



NATIONAL WATER QUALITY MONITORING COUNCIL

Working Together for Clean Water

Building, Empowering & Sustaining State, Regional and Tribal Water Monitoring Councils and Water Monitoring Partnerships and Alliances

NWQMC 8th Annual Conference
May 2012

Workshop Goals

We are all unique

We do have a common ground

We are not alone

UP the VIBRATION of Collaboration

Learn what is out there

Help each other

Learn about NWQMC





Council Products and Tools to Help Councils

*Cathy Tate, Co-chair
Collaboration & Outreach Workgroup*



Web Seminars

- ▶ Sponsor web seminars or *webinars* at least quarterly
- ▶ Webinars represent a wide range of topics and audiences including State and regional councils, volunteer and tribal monitoring, *aquatic sensors*, *NEMI*, data exchanges, data elements, and much more!



2012 Web Seminars

- ▶ Statistical NEMI – An online searchable clearinghouse of methods to analyze water quality data and help support water quality assessments; May/June 2012
- ▶ Social Water – a citizen monitoring project in Wisconsin; July 2012
- ▶ Rapid methods for recreational criteria as related to the new EPA criteria – organized by Rachel Noble; Fall 2012



“National Water Monitoring News”

An Online Newsletter for the Water Monitoring Community

▶ Produce Spring and Fall Editions

▶ Editorial Board

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<http://acwi.gov/monitoring/newsletter/index.html>



NATIONAL WATER QUALITY MONITORING COUNCIL

Working Together for Clean Water

National Council
Highlights

Collaboration through
Partnerships

Council Workgroup
Updates

National Monitoring
Network

National Water Monitoring News

Highlights

- 2012 Conference
- Water Quality Portal
- Statistical NEMI
- Volunteer Monitoring Web page
- Forest Service's Inventory, Monitoring, & Assessments
- National Aquatic Surveys
- Spotlight on States
- Volunteer Monitoring News
- Tribal Water Quality Monitoring
- Monitoring Around the U.S.
 - California's San Gabriel Watershed
 - North Carolina's Coastal Waters
 - Lake Michigan near Chicago
- Tools and Technology
- National Monitoring Network



The San Gabriel River Watershed supports a population of more than 2.3 million people. Protection and management ensuring sustainability of this resource requires an understanding of the watershed's overall health. (Photo courtesy of Council for Watershed Health)



National Wetland Condition Assessment field crew identifying wetland vegetation as a part of the National Aquatic Resource Surveys. (Photo by Joanna Lemly)



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.

The National Water Quality Monitoring Council
Editor: Cathy Tate
(303) 236-0927 (phone) • email: cmtate@usgs.gov

<http://acwi.gov/monitoring/>

Spring 2012



Council's Display for Your Local Council Meeting



Displayed at the First North Dakota Water Quality Conference in Feb. 2012



Expanding Communication

Council “Calling Card”

- Create more than one for different audiences

http://acwi.gov/monitoring/workgroups/co/NWQMC_callingcard.pdf



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://qwweservices.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://acwi.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.

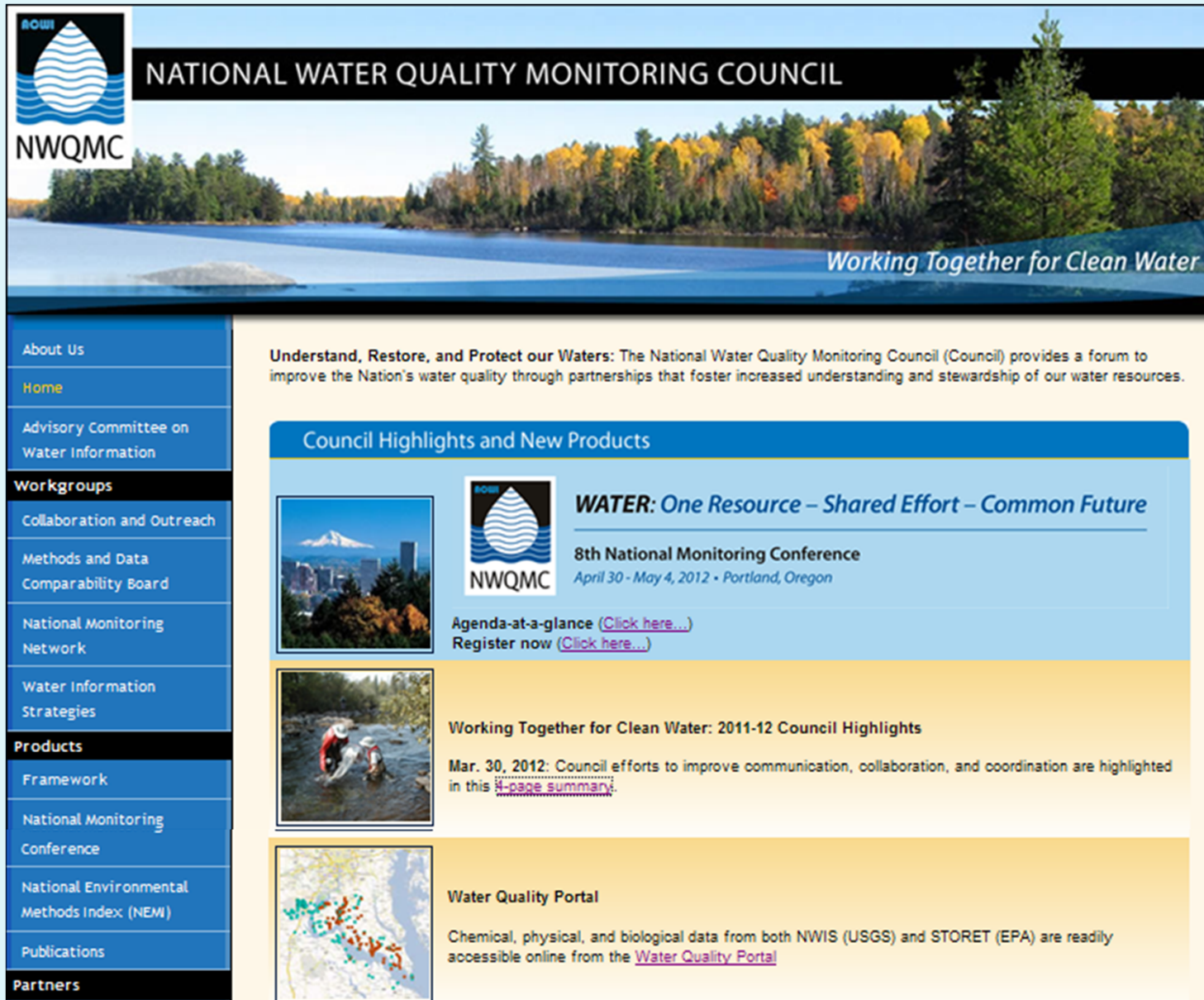
NATIONAL CONFERENCES

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://acwi.gov/monitoring>



Updating the Council's Web Site



NATIONAL WATER QUALITY MONITORING COUNCIL

Working Together for Clean Water

About Us

- Home
- Advisory Committee on Water Information

Workgroups

- Collaboration and Outreach
- Methods and Data Comparability Board
- National Monitoring Network
- Water Information Strategies



Products

- Framework
- National Monitoring Conference
- National Environmental Methods Index (NEMI)
- Publications


Partners

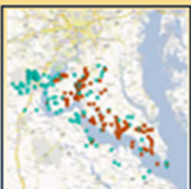
Understand, Restore, and Protect our Waters: The National Water Quality Monitoring Council (Council) provides a forum to improve the Nation's water quality through partnerships that foster increased understanding and stewardship of our water resources.

Council Highlights and New Products

  ***WATER: One Resource – Shared Effort – Common Future***
8th National Monitoring Conference
April 30 - May 4, 2012 • Portland, Oregon


Agenda-at-a-glance ([Click here...](#))
Register now ([Click here...](#))

 Working Together for Clean Water: 2011-12 Council Highlights
Mar. 30, 2012: Council efforts to improve communication, collaboration, and coordination are highlighted in this [4-page summary](#).

 **Water Quality Portal**
Chemical, physical, and biological data from both NWIS (USGS) and STORET (EPA) are readily accessible online from the [Water Quality Portal](#)



We're Getting Advice!



WATER WORDS
THAT WORK

Search

Toll Free: 800.861.6012
Local: 703.829.6732

Home About Custom Projects The Method ▾ Our Tools ▾ Clients Portfolio Testimonials Appearances Contact Us Blog



Summary of Council Activities

http://acwi.gov/monitoring/activities/Council-Summary_2011-12.pdf



NATIONAL WATER QUALITY MONITORING COUNCIL

Working Together for Clean Water

Working Together For Clean Water: 2011-2012 Council Highlights

Water issues are becoming more complex. Resources to monitor, assess, protect and restore our waters are tighter, and the demand for high-quality water continues to grow to support a complex web of human activities and aquatic ecosystem needs. The Council is a vehicle for bringing together the diverse expertise needed to develop collaborative, comparable, and cost-effective approaches for monitoring and assessing our Nation's water quality (<http://acwi.gov/monitoring>). The approaches are fundamental to the successful management and sustainability of our waters.



Council goals to improve data comparability and reliability; data management, assessment, sharing, and reporting; and collaboration are increasingly achievable as technology and expertise advance in data collection and exchange, assessment and reporting. As a result,

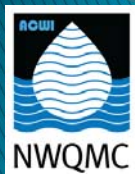
the Council and its partners have made significant advances in its priorities, including data management and information dissemination; compatible web services; State and regional councils; volunteer monitoring; assessment and statistical tools; sensors and real-time monitoring; and integrated land-to-sea assessments through the Network. Multiple Council products and services are now available to help meet water needs across the Nation.



Created in 1997, the National Water Quality Monitoring Council (Council) is a national forum for coordination of comparable and scientifically defensible methods and strategies to improve water quality monitoring, assessment and reporting. The Council promotes partnerships to foster collaboration, advance the science, and improve management within all elements of the water quality monitoring community. Vital to this role, the Council provides a voice for monitoring practitioners across the Nation and fosters increased understanding and stewardship of our water resources. The Council is chartered as a subgroup of the Advisory Committee on Water Information (ACWI) under the Federal Advisory Committee Act.

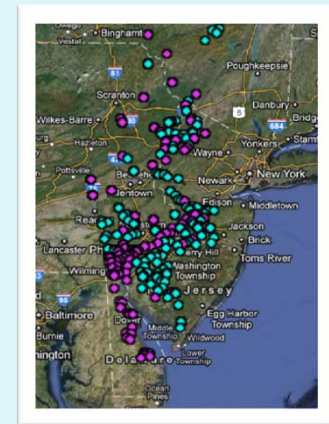


The Monitoring Framework



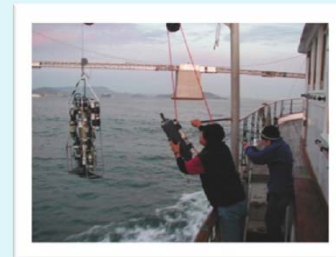
Summary of Council Activities

- ▶ Council Workgroups
 - Methods and Data Comparability Board
 - Aquatic Sensor Workgroup
 - Water Information Strategies Workgroup
 - Collaboration and Outreach Workgroup
- ▶ Water Quality Portal– Web access to over 150 million water–quality data records
- ▶ Network of Reference Watersheds for Freshwater Streams



Summary of Council Activities

- ▶ National Environmental Methods Index
- ▶ Water Quality Statistical and Assessment Methods Online Database
- ▶ Integrating Volunteer Monitoring – A New Council Resource and Web page
- ▶ National Monitoring Network for Coastal Waters and Their Tributaries





Water: One Resource – Shared Effort – Common Future
Eighth National Monitoring Conference

*Building, Empowering & Sustaining State,
Regional and Tribal Water Monitoring Councils
and Water Monitoring Partnerships and
Alliances*

- ▶ **Workshop organized by:**
 - Barb Horn, Colorado Parks and Wildlife
 - Cathy Tate, U.S. Geological Survey
 - John Hummer, Great Lakes Commission
 - Leslie McGeorge and Alena Baldwin-Brown, New Jersey Department of Environmental Protection

Water Monitoring Councils Posters

Wednesday, May 2, 9:30 am – 10:30 am

- ▶ ***06A The Maryland Water Monitoring Council: Furthering the Cause of Water Monitoring in Maryland***, Daniel Boward, Maryland Department of Natural Resources
- ▶ ***07A New Jersey Water Monitoring Council: Strengthening Monitoring Collaboration and Partnerships Across a State Water Monitoring Community***, Leslie McGeorge, New Jersey Department of Environmental Protection



NWQMC Collaboration & Outreach

We always welcome new members to the workgroup.

We want your ideas for web seminars,
articles for the newsletter, and other ways to
Collaborate, Communicate, Coordinate!



Cathy Tate and Barb Horn

(cmtate@usgs.gov) or (Barb.Horn@state.co.us)





NATIONAL WATER QUALITY MONITORING COUNCIL

Working Together for Clean Water

Summary of Inventory of State, Regional, Tribal Monitoring Councils

Share

Who is Out There?

Composition

Location

Why Started

Geographic Scope

Administrative

Leadership

Structure

Finances

Decision Making

Programmatic

Decision Making

Objectives

Products

Inventory of Councils

Inventory Categories

1. Primary Information
2. Composition, Scope and Initiation
3. Finances
4. Leadership
5. Objectives



Inventory of Councils

To Input or Update:

- 1) Go to site
- 2) User name, password
- 3) Four sections, can enter in shifts

<https://infotrek.er.usgs.gov/apex/f?p=207:101>

This is on handout

User Name: reg_council

Password: Council4u



Inventory of Councils

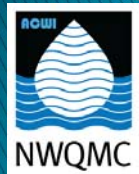
To View or Download

- 1) Go to site
- 2) User name, password
- 3) By individual Council or 1 question for all Councils

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User Name: reg_council

Password: Council4u



Inventory of Councils

Completed Inventory

Ohio Resource Council, Water Monitoring Work Group
NJ Water Monitoring Council
Colorado Water Quality Monitoring Council
California Water Quality Monitoring Council
Florida Water Resources Monitoring Council
Lake Michigan Monitoring Coordination Council
North Dakota Water Quality Monitoring Council
Maryland Water Monitoring Council
New England Regional Monitoring Collaborative



Inventory of Councils

Have Not Completed.....Yet

Utah Monitoring Council

Chesapeake Bay Program

Indiana Water Monitoring Council

Michigan Clean Water Corps

National Tribal Water Council

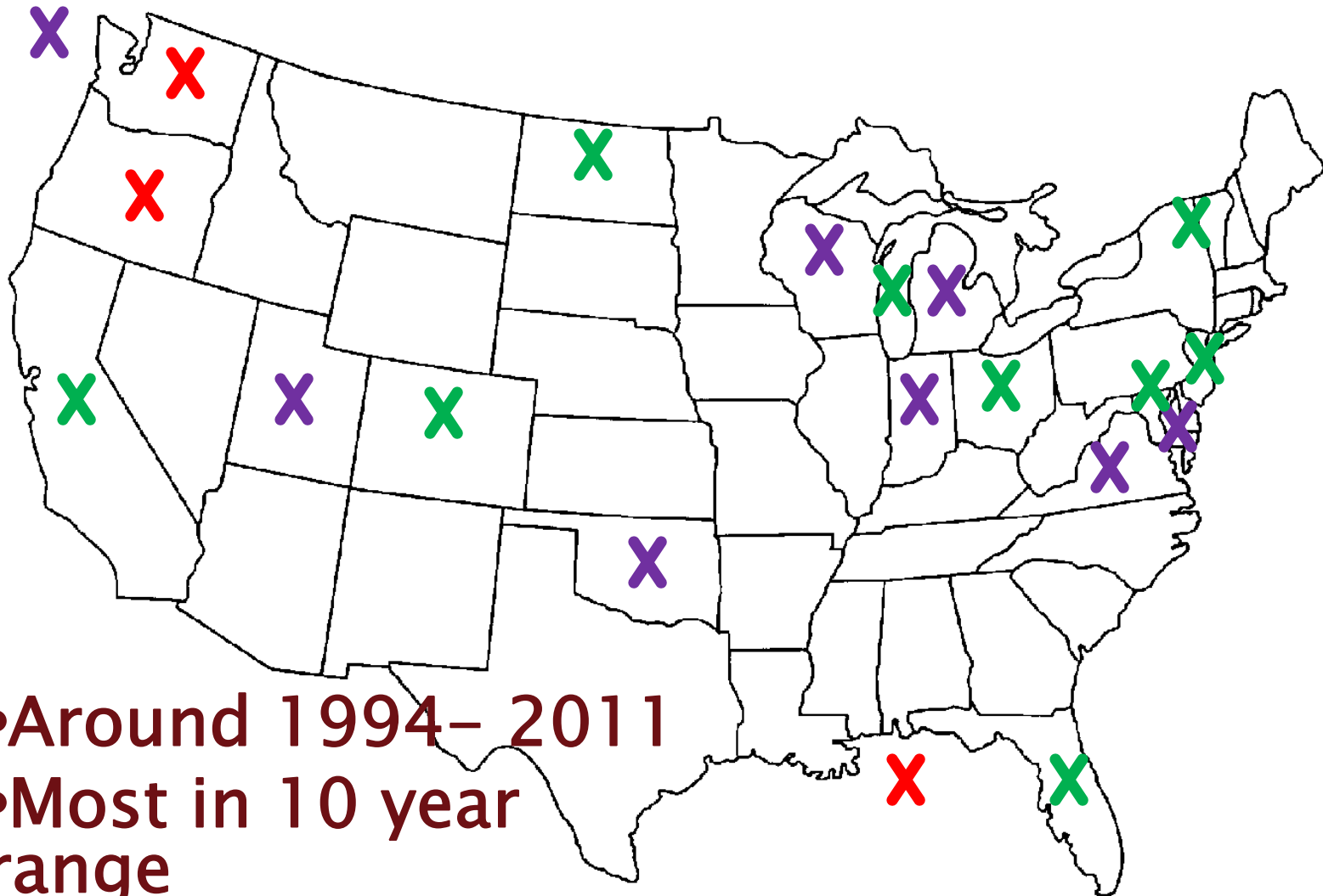
Oklahoma Water Quality Monitoring Council

Virginia Water Monitoring Council

Wisconsin Groundwater Coordinating Council



Inventory of Councils



- Around 1994– 2011
- Most in 10 year range

Composition

	Minimum	Maximum	Average
State	5	46	26
Federal	0	30	16
Local	0	27	11
Tribal	0	2	0.2
Landowner	0	0	0
Academia	0	7	19
Special District	0	27	9
Private	0	30	7
Non Profit	0	10	5
Other			8

- 7 focus statewide
- 1 interstate and 1 regional
- 1 multi-basin, larger watershed

% Composition

- Everyone had state involved
- Maximum # State (46), Fed (30), local (27), special district (27), private (30)
- Only one had tribal representation
- None involved landowners (FS, BLM, State not distinguished as LO)
- Everyone had Fed but 1
- Everyone had Academia but 1
- Everyone had Local but 2
- 4 of 8 had special Districts, private, NP
- Other included public, intergov, interstate

TYPES	#Avg
State	26
Federal	16
Local	11
Tribal	0.2
Landowner	0
Academia	10
Special District	9
Private	7
Non Profit	5
Other	8

Geographic Scope

- **7 focus statewide**
- **1 interstate and 1 regional**
- **1 multi-basin, larger watershed**

Mandate To Start

- 6 Top-Down Effort
 - 1 – State of Federal Initiative, Legislative Mandate (no \$)
 - 2– State Legislation/statute (no \$)
- 3 Combo if Grassroots and Above
- 7 State Type Initiative formal/informal

Driver To Organize

- Lack of monitoring & assessment coordination and reporting
- Inconsistent monitoring objectives, assessment strategies & methods
- Lack of single place, accessible data with ease
- Support to save gage network
- Need for systematic information on meta data
- Provide guidance, consistency
- Forum to communicate, collaborate
- All still goal to collaborate, share data, foster communication
- 6 have evolved from start

Affiliated with State Clean Water Act Monitoring Program

- ▶ **1 Indirectly**
- ▶ **All other 8 Directly**

Who Does the Work?

Who	Number	Comment
Paid Staff	6	3 of those were half time or less
		Coordinate, Tech Tasks, Record Keeping
Volunteers	0-30	Leaders, only one or volunteer doing more
Members	3-300	Average 70
		Participate in Committees, events
		Develop Recom, provide data/info
		Outreach, implement project
		Provide purpose, knowledge
		Provide training, assistance, mentor
		Develop internet portals, use products

Estimated Costs

\$ Ranking	Fed	State	Tribal	Fees	Municipal	Sp District	Industry	Acad	Non Profit	Foundation
#1	3	4								
#2	2	2		1		1		1		
#3	1					1		1	1	
#4					1					
#5	1						1			
Not a source	2	2	9	7	8	6	7	7	8	9

- Only 1 had 6 sources
- 1 had 3 sources
- 6, the rest, had two sources

Income Source

Source
Fed
State
Tribal
Fees
Municipal
Special District
Industry
Academia
Non Profit
Foundation

- **Most \$ State/Federal**
- **2 – No State/Federal \$**
- **0 – \$ from Tribes or Foundations**
- **Only 1 had 6 sources**
- **1 had 3 sources**
- **6, the rest had only 2 sources**
- **0, had all**

Estimated Costs

Number	Estimated Budget Range
1	\$250,000 – \$499,999
2	\$75,000 – \$99,999
1	\$10,000 – \$24,999
3	<\$10,000
5 reported this	Don't Really Know

If don't know costs, hard to know what to ask for

% In Kind / Cash

**4 of 9 Depended Upon in Kind
Up to 50, 85 and 100%**

**3 of 9 Depended Upon cash
Up to 15, 25 and 50%**

Financial Structure

#	Type	Role
1	Formal	Contractual, legislation provides permission, EPA funding until state recovers
5	Informal	Fiscal agent, agency provides, grants, no need state does it
2		Didn't know yet or didn't describe
		NO ONE REQUIRED DUES
		NO ONE was a 501c(3)

Leadership **Selection**

(1) Recommend by Agency Staff,
appointed by state EPA/DNR

(3) Self Select or volunteer

(1) Chair asked by agency, others
nominated by peers

(1) If help get grant get a say

(1) No process default who shows up

ALL VOLUNTEERS



Leadership Structure

- (4) Co-Chair Model, from key lead organizations
- All but one “chair” as lead
- (2) No formal leadership, w/in State Agency Unit serving that role, act as “chairs”
- Leadership Team, Members, Board, Steering Committee = rest of leadership (8–25 people)
- (1) Owner of grant, grant structure

Leadership Organized **by a Group**

#	Type of Group
1	By Waterbody Type (Wetland, Estuary, Streams/River/Lakes, Swimming safe, Aquatic Life Consumption)
1	Technical Advances, Outreach, Leadership, Mentoring
1	Indicators, Monitoring & Assessment, Annual Conference, Info Management and Comm, Community Outreach
1	Communications

Decision Process Re: **Administration**

Type	Number of Orgs
Dictator	
Majority Vote	
Executive Committee	1
Roberts Rule	
Consensus	3
Consensus-1	
Other	
Mix	2 (function of decision), majority vote, C-1, Excom, Roberts Rules
No Process	2 No\$, no administration

Decision Process Re: **Programmatic**

Type	Number of Orgs
Dictator	
Majority Vote	1
Executive Committee	
Roberts Rule	
Consensus	
Consensus-1	2
Other	1 (function of grant obj)
Mix	3 (function of decision), majority vote, use C-1, Excom, Roberts Rules
No Process	1 - no program decisions

Leadership Meeting **Frequency**

Frequency	# of Orgs
Bimonthly	1
Quarterly	1
Annual	2
Other	3
	In Development
	3 times per year
	When need to

Leadership Meeting **Frequency**

Comments on Meeting

Subcommittees meet more

Annual events, other activities
count

Combination of in person and
teleconference calls

Leadership Meeting **Purposes**

Purpose

Coordination of reports / data

Leadership functions,
administration, plan, collaborate

Engage others, discuss projects,
share information

Products

# Orgs	Product Type	Purpose
2 yes, 1 in Development	Webinars	Support monitoring, collaboration, training
2- One only, or do when can	Newsletters	Communicate who are, value, purpose, activities
8 of 8	Websites	Access data/information, communication, give/rc info
6, weekly as needed	Email Blasts/equivalent	Announcements
5, in dev 2-3 a year Every 2-3 years occasionally	Workshops	Training, info exchange, educate, upload assistance
1	Other- One on one	Upload assistance
1	Other - Brochure	Communicate who are, value, purpose
1	Other - Outreach at other events	Ditto
1	Other- needs assessment	Stay relevant

Products

Product Type
Webinars
Newsletters
Websites
Email Blasts/equivalent
Workshops
Other- One on one
Other - Brochure
Other - Outreach at other events
Other- needs assessment

- All had websites
- Most used email – for announcements
- 2 of 8 used webinars/newsletters
- Most did NOT use a variety
- Only 1 program used all

Program Objectives

Meet These Objectives	Number of Organizations
Federal	1
Regional	3
Non Profit	3
State	4
Local	2
Private	1
Tribal	0
Academia	1
Stakeholder	3

Program Objectives

- 4 had multiple goals
- 2 are still deciding, in development
- 1 facilitated or commented on Federal plans
- 1 coordinated workshops and summits to comment on state plans
- 6 commented help do all or most indirectly, role is to help others do it on their own
- All participants in organization do this work

Program Objectives **Data Products**

Products Around Data	Number of Organizations
Summary Stats	1
Advanced Stats	1
Graphing Capacity	2
Data Clean Up	1
Station Gap Analyses	1
Trend Analyses	1
Mapping Tools	3

Program Objectives **Data Products**

- 1 Program provided all of these, assessments done by different groups
- 3 Did not respond, in development
- 2 Data Objective is to provide comprehensive data FOR others to do these on own versus do AS a council

Program Objectives **Reporting Products**

Reporting Products	Number of Organizations
Dev Tools	3
Provide Tools	4
Have Reports on site	4
Web portals to Access	2
Have Tips	1
Host Forum	4
Use GIS	3

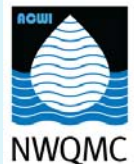
Program Objectives **Reporting Products**

- Many in development or goal
- Goal is to provide data for others to report vs report as a council
- 1 no reply

Note more emphasis on reporting vs data products other than a common database or exchange

Program Objectives **Data Exchange**

Reporting Products (3 no response)	#of Orgs
Provide Collective Database	2
Provide training	2
Host a data exchange	3
You ARE an EPA STORET Node	1
You are an up/download node	1
Host webinars for exchange	3
Provide data (vs database)	2
Facilitate data exchange	3
Conduct database work	1
Other	0



Program Objectives

Do you participate in Federal Legislation?

YES	1
NO	7
Members do, not Council, Council helps members	

Do you participate in State Legislation?

YES	0
NO	8
May in Future, not directly but through members and WILL NOT EVER	

Inventory of Councils

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NATIONAL WATER QUALITY MONITORING COUNCIL

Working Together for Clean Water

Group Share

Group Share

FORMAT

Administrative

1. How does Structure serve functions?

Jon Marshack, CA WQMC

2. Membership

Steve Wolfe, Gulf of Mexico Alliance

3. Funding and Support

Barb Horn, CO WQMC

4. Critical and/or Partnerships & Collaborations

Mary Skopec, Iowa Dept NR



Group Share

FORMAT

Programmatic

5. Monitoring & Information Exchange

Dan Boward, Maryland WQMC, Leslie McGeorge, NJ WMCC

6. Inventories and Data Exchange

Barb Horn, CO WQMC, Jon Marshack, CA WQMC

7. Outreach and Communication

Dave Fuller, National Tribal WC, Peter Tango, Chesapeake Bay

8. Training

Elizabeth Herron, New England MC



Group Share

FORMAT

Other Topics

Sign up for NWQMC Webinars

What do you need?

Lunch BREAK notice



Group Share

GROUND RULES

Brevity

- If you do same as another don't repeat say "here/here"
 - Share new information, questions or methods
 - Stick to point – not entire "story"
 - Network with each other MORE!
- ▶ Time Keepers – WE ALL ARE

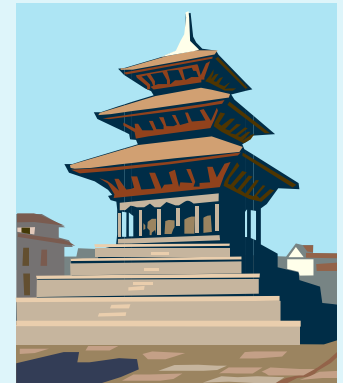
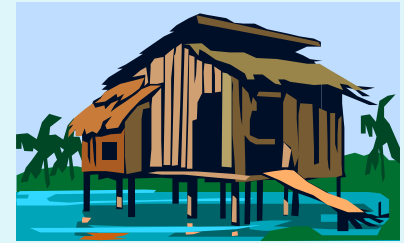
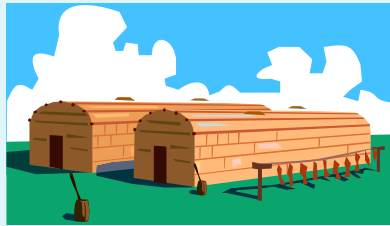


NATIONAL WATER QUALITY MONITORING COUNCIL

Working Together for Clean Water

Let's Share!

What House or Structure best serves your function right now?



To “Profit” or “Non Profit”

- ▶ **General Rule of Thumb**
- ▶ **Long Term Effort – non profit fits needs and energy outputs**
- ▶ **Short Term Effort – non profit often too formal and excessive**

Questions to Consider

Question or Issue	Non Profit	Other
Decision making	Structure/rules provided	Have to define – flexible, can change easy
Ability to receive \$	Yes	Figure out, will cost you
Ability to expend \$	Yes	Figure out, will cost you
Ability to account for \$	Yes	Figure out, will cost you
Ability to account for \$	Yes	Figure out, will cost you

Questions to Consider

Question or Issue	Non Profit	Other
Ability to raise \$	Yes	Figure out, may cost you
Ability to build reserve \$	Yes	Not usually
Leadership	Structure assigns roles	Have to create, subjected to others
Vision/Plan	Structure encourages	Have to make structure, subjected to others

Questions to Consider

Question or Issue	Non Profit	Other
Membership/levels	Still need to define	May or may not create
Programs/Activity/Action	Often more formal, expansion	Maybe more/less flexible
Evaluate all aspects	Structure requires aspects	Not as much
Reporting	Structure requires aspects	Have to create
Outreach	Can be easier	Can be easier
Hirer/fire staff	You are in charge, inc unemp, health, ss, etc.	Dependent upon another, costs

Questions to Consider

Question or Issue	Non Profit	Other
Make own resource/prgm decisions	You are in charge	Subjected to others
Liability	Fiscal is removed from personal, if work entails risks, need structure to handle	Harder to address w/out a structure if need to
Insurance	Easier to get, many grants require multiple types of insurance	If need will cost to 'use' someone else's but can
Longevity	Can contribute	May inhibit – may be irrelevant
Credibility	Can help for certain audiences	May matter to certain audiences

Questions to Consider

Question or Issue	Non Profit	Other
Collaboration/partners	Some entities will prefer/require it	More flexible, may lose some
Organization Energy	1/3-1/2 toward administration/structure	Most towards work/programs vs administration
Costs	Up front registration, annual fee, fiscal audits, costs with staff, can be high if operating in many states	Can be same, more or less, depends on charges for services
Overhead	Have it, keep funds rec' so in charge of it, can do in-kind	Usually lower, more in-kind
Extra support	Accounting, legal, human resources	Less need, may cost more if need
Technology	Intensive or not?	Intensive or not, harder to access