

DNR Updates

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Wastewater Section Chief





Topics

- 2017 in Review
- Study Groups
 - Wastewater Permit Process Improvements
 - Septage
- Water Quality Standards Rules
 - Triennial Standards Review
 - Site Specific Criteria
 - Phosphorus Response Indicators
 - Antidegradation
- Air Regulations for POTWs
- TMDL Updates – WI River TMDL Draft Allocations

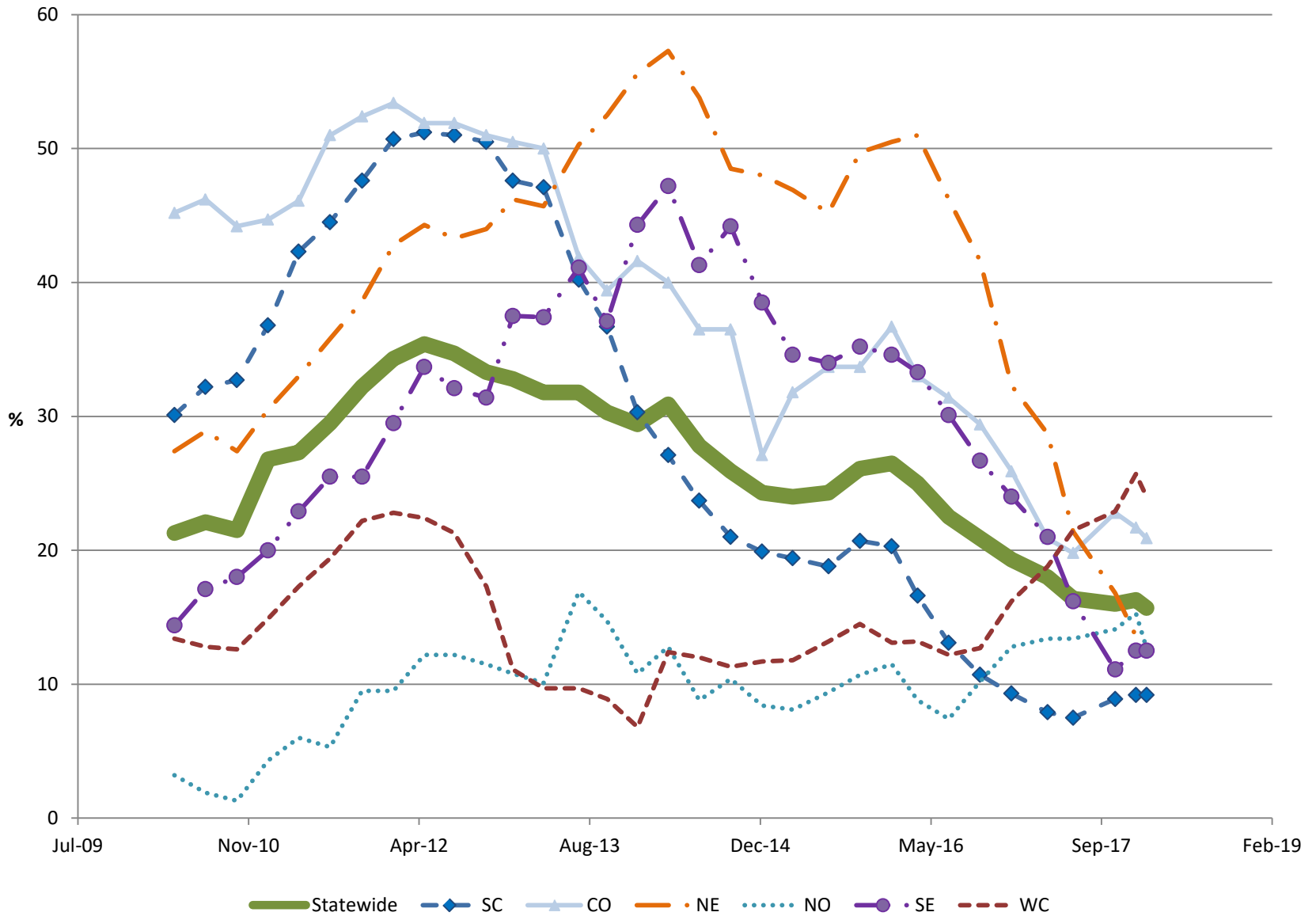


Wastewater Program: 2017 by the Numbers

- 965 Individual Permits
- 183 Individual Permits Reissued
 - 15.8% backlog
- 751 Plan Reviews
- 331 Inspections
- Alternative Phosphorus Compliance Methods
 - 40 Multi-discharger Variance Applications
 - \$1,075,000 in nonpoint funds
 - 23 Facilities pursuing Water Quality Trading
 - 9 Facilities pursuing Adaptive Management



BACKLOG





Wastewater Study Groups

- Wastewater Permit Process Improvements
 - Septage



Wastewater Permit Process Improvements Study Group

- Goals
 - 10% Statewide WPDES Permit Backlog
 - Process Improvements (external and internal)
- External Group Providing Input/Feedback on:
 1. WPDES Permitting Process
 2. Implementation of New State & Fed Regulations
 3. Collaborative Efforts with other DNR Programs and External Partnerships
- Standing Group - Advisory
- Open to Public

<http://dnr.wi.gov/topic/wastewater/PermitsStudyGroup.html>



Membership



Chairperson:
Angela James

**AAJ
Legal**

WMC

MWFPA

WCMA

**Paper
Council**

**Alliant
Energy**

**WE
Energies**

**City of
Oconomowoc**

WRWA

**Municipal
Environmental
Group**

**MSA
Prof. Serv.**

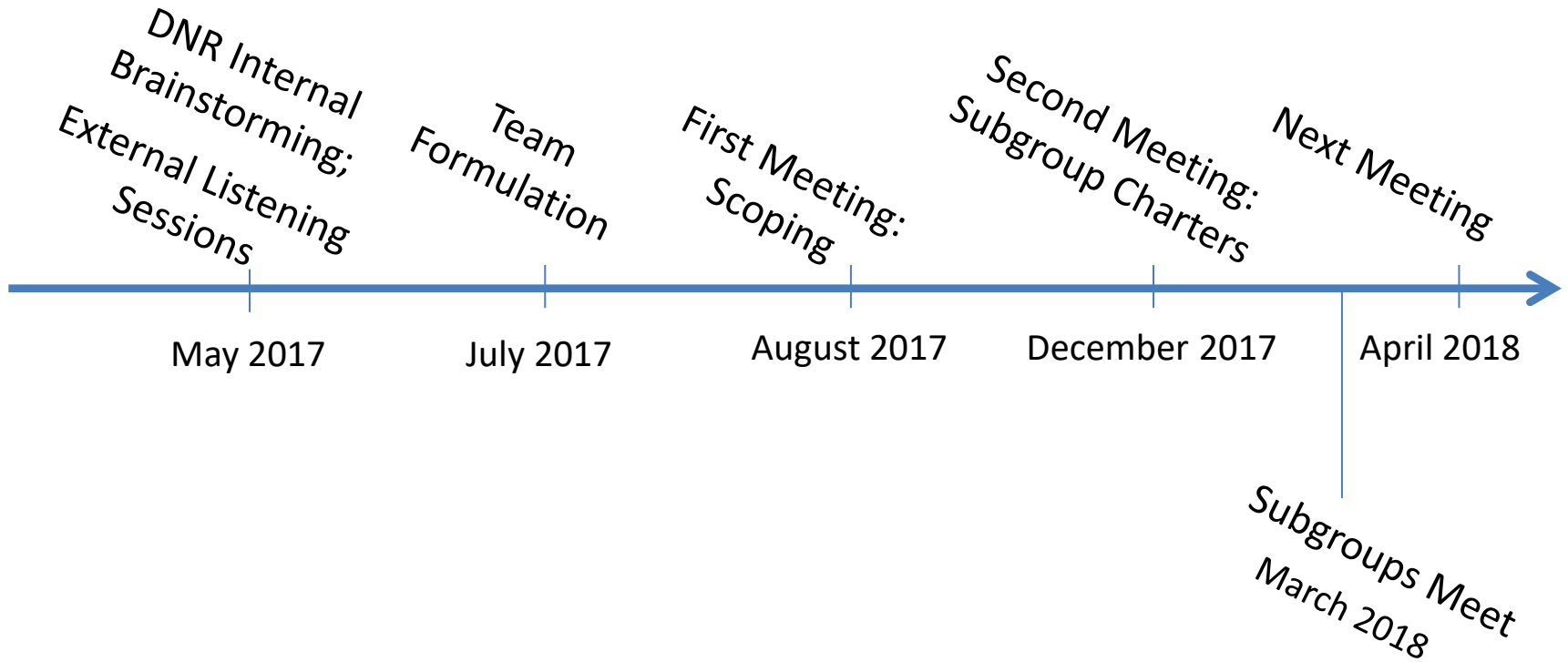
EPA

**River
Alliance**

**Clean
Wisconsin**



Timeline





Scoping

Eliminating

Additives

Chloride ~~Septage~~

Surprises

CONSISTENCY

Upcoming TMDLs

Antibacksliding and Antidegradation

Electronic DMR Reporting

Downstream Impacts

Water Quality Trading

Permit Training for Externals

Phosphorus Implementation

Economic Impacts

Permit Fact Check

3rd Party Permit Drafting

Multi-Discharge
Variance

Applications



WPPI: Technical Subgroups

- Consist of technical staff (e.g. permittees, consultants) who work with permits on daily basis
- Report to Study Group with Recommendations
- Nominated by Study Group
- Advancing 2 Subgroups:
 - Application Process
 - Consistency, Certainty, and Communication (3C)



WPPI: Applications Subgroup

- Pre-population
- Transfer data to draft permits
- Flag needs for additional samples
- Remove Parameters not Requiring Monitoring
- e-Application Instructions
- Post Application Status
- Reduce Late/Incomplete Applications (62%)



WPPI: 3C Subgroup

- Fact Check Process
- Direct Channel to DNR Policy Functional Groups
- Post DNR Policy Expert List
- Balance: Statewide Consistency in Permits/One Size Does Not Fit All
- Co-hosted DNR-Industry Trainings
- Communication
 - Webinars
 - District Roundtables
- Transparency in Limit Calculation





Septage Study Group

- Goal: Reduce Noncompliance
 - Create level playing field for industry
 - Discuss streamlining certifications, administration of regulations
- Issues to address
 - Site Approval Process
 - Storage Options
 - Rural Receiving Options
 - Etc.





Water Quality Standards

- Triennial Standards Review
 - Antidegradation
- Phosphorus Response Indicators
 - Biocriteria
 - Site Specific Criteria



Triennial Standards Review

Designated Uses



RECREATION



FISH & AQUATIC LIFE



PUBLIC HEALTH & WELFARE



WILDLIFE

PURPOSE

- Every 3 years, DNR reviews Wisconsin's water quality standards as required by the Clean Water Act.
- The review provides the public an opportunity to weigh in on how DNR should focus its available resources to ensure the health of Wisconsin lakes, rivers, and streams.

TOPICS CONSIDERED

Designated Uses Goals and expectations for each waterbody (see sidebar).

Water Quality Criteria Narrative or numeric benchmarks to protect the designated use.

Antidegradation Policy and procedures to protect high quality waters.

Water Quality Variances Short-term changes to water quality standards when criteria are unattainable.



PROCESS

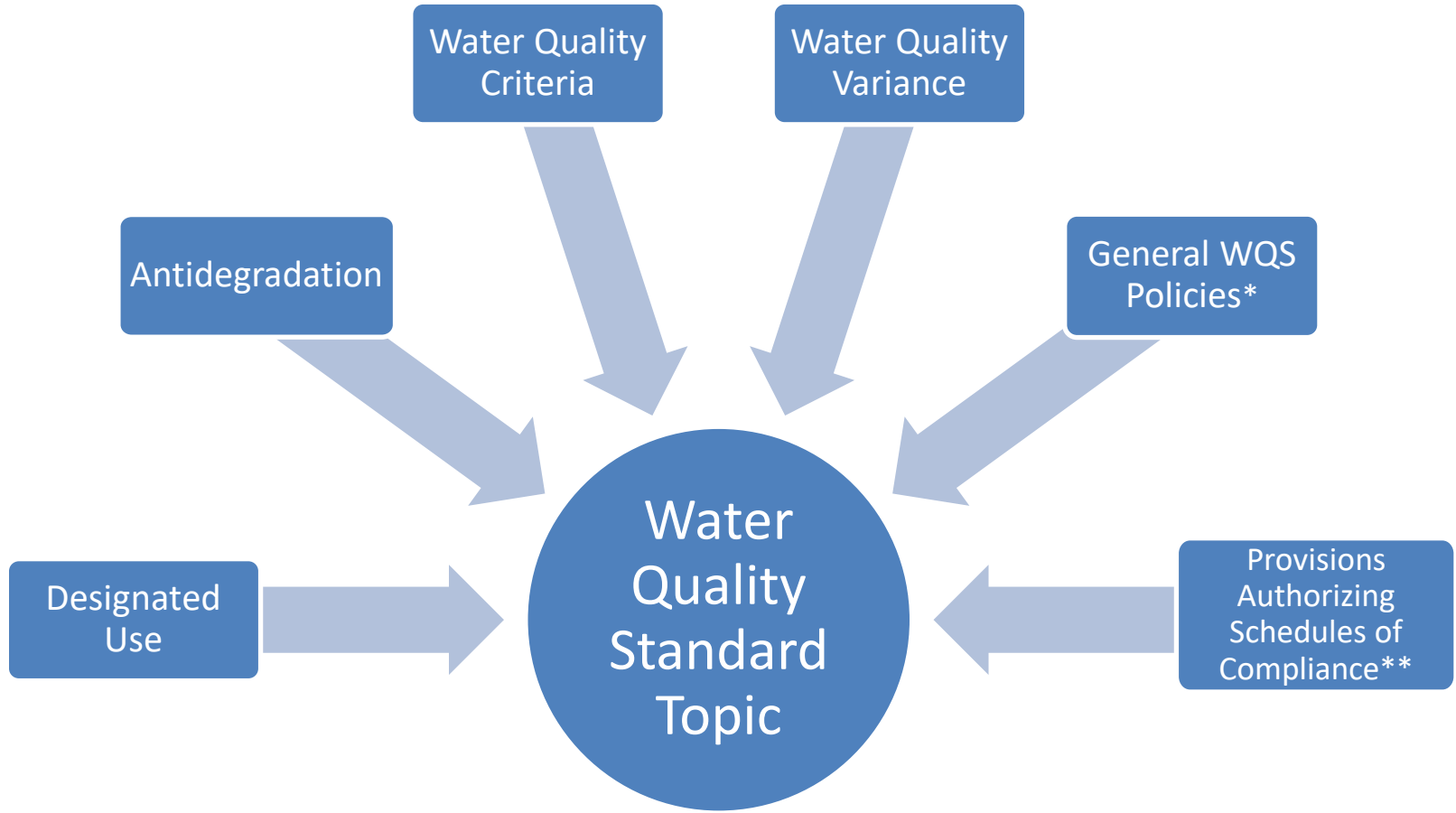
- 1) The public and internal/external partners are asked for topics to consider during this process.
- 2) The public and internal/external partners complete surveys to rank topics.
- 3) A public hearing is held to describe the topics under consideration.
- 4) A final report is prepared with the topics prioritized based on input from the surveys.
- 5) Work begins on the priority topics.





Topic Areas Considered

Evaluating topic areas related to guidance, rules, and development or implementation policies



* Policies generally affecting their application and implementation, such as mixing zones, low flows and variances.

** These provisions are up-to-date and do not need to be evaluated as part of this cycle



Gather water quality standard related topic suggestions from internal staff, external partners, and the general public.

Step 1

Topic Suggestions

Compile a list of relevant topics and distribute survey to rank topics by priority.

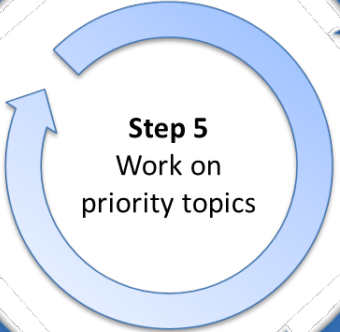
Step 2

Topic Survey

While ranking survey is underway, a public hearing is held to provide additional info on topics under consideration.

Step 3

Public Hearing



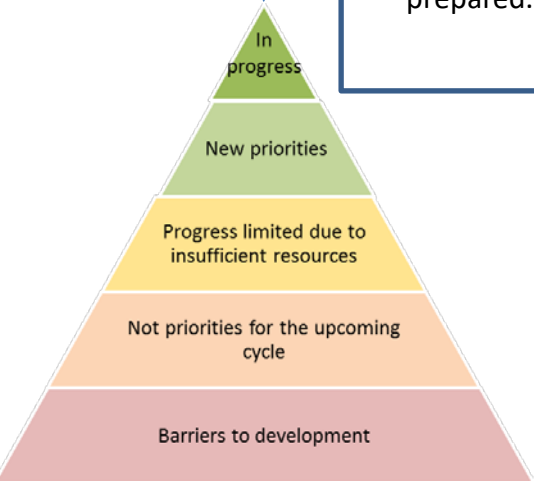
Step 5

Work on priority topics

Topics are prioritized based on surveys received and a final report is prepared.

Step 4

Final Report



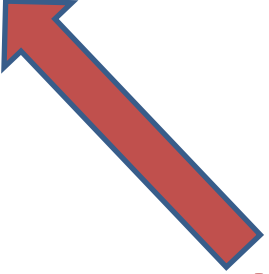
In progress

New priorities

Progress limited due to insufficient resources

Not priorities for the upcoming cycle

Barriers to development



You are Here



WQS Rule Packages

- Antidegradation
 - Scope Statement, Early Stages
- Designated Uses
 - Apply most appropriate Aquatic Life Use category & criteria
- Biocriteria & Phosphorus Response Indicators
 - Use biology to measure waterbody health
- Site Specific Criteria for Phosphorus
 - Apply different phosphorus criteria if appropriate



Air Permitting for POTWs

- 40 CFR 63, Subpart VVV National Emission Standards for Hazardous Air Pollutants: POTW Final Rule (October 2017):
 - <https://www.epa.gov/stationary-sources-air-pollution/publicly-owned-treatment-works-potw-national-emission-standards>
- Applies to volatilization of chemicals, combustion byproducts
- Applies to Authorized Pretreatment POTWs (>5MGD) that:
 - Combust Biogas
 - Are used as an air control device by an industrial user



Contact Megan Corrado (DNR) at megan.corrado@wisconsin.gov or 608-267-0566

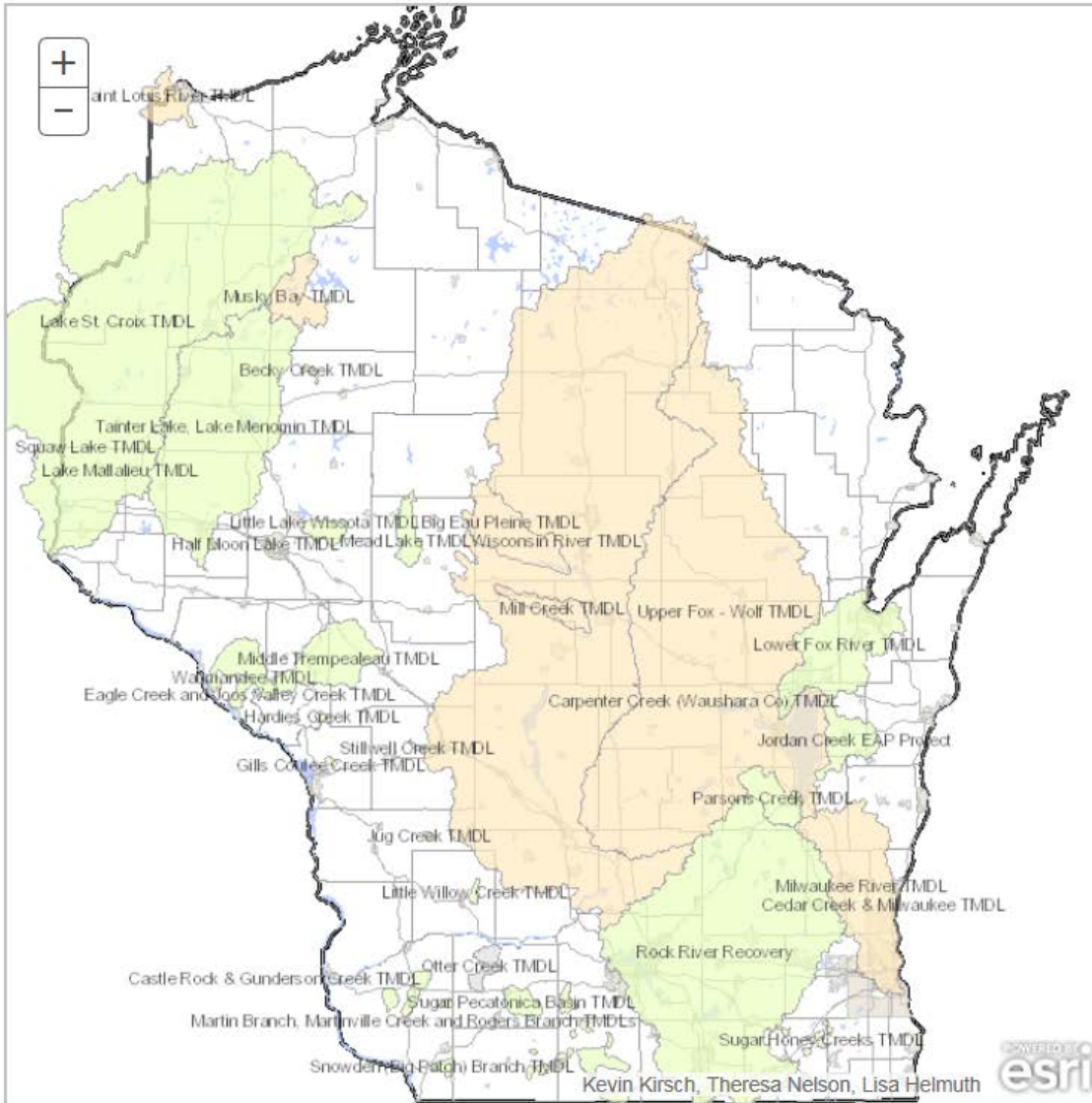


Total Maximum Daily Loads (TMDLs)

- Statewide Progress
- Wisconsin River TMDL (Total Phosphorus)



TMDL Overview



Wisconsin TMDL Status

- TMDL Approved
- TMDL Implementation
- TMDL Development

- Budget for Pollutant Loading
- Addresses Waterbody Impairments

Wisconsin River Basin

* 21 Counties and 85 cities and villages

* Permitted Wastewater Facilities

● 108 facilities

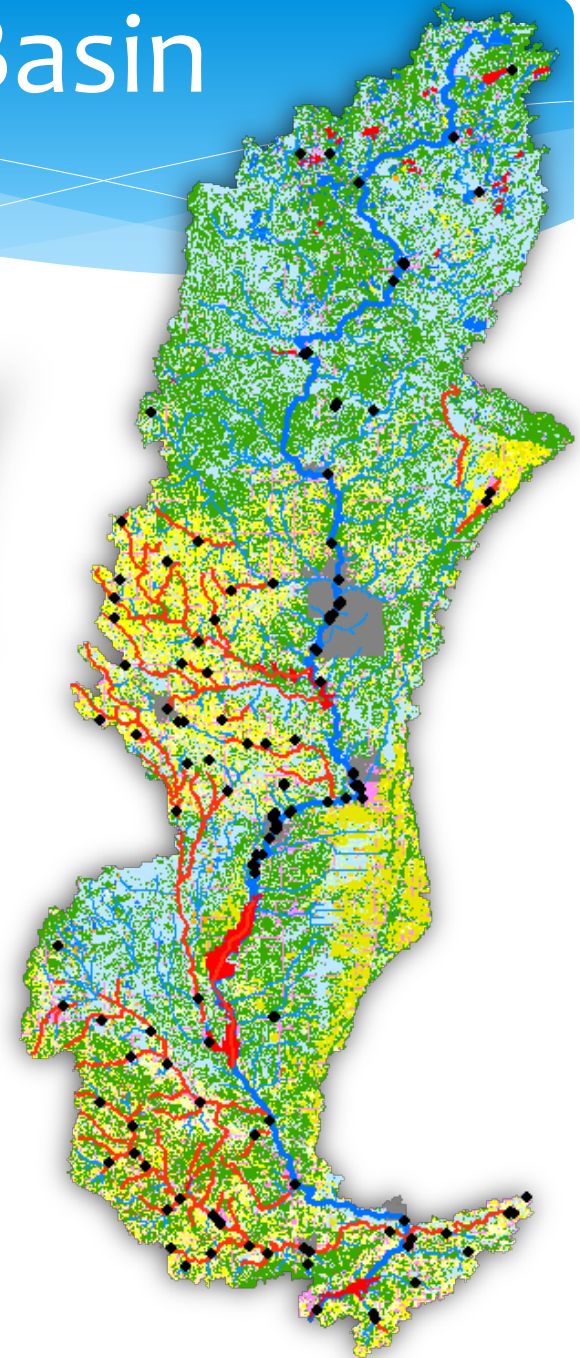
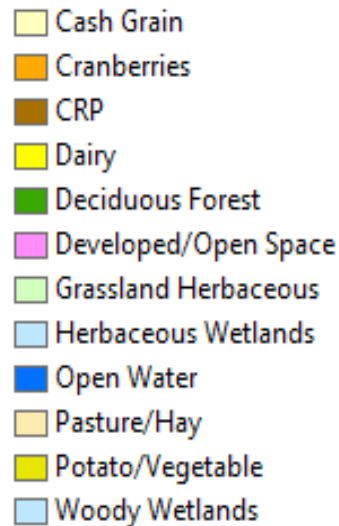
* Permitted MS4s

■ 14 municipalities

* 14 Citizen Groups



Land Cover



Statewide Phosphorus Criteria



Rivers

100 µg/L



Streams¹

75 µg/L



Reservoirs

- Not Stratified = 40 µg/L
- Stratified = 30 µg/L



Inland Lakes²

Ranges from 15-30 µg/L

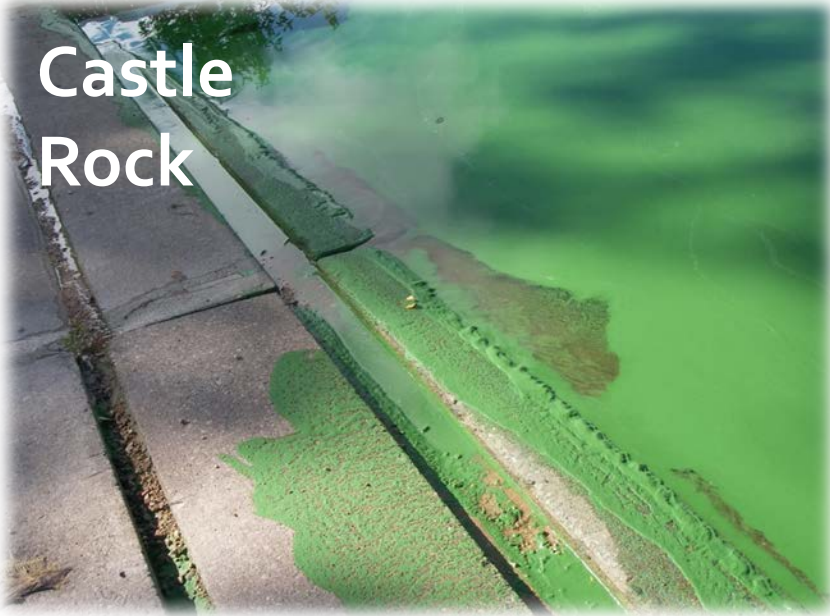


Great Lakes

- Lake Michigan = 7 µg/L
- Lake Superior = 5 µg/L

¹All unidirectional flowing waters not in NR 102.06(3)(a). Excludes Ephemeral Streams.

²Excludes wetlands and lakes less than 5 acres



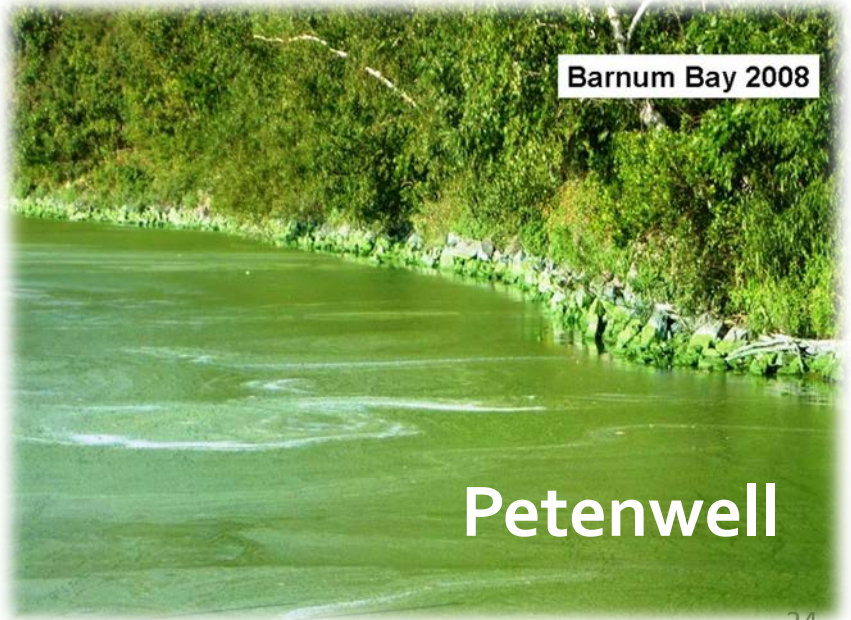
**Castle
Rock**



**Lake
Wisconsin**



**Lake
DuBay**



Barnum Bay 2008

Petenwell

Recommended Site Specific Criteria

Monitoring data for Petenwell, Castle Rock, and Lake Wisconsin indicate that an SSC would be appropriate. Reservoirs currently average 100 µg/L TP.

Reservoir	Existing TP Criterion (µg/L)	Recommended Site-Specific TP Criterion (µg/L)
Petenwell Flowage	40	53
Castle Rock Flowage	40	55
Lake Wisconsin	100	47

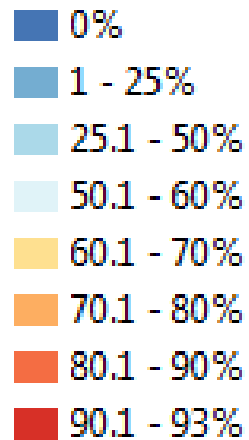
Calculated to support recreational use by preventing excessive algae (Chlorophyll *a* shall not exceed 20 µg/L more than 30% of days during July 15 – Sept 15)

Percent Reduction Maps

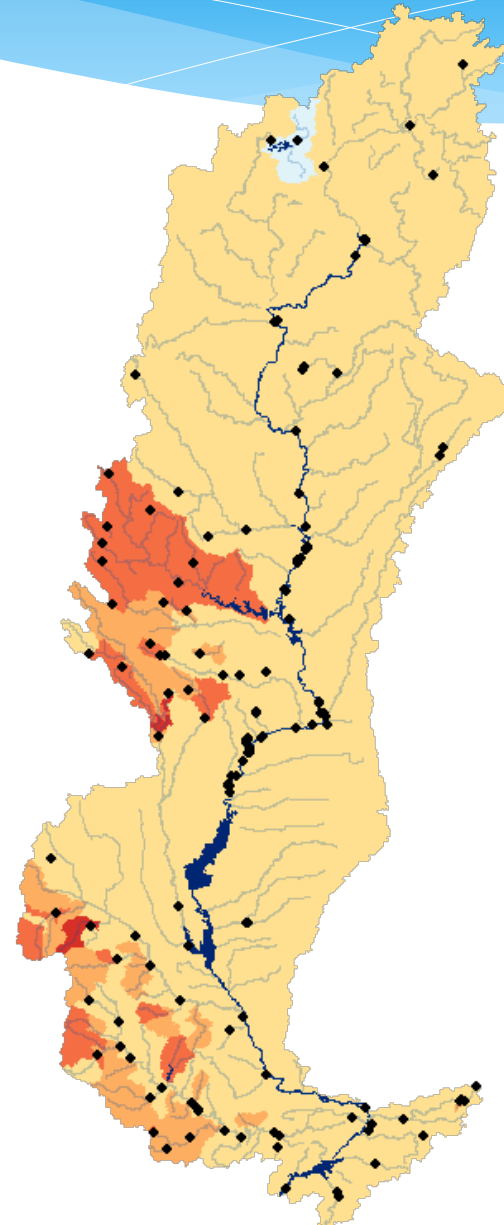
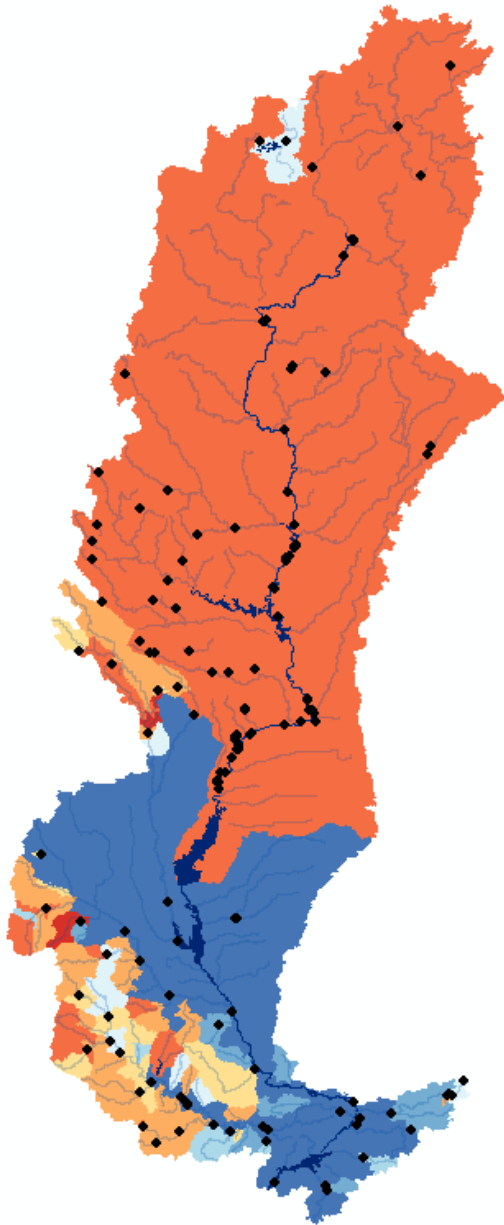
**Current
Criteria**

SSC

Percent Reduction

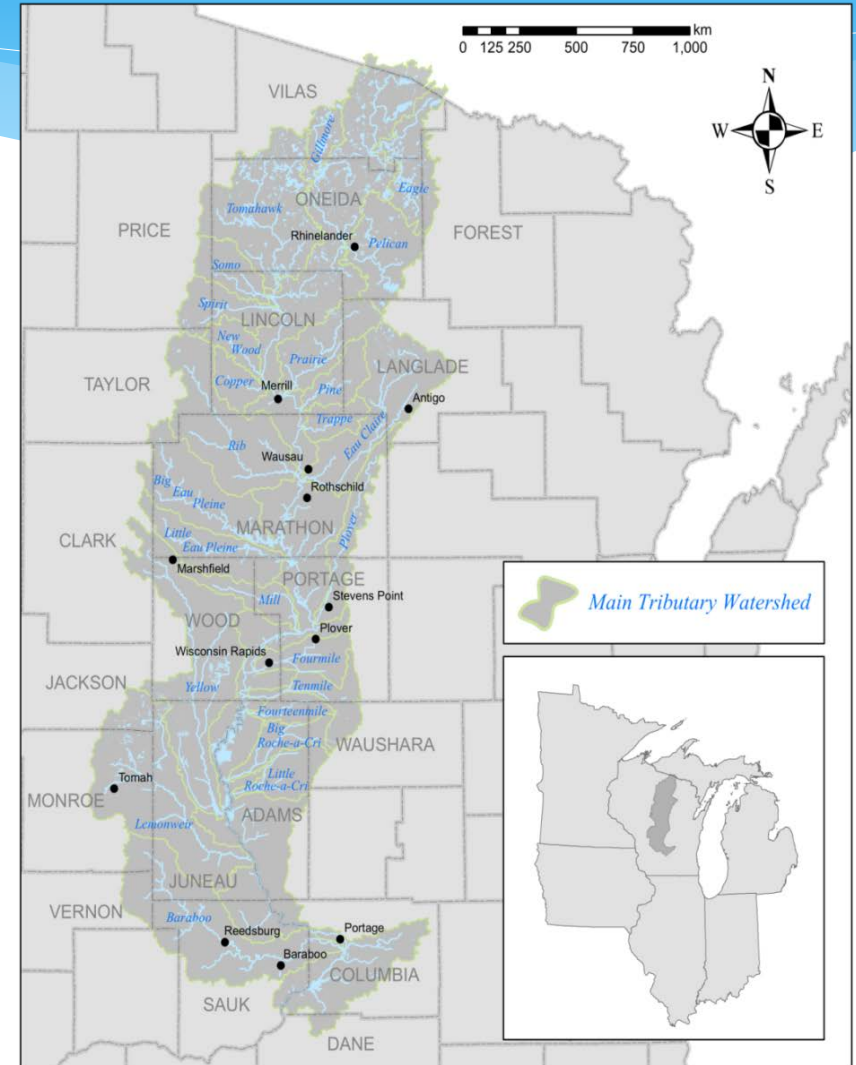


Outfalls



Proposed Roll-Out

- * Meeting with impacted facilities and Paper Council
- * Webinar on Feb 21st
- * Meeting with PACRS (March 2nd)
- * Listening Sessions (March 5th , 6th, and 14th)
- * Official 30-Day Public Informational Hearing Process
- * Finalize TMDL and Send for EPA Approval



Stakeholder Meetings

- * March 5th Stakeholder Meeting in Rhinelander at 1:00 to 4:00 at Quality Inn
- * March 6th Stakeholder Meetings in Stevens Point at the Courthouse Annex Building at 10:00 to 12:00 and 4:00 to 6:00
- * March 14th Stakeholder Meetings in Portage at the Portage Public Library at 10:00 to 12:00 and 4:00 to 6:00

Questions

