



Submission deadline is October 31, 2010

http://www.drbeach.org/gl_reg.htm

Top 10 Beaches

Dr. Beach's 50 Beach Criteria

Your Beach Prescription

All About Beaches

Beachfinder

About Dr. Beach

Do You Represent A Beach Or Municipality In The Great Lakes Region? Tell Us About Your Beach.

Beginning in 2011, Dr. Beach will be announcing the Top 10 Beaches Of The Great Lakes Region and we want to ensure that your beach is considered. If you represent a beach destination or municipality (for example: CVBs, DMOs, TRDs or business chambers), please complete the form below. We will then provide you with an information form that provides Dr. Beach with important details about your beach, so that he might better evaluate it in accordance with his set criteria. We hope that you are excited about next year's list. We certainly are!

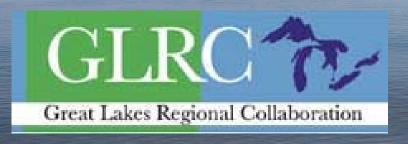
Submissions Deadline is October 31, 2010.

BEACH INFORMATION	ı			
Beach Name:	6			
Beach Location:				
YOUR CONTACT INFO	DRMATION:			
Your Name:				
Email address:	*		<u></u>	



Builds on 5 years of work...

Great Lakes Interagency Task Force



Great Lakes Regional Collaboration Strategy



To Restore and Protect the Great Lakes



Map Image Courtesy of GLIN











A story of collaborations...

Federal Collaboration on Beach Health in the Great Lakes

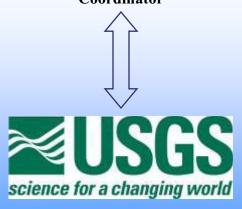


Remediation, Decision Support, & Environmental Research

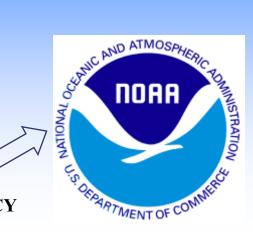


BEACH HEALTH INTERAGENCY COORDINATION TEAM

Beach Water Quality
Forecasting
Coordinator



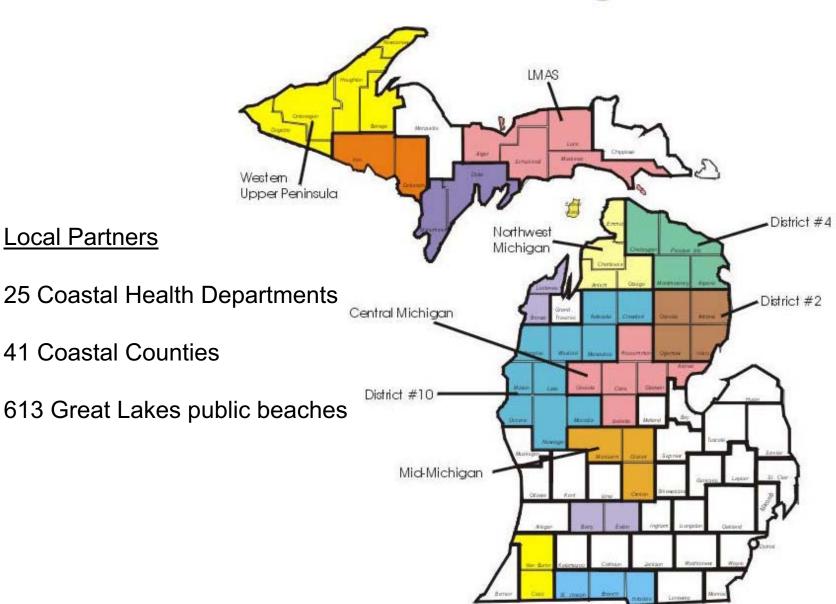
Monitoring & Modeling Research



Operational Forecasting & Research

Courtesy of David Rockwell

Local Health Departments



Local Partners







- in Areas of Concern
- scheduled for a TMDL
- at risk for the 303(d) list
- need better monitoring

Great Lakes Monitoring Frequency

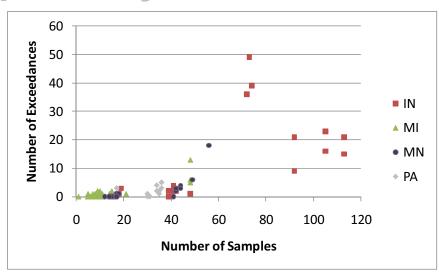
Each point represents a single 2008 beach location

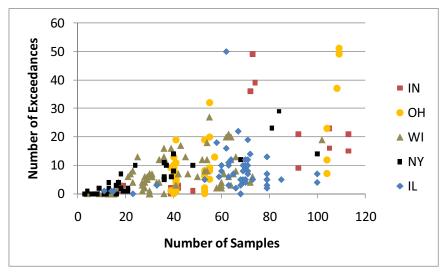
Results may be influenced by frequent monitoring at highly urban beaches

 However, some frequently-monitored beaches have fewer than 5 yearly exceedances

May be difficult to interpret data where monitoring takes place fewer than 3 days a week (45 samples)

Meredith B. Nevers
USGS, Great Lakes Science Center
Sheridan K. Haack
USGS, Michigan Water Science Center





Identify Potential Contamination Sources

Investigate areas with high counts

Initial thoughts are on storm water and
nonpoint sources

Other sources
Site-specific sources



Provided foundation for all projects

- 1.Improve use of sanitary surveys, wet weather monitoring, initiate source tracking, increase frequency of monitoring
- 2. Source Tracking at TMDL & at risk beaches
- 3. Fix the problems (bulldozers, engineers)

Beach Sanitary Surveys

Improve use of sanitary surveys, wet weather monitoring, initiate source tracking, increase frequency of monitoring



Lake St. Clair - New Baltimore Park Beach

The following advisory is in effect:

Closure

Start Date: 9/14/2010

Issued By: Macomb County Health Department

Comment:

New Baltimore Park Beach is monitored by Water Bureau, MDEQ

this year.



Beach Detail

BeachGuard

Closures and Advisories

Sampling Results

Monitoring

Surveys

Beach Details

Beach Name: New Baltimore Park Beach

Beach Description:

Facilities:

Accessibility: Public Owned, Public Access

Other Information:

Beach Location

Central Latitude/Longitude: 42.67757 / -82.73396 View Map

Macomb County:

Township: **New Baltimore**

Ownership Type:

Park Name:

Other Information

EPA PRAWN Beach ID: MI000560



Lake St. Clair - New Baltimore Park Beach

Home

The following advisory is in effect:

Closure

Start Date: 9/14/2010

Issued By: Macomb County Health Department

Comment:

New Baltimore Park Beach is monitored by Water Bureau, MDEQ

this year.



Beach Detail | Closures and Advisories | Sampling Results | Monitoring | Surveys

Display Surveys for Year: 2010

Survey Performed On: Surveyor(s)

10/15/2010 10:12 AM shannon

Lake St. Clair - New Baltimore Park Beach

Monitoring Point: 7337

Survey Performed On: 10/15/2010 at 10:12 AM



Beach Conditions

Temperature: 78° F Wind Speed: 10 mph Direction: 15

Last Rain: 1.2in occurred <24 hours ago

Rain Intensity: Misting
Weather Cond.: Partly Sunny
Wave Intensity: Calm

Wave Height:

Longshore Speed: 15 cm/sec

Direction: 15

Comments:

Surveyor(s): shannon Surveyor Affiliation:

Water Conditions

Water Temp.: 56° F Change in Water Color?

Water Odor: None
Turbidity: Slightly Turbid

NTU:

Comments:

3

Bather Load

People in the water:50People out of the water:50Total People:100

Bather Comments:

Bather Activity

Number Of People



Potential Pollution

Name Conduit Amount Flow Rate Volume Characteristics

Bacteria found in above sources: Yes

Floatables:

Debris/Litter:

Debris Amount: Low (1-20%)
Algae in Nearshore Water: Low (1-20%)
Algae on Beach: Low (1-20%)

Algae Types:

Algae Color: LT_GREEN

Dead Fish Found: Pollution Comments:

Wildlife Type Number Present

Bird Type

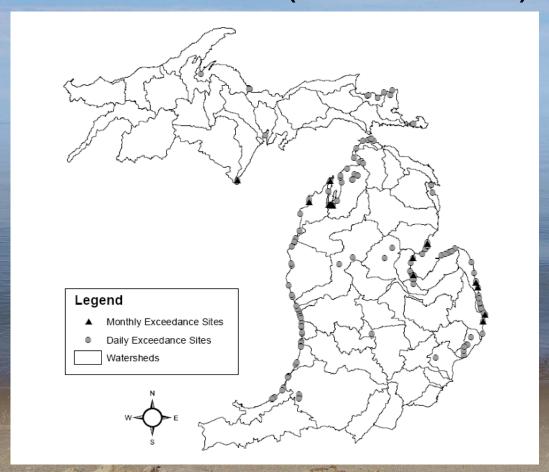
Number Found Dead

Print

Return to Beach Details

Beach Sanitary Surveys

Source Tracking with MSU at 14 beaches (AOC,TMDL)



Beach Sanitary Surveys

Grand Haven City Beach, Grand Haven State Park Beach, and Rosy Mound Recreation Area Beach In Ottawa County

Pier Park Beach in Wayne County

Metropolitan Beach & Memorial Park Beach in Macomb County

Bay City Recreational Area Beach, Whites Beach, & Caseville County Park Beach in Saginaw Bay

Four Mile Beach & Sugar Island Township Park Beach in Chippewa County

Traverse City State Park Beach, Bryant Park Beach, & East Bay Park Beach in Grand Traverse Bay



Developing & Integrating Models: 5 beaches





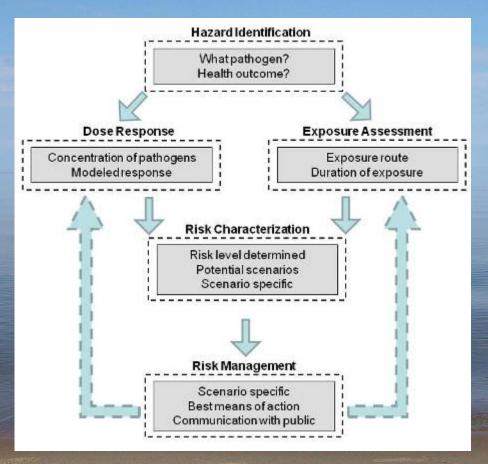






Forecasting Beach and Nearshore Health Effects Using QMRA

Quantitative Microbial Risk Assessment

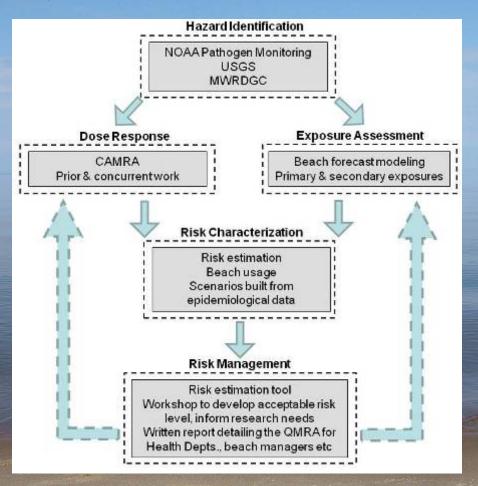


Mark H. Weir Ph.D. Joanna M. Pope Ph.D.



Forecasting Beach and Nearshore Health Effects Using QMRA

Quantitative Microbial Risk Assessment



Mark H. Weir Ph.D. Joanna M. Pope Ph.D.



Center for Advancing Microbial Risk Assessment

Communicating Beach Data to the Public 1 of 5 selected proposals

Healthier Great Lakes Beaches

- 1. Training Videos for Rapid Methods
 - > qPCR and IMS-ATP
- 2. Workshops & Online Material
 - > Journalists and Beach Managers
- 3. In-depth News Coverage
 - Beach and Nearshore Health Issues



Rapid Methods 1 of 5 selected proposals

Building Beach Manager's Capacity for Using Rapid Tools

Training effort from a collaboration of members of the

Great Lakes Beach Association

Onsite Training and Technical Assistance
QA/QC
How to Manual
Online Tools, References, & Resources
Production will eventually provide online Training video and DVD

Rapid Methods Training

PI: Shannon Briggs

CoPI: Asli Aslan-Yilmaz



CoPI: Erin Dreelin



Designing the workshop materials, lecture in the workshops. development of the how to manual, perform the on-site training, Co-ordinate the intercalibration study between the health departmentsbetween health departments.

Oversee the communication with the health departments, facilitating the workshops.

CoPI: Irene Xagoraraki

Oversee the methodology in training tools, lecture in the workshops

Advisor: Julie Kinzelman

Assist with the development of the "how to manual", lecture in the workshops

Advisor: Donna Francy

Coordinate with USGS workshops

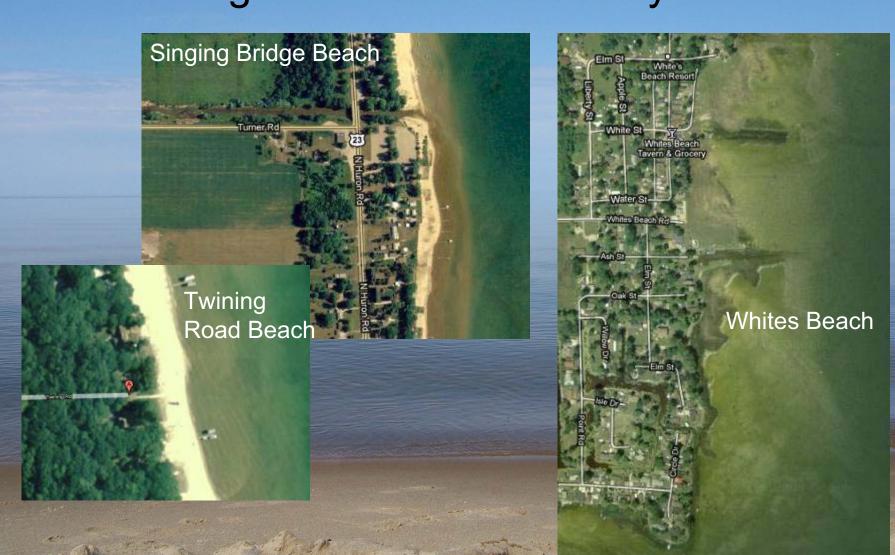


HEALTH DEPARTMENTS AND RELEVANT BEACHES

- -Ottawa County Health Department (Lake Michigan)
- -Health Department of Northwest (Lake Michigan, Grand Traverse Bay, Lake Huron)
- -Bay County Health Department (Saginaw Bay, Lake Huron)
- -Macomb County Health Department (Lake St. Clair)
- -Chippewa County Health Department/Lake Superior State University (Lake Superior, St Marys River)









Beach Sanitary Surveys Bryant Park Beach Remediation



Traverse City, MI 49684 Tele 231.935.1514 Fax 231.935.3829

GT Bay Blog

The Watershed Center

Good Afternoon. Today is Friday, October 15, 2010 | Log In | Print

Watershed Center Grand Traverse Bay



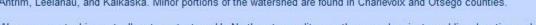
advocacy. Because it's all about the Bay!

The Watershed Center advocates for clean water in Grand Traverse Bay and protects and preserves its watershed.

The Watershed Center has worked since 1990 to protect our Grand Traverse Bay region's water quality--and our quality of life.

The Bay's watershed encompasses nearly 1,000 square miles and covers major portions of 4 counties: Grand Traverse, Antrim, Leelanau, and Kalkaska, Minor portions of the watershed are found in Charlevoix and Otsego counties.

We use every tool in our toolbox to protect our Up North water quality: on-the-ground projects, public education and













PARTNERS: The OCHD will collaborate with researchers at the National Oceanic and Atmospheric Administration, the United States Geological Survey, the Michigan Department of Natural Resources and Environment, and the University of Michigan, and Michigan State University.

Researchers from those organizations have expressed interest in accessing data gathered through this sanitary survey project to create water quality forecasting and/or predictive modeling tools. Once created, those tools will empower the OCHD to make more effective and timely public health decisions to protect nearshore health.

PLAN: This sanitary surveying project will use the EPA's standardized form and will call for measurements of a number of environmental and meteorological data present during the time of sampling. Water samples for *E. coli* and enterococci bacteria will also be collected during the sanitary surveys and processed at the OCHD. Those surveys will be conducted four times per week at both beaches during the twenty week summer swim season. The OCHD will conduct this project during the summers of 2010 and 2011.

PROGRESS:

Reduction in number of beach closures or advisories issued;

Development of other water quality management tools with the data collected, such as forecast models, at project beaches;

Reduction of pollution sources impacting Great Lakes beaches;

PROGRESS (continued):

Improved water quality at Great Lakes beaches due to reduction in pathogen indicator organisms, algal, and chemical contamination;

Improved protection of public health at Great Lakes beaches;

Increased coordination and collaboration among water and health departments;

Increased knowledge of sources of pollution impacting Great Lakes beaches for better beach management decisions.

