

PILOT WATERSHED-BASED STORMWATER APPROACH IN RWMWD

- ❖ Phase 1 Start Date: April 1, 2011
- ❖ Phase 1 End Date: March 31, 2012
- ❖ Phase 2 Start Date: Pending

Ramsey-Washington Metro



AGENDA

- * About the RWMWD
- * Project Background
- * Progress-to-Date
- * What are the Challenges?
- * Anticipated Outcomes
- * Questions & Answers



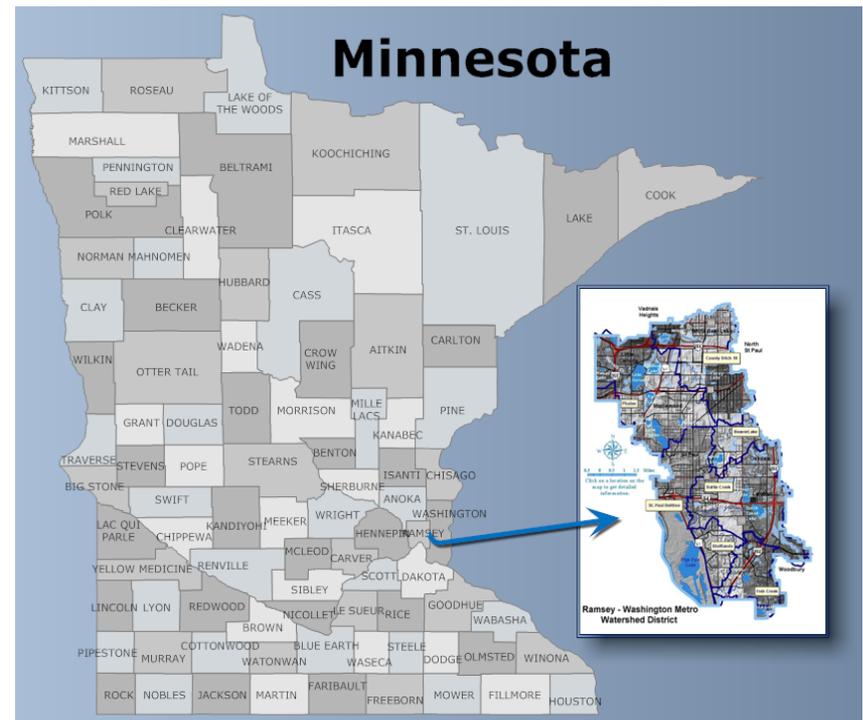
Cliff Aichinger, RWMWD



Joel Schilling, SCSLLC

About the RWMWD

- Ramsey-Washington Metro Watershed District (RWMWD) was established in 1975 as a special purpose local government (MN Statutes, Chapter 103D).
- The RWMWD mission is to protect and improve the water resource and water related environment in a 56 mi² area including parts or all of ten cities with an estimated population of 165,000.



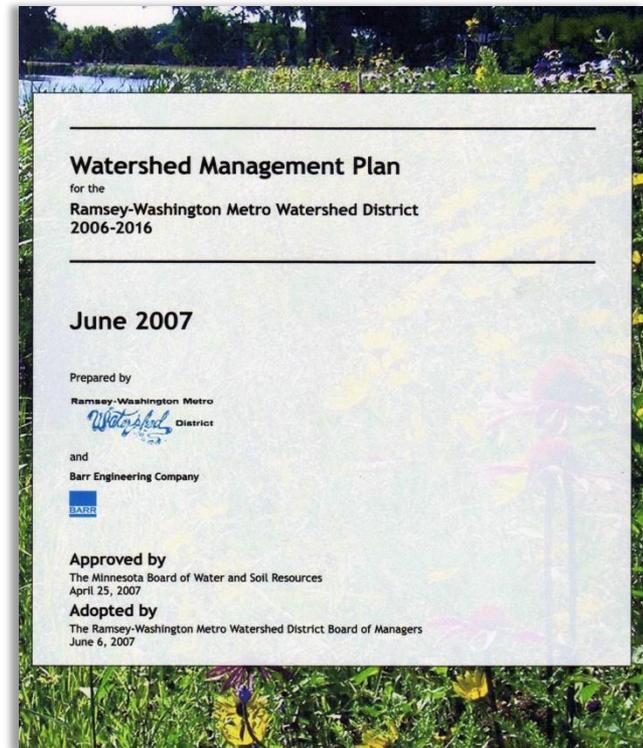
About the RWMWD

Ramsey-Washington Metro Watershed District

- The “**Lead**” local agency on water quality;
- Implements a CIP and provides cost-share grants;
- Conducts TMDL studies and is the implementing agency;
- Completes a **Watershed Management Plan**; and
- Approves Local Water Management Plans.

About the RWMWD

A State mandated ten-year **Watershed Management Plan** (2006 – 2016) that includes goals, actions, and measures in six primary areas—surface water quality, ecosystems, flood control, groundwater, citizen education and involvement, and organizational management.



About the RWMWD

The District's major programs include:

- Water quality protection
- Stormwater mgmt w/volume control
- Flood control & IDDE
- Lake & wetland management
- BMP cost-sharing
- Construction site permitting
- Exotic species control
- Native landscaping, lakeshore and habitat restoration
- Water quality and biological monitoring
- Watershed education
- TMDL studies and implementation

About the RWMWD

Revenue: the RWMWD has statutory authority to collect a property tax levied by the respective counties on all benefited properties. In 2010, the property tax levy generated \$3.5 million in revenue for operations.

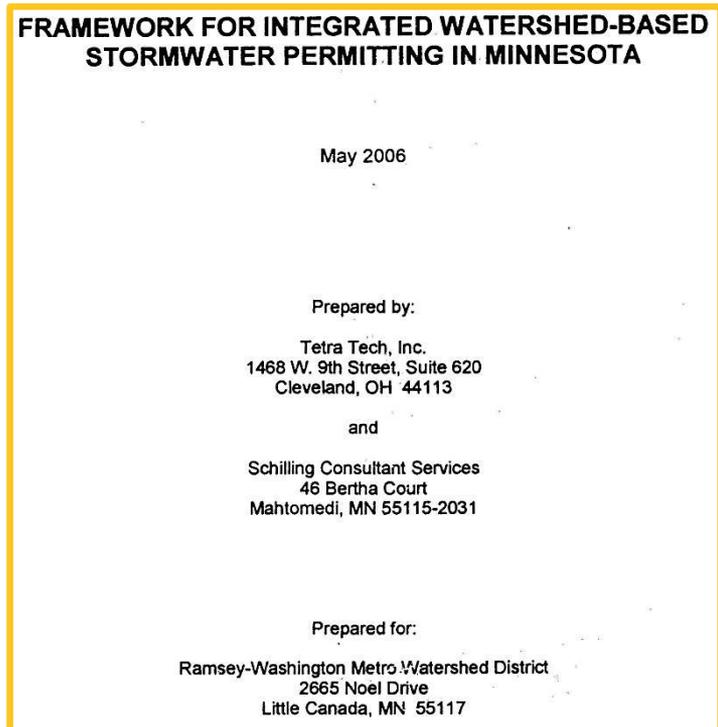


\$25/year for the average RWMWD household.

Project Background

2006 Framework Report

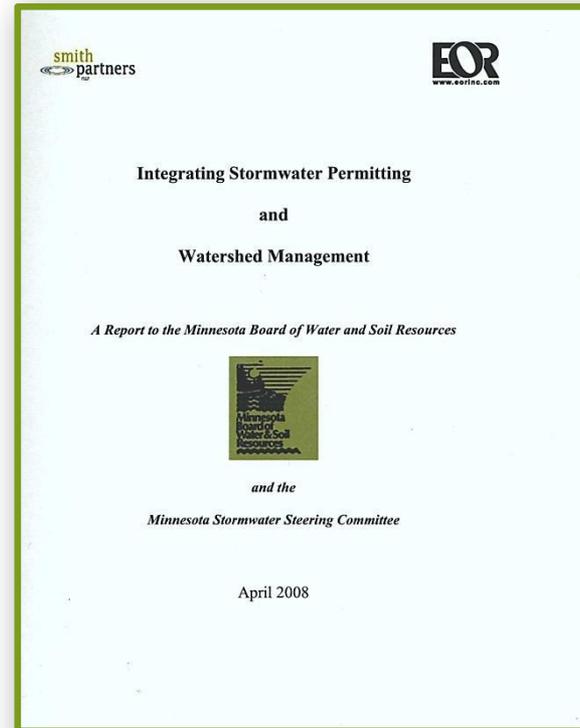
- Described the concept of and proposed process for integrated watershed-based (WB) stormwater permitting in Minnesota.
- Identified five options for WB permitting.



Project Background

2008 Integrating Report

- No legal barriers, but practical barriers exist;
- Liability exposure is manageable;
- Cost savings likely; and
- Options explored along with Agency program recommendations.



Project Background

2011-12 Phase 1 Project Scope

- Review, refine and set final approach;
- Adopt objectives, meet with and seek input from cities;
- Final costs, funding and staff requirements; and
- Set legal agreements.

PILOT WATERSHED- BASED STORMWATER APPROACH IN RAMSEY- WASHINGTON METRO WATERSHED DISTRICT



Progress to Date

Table 1

Stormwater Permit Examples	Name and /or Entity	Permit Type
Pilot No. 1	Menomonee River Watershed, WI	IPSA, future possibly Co-PA
Pilot No. 2	Middle Rio Grande River Watershed, NM	IAA, future possibly Co-PA
Pilot No. 3	RWMWD, MN	IAA, future Co-PA or SPA
1	Michigan Stormwater Permit – Watershed Approach	Either Co-PA or SPA
2	Tualatin River Watershed (CWS), OR	IPSA
3	N. KY Sanitation Dist. No. 1, KY	IPSA
4	Louisville/Jefferson County MSD, KY	IPSA
5	Neuse River Compliance Assn., NC	Co-PA potentially
6	City of S. Lake Tahoe and co-permittees, CA	IAA, with modification
7	Chesapeake Bay Watershed, MD, VA, Dist. of Columbia	Co-PA potentially
8	Lake Lewisville Watershed, TX	Unknown, possibly Co-PA
9	Cherry Creek Water Quality Basin Authority, CO	IAA, with modification
10	Southeast Metro Stormwater Authority, CO	IAA, with modification
11	Los Angeles County Flood Control District and co-permittees, CA	IPSA
12	Ventura County Watershed Protection District and co-permittees, CA	IPSA
13	Western New York Stormwater Coalition, NY	IPSA
14	Madison Area Municipal Stormwater Partnership, WI	IPSA

Phase 1, Task One Deliverable

Progress to Date

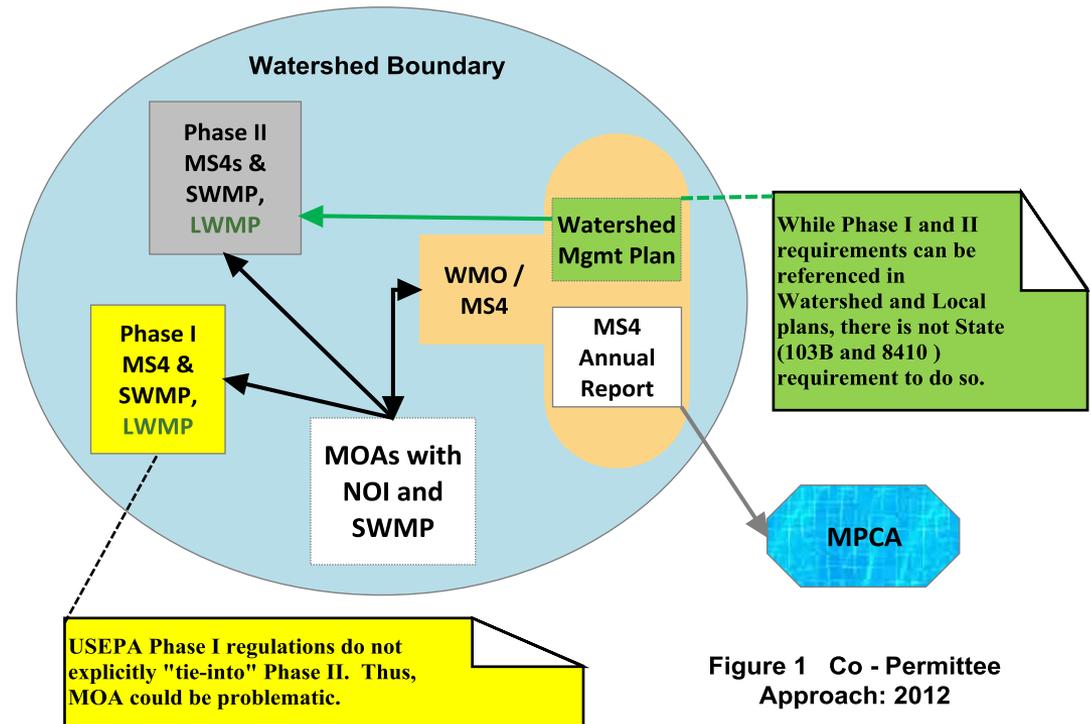
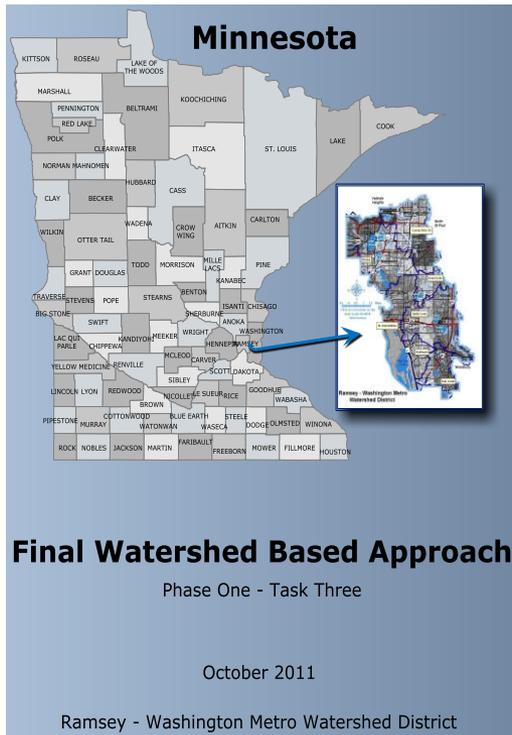


Figure 1 Co - Permittee Approach: 2012

Progress to Date

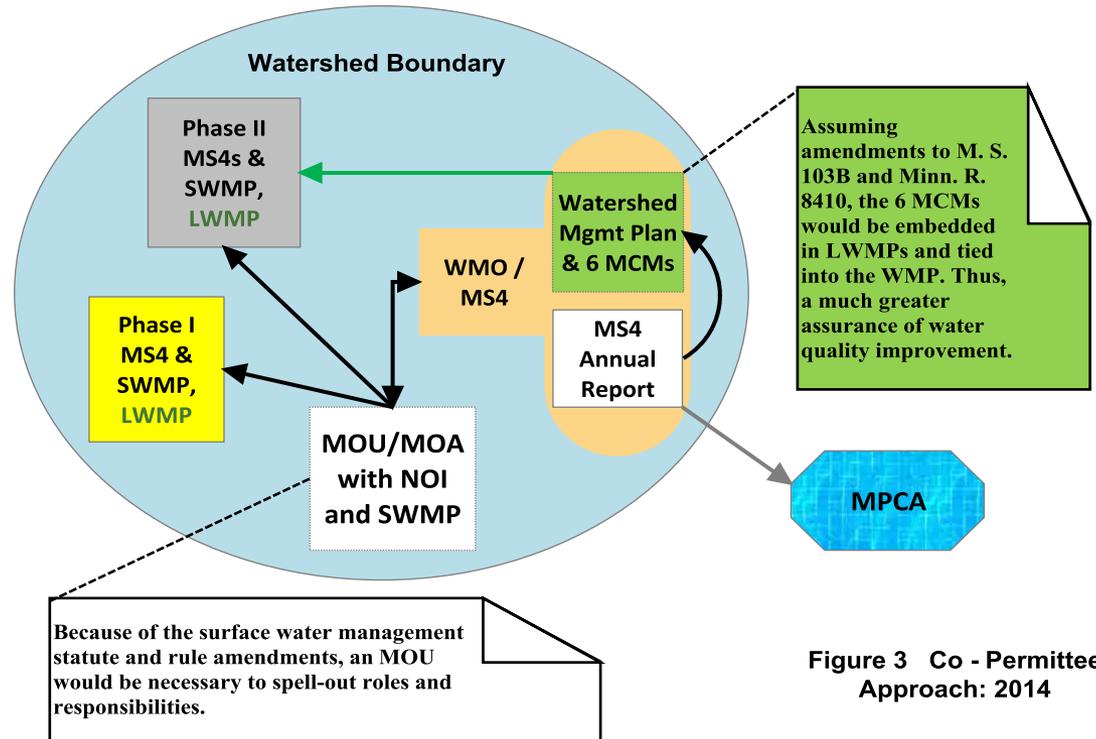
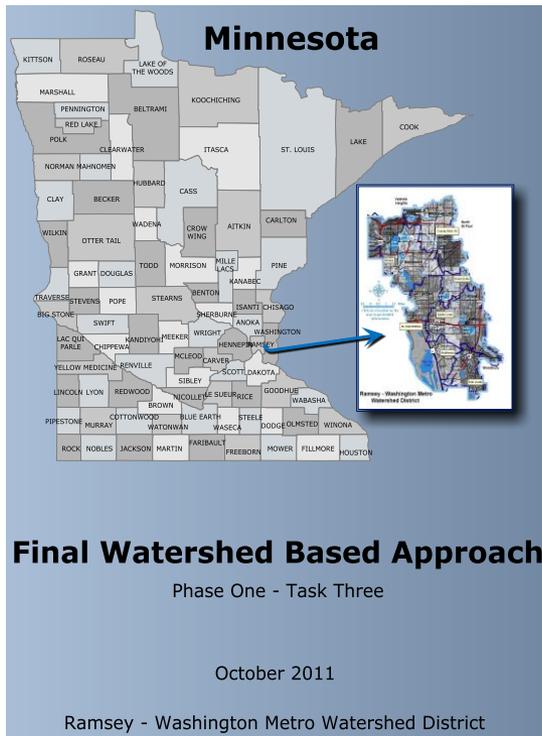


Figure 3 Co - Permittee Approach: 2014

What are the Challenges?

Phase 1 *Pilot* WB Project

- 1) Integrating a Phase I MS4 (Saint Paul) with a small MS4 *“lead permittee”* (RWMWD).
- 2) Designing and presenting a convincing WB framework (cost-savings, efficiency, WQ improvement) for MS4 negotiations.
- 3) Drafting and executing MOAs (cities), a possible MOU w/CRWD and assure the MPCA is “on-board”.

What are the Challenges?

Phase 2 *Pilot Project*

- 1) Integrating MCM 6 with MS4s (see Outcomes).
- 2) Working with MPCA on new MS4 WB General Permit.
- 3) Integrating MSGP permit holders.
- 4) “Putting it all together”: real-time receiving water monitoring, on-line permits (MSGP already there), statutes and rule clarifications, etc.

Anticipated Outcomes



Public/Private Partnerships become common with a successful WB approach (e.g. Maplewood Mall Retrofit Project, before and after Nov. 2011).

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Watershed District

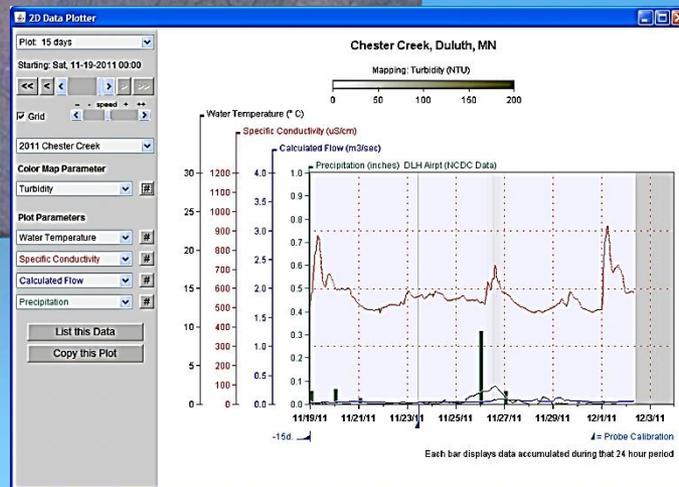


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Anticipated Outcomes

Upon completing Phase 2 *Pilot*, Best Practices for MCM 6 are implemented and receiving water quality improvement continues in the RWMWD.



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District



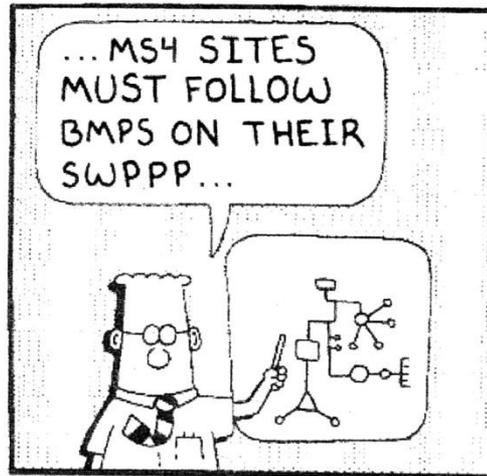
SUMMARY

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QUESTIONS
AND
ANSWERS

LEARN THE LINGO

Acronyms



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