

Wisconsin Beach Monitoring Program

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Wisconsin's Coastal Beaches



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Wisconsin Beach Monitoring Program

Beaches Environmental Assessment and Coastal Health (BEACH) Act of 2000

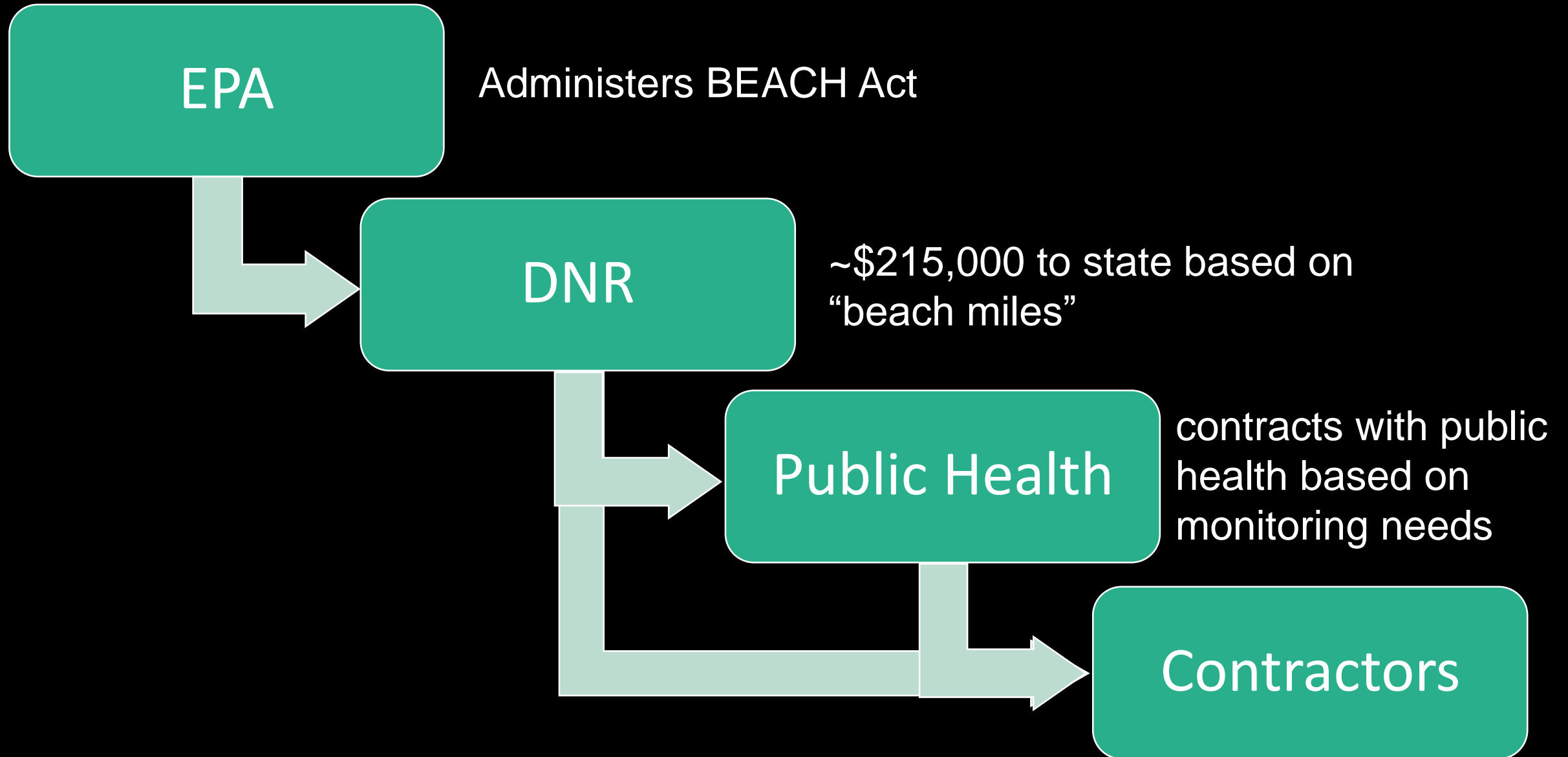


Wisconsin Beach Monitoring Program

Beaches Environmental Assessment and Coastal Health (BEACH) Act of 2000

- Requires list of all identified public coastal beaches posted for review and comment
- Requires monitoring for ***E. coli*** at public beaches
- Requires public notification of water quality
- Requires reporting of water quality information to EPA

Wisconsin Beach Monitoring Program



Wisconsin Beach Monitoring Program

Tier 1

- High priority beaches
- Sample at least 3x/week

Tier 2

- Medium priority beaches
- Sample at least 2x/week

Tier 3

- Low priority beaches
- Sample at least 1x/week

Tier 4

- Lowest priority
- No sampling



Milwaukee, WI | Mark Ponto

Why *E.coli* ?



E.coli Sampling

E. coli sampling follows the BEACH program QAPP

- Middle of typical bathing area at the beach
- Knee depth
- Sampling 6-12 inches below surface of the water



Beach Sampling | UNC Institute of Marine Sciences

Lab Analysis

All sample analyses conducted by State certified labs using EPA approved method

Most probable number (MPN) tests for E. coli:

- ◊ LTB EC-MUG (Standard Methods 9221B.1/9221F)
- ◊ ONPG-MUG (Standard Methods 9223B, AOAC 991.15, Colilert, Colilert-18, and Autoanalysis Colilert)

Membrane filter tests for E. coli:

- ◊ MEndo, LES-Endo, or mFC followed by transfer to NA-MUG media (Standard Methods 9222B/9222G or 9222D/9222G)
- ◊ MI Agar, M-ColiBlue24 Broth



Sanitary Surveys

Sanitary Surveys at time of water sampling

- water clarity (turbidity is optional addition)
- wave height
- weather conditions (e.g. cloud cover, wind, etc.),
- water temperature
- gull counts
- algae in the water



Posting Advisories and Closures

CAUTION: **WATER QUALITY ADVISORY**



FOR YOUR SAFETY

- Swim at your own risk
- Do not ingest lake water
- Shower after swimming
- Wash hands before eating
- Do not swim if you are ill

***Increased risk of illness may be present
Based on recent monitoring for E. coli bacteria***

**FOR MORE INFORMATION:
www.wibeaches.us**



Local public health officials have the authority to post advisories or close beaches

exception: DNR property

Posting Advisories and Closures

WATER QUALITY NOTICE FOR BACTERIA

Posted Sign Colors Indicate Current Advice

ALERTA SOBRE LA CALIDAD BACTERIOLOGICA DEL AGUA

Avisos en Color Indican El Existente Nivel de Alerta

KEV TXHAWJ TXOG KAB MOB NYOB RAU HAV DEJ

Cov Paib Xim Qhia Txog Li Ntawm No



No water quality advisory now
No hay alertas sobre la calidad del agua en este momento
Tsis muaj yam txaus ntshai tam si no



CAUTION - higher risk of illness exists
PRECAUCION - existe un mas alto riesgo de enfermedad
XYUAS ZOO - dej qias heev tsam kis tau kab mob



CLOSED - DO NOT SWIM - Serious risk for illness exists
CERRADA - NO NADE - existe un riesgo serio de enfermedad
NTUG DEJ KAW - Txhob nkag mus tom hav dej tsam kis tau kab mob

www.wibeaches.us



Water Quality Notice



No water quality
advisory now *

No hay advertencia
calidad del agua *

* Stay alert for changing conditions. Swim at your own risk.

* Esté atento a las condiciones cambiantes. Nade bajo su propio riesgo.

www.wibeaches.us

Local contact for
more information

Advisory! Adviso!



Swimming in this water
could make you sick

Swim at your own risk

Nadar en esta agua
podría enfermarle

Nade bajo su propio riesgo

Beach Closed!



Do Not Swim!

No Nade!

www.wibeaches.us

Local contact for
more information

Posting Advisories and Closures

Traditional Sampling:

Advisory: 235 cfu/100 mL

Closure: 1000 cfu/100 mL

Advisory! Adviso!



Swimming in this water
could make you sick

Swim at your own risk

*Nadar en esta agua
podría enfermarle*

Nade bajo su propio riesgo

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Beach Closed!



Do Not Swim!

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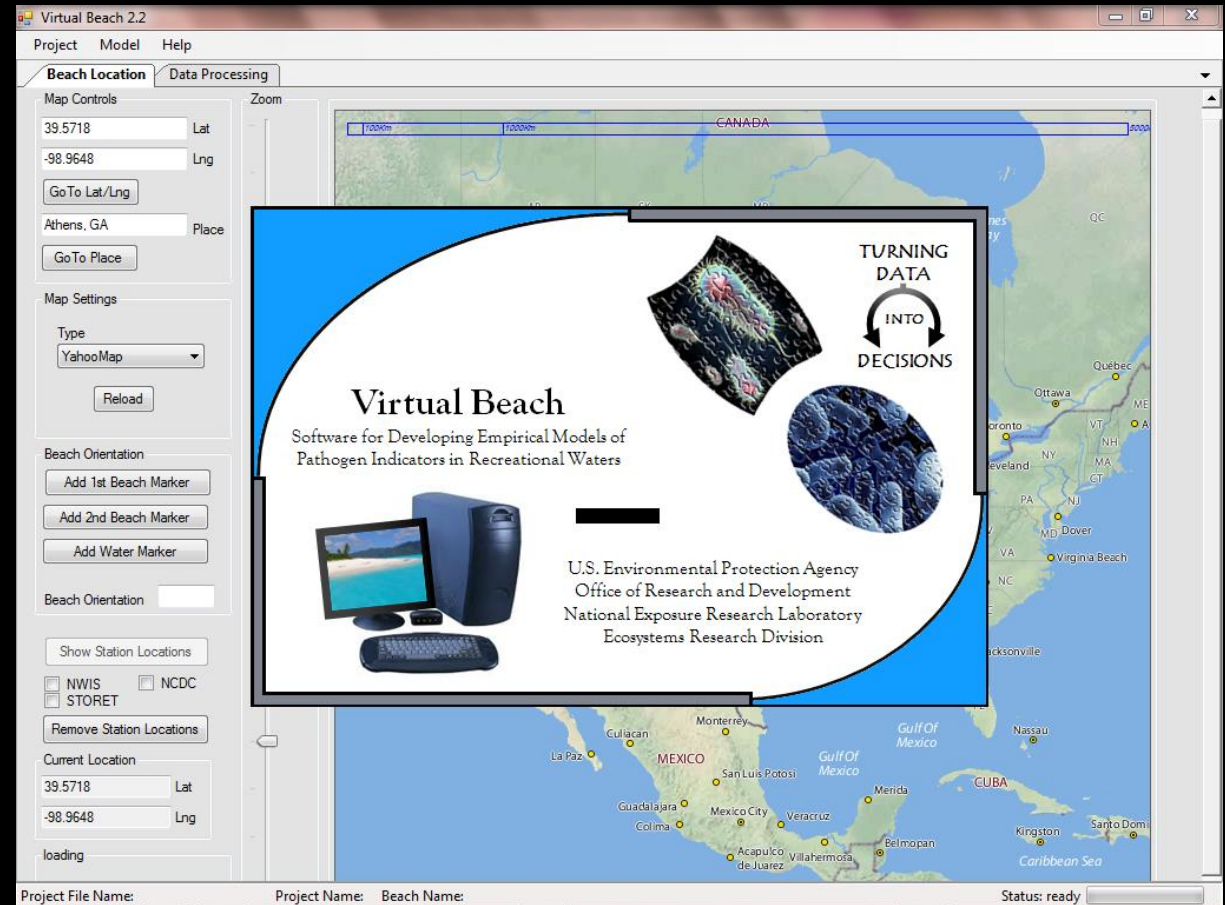
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Nowcast

Beach managers can implement a Nowcast model.

- provides earlier warning
- prediction for every day
- site specific criteria
- still sample for model validation and comparison



Posting Advisories and Closures

Traditional Sampling:

Advisory: 235 cfu/100 mL

Closure: 1000 cfu/100 mL

Nowcast: site specific decision criteria

re-sampling required to remove advisory or closure



Posting Advisories

Public Health has authority to post closures

- harmful algal bloom
- confirmed illness
- unsafe swimming conditions
- major pollution event
- rainfall

Water Quality Notice



No water quality advisory now *

No hay advert
calidad del a

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Do Not Swim!

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www.wibeaches.us

Local contact for
more information

Wisconsin Beach Health

Wisc Beach Health Home

Inland Beach Water Quality

Real-Time Data Links: WI Coastwide

Beach Advisories 2003-Present

Beach Advisory Email Sign Up

RSS Feeds of Beach Advisories

Water Quality E. coli Monitoring Data 2003-Present

Beach Historical Conditions 2003-2008

Historical Data 1999-2002

City and County Health Department Contacts

Questionnaire

Reasons for Advisories/Closures

Beach Nowcasts

News and Events

FAQ (Frequently Asked Questions)

About Beach Health Website


Data Entry (For Beach Managers)

The report below shows Beach Advisories for Great Lakes Beaches. Great Lake beaches receive funding from the US EPA to support monitoring and issuing public Advisories.

If you are interested in beaches that are not on a Great Lake, click the "Inland Beach Water Quality" button on the left. Each county advisories independently. Links to the counties are available through the "City and County Health Department Contacts" link on the left.

[Wisconsin Interactive Map](#)






Launch the map interface to view the latest beach advisory and water quality data by clicking on the Wisconsin image shown below.



View advisories by county -No County Selected-

Beach -Any Beach-

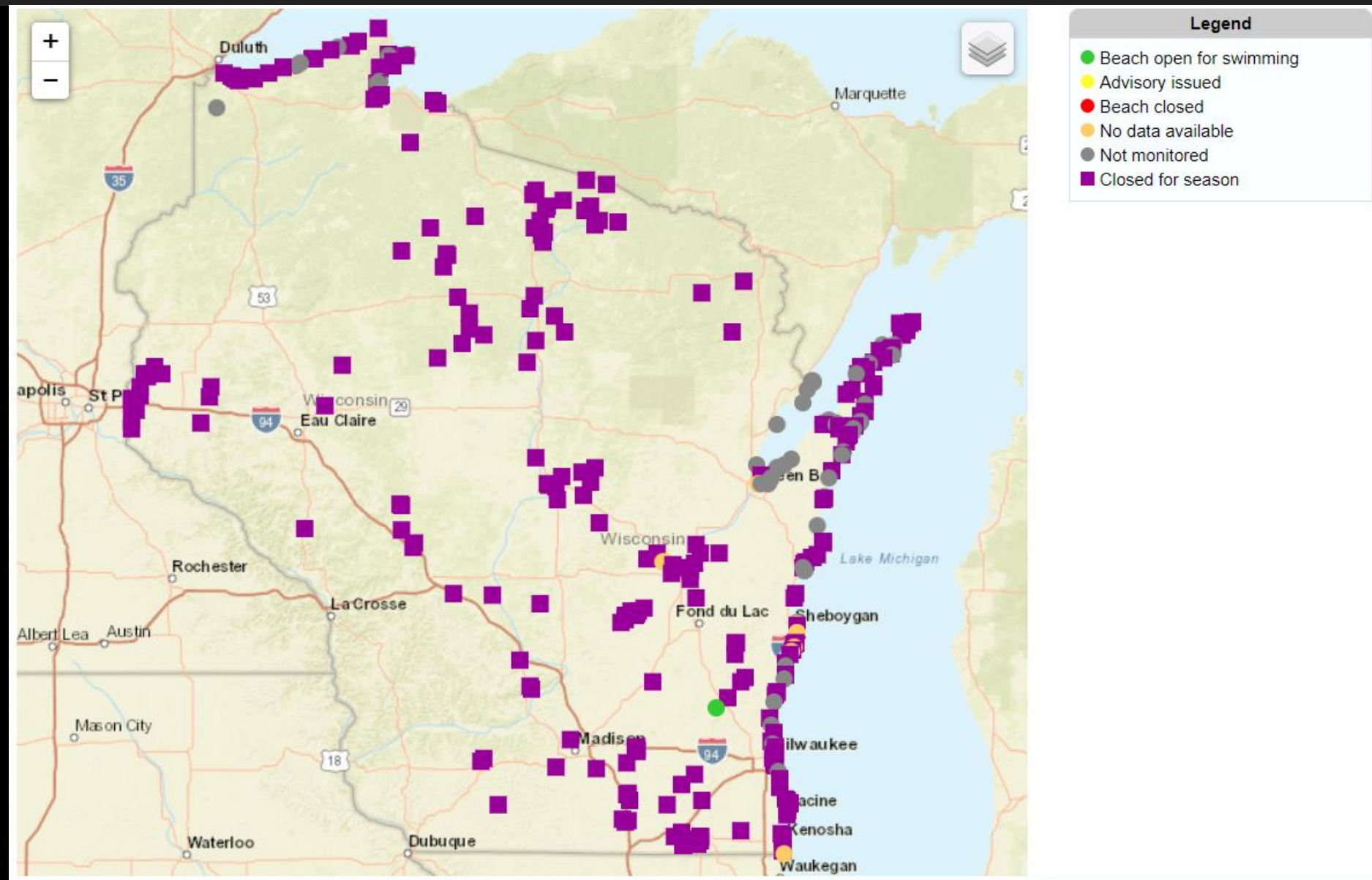
Search

Beach Name	Advisory	Reason	Dates Of This Advisory
Alford Park Beach	 OPEN	Open	06/27/2012 - 07/08/2012
Allouez Bay Beach 3	 OPEN	Open	07/05/2012 - 07/08/2012
Amnicon River Beach	 OPEN	Open	06/24/2012 - 07/08/2012
Amsterdam Beach	 OPEN	Open	05/25/2012 - 07/08/2012
Anclam Park Beach	 OPEN	Open	06/20/2012 - 07/08/2012

Check out the great **BEACH POSTERS** from a group of Kenosha students! [Click here for Beach Posters](#)

Internet | Protected Mode: On

100%



Beach Advisory Report


Beach Advisories are issued at some of the Wisconsin Beaches along the Great Lakes. Advisories notify the public when a beach is open, closed or a warning has been issued. Visit the website for more information. Contact your local county health department for more information. (See links on the left for websites and phone numbers)


Beach Advisory Data on this website for the current beach season are preliminary and have not received final quality testing and approval. Data on this website from 2003 - 2011 have received final approval.

Beach Advisory Data can be retrieved from 2003 to 2012. Pick the county, beach and/or date range. Reports can be downloaded by clicking the "Download to csv File" link at the bottom of the report.

County


Beach

Start Date 

End Date 

County	Beach Name	Start Date	Advisory	Reason for issuing advisory	Comments	Indicator
Ashland	Maslowski Beaches	09/03/2018 08:42	End of Season			
Ashland	Maslowski Beaches	08/28/2018 09:03	Warning Advisory	Monitoring revealed elevated bacteria levels		Measured E. Coli
Ashland	Maslowski Beaches	08/25/2018 10:56	Open	E. coli criteria not exceeded		Measured E. Coli
Ashland	Maslowski Beaches	08/20/2018 12:46	Closed	Monitoring revealed elevated bacteria levels		Measured E. Coli
Ashland	Maslowski Beaches	08/14/2018 14:22	Open	E. coli criteria not exceeded		Measured E. Coli
Ashland	Maslowski Beaches	08/07/2018 09:00	Warning Advisory	Monitoring revealed elevated bacteria levels		Measured E. Coli
Ashland	Maslowski Beaches	08/02/2018 09:23	Closed	Monitoring revealed elevated bacteria levels		Measured E. Coli
Ashland	Maslowski Beaches	07/24/2018 08:45	Open	E. coli criteria not exceeded		Measured E. Coli
Ashland	Maslowski Beaches	07/10/2018 09:30	Warning Advisory	Monitoring revealed elevated bacteria levels		Measured E. Coli
Ashland	Maslowski Beaches	07/05/2018 09:35	Open	E. coli criteria not exceeded		Measured E. Coli
Ashland	Maslowski Beaches	07/03/2018 11:01	Warning Advisory	Monitoring revealed elevated bacteria levels		Measured E. Coli
Ashland	Maslowski Beaches	06/26/2018 10:56	Warning Advisory	Monitoring revealed elevated bacteria levels	Geometric mean above 126 MPN	Preemptive
Ashland	Maslowski Beaches	06/18/2018 12:18	Closed	Advisory/closure due to rainfall	Flooding/Unsafe access	Measured E. Coli
Ashland	Maslowski Beaches	06/08/2018 08:49	Open	E. coli criteria not exceeded		Measured E. Coli
Ashland	Maslowski Beaches	06/01/2018 12:36	Warning Advisory	Monitoring revealed elevated bacteria levels		Measured E. Coli

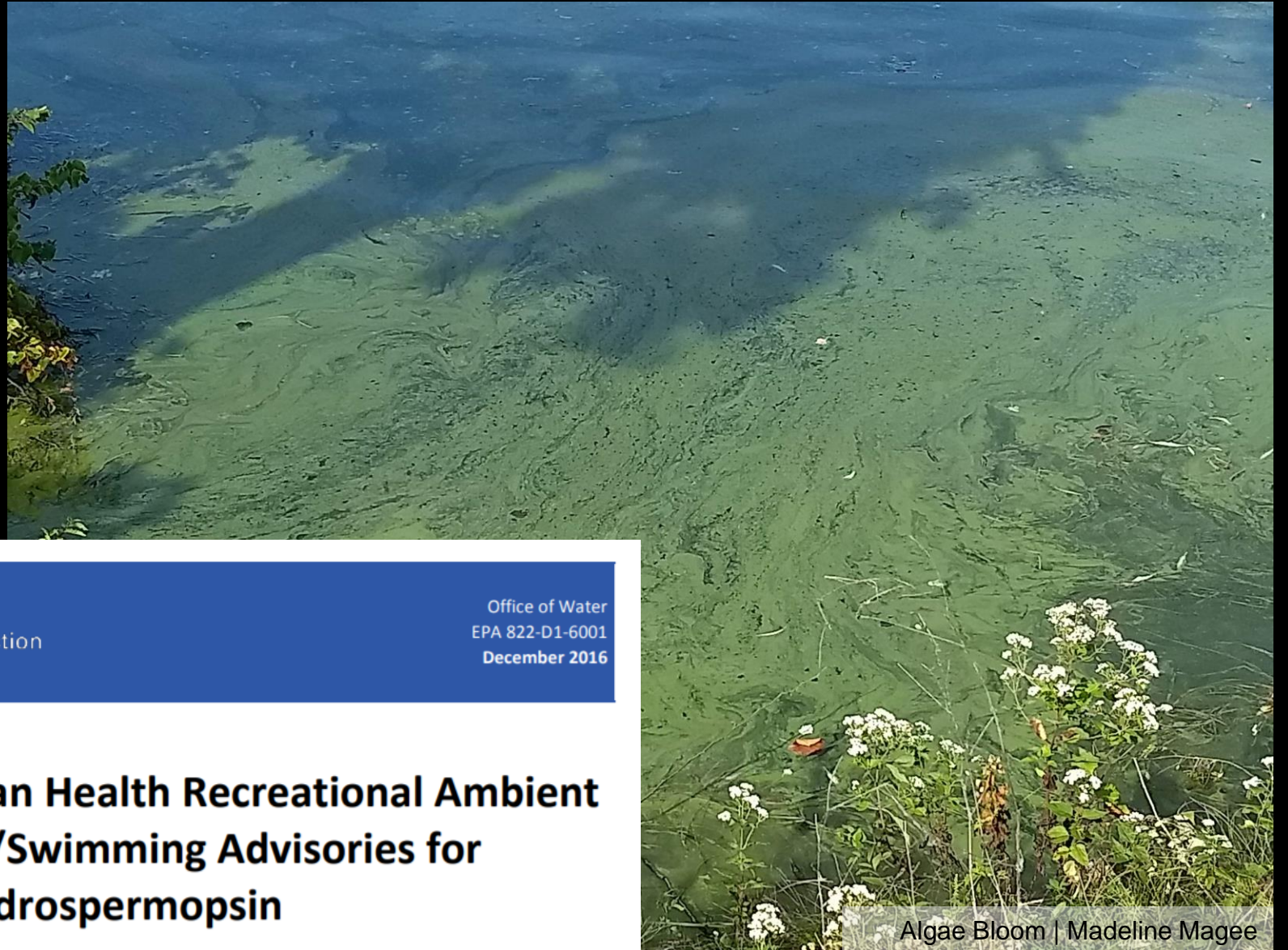
[Download to CSV](#)

row(s) 1 - 15 of 16 

Monitoring for HABs

Currently no criteria for cyanobacteria or cyanotoxins

Beach program does not require monitoring for HABs



Office of Water
EPA 822-D1-6001
December 2016

Fact Sheet: Draft Human Health Recreational Ambient Water Quality Criteria/Swimming Advisories for Microcystins and Cylindrospermopsin

Algae Bloom | Madeline Magee



Apostle Islands | Ann Runyard