



NATIONAL WATER QUALITY MONITORING COUNCIL

*Working Together for Clean Water*

# Selected Accomplishments and Priorities Through 2011

Presentation to  
Advisory Committee on Water Information  
July 13, 2011

# Leadership Updates

- ▶ **USGS Council Co-chair**
  - Pixie Hamilton (outgoing)
  - Mike Yurewicz (current)
- ▶ **Collaboration & Outreach Co-chair**
  - Tracy Hancock (outgoing)
  - Dave Tucker (outgoing)
  - Cathy Tate (current)
  - Barb Horn (current)
- ▶ **Executive Secretary**
  - Doug Glysson (outgoing)
  - Cathy Tate (current)



# Overview

- ▶ Gulf of Mexico
- ▶ Water Information Strategy
- ▶ Methods and Data Comparability Board
- ▶ National Monitoring Network
- ▶ Collaboration & Outreach/2012 Conference
- ▶ EPA–USGS Water Quality Portal



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# Gulf of Mexico

Special focus in 2010/2011

Susan Holdsworth, EPA Council Co-chair



# Objectives

- ▶ Share experience in emergency response
- ▶ Explore dialogue for long-term monitoring needs
- ▶ Discuss range of environmental issues
  - Spill impact and effects
  - Hypoxia
  - Nutrients
  - Baseline
- ▶ Identify connections to the NWQMC

# Organizations

<b>National</b>	EPA	NOAA	National Park Service	USDA	USGS
<b>Regional</b>	Gulf of Mexico Alliance (Gulf States Consortium)	Gulf of Mexico Coastal Ocean Observing System	Gulf Restoration Task Force (Federal, State, Local)	Hypoxia Task Force (Mississippi River and Gulf States)	Gulf Restoration Initiative (BP grants to academia)
<b>State</b>	Louisiana Department of Environmental Quality	Florida Coastal Ocean Observing System	Florida Department of Environmental Protection	Mississippi Department of Environmental Quality	Alabama
<b>Academic</b>	Louisiana Universities Marine Consortium	Florida Institute of Oceanography Consortium	National Aquarium, Johns Hopkins, MOTE Marine Laboratory	Northern Gulf Institute	University of South Alabama, Dauphin Island Marine Environmental Sciences Consortium

# Opportunities

- ▶ Lessons learned from response to BP spill
- ▶ Promote use of common data elements and standards as key to efficient data sharing
- ▶ Garner commitments to long-term monitoring of core and regionally-relevant supplemental indicators
- ▶ Encourage organizational collaboration to form a monitoring council to implement the National Monitoring Network for Coastal waters in the Gulf of Mexico



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# Water Information Strategies Workgroup

Peter Tennant and Mary Skopec, Co-chairs

# Outcome of working group

- ▶ Resolution to establish a network of surface-water-quality reference sites

# Discussion Topics

- ▶ Monitoring Spills – Lessons learned
- ▶ Use of Volunteer Monitoring Information
- ▶ Inventory of States' Monitoring Data
- ▶ Monitoring Needs for Water Quality Management Programs
- ▶ Reporting of Monitoring Information
- ▶ Monitoring Implications of Proposed New Pathogen Criteria.



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# Methods and Data Comparability Board

Dan Sullivan, USGS, Chair



# Aquatic Sensor Workgroup

- ▶ USGS/CUAHSI workshop on optical sensors, June 2011
- ▶ Specifications – submitted proposal to ASTM D-19 committee. Next meeting Jan. 2012
- ▶ Data Elements
- ▶ [watersensors.org](http://watersensors.org) website
- ▶ Sensors Web Portal – ACT/NEMI collaboration



# MEMO

Methods for Environmental Measurements and Observations

## Sensor Details

### pH Sensor Aquamatic



**Accuracy:** +/-0.02  
**Resolution:** 0.003  
**Range:** 2 - 12  
**Operating Temperature:** - 5 degC to + 80 degC  
**Depth Capability:** 175 dbar or 250 psi (max 700 dbar or 1000 psi at 25 degC)  
**Dimensions:** Length: 185 mm, : 25 mm  
**Web Site:** [pH Sensor](#)

## Sensor Description

The AQUAMATIC "SPECTRA" pH sensor AQPH-E1B1Z offers the most advanced design of pH glass electrodes available. The sensing element consists of a unique peripheral Porous Teflon liquid junction with matched viscosity electrolyte combined with a specially formulated, low impedance glass membrane which permits this sensor to be used in the broadest spectrum of pH applications. Features include a pressure stable and waterproof construction designed for easy maintenance. Small dimensions, good linearity, high accuracy and good long time stability. Isopotential point at pH 7.00 + 0.02 - The construction permits extended periods of pH measurements where the presence of "POISONING ION" or "MEMBRANE LEECHING" conditions exist which will shorten life of a conventional electrode.

## Manufacturer's Information

Aquamatic  
 Vibevej 22

## NEMI Method Analytes - Performance Information

NEMI Method	Analyte	Accuracy	Precision	DL
150.1	pH	100 % Rec (ML)	.8 % RSD (ML)	NA
8156	pH	NA	NA	NA

## NEMI Method Description

**Method Number:** 150.1

**Descriptive Name:** pH in Water by Electrometric Method

**Official Name:** pH, Electrometric Method

**Description:** The pH of a sample is determined electrometrically using either a glass electrode in combination with a reference potential or a combination electrode.

**Scope and Application:** This method determines the pH of drinking, surface and saline water; and domestic and industrial wastes and acid rain (atmospheric deposition).

**Method Number:** 8156

**Descriptive Name:** pH in Water

**Official Name:** pH in Water Using a Portable Hach One Meter; Two-Standard Calibration in Automatic Mode With Temperature Probe

**Description:** This method requires the use of an electrode and pH meter.

**Scope and Application:** This method is applicable to determining pH in drinking water, surface and ground waters, and domestic and industrial wastewaters.





# Statistical NEMI

- ▶ Joint effort of WIS and Methods Board
- ▶ Phase I: Statistical NEMI
- ▶ Phase II: Decision support tool?



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# National Monitoring Network for U.S. Coastal Waters and Their Tributaries

Mike Yurewicz, USGS, Council Co-chair and  
Donna Myers, USGS, Office of Water Quality

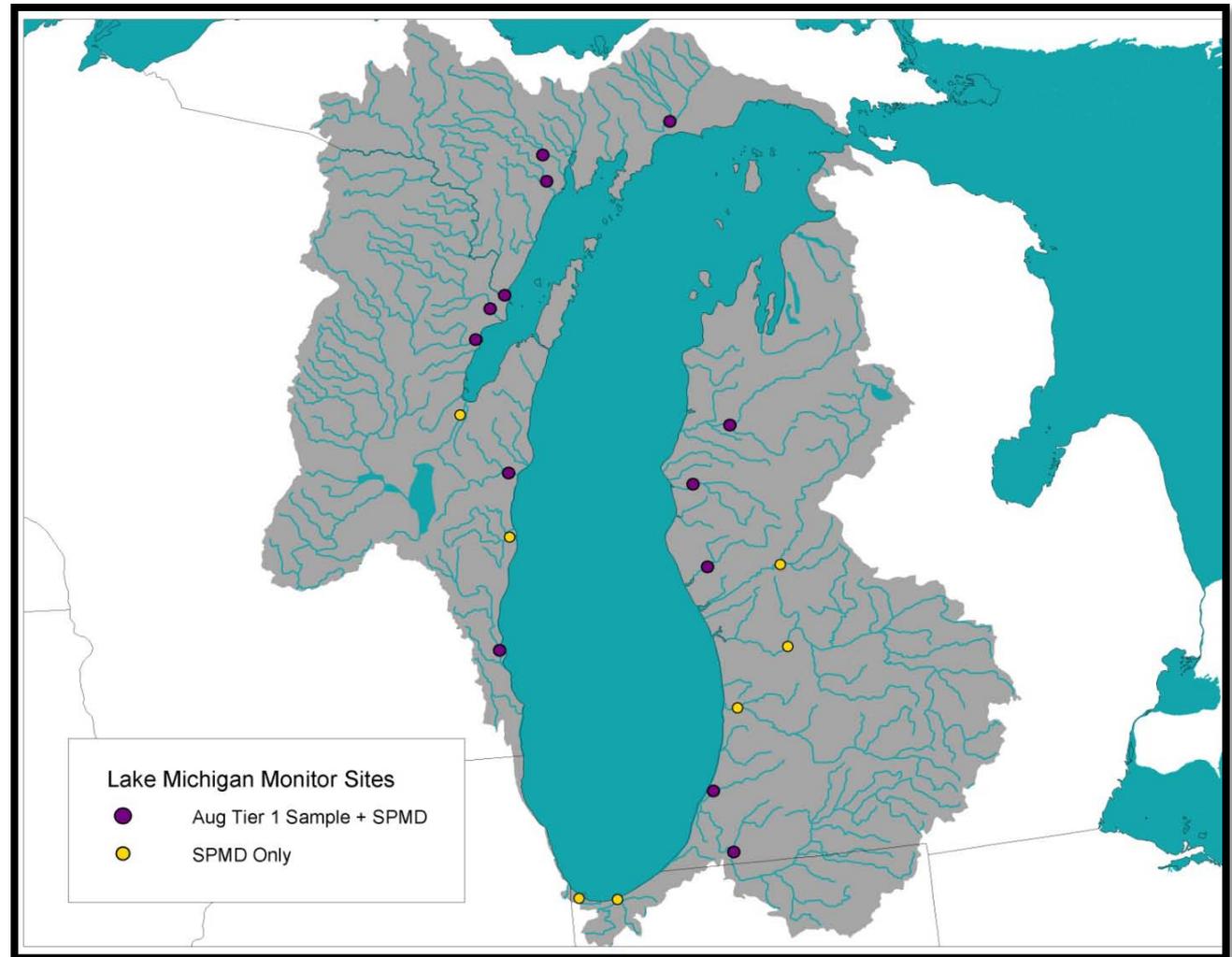


# Current Coastal Studies

- ▶ Status and plans of each of the 3 ongoing studies (San Francisco Bay, Lake Michigan, and Delaware Estuary) were reviewed in June
- ▶ Each study will:
  - Recommend their top-priority core monitoring element to continue;
  - Complete data analysis;
  - Articulate lessons learned; and
  - Synthesize findings in a fact sheet.

# Lake Michigan Rivers Network

- ▶ 20 sites
- ▶ Includes a representative variety of land uses
- ▶ Includes 72% of tributary inflow, relative to 90% for NMN on other coasts

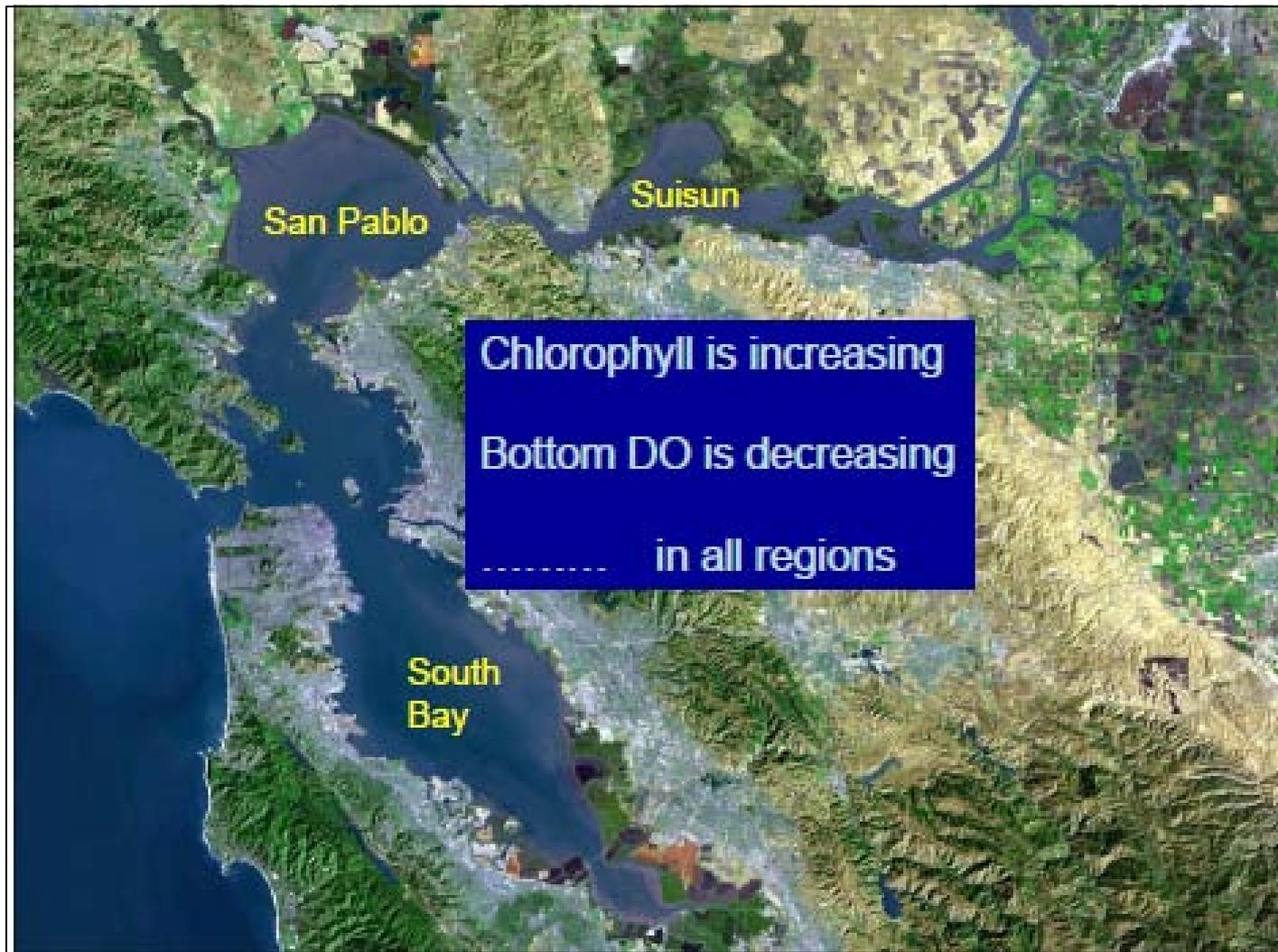




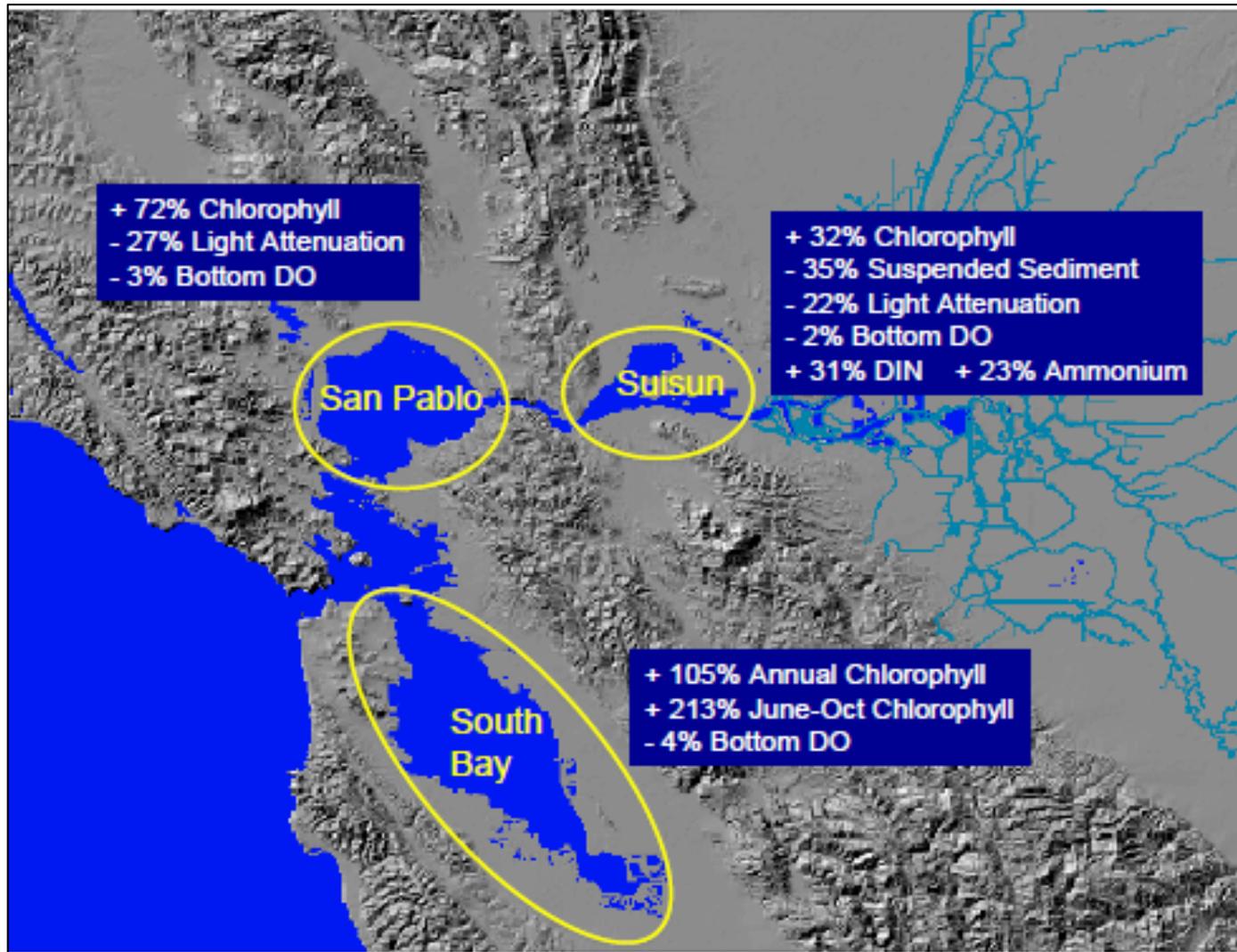
# 2011: Collaborations Continue

- ▶ Nutrient transport – Rivermouth Estuaries
  - Provide flow and AUV in support of ecological research in rivermouth estuaries
- ▶ New technologies
  - AUVs and ADCPs
    - Connect flow and chemistry dynamics
    - Understand Hg dynamics
- ▶ Augment Great Lakes Restoration Initiative samples at 11 sites
  - Chlorophyll

# San Francisco Bay



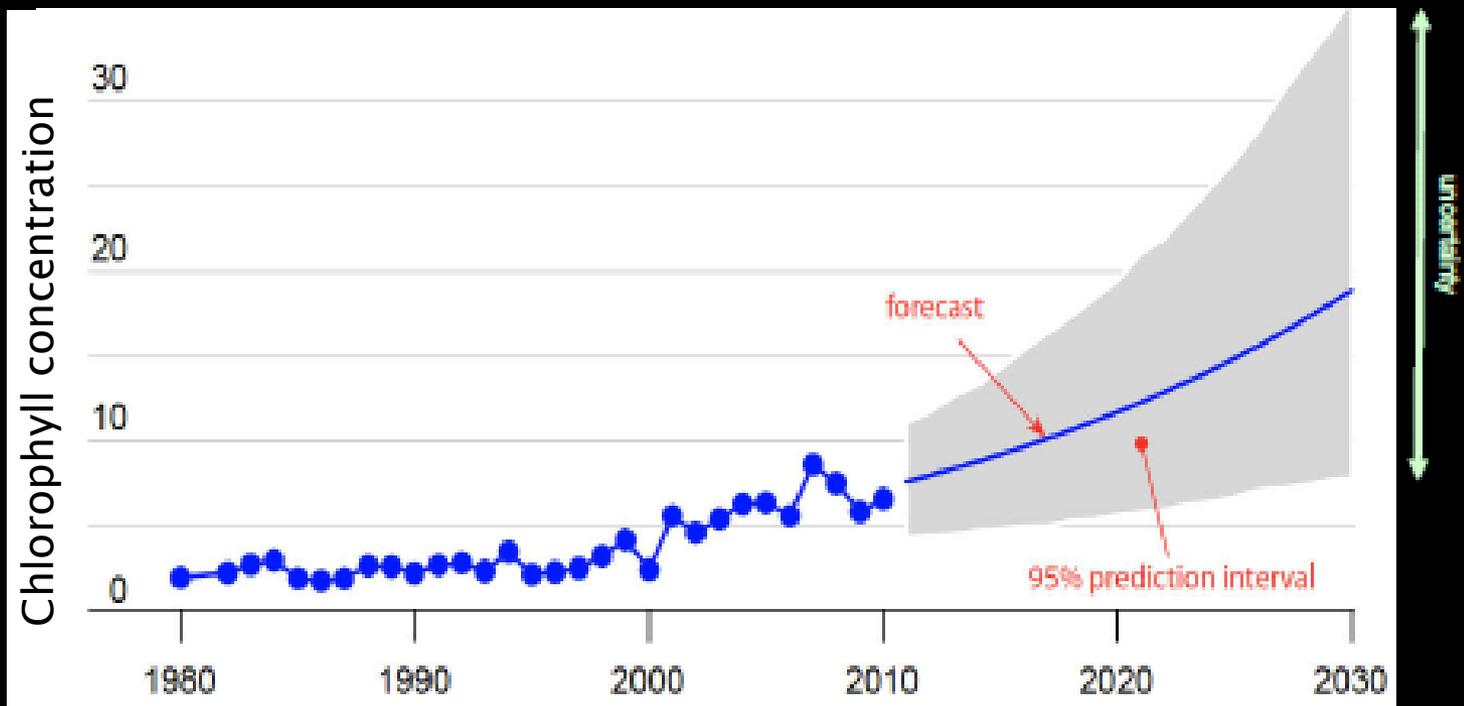
# San Francisco Bay



# San Francisco Bay

Will these trends continue?

Will San Francisco Bay's water quality become impaired by nutrients?





# Plans for New Studies

- ▶ 1 or 2 new studies will start in 2012
- ▶ Candidate studies will be based on five previous proposals that were ranked but not selected for funding:
  - Albemarle-Pamlico Estuary
  - New Hampshire Estuaries
  - Potomac River and Estuary
  - Puget Sound
  - Southern Florida



# Other Elements

- ▶ Sampling continued at the 5 coastal drainage basins that are integrated into the NASQAN Program.
  - Hudson River at Poughkeepsie, NY
  - Delaware River at Trenton, NJ
  - Apalachicola River near Sumatra, FL
  - Brazos River near Rosharon, TX
  - Mississippi River above Vicksburg at mile 438, MS



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# Collaboration and Outreach Workgroup

Cathy Tate and Barb Horn, Co-chairs

# Strategic Workplan for 2011

## Primary Goals

- ▶ Sponsor Web Seminars
- ▶ Create a Council Blog for feedback
- ▶ Produce a biannual Newsletter
- ▶ Expand communication with other Councils and partners
- ▶ Produce inventory of water monitoring councils
- ▶ Plan for 8th National Monitoring Council in Portland, Oregon



# 2011 Web Seminars

- ▶ Jan: **"Marcellus Monitoring: The role of volunteers in baseline data"** by Jinnie Woodward, Julie Vastine, and Candie Wilderman, Alliance for Aquatic Resource Monitoring.
- ▶ March: **"Water Quality Monitoring Sensors"** by Dan Sullivan, USGS, Aquatic Sensor Workgroup, co-sponsored by the California Water Quality Monitoring Collaboration Network
- ▶ April: **"Tribal Science, Monitoring and Partnerships to Address Environmental Issues"** by Dave Fuller, Port Gamble S'Klallam Tribe.
- ▶ June: **"Introduction to the Environmental Methods Index (NEMI)"** by Dan Sullivan co-sponsored by the California Water Quality Monitoring Collaboration Network.
- ▶ More to come later this year.



# Blogs and Social Media Tools

- ▶ Council Blog – Almost approved by DOI
- ▶ Council Calendar
- ▶ NWQMC “SharePoint” site -- internal information exchange

**Council Calendar**

NWQMC

Today July 2011

Print Week Month Agenda

Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28 2pm Sensors Dat	29	30	Jul 1	2
3	4 Independence D	5	6	7	8 12pm Plenary cor	9
10	11 11am watersense 3pm NWQMC/Riv	12 ACWI meeting i	13 ACWI meeting j 11am WIS call	14	15	16
17	18 12pm NWQMC St 2pm Sensors dati	19	20	21	22	23
24	25	26	27	28	29	30

Site Actions Browse Page

USGS science for a changing world National Water Quality Monitoring Council Home

Home Newsletter 2012 Conference Planning Search this site...

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Lists  
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Discussions  
Team Discussion

Recycle Bin  
All Site Content

Welcome to the NWQMC Sharepoint site!

This is our new internal sharing site. We'll use this to circulate and review draft documents and other internal communications before materials are ready to be released.

Shared Documents

Type	Name	Modified	Modified By
	DRF NWQMC Webinar presentation April 19_21_2011	4/21/2011 7:18 AM	Tate, Cathy M.

[Add document](#)

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Getting Started  
[Share this site](#)



# “National Water Monitoring News”

An Online Newsletter for the Water Monitoring Community

- ▶ 2<sup>nd</sup> Edition released Nov. 2010
- ▶ 3<sup>rd</sup> Edition released April 2011
- ▶ **Topics Include:**
  - ▶ Council activities: 2012 Conference, Webinars
  - ▶ National Wetland Condition Assessment
  - ▶ Great Lakes Restoration
  - ▶ Rocky Mountain States Collaborate on Nutrients
  - ▶ Harmful Algal Blooms
  - ▶ Spotlight on State Councils
  - ▶ Monitoring the Monongahela River
  - ▶ Volunteers in Iowa
  - ▶ Tribe Works to Protect Wild Rice
  - ▶ World Water Monitoring Day
  - ▶ State Use of Outside Data
  - ▶ New Tools for Monitoring
  - ▶ Groundwater Network

The image shows the cover of the National Water Quality Monitoring Council (NWQMC) newsletter, "National Water Monitoring News". The cover features the NWQMC logo at the top left, which consists of a stylized blue wave icon above the text "NWQMC". To the right of the logo is a black banner with the text "NATIONAL WATER QUALITY MONITORING COUNCIL" in white, and below it, in smaller white text, "Working Together for Clean Water". Below the banner are four navigation links: "National Council Highlights", "Collaboration through Partnerships", "Council Workgroup Updates", and "National Monitoring Network". The main title "National Water Monitoring News" is prominently displayed in large blue font. Below the title is a large photograph of a body of water with green floating-leaved plants. To the left of the photo is a "Highlights" section with a blue header and a list of topics: 2012 Conference, Webinars, Member News, National Wetland Condition Assessment, Great Lakes Restoration, Rocky Mountain States Collaborate on Nutrients, Harmful Algal Blooms, Spotlight on State Councils, Monitoring the Monongahela River, Volunteers in Iowa, Tribe Works to Protect Wild Rice, World Water Monitoring Day, State Use of Outside Data, New Tools for Monitoring, and Groundwater Network. Below the list is a small photograph of a rocky stream with trash. To the right of the main photo is a caption: "The Fond du Lac Band of Lake Superior Chippewa has been actively working and collaborating with Federal agencies and the University of Minnesota to protect and restore culturally significant wild rice waters on their reservation in northeastern Minnesota. The floating-leaf stage, seen here, is especially sensitive to water fluctuations. (Photo courtesy of Nancy Schull, Fond du Lac Band of Lake Superior Chippewa)". Below the caption is a circular diagram with "COLLABORATE" at the top and "FOR RESTORATION" at the bottom. The center of the diagram contains the text "Informed, joined, active for water". Surrounding this center are four quadrants with icons and text: "Communities and Industry", "State monitoring programs", "Citizen science networks", and "Academic research". Below the diagram is a quote: "The National Water Quality Monitoring Council provides a voice for monitoring practitioners across the Nation and fosters increased understanding and stewardship of our water resources." At the bottom of the cover, contact information is provided: "The National Water Quality Monitoring Council", "Editor: Cathy Tate", "(303) 236-6927 (phone) \* email: cmtate@usgs.gov", and the website "http://acwl.gov/monitoring/". The date "Spring 2011" is printed in the bottom right corner.



# Expanding communication Council “calling card” -- Still in revision



**NATIONAL WATER QUALITY MONITORING COUNCIL**  
NWQMC  
Working Together for Clean Water

## ABOUT THE COUNCIL

**OUR MISSION** is to develop approaches to monitor, assess, and report on our Nation's water quality in collaborative, comparable, and cost-effective ways.

**SINCE 1997**, the Council has provided a voice for monitoring practitioners across the Nation and fostered increased understanding and stewardship of our water resources. Members come from all levels of government, Tribes, industry, volunteer monitors, and academia.

### SERVING YOUR WATER NEEDS THROUGH —

- COMPATIBLE DATA RETRIEVALS AND COMMON WEB SERVICES**  
Direct access to water data from multiple sources in a common format for use in mapping, assessments, statistical, and modeling applications, all through a user-friendly web portal.  
<http://qwwservices.usgs.gov/>
- GUIDES FOR SENSORS**  
Tools to promote consistency as new technology takes off: checklists for calibration and record-keeping; deployment, siting and maintenance; data elements for sensors; and a glossary of terms.  
<http://watersensors.org/>
- A NATIONAL ENVIRONMENTAL METHODS INDEX**  
Since 1992, an online resource hosting information on more than 1,110 physical, chemical, and biological lab methods and field protocols. Coming soon: Sensors!  
<http://www.nemi.gov>
- STATISTICAL AND ASSESSMENT TOOLBOX**  
An online guide to help in the design and analysis of monitoring data to meet specific assessment and research needs (in development).
- NATIONAL MONITORING NETWORK**  
Assessing the health of our coastal ecosystems and inland tributaries via a nationwide, integrated water quality monitoring plan and strategy for improved national and regional management.  
<http://acwl.gov/monitoring/network/>



### COMMUNICATE, COLLABORATE, & COORDINATE —

- WEBINARS**  
An exciting new program from the Council, webinars are open to all and provide a forum to exchange monitoring success stories and challenges and discuss emerging water issues.
- THE NATIONAL WATER MONITORING NEWS**  
Water news, monitoring success stories, assessment needs, conferences and other upcoming events, and more are shared in the Council's biannual newsletter.
- NATIONAL CONFERENCES**  
Bring together stakeholders from across the water-resources spectrum to showcase new findings on the quality of the Nation's waters and innovations and cutting-edge tools in water-quality monitoring, assessment, and reporting. See you in Portland, Oregon in May 2012 for the next biennial conference!

Learn more about us at —  
<http://acwl.gov/monitoring>

# Water Monitoring Councils Inventory

- ▶ **Team:** Barb Horn (lead), Jody Arthur, Alice Mayo, and David Fuller
- ▶ **Purpose:**
  - To characterize key structural and functional aspects of existing regional, state and/or tribal council/networks.
  - To assist forward progress of newly forming council/networks or the evolution of existing groups.
- ▶ **Five monitoring groups have completed to date:**
  - California Water Quality Monitoring Council
  - Colorado Water Quality Monitoring Council
  - Florida Water Resources Monitoring Council
  - NJ Water Monitoring Council
  - Ohio Water Resources Council, Water Monitoring Work Group



# Reports Produced

## 1. All Councils

COUNCIL_NAME	CONTACT_FIRST_NAME	CONTACT_LAST_NAME	CONTACT_PHONE	CONTACT_EMAIL	CONTACT_ADDRESS_STREET	CONTACT_ADDRESS_CITY	CONTACT_ADDRESS_STATE
Alice-Test	Alice	McCarthy	608/821-3875	ajmcart@usgs.gov	8505 Tree Lane	Middleton	WI
California Water Quality Monitoring Council	Jon	Marshack	916-341-5514	jmarshack@waterboards.ca.gov	Office of Information Management & Analysis State Water Resources Control Board 1001 I Street, 15th Floor P.O. Box 100	Sacramento	CA
Colorado Water Quality Monitoring Council	Project	Coordinator	9706264045	cwqmc@coloradowater.org	680 W. Sherman Street, Suite B	Ridgeway	CO
Florida Water Resources Monitoring Council note: this is re-emerging from former council 2006-2008	Gail	Sloane	850-245-8512	gail.sloane@dep.state.fl.us	Florida Department of Environmental Protection 2600 Blair Stone Road MS 3525	Tallahassee	Florida

[Export to CSV](#)





NATIONAL WATER QUALITY MONITORING COUNCIL

*Working Together for Clean Water*

# 8<sup>th</sup> National Monitoring Conference

*Water: One Resource – Shared Effort – Common Future*

Portland Oregon, April 30 – May 4, 2012



# 8<sup>th</sup> National Monitoring Conference

*Water: One Resource – Shared Effort – Common Future*

Portland Oregon, April 30 – May 4, 2012

- ▶ For the first time, the National Monitoring Conference and River Network's National River Rally are coordinating an overlap day (May 4th) with mutually developed themes and presentations geared toward fostering improved collaboration between government and nonprofit groups working together for clean water.



(<http://www.rivernetwork.org/>)

# ✓ Released “Save-the-date” in April



Mark your calendars for —

## The 8<sup>th</sup> National Water Monitoring Conference

*Water: One Resource – Shared Effort – Common Future*

April 30 – May 4, 2012 in Portland, Oregon

The National Water Quality Monitoring Council (NWQMC or “Council”) will host its 8<sup>th</sup> National Water Monitoring Conference – *Water: One Resource – Shared Effort – Common Future* on April 30 – May 4, 2012. This national forum provides an exceptional opportunity for federal, state, local, tribal, volunteer, academic, private, and other water stakeholders to exchange information and technology related to water monitoring, assessment, research, protection, restoration, and management, as well as to develop new skills and professional networks.

Conference themes will cover your water management & science needs, including:

- Applying Innovative Monitoring Technologies and Methods
- Strengthening and Advancing Assessment Methods and Models
- Addressing Climate and Water Availability Issues
- Communicating Science and Data to Decision Makers and the Public
- Managing and Sharing Water Quality Monitoring Data
- Strengthening Monitoring Collaboration and Partnerships at all Scales
- Addressing Emerging Contaminants and Emerging Threats to Water Quality
- Evaluating and Managing Water Protection and Restoration Activities

Of special note...



For the first time, this biennial NWQMC conference and River Network's National River Rally are coordinating an overlap day (May 4<sup>th</sup>) with mutually developed themes and presentations geared toward fostering improved collaboration between government and nonprofit groups working together for clean water. (<http://www.rivernetwork.org>)

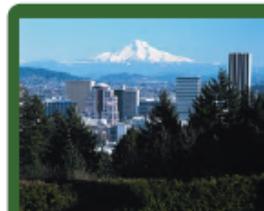


Photo courtesy of Travel Portland/Larry Gaddis.

Join us in Portland, Oregon at the confluence of the Willamette and Columbia Rivers. With snow-capped Mount Hood providing a spectacular backdrop, Portland (known for its beer and bicyclists) combines a sophisticated, cosmopolitan atmosphere with friendly, small-town warmth. An efficient light rail system, pedestrian-friendly city blocks, and free train rides in the central city make getting around town a real pleasure.

## Call for Abstracts Coming Out this Spring!

Please feel free to distribute this announcement to your staff and water colleagues.

For questions, please contact the 2012 National Water Monitoring Conference Coordinators: Cathy Tata, [cmtata@usgs.gov](mailto:cmtata@usgs.gov) or Jeff Schloss, [jeff.schloss@unh.edu](mailto:jeff.schloss@unh.edu). To be placed on the mailing list, contact Philip Forsberg, [forsberg@nalms.org](mailto:forsberg@nalms.org). To learn more about the Council and previous conferences, visit: <http://acwt.gov/monitoring/>.



# ✓ Released “Call For Abstracts” in May

## Conference Themes

- ▶ *Applying Innovative Monitoring Technologies and Methods*
- ▶ *Strengthening and Advancing Assessment Methods and Models*
- ▶ *Addressing Climate and Water Availability Issues*
- ▶ *Communicating Science and Data to Decision Makers and the Public*
- ▶ *Managing and Sharing Water Quality Monitoring Data*
- ▶ *Strengthening Monitoring Collaboration and Partnerships at all Scales*
- ▶ *Addressing Emerging Contaminants and Emerging Threats to Water Quality*
- ▶ *Evaluating and Managing Water Protection and Restoration Activities*

## CALL FOR ABSTRACTS



NWQMC

### The 8<sup>th</sup> National Monitoring Conference

*Water: One Resource – Shared Effort – Common Future*

April 30 – May 4, 2012 – Portland, Oregon



Photo courtesy of Travel Portland/Larry Geddes

Join us in Portland for the National Water Quality Monitoring Council's 8<sup>th</sup> National Monitoring Conference – Water: One Resource – Shared Effort – Common Future on April 30 – May 4, 2012. This national forum provides an exceptional opportunity for federal, state, local, tribal, volunteer, academic, private, and other water stakeholders to exchange information and technology related to water monitoring, assessment, research, protection, restoration, and management, as well as to develop new skills and professional networks.  
**Abstracts are due by September 23, 2011.**

#### Conference themes will cover your water management & science needs, including:

- Addressing Contaminants and Emerging Threats to Water Quality and Aquatic Ecosystems
- Addressing Climate and Water Availability Issues
- Evaluating and Managing Water Protection and Restoration Activities
- Communicating Science and Data to Decision Makers and the Public
- Applying Innovative Monitoring Technologies and Methods
- Strengthening Monitoring Collaboration and Partnerships
- Managing and Sharing Water Quality Monitoring Data
- Strengthening and Advancing Assessment Methods and Models

#### Awards

We are currently accepting nominations for the 2012 Elizabeth J. Fellows Award, Barry A. Long Award, and Vision Award. Please visit the conference website for details.

#### Of special note ....



For the first time, this biennial NWQMC conference and River Network's National River Rally are coordinating an overlap day (May 4<sup>th</sup>) with mutually developed themes and presentations geared toward fostering improved collaboration between government and nonprofit groups working together for clean water. ([www.rivernet.org](http://www.rivernet.org))

#### Registration Information

Registration includes breakfasts and lunches and one evening reception. Attendee scholarships might be available.  
■ Attendee: \$400 (early registration); \$475 after February 17<sup>th</sup>, 2012  
■ Oral or Poster Presenter: \$355 (early registration); \$430 after February 17<sup>th</sup>, 2012

For exhibitor and sponsorship information please contact Greg Arenz, [garenz@nawqmc.org](mailto:garenz@nawqmc.org). For questions related to programming, please contact the 2012 National Monitoring Conference Co-chairs Cathy Tate, [crtate@usgs.gov](mailto:crtate@usgs.gov), Jeff Schloss, [jfschloss@unh.edu](mailto:jfschloss@unh.edu) or Alice Maylo, [Maylo.Alice@epa.gov](mailto:Maylo.Alice@epa.gov). To be placed on a mailing list, please contact Philip Forsberg, [forsberg@nawqmc.org](mailto:forsberg@nawqmc.org). To learn more about the Council and previous conferences, visit: [www.nawqmc.org](http://www.nawqmc.org)



# Launched Website in May

The screenshot shows the homepage of the National Water Quality Monitoring Council (NWQMC) website. At the top, there is a banner with the NWQMC logo on the left and three scenic images of water bodies. The text 'NATIONAL WATER QUALITY MONITORING COUNCIL' is centered in the banner. Below the banner, a navigation menu is on the left, and the main content area is on the right. The main content area features a large heading 'Water: One Resource - Shared Effort - Common Future' and '8th National Monitoring Conference April 30 - May 4, 2012 Portland, Oregon'. Below this, there is a paragraph describing the conference, a list of conference themes, and three call-to-action boxes: 'Abstract Submittal Instructions', 'Sponsor and Exhibitor Information', and 'Call for Proposals for Workshops, Short Courses, and Panel Discussions'.

**NATIONAL WATER QUALITY MONITORING COUNCIL**

**Working Together for Clean Water**

**Water: One Resource - Shared Effort - Common Future**

**8th National Monitoring Conference**  
April 30 - May 4, 2012 Portland, Oregon

The National Water Quality Monitoring Council (NWQMC or "Council") will host its 8th National Monitoring Conference – *Water: One Resource – Shared Effort – Common Future* on April 30 – May 4, 2012. This national forum provides an exceptional opportunity for federal, state, local, tribal, volunteer, academic, private, and other water stakeholders to exchange information and technology related to water monitoring, assessment, research, protection, restoration, and management, as well as to develop new skills and professional networks.

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**Abstract Submittal Instructions**

- [Abstract Submittal Instructions](#)
- [Call for Abstracts \(PDF\)](#)

**Sponsor and Exhibitor Information**

- Sponsors: [Grey Arentz](#)
- Exhibitors: [Phillip Forsberg](#)

**Call for Proposals for Workshops, Short Courses, and Panel Discussions**

[Click here for details](#)

<http://acwi.gov/monitoring/conference/2012/index.html>



# 8<sup>th</sup> National Monitoring Conference

*Water: One Resource – Shared Effort – Common Future*

Portland Oregon, April 30 – May 4, 2012

- ✓ **April 2011:** Issued "Save the Date" announcement
- ✓ **May 2011:** Issued "Call for Abstracts" & Activated Web Site for Abstract submissions
- **Sept 23, 2011:** Abstracts and Workshop/short course/panel proposals submittal deadline
- **Oct – Dec 2011:** Evaluation and selection of abstracts for oral and poster presentations, workshops/short courses/panels, etc.,
- **Nov 15-17, 2011 Council Meeting** – finalize sessions!



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# EPA-USGS Water Quality Portal

Nate Booth, USGS



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# Questions or Comments?