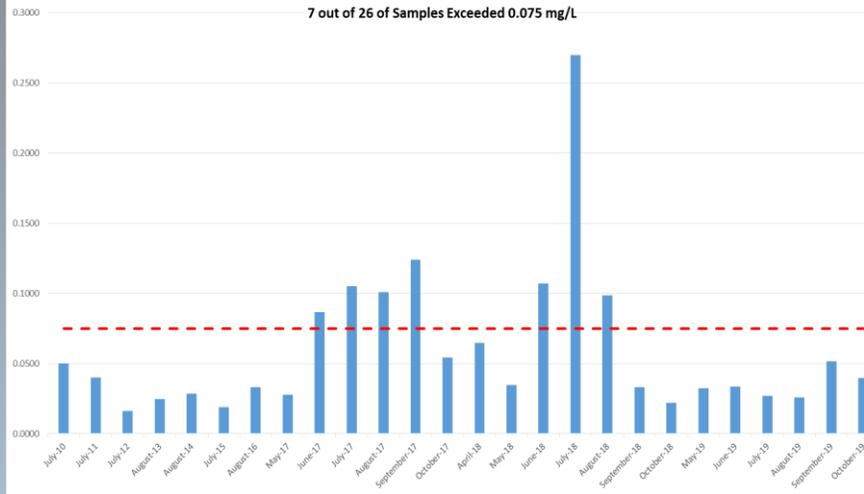
# Ahnapee River



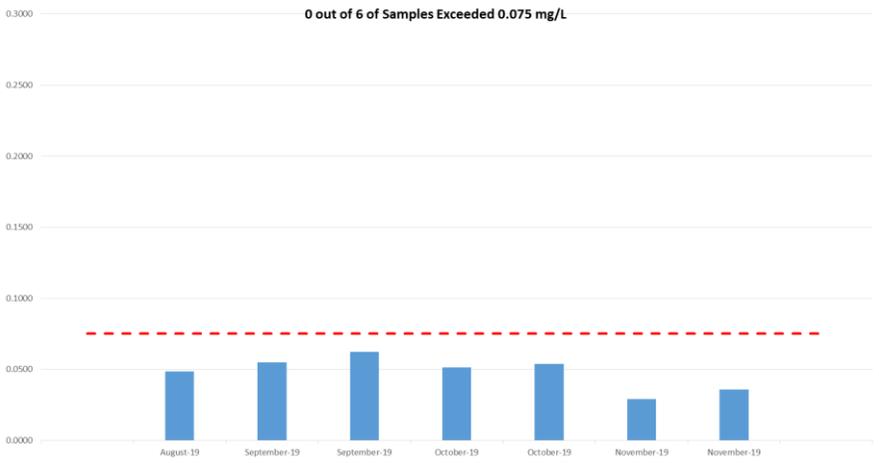
**Total Phosphorus - Silver Creek**  
1 out of 6 of Samples Exceeded 0.075 mg/L



**Total Phosphorus - County H**  
7 out of 26 of Samples Exceeded 0.075 mg/L

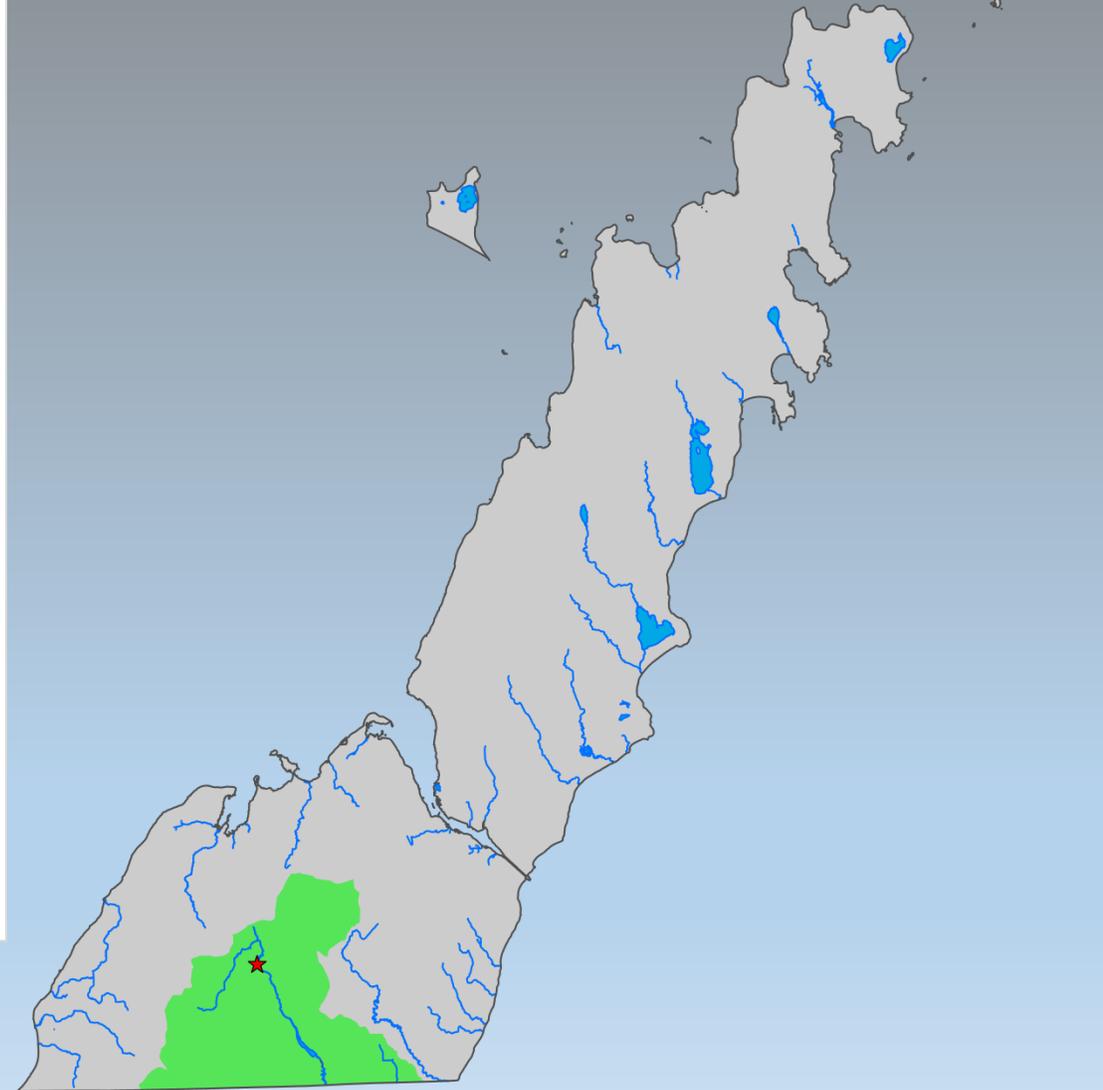
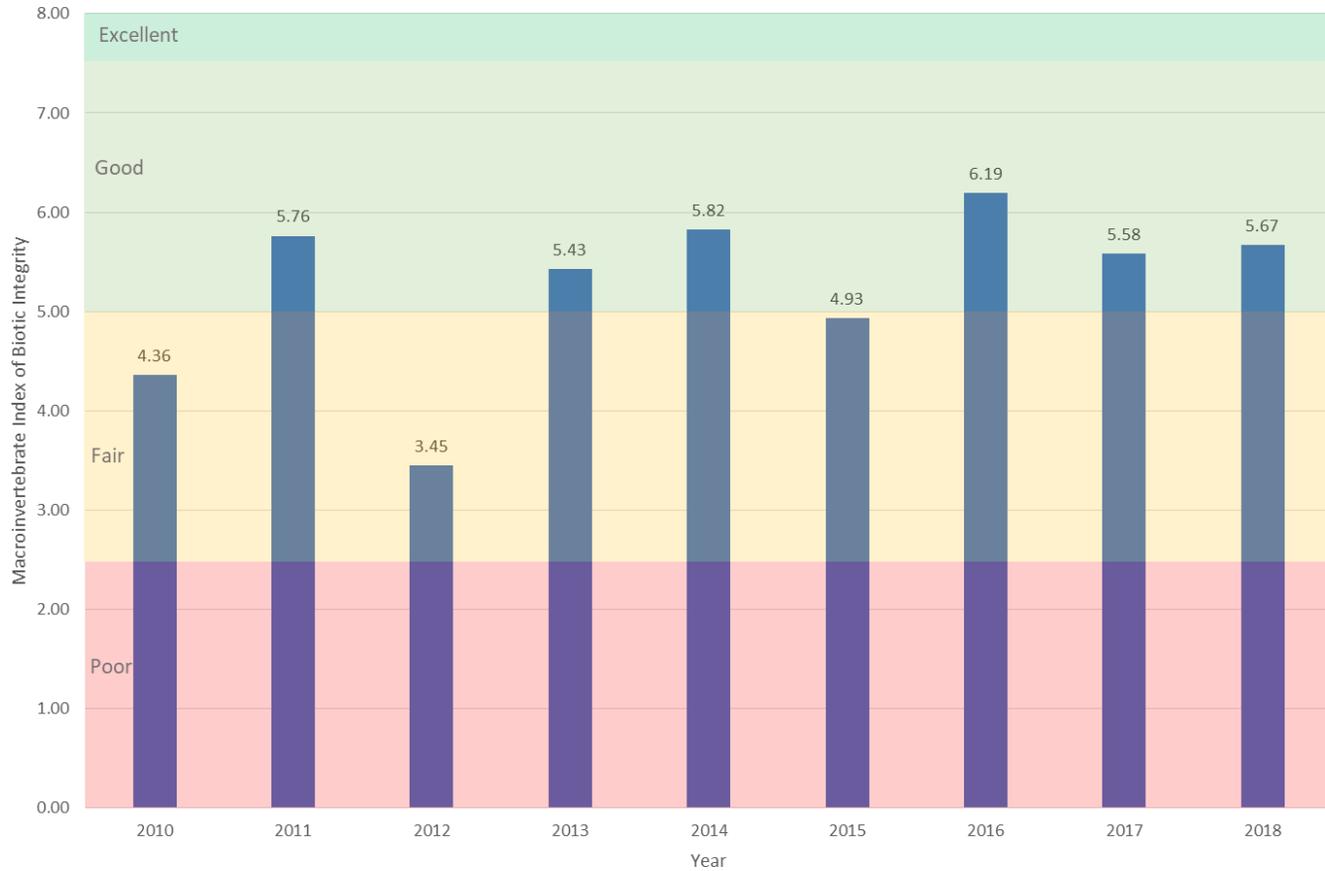


**Total Phosphorus - County J**  
0 out of 6 of Samples Exceeded 0.075 mg/L

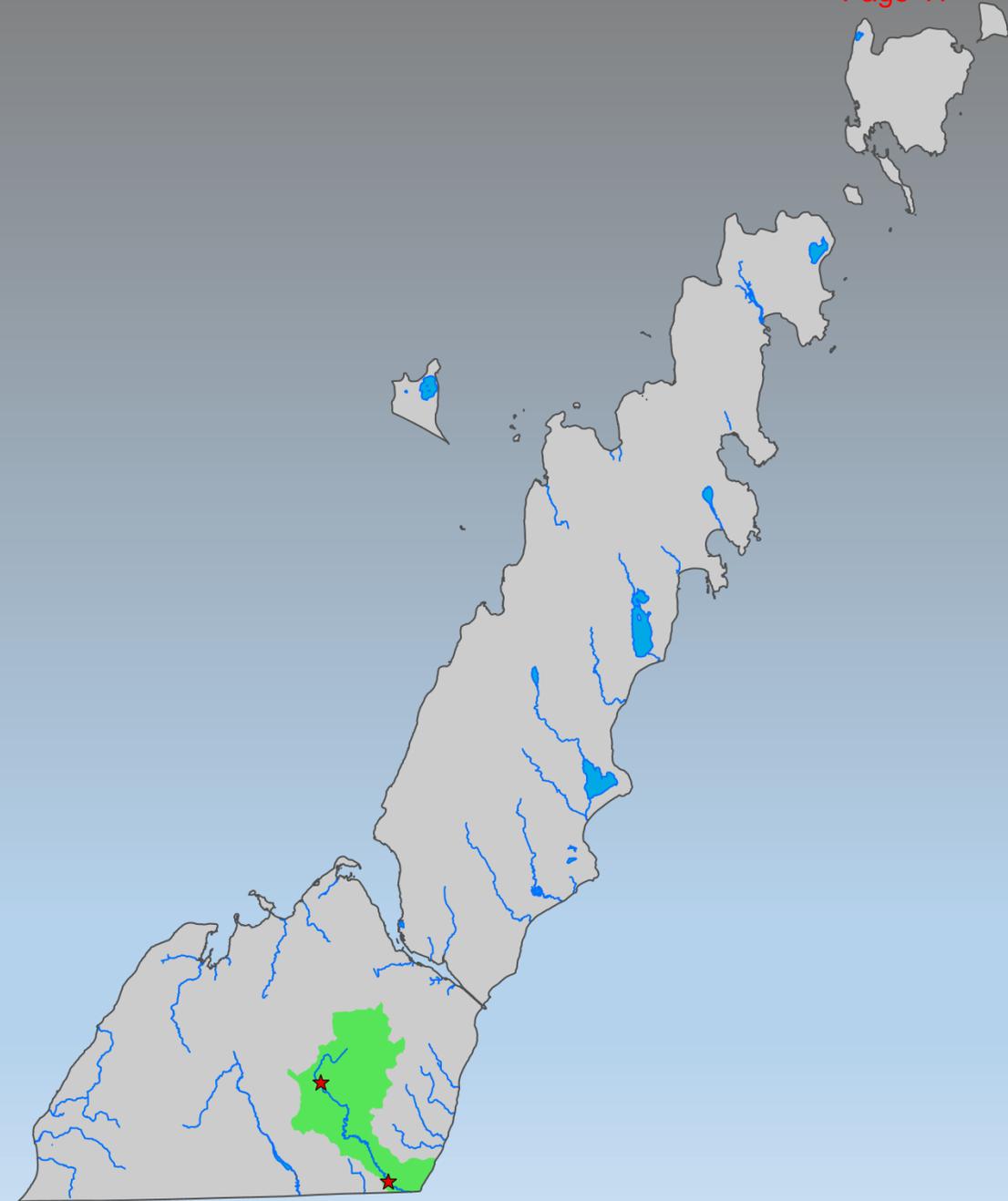
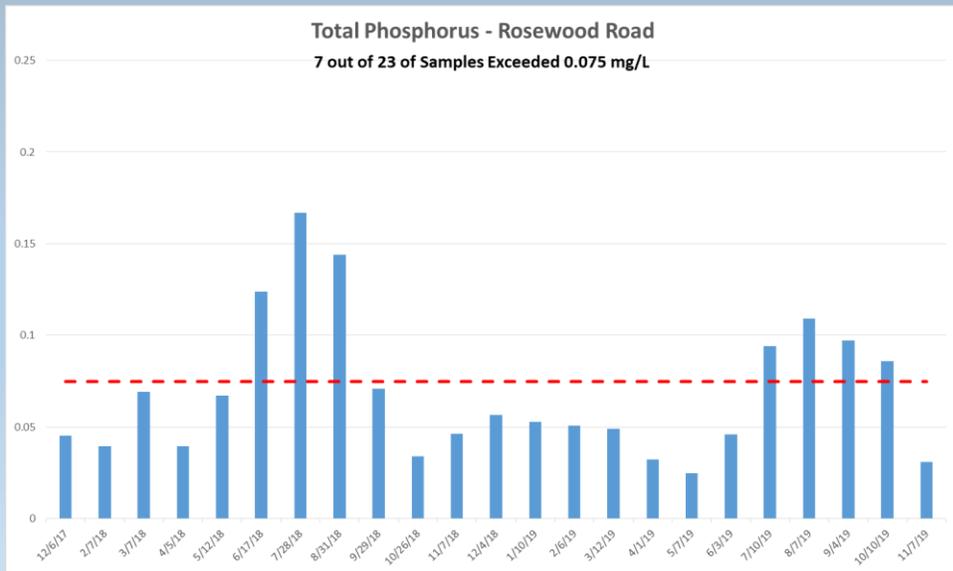
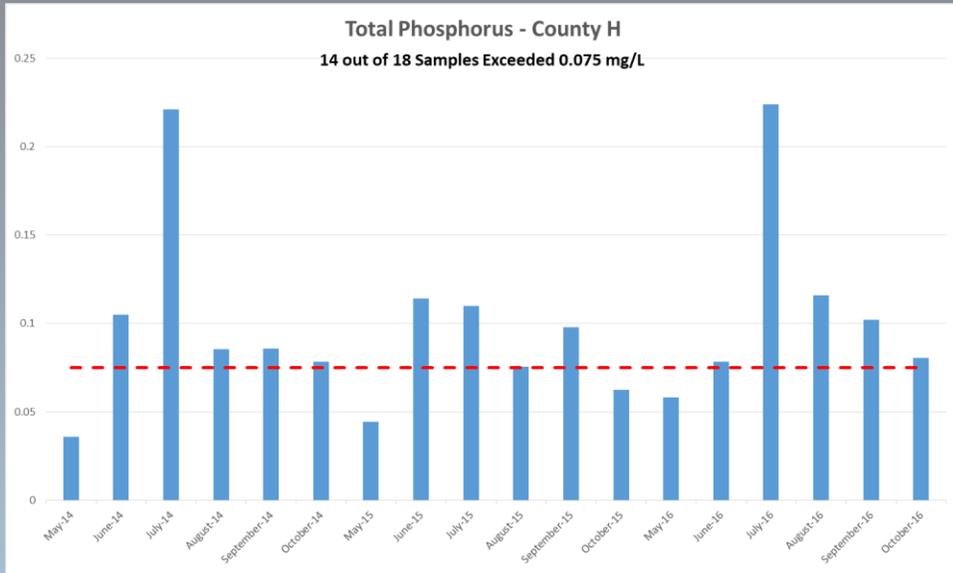


# Ahnapee River

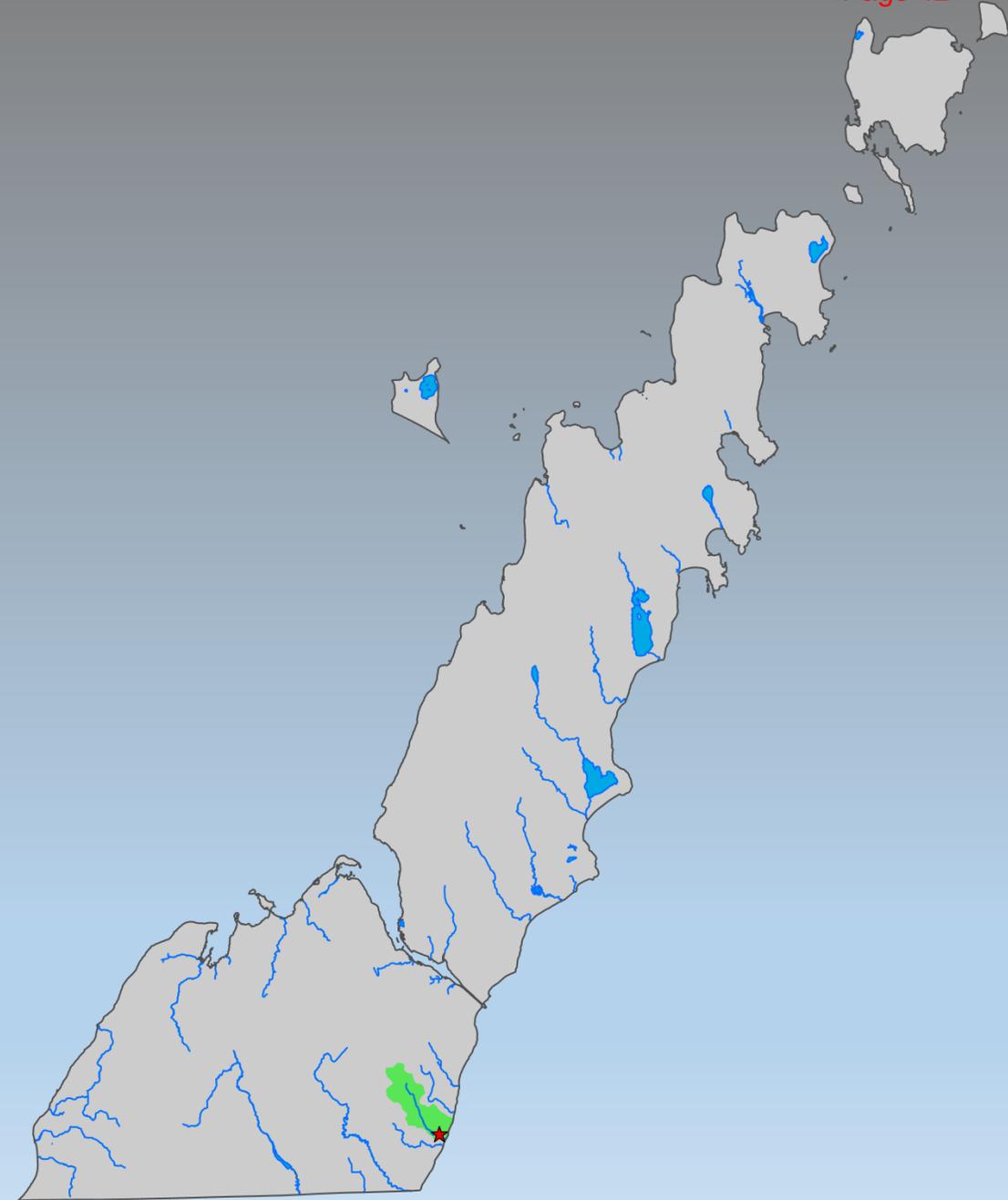
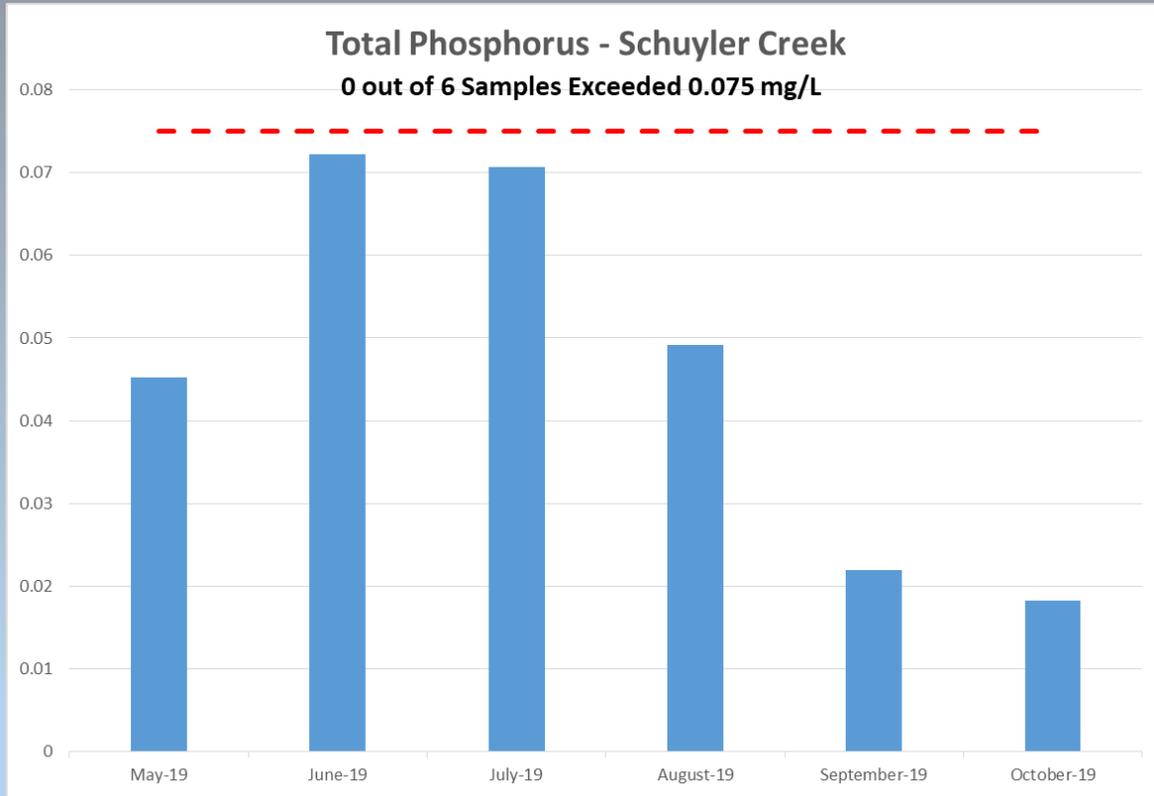
Macroinvertebrate Index of Biotic Integrity, 2010 - 2018  
Ahnapee River at CTH H near Forestville - Station 153161



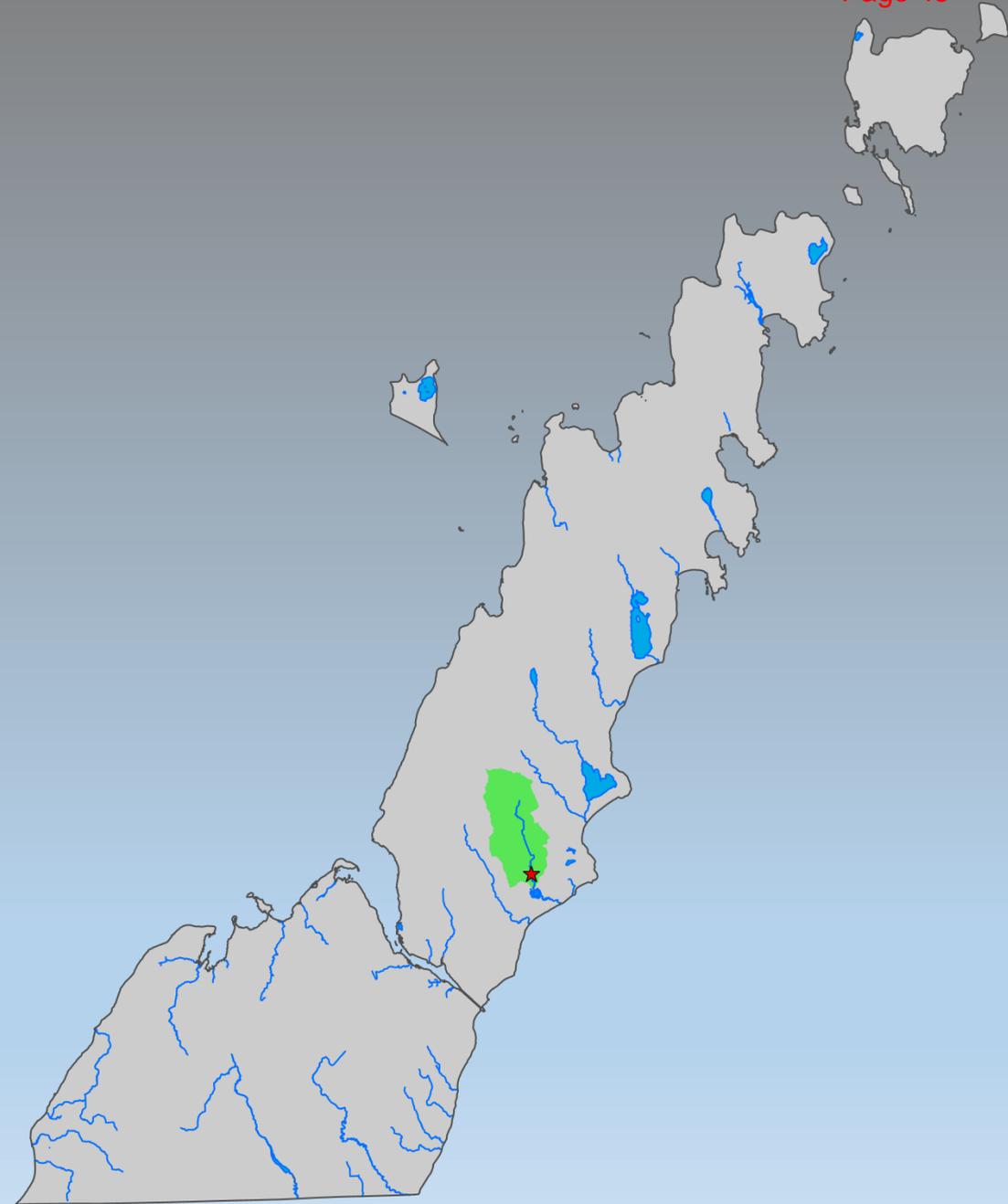
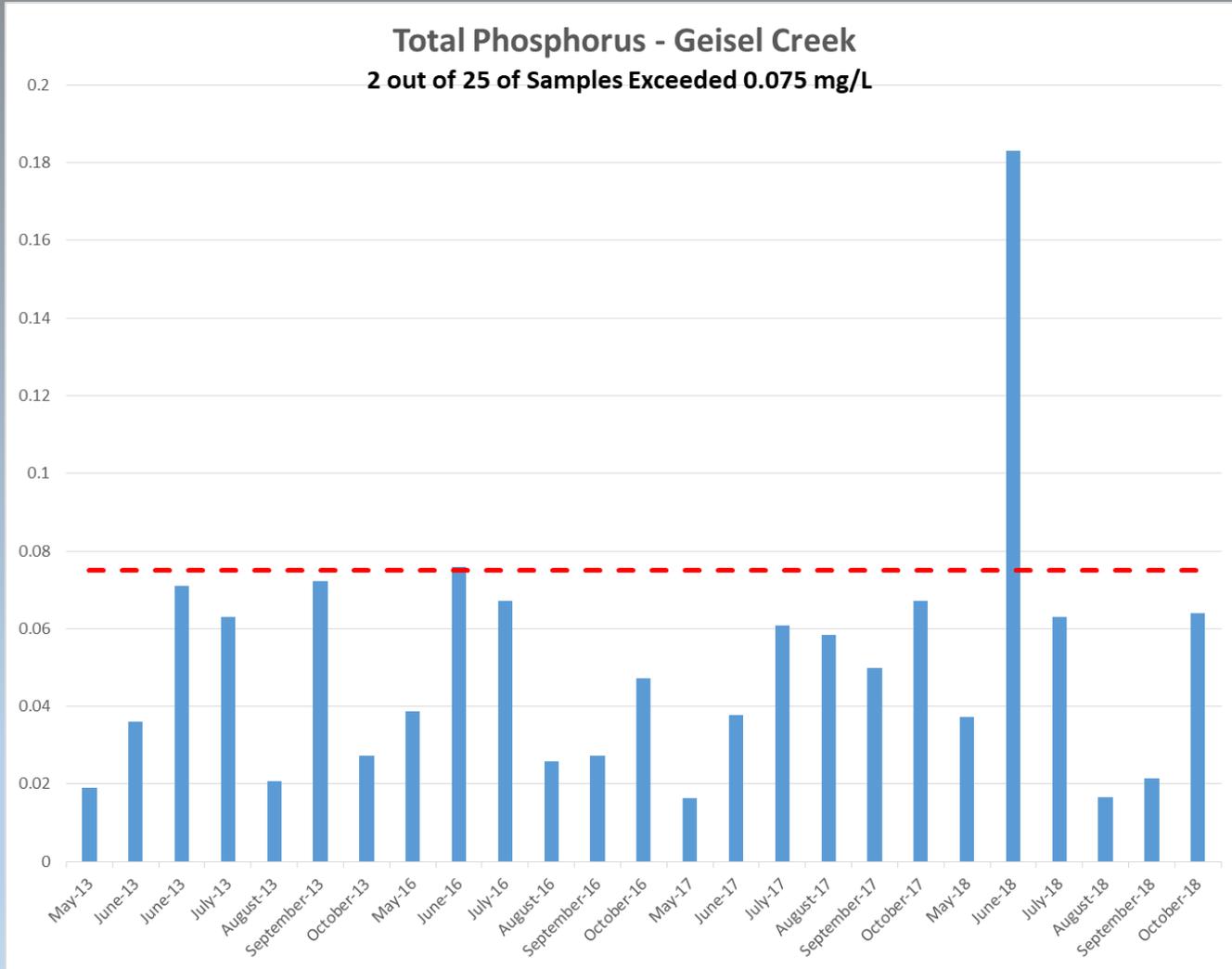
# Stony Creek



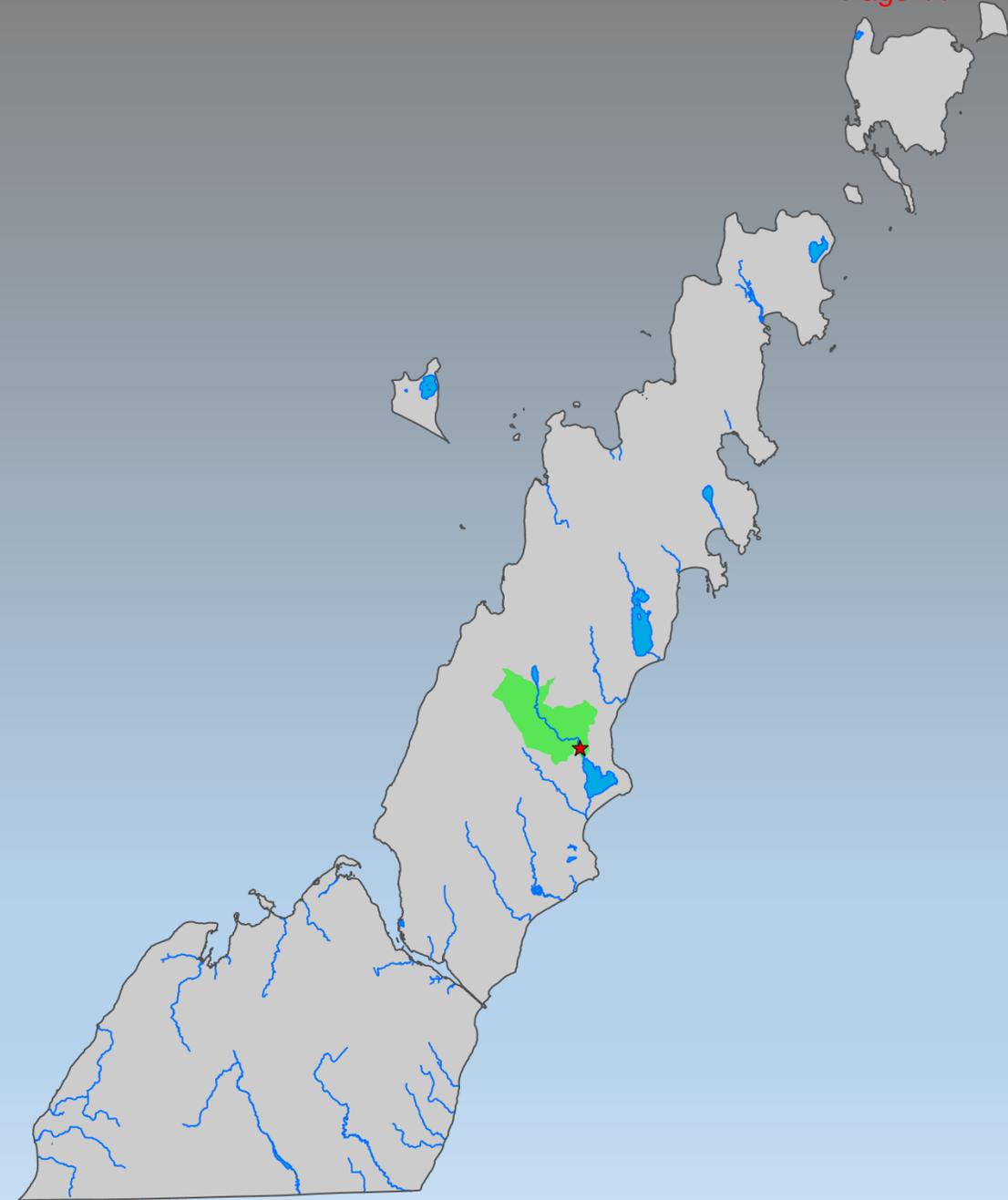
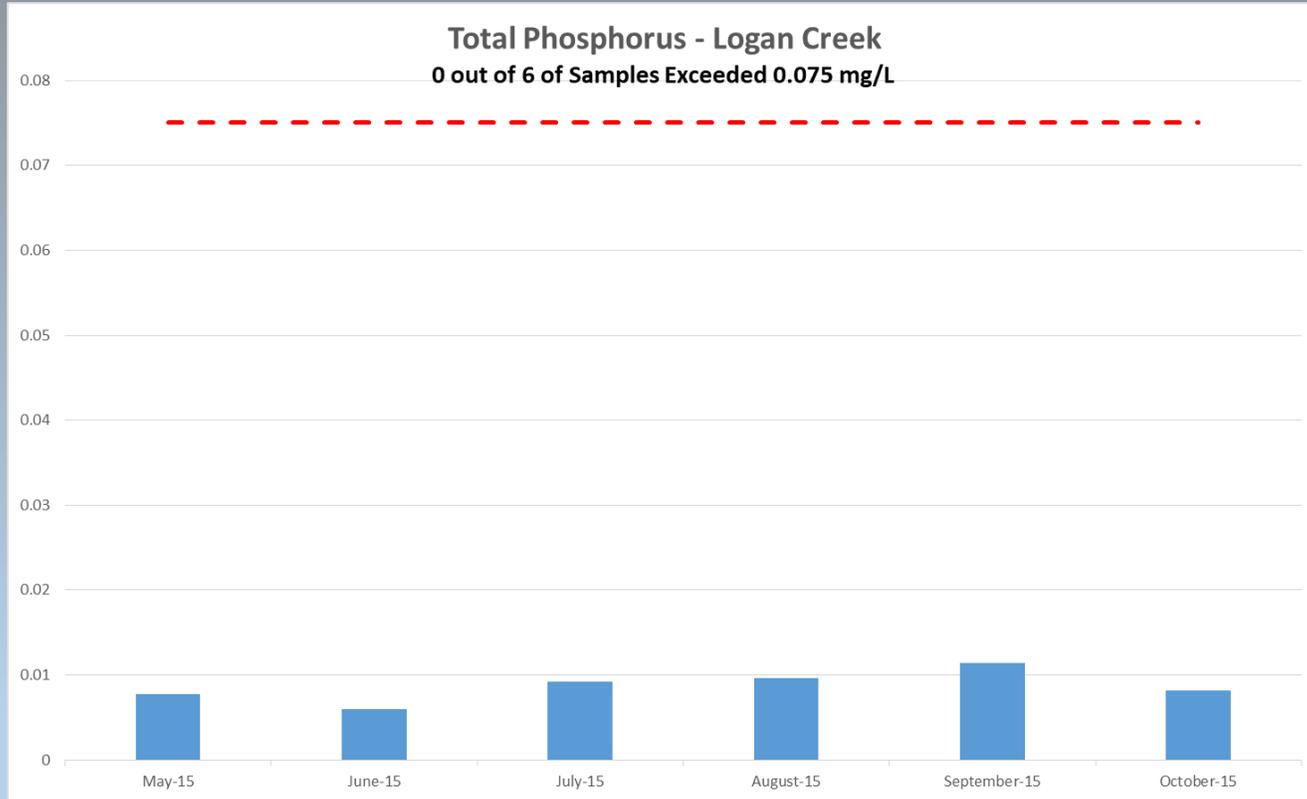
# Schuyler Creek



# Geisel Creek

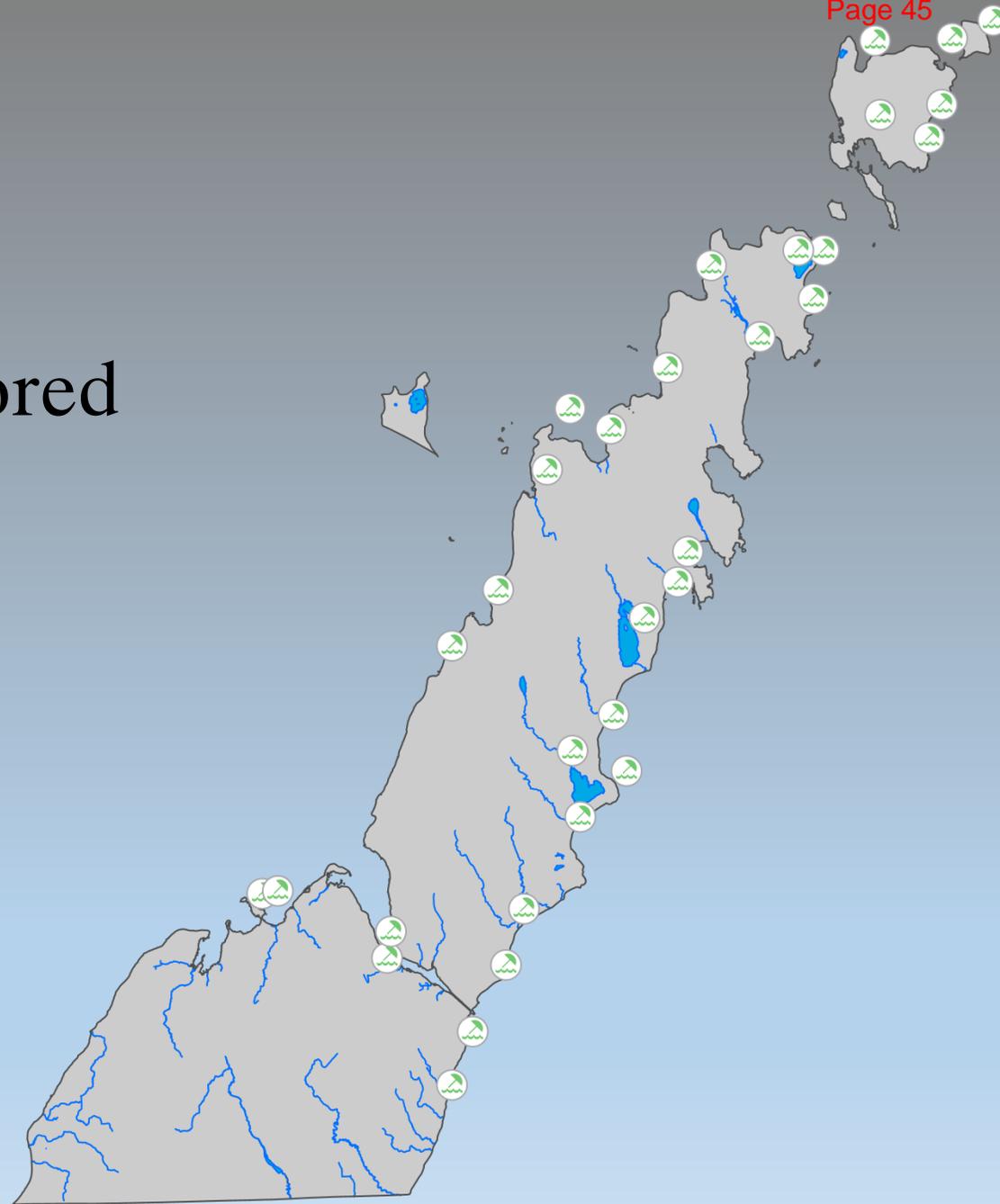


# Logan Creek



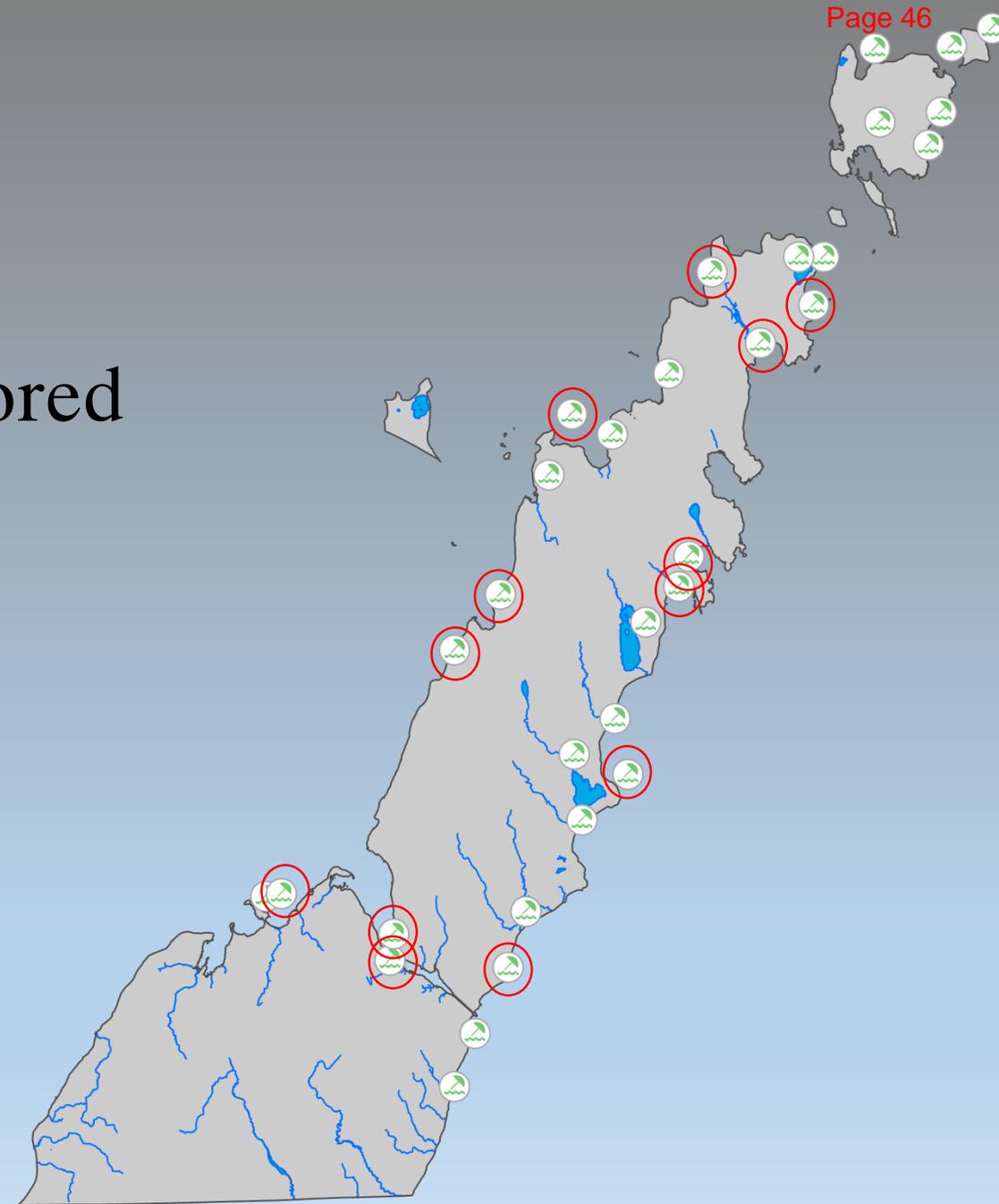
# Beach Monitoring

- Approximately 30 Beaches monitored



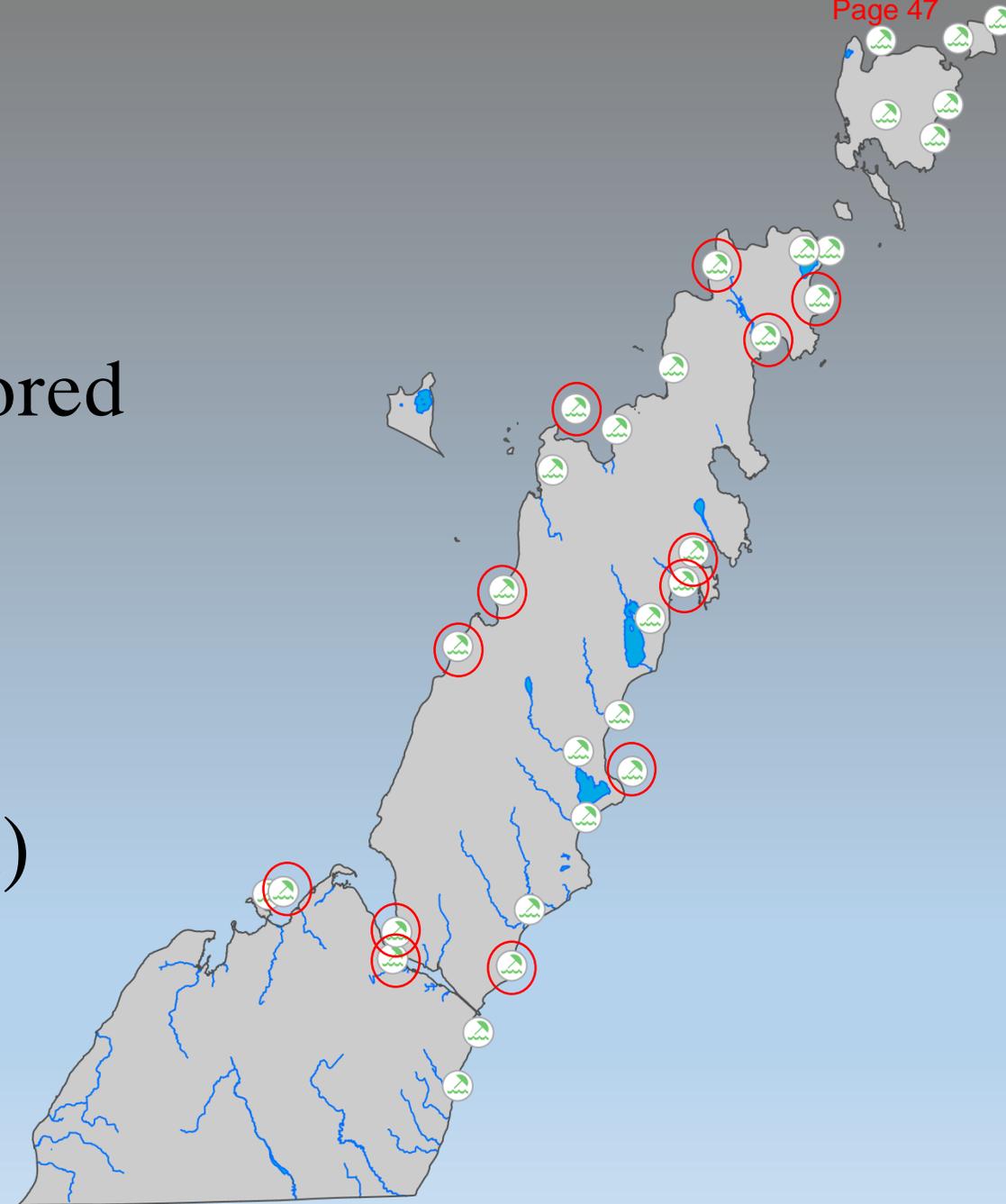
# Beach Monitoring

- Approximately 30 Beaches monitored
- 13 Beaches with Installed BMPs



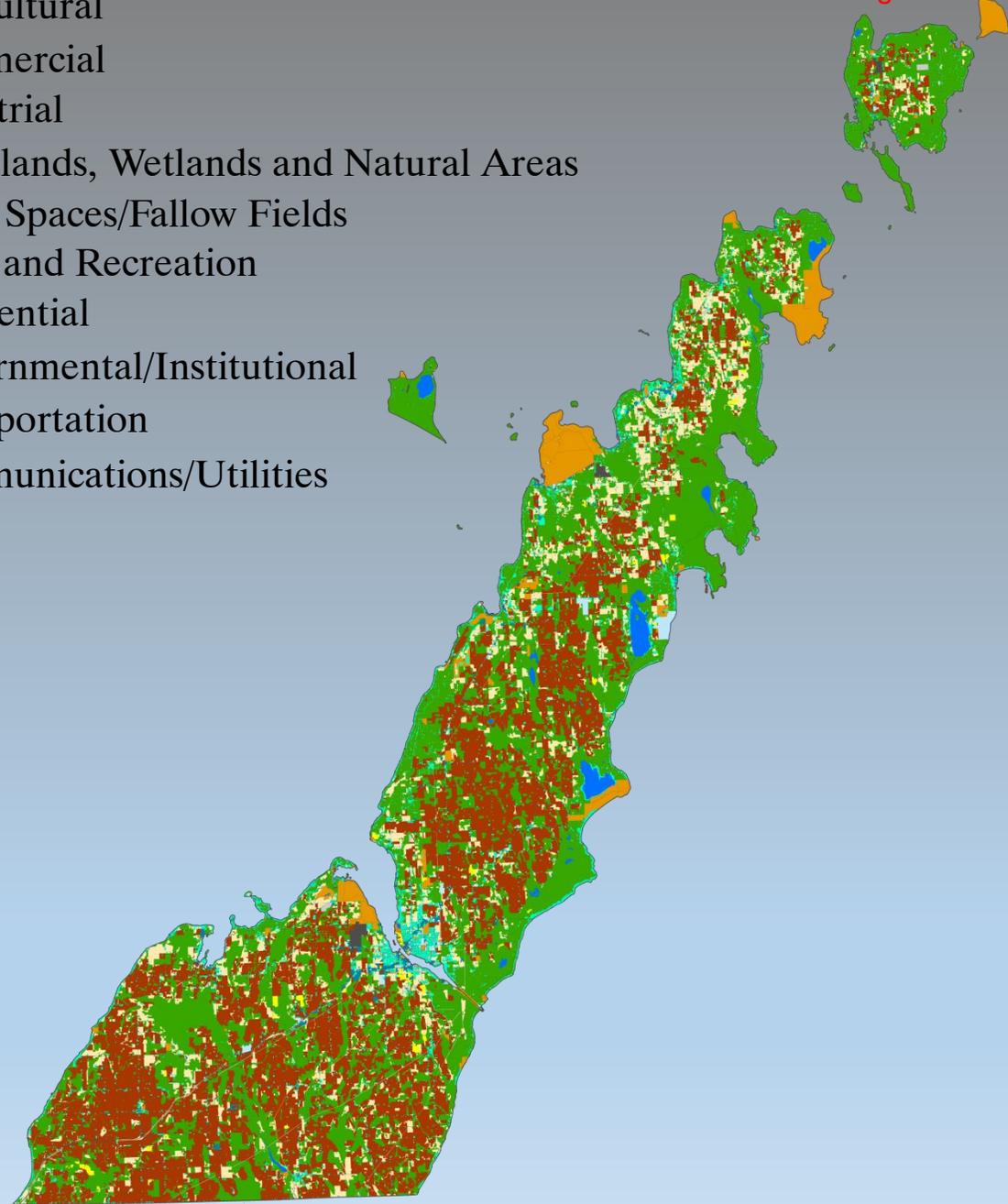
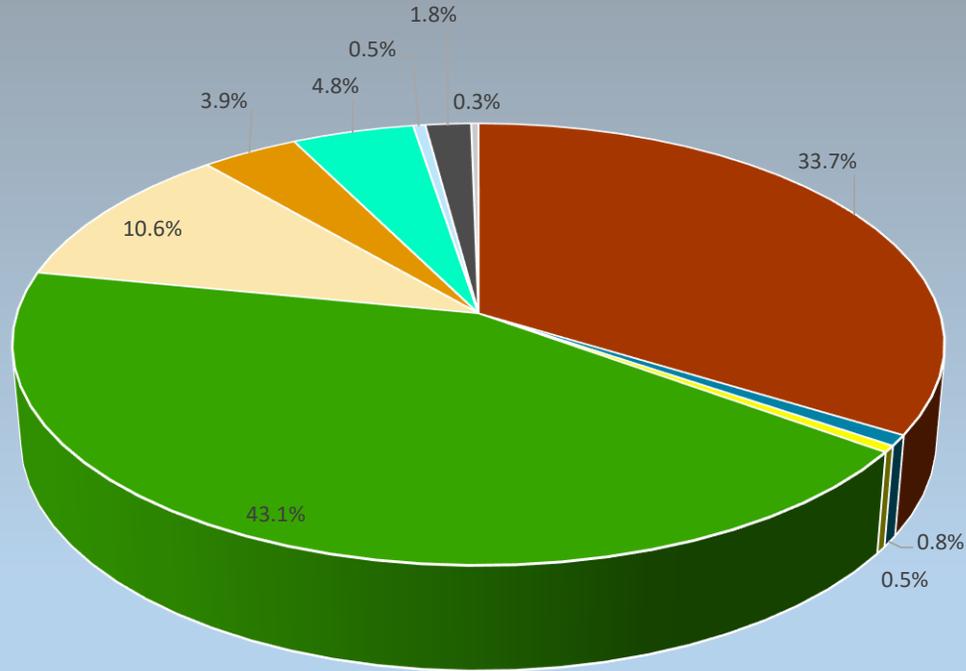
# Beach Monitoring

- Approximately 30 Beaches monitored
- 13 Beaches with Installed BMPs
- 2019 – 1,060 Samples Collected
  - 25 Advisories (235 CFU/100 ml)
  - 8 Closures (1,000 CFU/100 ml)



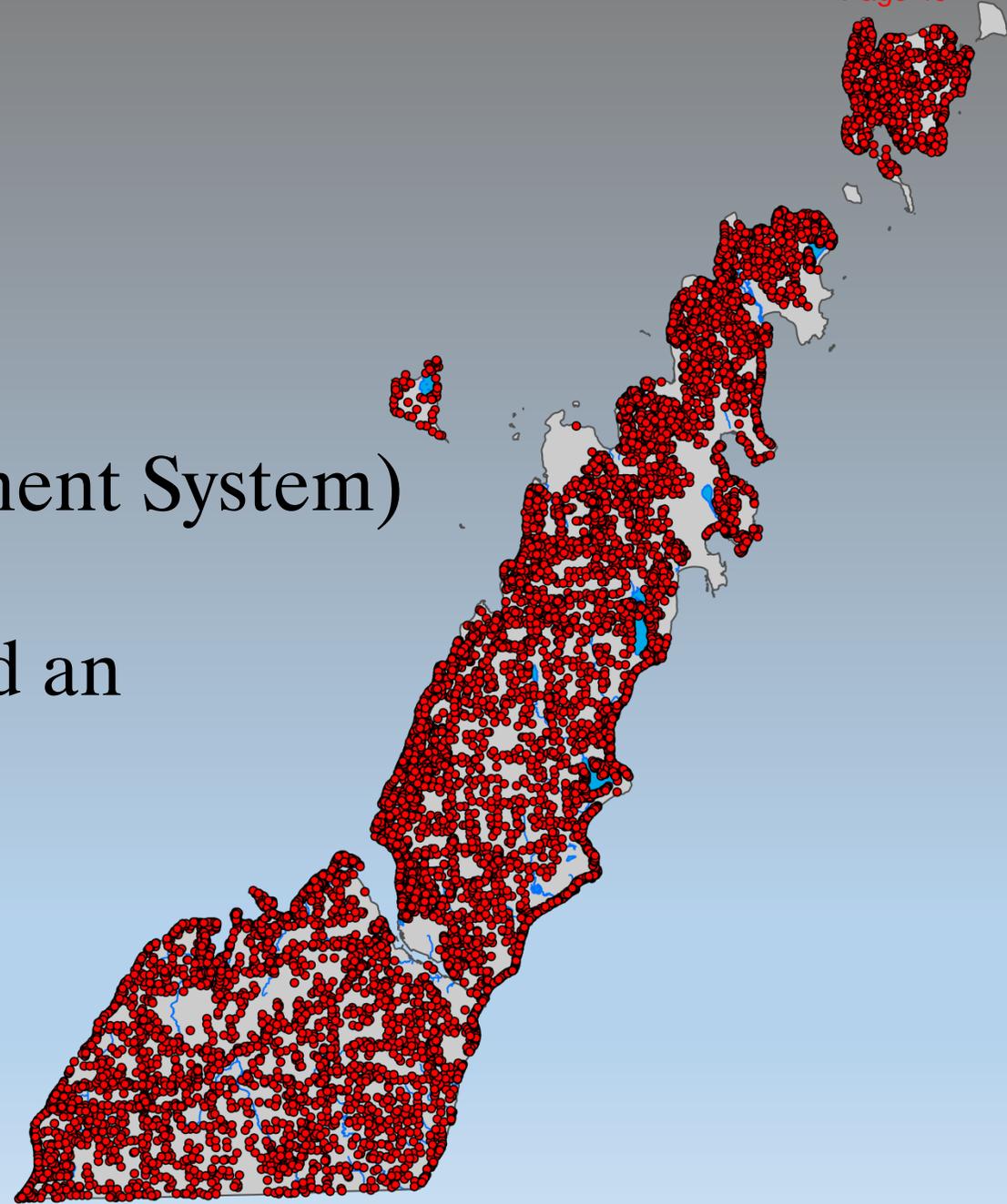
# Land Use

- Agricultural
- Commercial
- Industrial
- Woodlands, Wetlands and Natural Areas
- Open Spaces/Fallow Fields
- Parks and Recreation
- Residential
- Governmental/Institutional
- Transportation
- Communications/Utilities



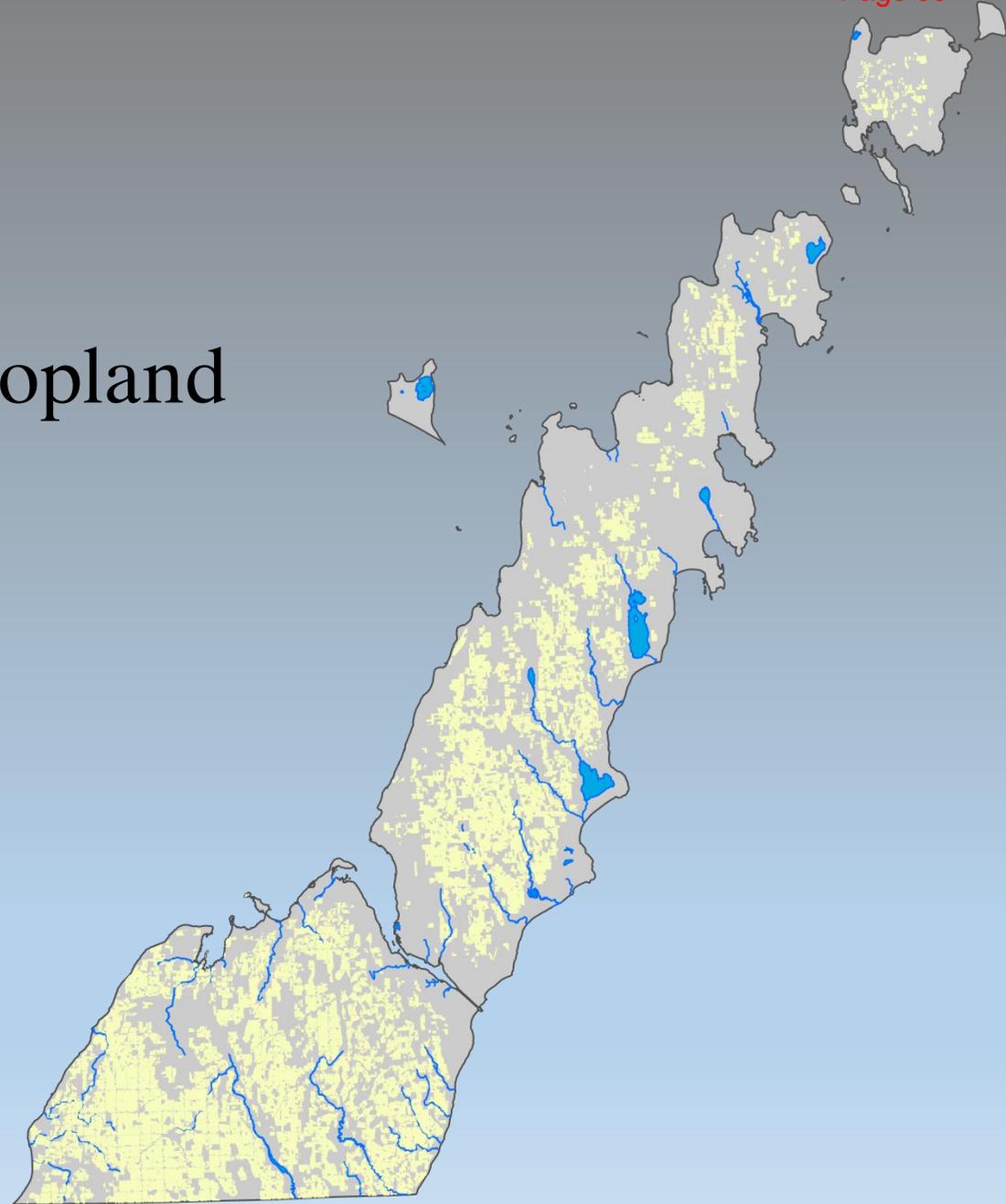
# Rural Development

- Approximately 12,000 POWTS  
(Private Onsite Wastewater Treatment System)
- Sanitary Survey Complete in 2015
- Inspections from 1986 – 2015 yielded an average failure rate of 26%



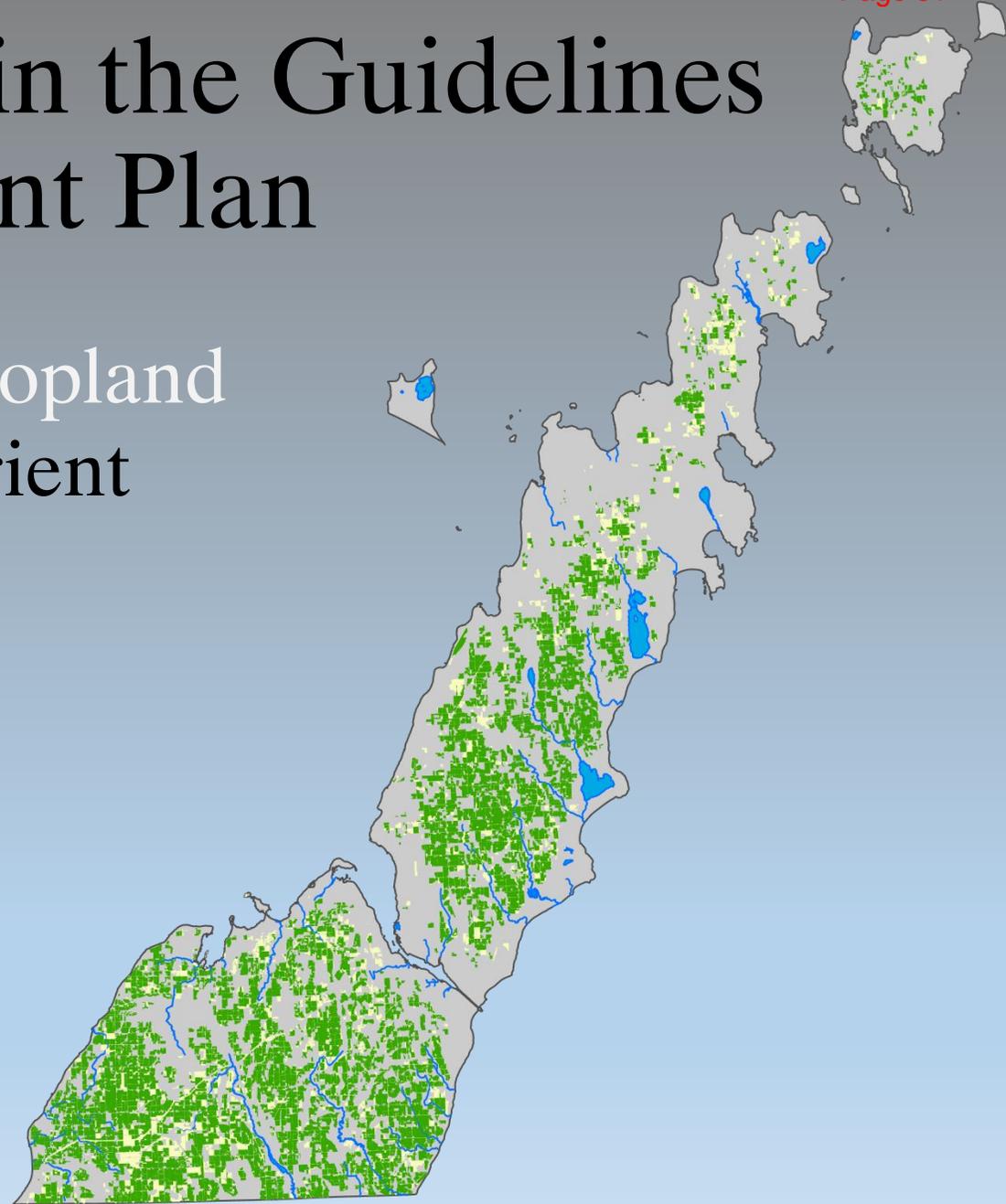
# Cropland

- Approximately 83,807 Acres of Cropland



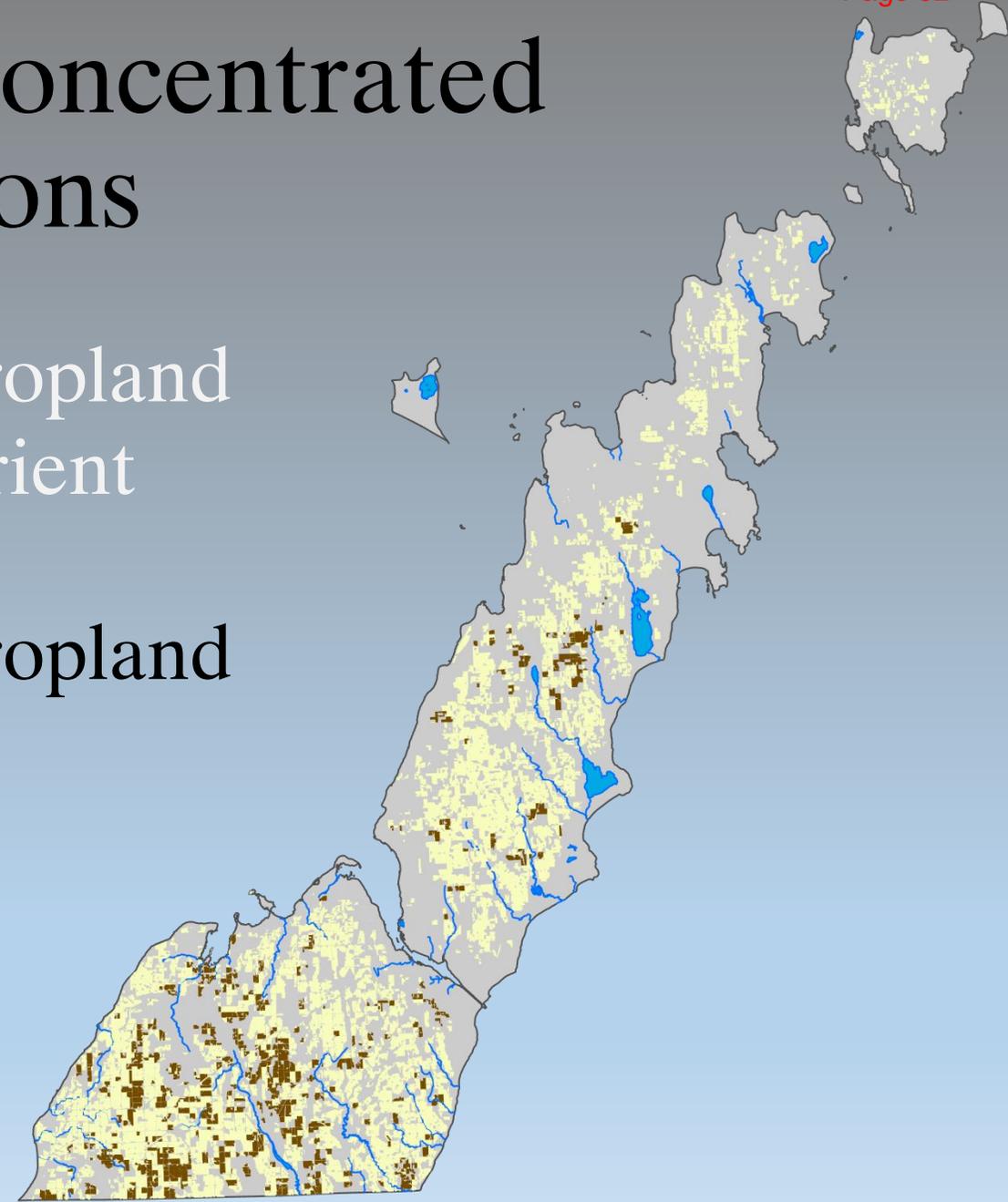
# Cropland Operated within the Guidelines of a Nutrient Management Plan

- Approximately 83,807 Acres of Cropland
- Approximately 93% Acres in Nutrient Management Plans



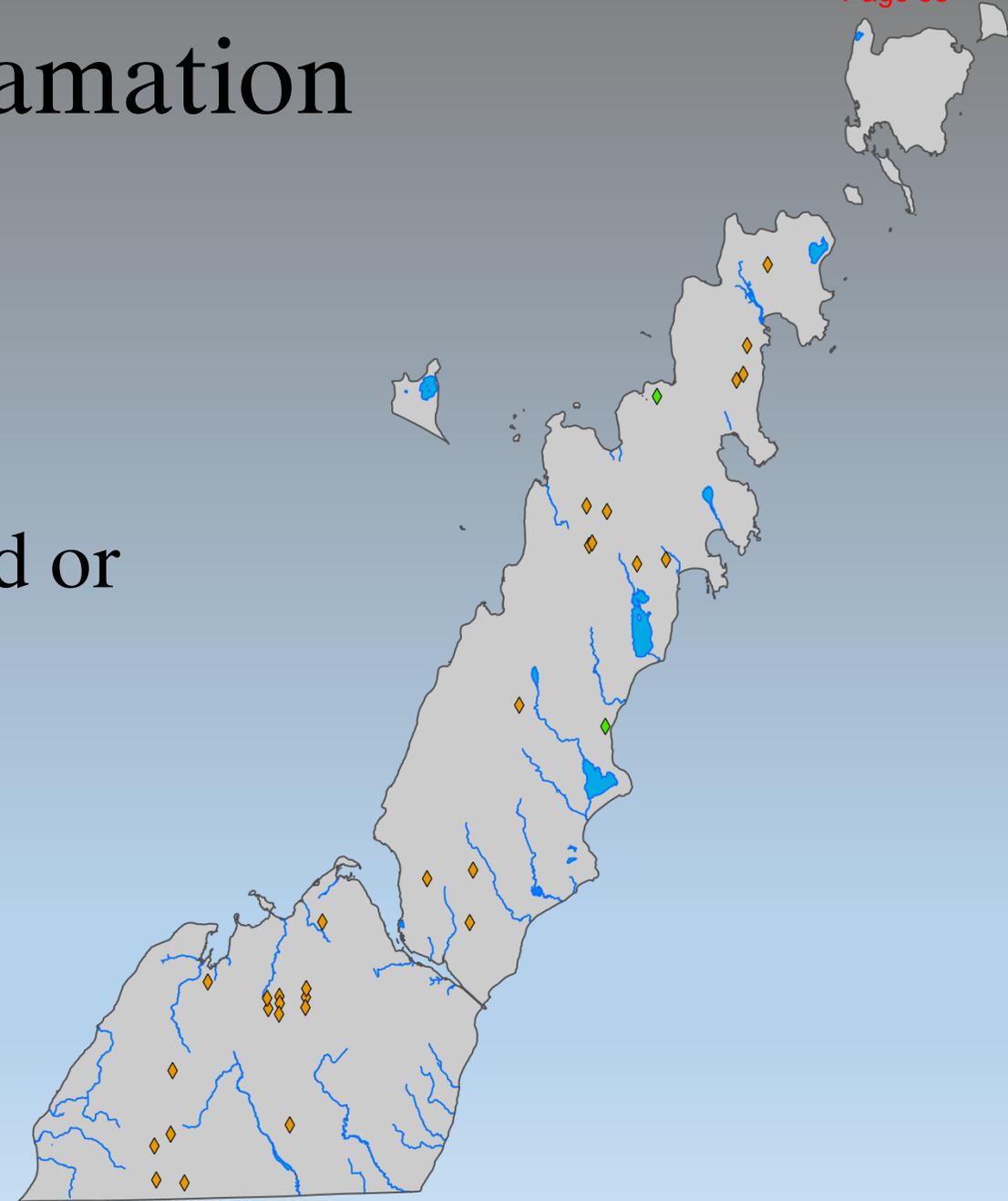
# Cropland Operated by Concentrated Animal Feeding Operations

- Approximately 83,807 Acres of Cropland
- Approximately 93% Acres in Nutrient Management Plans
- Approximately 16,618 Acres of Cropland Operated by CAFOs (20%)



# Non-Metallic Mine Reclamation

- 50 Permitted Mines
- 1,684 Potential Mine Acres and Approximately 840 Actively Mined or Un-reclaimed Acres



# Aggressive Invasive Non-Indigenous Species

- Russian/Autumn Olive
- Garlic Mustard
- Japanese Barberry
- Phragmites
- Dame's Rocket
- Common Buckthorn
- Bush Honeysuckle
- Japanese Knotweed
- Purple Loosestrife
- Teasel
- Glossy Buckthorn
- Hound's Tongue
- Leafy Spurge
- Reed Canary Grass
- Wild Parsnip

# Aggressive Invasive Non-Indigenous Species



Teasel – 11 Acres



Phragmites – 102 Acres



Japanese Knotweed – 2 Acres



Wild Parsnip – 20 Acres

# Questions?

This presentation and the current  
plan can be downloaded:  
<http://map.co.door.wi.us/swcd>

What are the most important soil, water and other natural resource issues facing Door County over the next decade?

# Plan Development Process

- Public input sessions - February
- Local Advisory Group & Land Conservation Committee Meetings – Jan - May
- Land Conservation Committee approves draft plan - June
- Revise draft to incorporate State Agencies comments - July
- Public hearing – August
- Submit plan to State Agencies - September
- Present plan to State Land and Water Conservation Board – October
- Adoption by Door County Board of Supervisors - November