



DATE: April 13, 2015

TO: Board of Water and Soil Resources' Members, Advisors, and Staff

FROM: John Jaschke, Executive Director 

SUBJECT: BWSR Board Meeting Notice – April 22, 2015; 9:00 – 9:30 a.m.

The Board of Water and Soil Resources (BWSR) will meet on Wednesday, April 22, 2015, 9:00 – 9:30 a.m. The meeting will be held in the lower level Board Room at 520 Lafayette Road N., St. Paul; or due to the short agenda, a conference call meeting option is available. To meet via **conference call**:
Dial: 1-888-742-5095 Conference Code: 9901147487 Leader Pin: 44749 (John Jaschke)

Parking is available in the lot directly in front of the building (see hooded parking area). The main entrance to our building will be closed for lobby construction; visitors should enter the building through the temporary public entrance located on the west side of the MPCA building on Lafayette Road, between the MPCA and DNR buildings (follow the signs). Security and a receptionist will be located at this entrance for guidance to the lower level board room.

The following information pertains to agenda items:

COMMITTEE RECOMMENDATIONS

Metro Region Committee

- 1. Shingle Creek – West Mississippi Watershed Management Commission Plan Amendment** - The final draft Amendment to the Shingle Creek – West Mississippi Watershed Management Commissions' Plan was filed with the Board on January 26, 2015. The Amendment proposes to revise the Commissions' current implementation program by adding four new capital improvement projects. The projects were identified through the Twin and Ryan Lakes Nutrient TMDL Review. The Metro Region Committee met and recommends approval of the Plan Amendment per the attached draft Order. **DECISION ITEM**
- 2. Mississippi Watershed Management Organization Plan Amendment** - The final draft Amendment to the Mississippi Watershed Management Organization's Watershed Management Plan was filed with the Board on February 17, 2015. The Amendment primarily focuses on the MWMO's modification to the Standards and the integration of projects, mapping and assessments from the new member cities of Columbia Heights, Fridley and Hilltop. A total of four projects are proposed to be added to the Capital Improvement Schedule. The Metro Region Committee met on April 7, 2015 and recommends approval of the Plan Amendment per the attached draft Order. **DECISION ITEM**

If you have any questions regarding the agenda, please feel free to call me at 651-296-0878.

The Grants Program and Policy Committee will meet immediately following the Board Meeting.

Bemidji	Brainerd	Detroit Lakes	Duluth	Mankato	Marshall	New Ulm	Rochester
403 Fourth Street NW Suite 200 Bemidji, MN 56601 (218) 755-2600	1601 Minnesota Drive Brainerd, MN 56401 (218) 203-4470	26624 N. Tower Road Detroit Lakes, MN 56501 (218) 846-8400	394 S. Lake Avenue Suite 403 Duluth, MN 55802 (218) 723-4752	12 Civic Center Plaza Suite 3000B Mankato, MN 56001 (507) 344-2821	1400 East Lyon Street Marshall, MN 56258 (507) 537-6060	261 Highway 15 South New Ulm, MN 56073 (507) 359-6074	3555 9 th Street NW Suite 350 Rochester, MN 55901 (507) 206-2889

Central Office / Metro Office 520 Lafayette Road North Saint Paul, MN 55155 Phone: (651) 296-3767 Fax: (651) 297-5615

BOARD OF WATER AND SOIL RESOURCES
520 LAFAYETTE ROAD N.
LOWER LEVEL BOARD ROOM
ST. PAUL, MINNESOTA 55155
WEDNESDAY, APRIL 22, 2015
9:00 AM – 9:30 AM

PRELIMINARY AGENDA

9:00 AM CALL MEETING TO ORDER

PLEDGE OF ALLEGIANCE

ADOPTION OF AGENDA

MINUTES OF MARCH 25, 2015 BOARD MEETING

PUBLIC ACCESS FORUM (10-minute agenda time, two-minute limit/person)

REPORTS

- Chair & Administrative Advisory Committee – Brian Napstad
- Executive Director – John Jaschke

COMMITTEE RECOMMENDATIONS

Metro Region Committee

1. Shingle Creek - West Mississippi Watershed Management Commission Plan Amendment – Steve Christopher – **DECISION ITEM**
2. Mississippi Watershed Management Organization Plan Amendment – Steve Christopher – **DECISION ITEM**

UPCOMING MEETINGS

- Grants Program & Policy Committee, immediately following Board Meeting
- Next BWSR Board Meeting, May 27, 2015, St. Paul

9:30 AM ADJOURN

**BOARD OF WATER AND SOIL RESOURCES
520 LAFAYETTE ROAD N.
LOWER LEVEL CONFERENCE ROOM
ST. PAUL, MINNESOTA 55155
WEDNESDAY, MARCH 25, 2015**

BOARD MEMBERS PRESENT:

Jeff Berg, MDA; Jill Crafton, Jack Ditmore, Chris Elvrum, MDH; Doug Erickson, Rebecca Flood, MPCA; Kathryn Kelly, Tom Landwehr, DNR; Tom Loveall, Brian Napstad, Neil Peterson, Tom Schulz, Steve Sunderland, Gene Tiedemann, Gerald Van Amburg

BOARD MEMBERS ABSENT:

Joe Collins
Sandy Hooker
Faye Sleeper, MES

STAFF PRESENT:

Mary Jo Anderson, Angie Becker Kudelka, Tim Dykstal, Greg Fetter, Travis Germundson, John Jaschke, Al Kean, Tim Koehler, Melissa Lewis, Jeff Nielsen, Dave Weirens

OTHERS PRESENT:

Jason Garms, DNR
Gaylen Reetz, MPCA
Walter Albarran, NRCS

CALL MEETING TO ORDER – Chair Napstad called the meeting to order at 9:07 a.m.

PLEDGE OF ALLEGIANCE

- **** **ADOPTION OF AGENDA** – John Jaschke noted that the order of New Business items has changed.
15-14 Moved by Rebecca Flood, seconded by Tom Schulz, to adopt the agenda as presented. *Motion passed on a voice vote.*

- **** **MINUTES OF JANUARY 28, 2015 BOARD MEETING** – Jack Ditmore asked for clarification on page five, regarding #15-09, the statement ‘of an extension of the three-year extension’. John Jaschke stated that staff will review the Order. Moved by Kathryn Kelly, seconded by Doug Erickson, to approve the minutes of January 28, 2015 as presented. *Motion passed on a voice vote.* (The statement in question is in error and will be removed from the minutes of January 28, 2015.)
15-15

PUBLIC ACCESS FORUM – Travis Germundson noted that correspondence was received regarding the redistribution of manager appointments for the Middle-Snake-Tamarac Rivers Watershed District. Travis stated that the parties were unable to attend the Board meeting today. Two letters are included in board members’ packets for information. A letter from Warren Strandell, Polk County Board Chair, dated March 24, 2015; and a letter from three members of the public Jim Stengrim, Loren Zutz, Elden Elseth, dated March 24, 2015. Chair Napstad stated that the item is on the agenda later today.

INTRODUCTION OF NEW EMPLOYEE – Angie Becker Kudelka introduced Greg Fetter, IT Services Manager in the St. Paul office. Chair Napstad welcomed Greg to BWSR.

REPORTS

Chair’s Report – Brian Napstad reported that he attended the EQB meeting on February 18, 2015. The EQB authorized the reassignment of Responsible Governmental Unit (RGU) duties from Hennepin County to DNR for environmental review of Lock & Dam 1. The project by the U.S. Army Corps of Engineers (USACE) is intended to protect the structure from excessive scouring. Chair Napstad also attended the EQB meeting on March 18, the Interagency Report on Oil Pipelines was presented; the Report is in draft status, posted on the EQB website. Chair Napstad reported that the EQB meetings are now webcast.

Chair Napstad attended the AMC Legislative Conference March 4-5; good BWSR representation, Dave Weirens provided an overview of WCA. Chair Napstad testified at hearings on WCA.

Administrative Advisory Committee (AAC) – Chair Napstad reported that the Administrative Advisory Committee met this morning. The AAC discussed the executive director’s annual performance review. Chair Napstad thanked board members for completing John Jaschke’s performance review using the confidential survey. Chair Napstad thanked Angie Becker Kudelka for compiling the anonymous review responses. Chair Napstad and Vice Chair Gerald Van Amburg met with John last night to conduct his performance review. John is ranked very good to outstanding in all areas and has strong leadership skills. Chair Napstad will write a memo for John’s personnel file. Board members should contact Chair Napstad if they want to discuss the review. Chair Napstad reported that the AAC also discussed legislative updates, board appointments; and buffers, on the agenda later today.

Audit & Oversight Committee – Chair Napstad reported that the Audit & Oversight Committee item is on the agenda later today.

Executive Director's Report – John Jaschke reviewed information in board members' packets including a legislative update and provided a brief overview of articles in BWSR Snapshots.

Dispute Resolution Committee – Travis Germundson reported that there are presently 12 appeals pending; one new appeal File #15-3, a restoration order in Wabasha County. File #14-5 appeal in Kandiyohi County, a settlement agreement has been reached and the appeal dismissed. File #14-1, appeal in Stearns County, a settlement agreement has been reached and the appeal dismissed. Chair Napstad thanked Travis for his report.

Grants Program & Policy Committee – Steve Sunderland reported that the Grants Program & Policy Committee has not met; the Committee will meet in April.

Water Management & Strategic Planning Committee – Jack Ditmore reported that the Water Management & Strategic Planning Committee did not meet this month. Melissa Lewis provided an update, and lessons learned on the One Watershed, One Plan pilot. Discussion followed. Melissa explained that local government staff and interagency representatives will be interviewed, feedback will be used to streamline and adjust the framework for the statewide rollout of the program. The final One Watershed, One Plan program is anticipated to be adopted by BWSR in January 2016. Chair Napstad thanked Melissa for the update.

Wetlands & Drainage Committee – Gerald Van Amburg reported that the Wetlands & Drainage Committee did not meet; the Committee will meet in May.

Drainage Work Group (DWG) – Tom Loveall reported that the Drainage Work Group has not met during the 2015 legislative session. Al Kean provided a brief overview of three legislative drainage bills; three DWG subgroups upcoming meetings and topics of discussion; and provided a brief update of the Minnesota Public Drainage Manual. Chair Napstad thanked Al for the update.

COMMITTEE RECOMMENDATIONS

North Region Committee

Redistribution of Manager Appointments for the Middle-Snake-Tamarac Rivers Watershed District (MSTRWD) – Travis Germundson referenced the two letters introduced during the Public Access Form; noted that a copy of exhibit documents are on the table for information and an electronic link of the scanned documents was included in the Board Packet; and a map showing distribution of the MSTRWD managers appointments as of July 2014.

Travis provided a chronological update from the time the petition was filed with the Board. Polk County Board of Commissioners petitioned the Board of Water and Soil Resources to redistribute manager appointments for the Middle-Snake-Tamarac Rivers Watershed District pursuant to Minn. Stat. § 103D.301, Subd. 3. The current distribution of manager appointments is as follows: Marshall 6, Polk 1, Pennington 0, Kittson 0, and Roseau 0. The petition indicates that residents within the district have expressed frustration and concerns with the District Managers and that proper adherence to Minn. Stat. § 103D.301 Subd. 1 with appointments by Kittson, Roseau, and Pennington Counties will assist in addressing those issues. A public hearing and two public meetings were held and presided over by the North Region Committee and based on the entire record the Committee recommends that the petition be denied. The recommendation to deny the petition would leave the current distribution of managers unchanged. The Committee determined that there is little evidence that the other counties are interested in having an appointment; the petition does not request an additional manager appointment for Polk County; redistribution of managers will not likely resolve the issues addressed in the petition;

changes have occurred over the past year as to new manager appointments, staff, and training; finally, BWSR is committed to assist the Watershed in implementing recommendations in the 2008 Performance Review and Assistance Program (PRAP) Report.

As a follow up to the PRAP Report discussion, BWSR's staff have since met with the District and as a result, the Board of Managers have agreed to move forward with some of the recommendations in the 2008 report and intend to apply for a PRAP grant to assist in moving forward with the recommendations.

Gerald Van Amburg stated that many opportunities were provided for input for those involved over this long period of time; there is no way to satisfy everyone in the process. Gerald stated that the North Region Committee's recommendation for denial of the petition is summarized in the Findings of Fact of the Order. BWSR is committed to assisting the MSTRWD in implementing the recommendations as referenced in the District's PRAP Report.

Tom Schulz noted the map shows that Polk County does not have a manager. Gene Tiedemann mentioned that they have since filled that position. BWSR granted the petitioner's request on several occasions to delay the proceedings to explore local options to resolve this on their own. Tom stated that this is a high performing watershed district that needs to resolve issues and move forward.

** Moved by Tom Schulz, seconded by Jill Crafton, that the Board denies the petition to redistribute the managers of the Middle-Snake-Tamarac Rivers Watershed District based on the Committee's recommendation and findings. The current distribution of managers will remain unchanged. Marshall County Board of Commissioners will continue to appoint six managers positions and Polk County Board of Commissioners will continue to appoint one manager position with the total number of managers to remain at seven. Discussion followed.

15-16 Jack Ditmore suggested a change on page 10, #12, omit the word 'occur'. Tom Schulz asked that the spelling of his name be corrected throughout the Order. Chair Napstad stated that the Northern Region Committee discussed potential improvements the current appointees could implement, and noted interest in following up on recommendations developed in the PRAP report. Corrections needed on page 9, #9. 'that' and 'record in' are duplicated. Chair Napstad stated that corrections be made on the Order for his signature. **Motion passed on a voice vote.** Neil Peterson, county commissioner, abstained from voting.

Chair Napstad called for a break in the meeting at 10:35 a.m. The meeting reconvened at 10:45 a.m.

Southern Region Committee

Le Sueur County Comprehensive Local Water Management Plan Extension Request – Jeff Nielsen reported that the Le Sueur County Comprehensive Local Water Management Plan is in effect until December 31, 2015. On January 6, 2015, the Board received a petition from Le Sueur County requesting a six month extension to June 30, 2016. The extension request is to allow time for a new water planner to collaborate with partners, follow through on the County's resolution to participate in the Watershed Restoration and Protection Strategies (WRAPS) process and transition to One Watershed, One Plan (1W1P). The Southern Region Committee met on January 28, 2015, and recommends approval of the Le Sueur County extension request. Jack Ditmore asked Jeff to provide Melissa Lewis with information as it relates to the 1W1P effort. Moved by Kathryn Kelly, seconded by Tom Loveall, to approve the extension of the Le Sueur County Comprehensive Local Water Management Plan until June 30, 2016.

15-17 **Motion passed on a voice vote.**

Lyon County Comprehensive Local Water Management Plan Waiver Request – Jeff Nielsen reported that the Lyon County Comprehensive Local Water Management Plan is effective until December 17, 2018, with a required amendment to the Implementation section by December 31, 2015. On January 12, 2015, BWSR received a written request from the Lyon County Board of Commissioners requesting a waiver to allow Lyon County and its local partners time to effectively participate in the Yellow Medicine One Watershed, One Plan pilot and the development of Watershed Restoration and Protection Strategies (WRAPS) within the County. The Southern Region Committee met on January 28, 2015, and recommends approval of the Lyon County waiver request. Moved by Kathryn Kelly, seconded by Chris Elvrum, to approve the waiver of the requirement for a five-year amendment of the Lyon County Comprehensive Local Water Management Plan. *Motion passed on a voice vote.*

Yellow Medicine County Local Water Management Plan Extension Request – Jeff Nielsen reported that the Yellow Medicine County Board of Commissioners requested an extension to the Local Water Management Plan to align watershed based planning efforts that are occurring in their region. The extension will allow Yellow Medicine County and its local partners time to more effectively participate in the Yellow Medicine One Watershed, One Plan pilot and development of Watershed Restoration and Protection Strategies (WRAPS) within the County. The Southern Region Committee met on January 28, 2015, and recommends approval of the Yellow Medicine County extension request. Moved by Kathryn Kelly, seconded by Chris Elvrum, to approve the extension of the Yellow Medicine County Comprehensive Local Water Management Plan until December 31, 2016. *Motion passed on a voice vote.*

Winona County Local Water Management Plan Extension Request – Jeff Nielsen reported that the Winona County Board of Commissioners request an extension of their current Local Water Management Plan until December 31, 2018, to align watershed based planning efforts that are occurring in their region. The extension will allow Winona County and its local partners time to more effectively participate in the Root River One Watershed, One Plan pilot and development of Watershed Restoration and Protection Strategies (WRAPS) within the County. The Southern Region Committee met January 28, 2015, and recommends approval of the Winona County extension request. Moved by Kathryn Kelly, seconded by Tom Loveall, to approve the extension of the Winona County Comprehensive Local Water Management Plan until December 31, 2018. Discussion followed regarding flexibility and the commitment from partners to work together on the 1W1P process. *Motion passed on a voice vote.*

Cedar River Basin Extension Requests – Jeff Nielsen reported that Mower County’s Comprehensive Local Water Management Plan is in effective until December 31, 2015. Turtle Creek Watershed District’s Watershed Management Plan that covers the period of January 28, 2004 through January 28, 2014. Both Mower County and Turtle Creek Watershed District are now requesting additional time to align watershed based planning efforts that are occurring in their region. BWSR received a written request from the Mower County Board of Commissioners and the Turtle Creek Watershed District Board of Managers requesting extension of the effective date of their current Plans until December 31, 2018. These extensions will allow Mower County time to more effectively participate in the Root River One Watershed, One Plan pilot and help synchronize resources and water management efforts of Mower County, Turtle Creek Watershed District and partners with the development of Watershed Restoration and Protection Strategies (WRAPS) in the Cedar River Basin. The Southern Region Committee met on January 28, 2015, and recommends approval of the Mower County and Turtle Creek Watershed District’s extension requests. Moved by Kathryn Kelly, seconded by Jill Crafton, to approve the extension of the Mower County Comprehensive Local Water Management Plan until December 31, 2018, and the extension of the Watershed Management Plan for Turtle Creek Watershed District until December 31, 2018.

Jack Ditmore stated his concern with the four-year extension and commitments to 1W1P when funding is unknown. Chris Elvrum stated the commitment to the timeframe, the funding considerations were not discussed at the Committee meeting, although internal funding could be utilized if needed. Discussion followed. Jeff reported on the contingency statement on page 3, #3; a signed copy has been received. *Motion passed on a voice vote.* Kathryn thanked the Committee; Jeff Nielsen, and Melissa Lewis for their efforts on the extension process.

NEW BUSINESS

Office of Legislative Auditor's (OLA) Audit of BWSR's Clean Water Fund Expenditures – Tim Dykstal presented the findings and recommendations of the OLA. Jill Crafton stated that she's impressed with BWSR's learning process and commended staff on the good job they have done. Jack Ditmore congratulated staff on the work they do. Chair Napstad thanked Tim for his report.

Governor's Buffer Initiative – John Jaschke provided background information used in the development of the Governor's buffer initiative. Work is being done under the direction of Governor Dayton to accomplish the initiative. Input meetings convened with stakeholders, agricultural interests, environment and conservation organizations, and federal, state, and local government representatives. John stated that Representative Torkelson (HF1534) and Senator Marty (SF1537) are authors of the riparian buffer bill; hearings and discussions continue to be held.

Tim Koehler introduced Al Kean, BWSR; Jason Garms, DNR; and Glenn Skuta, MPCA. Tim stated that BWSR, MPCA, DNR and MDA are working on the Governor's Buffer Initiative. Glenn presented information on riparian buffers on a statewide scale. Tom Schulz asked for a county overlay map; Glenn will provide the map to board members. Tim stated that the buffer initiative is statewide, protecting water resources from erosion and runoff pollution by establishing at least 50 feet of vegetation around the state's perennial waters. Tim distributed a list of primary changes in Senator Marty's amendment to the original language in SF1537. Tim stated that local support is key; SWCDs will implement the buffer requirement, including planning, technical assistance to landowners, approval of alternative practices, and tracking and reporting progress. Tim stated that landowners can be compensated by federal Farm Bill resources, other state program conservation funds, or other voluntary efforts.

Al Kean provided an overview of Governor Dayton's Buffer Initiative factsheet. Jason reported that DNR will establish and maintain an inventory map of each county showing waters subject to the buffer requirement. Tom Landwehr stated that Senator Marty's bill is being modified as concerns are taken into consideration. Walter Albarron, NRCS, stated that at the federal level, NRCS provides tech assistance, EQIP is a voluntary program; and FSA provides administrative assistance.

Tim stated that it's important to note that the current proposal does not propose to change the shoreland rules or drainage law. The Governor's proposal does not include easement money in the first 50 feet, alternate practices are available for landowners. The idea of a no-fault clause is needed. Chair Napstad stated that until legislation is in place, there are many unanswered questions to the buffer initiative. Jason stated that the buffer initiative is not the cure all for water quality issues, many other steps are needed. DNR has a website with buffer information posted. Chair Napstad thanked John, Tim, Al, Jason, and Glenn for the informative presentation.

AGENCY REPORTS

Minnesota Department of Agriculture (MDA) – Chair Napstad welcomed Jeff Berg, MDA water quality specialist, attending today on behalf of Matt Wohlman.

Minnesota Department of Natural Resources (DNR) – Tom Landwehr reported that the State is in a drought condition, substantially effecting crop production and an anticipated season for wild fires.

ADVISORY COMMENTS

Natural Resources Conservation Service (NRCS) – Chair Napstad welcomed Walter Albarran, NRCS Acting State Conservationist. Walter announced the new State Conservationist Cathee Pullman, currently serving at NRCS in Maine, she will start in Minnesota on May 17. Walter reported that NRCS is updating their electronic process with a pilot in four areas of the state to streamline business services, administration merged into a new unit to oversee management issues. Walter stated that NRCS has a high workload regarding wetland issues, ten positions to be hired. USDA/NRCS funding appropriations were announced in February; three sign-ups for EQIP, obligations to be done by summer; received 30% increase in easements. NRCS State Tech Committee meeting will be held June 16, in St. Cloud. Walter stated that he has enjoyed working in Minnesota the last three months. John Jaschke reported that Bill Hunt, former NRCS State Conservationist, passed away last month. Chair Napstad thanked Walter for his report.

Jeff Nielsen announced the Conservation Technology Information Center (CTIC) nationwide tour on August 11-12 in southeast Minnesota; board members invited to attend, anticipate about 200 people on the tour. Jeff stated that the BWSR tour will be held August 26, also in the southeast between Northfield and Red Wing.

UPCOMING MEETINGS

- Next BWSR Board Meeting is April 22, 2015, in St. Paul.

** Moved by Tom Landwehr, seconded by Kathryn Kelly, to adjourn the meeting at 12:55 p.m. *Motion*
15-22 *passed on a voice vote.*

Respectfully submitted,

Mary Jo Anderson
Recorder

COMMITTEE RECOMMENDATIONS

Metro Region Committee

1. Shingle Creek - West Mississippi Watershed Management Commission Plan Amendment – Steve Christopher – ***DECISION ITEM***

2. Mississippi Watershed Management Organization Plan Amendment – Steve Christopher – ***DECISION ITEM***



BOARD MEETING AGENDA ITEM

AGENDA ITEM TITLE: Shingle Creek and West Mississippi WMCs Plan Amendment

Meeting Date: April 22, 2015

Agenda Category: Committee Recommendation New Business Old Business

Item Type: Decision Discussion Information

Section/Region: Metro Region

Contact: Steve Christopher

Prepared by: Steve Christopher

Reviewed by: Metro Region Committee(s)

Presented by: Steve Christopher

Audio/Visual Equipment Needed for Agenda Item Presentation

Attachments: Resolution Order Map Other Supporting Information

Fiscal/Policy Impact

- None
- Amended Policy Requested
- New Policy Requested
- Other:
- General Fund Budget
- Capital Budget
- Outdoor Heritage Fund Budget
- Clean Water Fund Budget

ACTION REQUESTED

Approval of Shingle Creek – West Mississippi Watershed Management Commissions’ Plan Amendment

LINKS TO ADDITIONAL INFORMATION

- [http://www.bwsr.state.mn.us/boardpackets/water_plng/April22Mtg/SCWMC Revised Table 4_5.pdf](http://www.bwsr.state.mn.us/boardpackets/water_plng/April22Mtg/SCWMC_Revised_Table_4_5.pdf)
- [http://www.bwsr.state.mn.us/boardpackets/water_plng/April22Mtg/SCWMC Revised Appendix F.pdf](http://www.bwsr.state.mn.us/boardpackets/water_plng/April22Mtg/SCWMC_Revised_Appendix_F.pdf)

SUMMARY *(Consider: history, reason for consideration now, alternatives evaluated, basis for recommendation)*

Background:

The Shingle Creek and the West Mississippi Watershed Management Organizations are located exclusively in Hennepin County in the northwest portion of the Minneapolis – St. Paul seven county metropolitan area. The Shingle Creek and West Mississippi watersheds cover 44.5 square miles and 23 square miles respectively. There are sixteen lakes in the Shingle Creek watershed, and none in West Mississippi. Combined the watersheds have approximately 20.5 miles of stream. Both watersheds are predominantly fully developed, with the remaining land being currently developed.

Joint Powers Agreements established the Shingle Creek and the West Mississippi Watershed Management Organizations (Commissions) in 1984. During the development process of the Second Generation Plan, both Commissions agreed upon merging the plan preparation, operating policies, and administration for efficiency purposes, but remain separate, politically distinct Watershed Management Organizations. The third generation watershed management plan was approved by BWSR in March 2013.

Plan Amendment Summary:

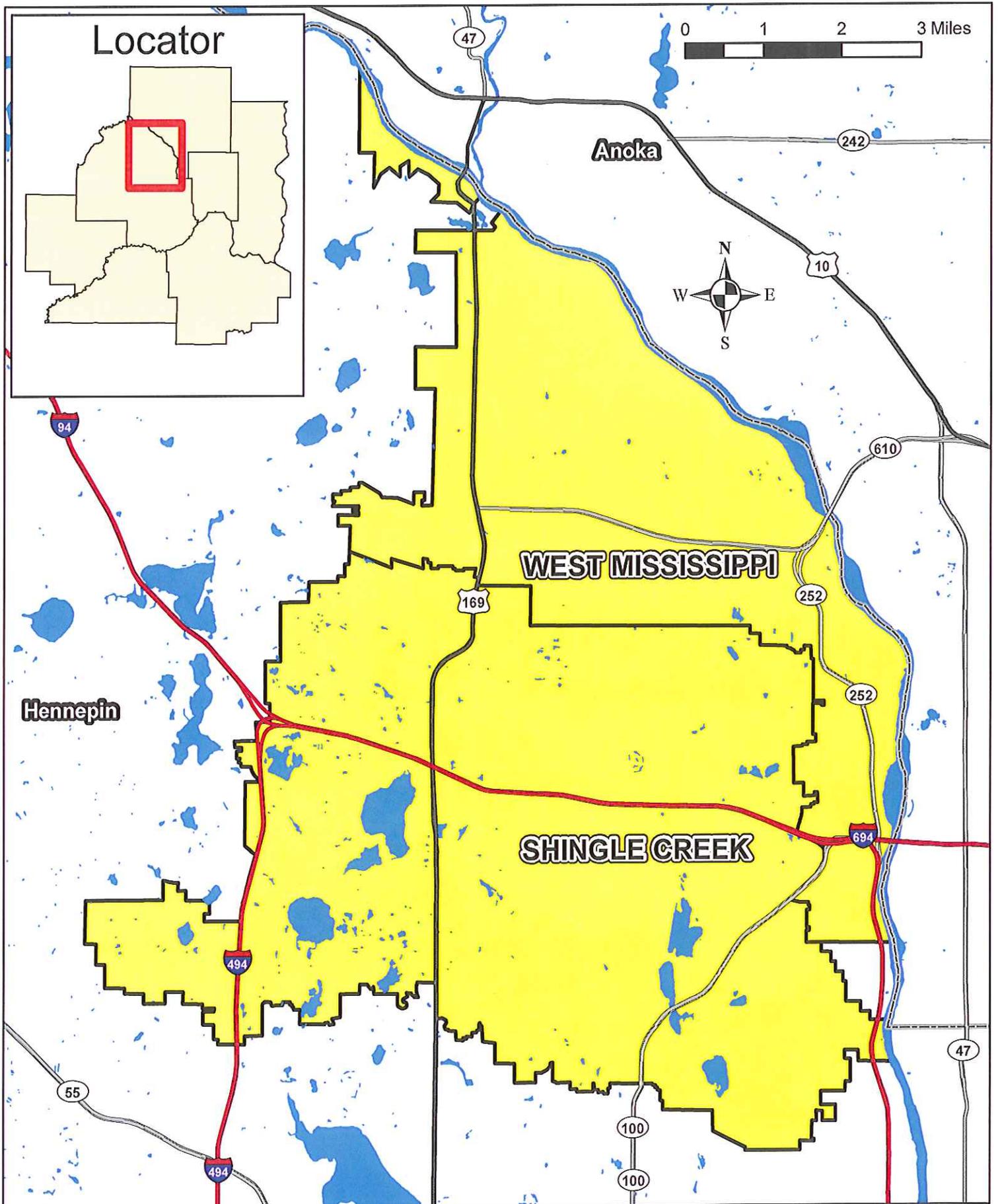
The Amendment proposes to revise the implementation program by adding four new capital improvement projects. The projects were identified through the Twin and Ryan Lakes Nutrient TMDL Five Year Review as "priority retrofit" projects. Three of the projects are to maximize storage capacity and include water quality benches along existing ponds. The fourth project includes phosphorus load reduction BMPs.

The majority of the review agencies did not provide comment on the proposed amendment and the Department of Transportation expressed the need for review of the plans for the 45th Avenue pond project to ensure that it will not exacerbate flood potential for the area. The Commissions are addressing this concern by allowing for review and comment by the Department of Transportation prior to construction of the pond project.

Recommendation:

Staff recommended approval of the Shingle Creek and West Mississippi Watershed Management Commissions Plan Amendment dated September 2014 to the Metro Region Committee on April 7, 2015. The Committee voted unanimously to recommend approval of the Plan Amendment to the Board per the attached draft Order.

Shingle Creek & West Mississippi Watershed Management Organizations



Minnesota Board of Water and Soil Resources
520 Lafayette Road North
Saint Paul, Minnesota 55155

In the Matter of the review of the
Amendment to the Watershed Management
Plan for the **Shingle Creek and the West
Mississippi Watershed Management
Organizations**, pursuant to Minnesota
Statutes Section 103B.231, Subdivision 11.

**ORDER
APPROVING
AMENDMENT TO
WATERSHED
MANAGEMENT PLAN**

Whereas, the Boards of Commissioners of the Shingle Creek and the West Mississippi Watershed Management Organizations (Commissions) submitted an Amendment to the joint Watershed Management Plan (Amendment) dated September 2014 to the Minnesota Board of Water and Soil Resources (Board) pursuant to Minnesota Statutes Section 103B.231, subd. 11, and;

Whereas, the Board has completed its review of the Amendment;

Now Therefore, the Board hereby makes the following Findings of Fact, Conclusions and Order:

FINDINGS OF FACT

- 1. WMO Establishment.** Joint Powers Agreements established the Shingle Creek and the West Mississippi Watershed Management Organizations (Commissions) in 1984. Each Commission is comprised of one member appointed from each community by their respective city council. The first Watershed Management Plan was published in April 1990. During the development process of the Second Generation Plan, both Commissions agreed upon merging the plan preparation, operating policies, and administration for efficiency purposes, but remain separate, politically distinct Watershed Management Organizations. Four out of the five member cities of the West Mississippi Watershed Management Commission are also members of the Shingle Creek Watershed Management Commission. The third generation watershed management plan was approved by the Board in March 2013. The attached amendment will be incorporated into the joint Watershed Management Plan once approved and adopted.
- 2. Authority to Plan.** The Metropolitan Surface Water Management Act requires the preparation of a watershed management plan for the subject watershed area which meets the requirements of Minnesota Statutes Sections 103B.201 to 103B.251. The watershed management plan may be amended according to Minnesota Statutes Section 103B.231, subd. 11.

3. **Nature of the Watershed.** The Shingle Creek and the West Mississippi Watershed Management Organizations are located exclusively in Hennepin County in the northwest portion of the Minneapolis – St. Paul seven county metropolitan area. They are bound by the Mississippi River to the north and east, on the southeast by the Mississippi WMO, on the south by Bassett Creek WMO, and on the west by the Elm Creek WMO. Both watersheds encompass all or part of the following ten municipalities: Brooklyn Center, Brooklyn Park, Champlin, Crystal, Maple Grove, Minneapolis, New Hope, Osseo, Plymouth, and Robbinsdale. The Shingle Creek and West Mississippi watersheds cover 44.5 square miles and 23 square miles respectively. There are sixteen lakes in the Shingle Creek watershed, and none in West Mississippi. Combined, the watersheds have approximately 20.5 miles of stream. Both watersheds are predominantly fully developed, with the remaining land being currently developed.
3. **Amendment Development and Review.** The draft Amendment was submitted to the Board, the plan review agencies, and local governments for the required 60-day review on September 17, 2014. The Amendment proposes to revise the implementation program by adding four capital improvement projects to improve water quality. The Commissions held a public hearing on December 13, 2014. No revisions to the Amendment were made as a result of comments received. The final draft Amendment was submitted to the Board and plan review agencies on January 26, 2015, for final review and approval.
4. **Local Review.** The Commissions circulated a copy of the draft Amendment to local units of government for their review pursuant to Minnesota Statutes Section 103B.231, subd. 7, and the only comments were supportive of the amendment.
5. **Metropolitan Council Review.** The Metropolitan Council stated that the amendment is consistent with the Water Resources Policy Plan.
6. **Department of Agriculture Review.** The MDA stated that there were no comments on the Amendment.
7. **Department of Health Review.** The MDH did not comment on the Amendment.
9. **Department of Natural Resources Review.** The DNR stated that there were no comments on the Amendment.
10. **Pollution Control Agency Review.** The MPCA did not comment on the Amendment.
11. **Department of Transportation Review.** The DOT commented that review of the 45th Avenue pond would need to take place to ensure that the flood potential does not increase as a result of the project. The Commissions will allow for review and comment by the DOT prior to construction of the pond project.

12. **Board Review.** Board staff commented that the proposed amendment is compliant with statute.
13. **Amendment Summary.** The Amendment proposes to revise the implementation program by adding four new capital improvement projects. The projects were identified through the Twin and Ryan Lakes Nutrient TMDL Five Year Review as “priority retrofit” projects. Three of the projects are to maximize storage capacity and include water quality benches along existing ponds. The fourth project includes phosphorus load reduction BMPs.
14. **Metro Region Committee Meeting.** On April 7, 2015, the Board’s Metro Region Committee and staff met in St. Paul to review and discuss the Amendment. Those in attendance from the Board’s Committee were Jack Ditmore, Jill Crafton, Rebecca Flood, and Joe Collins, chair. Board staff in attendance were Metro Region Supervisor Jim Haertel and Board Conservationist Steve Christopher. Board staff recommended approval of the Amendment. After discussion, the Committee voted unanimously to recommend approval of the Amendment to the full Board.

CONCLUSIONS

1. All relevant substantive and procedural requirements of law and rule have been fulfilled.
2. The Board has proper jurisdiction in the matter of approving an Amendment to the Watershed Management Plan for the Shingle Creek and the West Mississippi Watershed Management Organizations pursuant to Minnesota Statutes Section 103B.231, subd. 11.
3. The Shingle Creek and the West Mississippi Watershed Management Organizations’ Amendment attached to this Order defines the need and purpose of the Watershed Management Plan changes and the methods of financing.
4. The attached Amendment is in conformance with the requirements of Minnesota Statutes Sections 103B.201 to 103B.251.

ORDER

The Board hereby approves the attached Amendment dated September 2014 to the Shingle Creek and West Mississippi Watershed Management Organizations Watershed Management Plan.

Dated at Saint Paul, Minnesota this 22nd day of April 2015.

MINNESOTA BOARD OF WATER AND SOIL RESOURCES

BY: Brian Napstad, Chair

Revise Table 4.5 as follows (additions are underlined, deletions are ~~struck-out~~):

Table Error! No text of specified style in document.1. Shingle Creek WMC Third Generation Plan Implementation Plan.

CAPITAL IMPROVEMENT PROGRAM		2013	2014	2015	2016	2017	2018-2022		
Action	Goals	Priority	Actions	2013	2014	2015	2016	2017	2018-2022
Commission Fund for Retrofit Projects	A.1, B.1, B.2, B.3, B.4, B.5, F.2, F.6	1, 4	B.c, B.e, C.b, F.f	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000
Maple Grove Pond P57	B.5	1, 4	B.d	\$648,000					
Commission Contribution				486,000					
Local Contribution				162,000					
Maple Grove Pond P33	B.5	1, 4	B.d	\$574,000					
Commission Contribution				143,500					
Local Contribution				430,500					
Shingle Creek Reareation Project	B.4	1, 4	B.d	\$ 160,000					
Commission Contribution				40,000					
Local Contribution				120,000					
Shingle Creek Brookdale Park Habitat Enhancement	B.4	1, 4	B.d	\$ 150,000					
Commission Contribution				37,500					
Local Contribution				112,500					
Maple Grove Pond P55	B.5	1, 4	B.d	\$855,000					
Commission Contribution				213,800					
Local Contribution				641,200					
Plymouth Bass Lake Pond	B.2	1, 4	B.d	\$275,000					
Commission Contribution				68,800					
Local Contribution				206,200					
Minneapolis Webber Park Stream Restoration	B.4	1, 4	B.d	\$500,000					
Commission Contribution				125,000					
Local Contribution				375,000					
Shingle Creek Restoration, Regent to Brooklyn Blvd	B.4	1, 4	B.d	\$400,000					
Commission Contribution				100,000					
Local Contribution				300,000					
Minneapolis Flood Area 5 Water Quality Projects	B.2	1, 4	B.d				\$6,000,000		\$6,000,000
Commission Contribution							250,000		250,000
Local Contribution							5,750,000		5,750,000
Shingle Creek or Bass Creek Restoration Project*	B.4	1, 4	B.d				\$ 500,000	\$500,000	\$1,000,000
Commission Contribution							125,000	125,000	250,000
Local Contribution							375,000	375,000	750,000
Lake Internal Load Improvement Project**	B.2, B.3	1, 4	B.d			\$200,000		\$200,000	\$400,000
Commission Contribution						50,000		50,000	100,000

CAPITAL IMPROVEMENT PROGRAM										
Action	Goals	Actions	Priority	2013	2014	2015	2016	2017	2018-2022	
Local Contribution										
Meadow Lake Drawdown Project***	B.3	B.d	1, 4			150,000	Postponed Pending Additional Study	150,000	300,000	
Commission Contribution										
Local Contribution										
<u>Lions Park Pond Retrofit</u>	<u>B.4</u>	<u>B.d</u>	<u>1, 4</u>			<u>\$160,000</u>				
<u>Commission Contribution</u>						<u>40,000</u>				
Local Contribution						<u>120,000</u>				
<u>45th Avenue Pond Retrofit</u>	<u>B.4</u>	<u>B.d</u>	<u>1, 4</u>				<u>\$270,000</u>			
<u>Commission Contribution</u>							<u>67,500</u>			
Local Contribution							<u>202,500</u>			
<u>Kilmer Pond Retrofit</u>	<u>B.4</u>	<u>B.d</u>	<u>1, 4</u>					<u>\$125,000</u>		
<u>Commission Contribution</u>								<u>31,250</u>		
Local Contribution								<u>93,750</u>		
Priority BMP Retrofits										
<u>Commission Contribution</u>	<u>B.4</u>	<u>B.d</u>	<u>1, 4</u>			<u>\$100,000</u>	<u>\$100,000</u>	<u>\$100,000</u>	<u>\$100,000</u>	
Local Contribution						<u>50,000</u>	<u>50,000</u>	<u>50,000</u>	<u>50,000</u>	
<u>Commission Contribution</u>						<u>50,000</u>	<u>50,000</u>	<u>50,000</u>	<u>50,000</u>	
<u>Local Contribution</u>										
TOTAL PROJECT COST	-		-	<u>-\$1,422,000</u>	<u>-\$1,680,000</u>	<u>-\$650,000</u>	<u>-\$6,550,000</u>	<u>-\$750,000</u>	<u>-\$7,650,000</u>	
TOTAL COMMISSION SHARE	-		-	<u>-\$343,000</u>	<u>-\$407,600</u>	<u>-\$150,000</u>	<u>-\$375,000</u>	<u>-\$175,000</u>	<u>-\$600,000</u>	
TOTAL CITY SHARE	-		-	<u>-\$1,677,000</u>	<u>-\$1,222,400</u>	<u>-\$450,000</u>	<u>-\$6,125,000</u>	<u>-\$525,000</u>	<u>-\$6,800,000</u>	
TOTAL PROJECT COST				<u>\$1,422,000</u>	<u>\$1,680,000</u>	<u>\$910,000</u>	<u>\$6,920,000</u>	<u>\$975,000</u>	<u>\$7,750,000</u>	
TOTAL COMMISSION SHARE				<u>\$343,000</u>	<u>\$407,600</u>	<u>\$240,000</u>	<u>\$492,500</u>	<u>\$256,250</u>	<u>\$650,000</u>	
TOTAL CITY SHARE				<u>\$1,677,000</u>	<u>\$1,222,400</u>	<u>\$670,000</u>	<u>\$6,427,500</u>	<u>\$718,750</u>	<u>\$7,100,000</u>	

* Shingle Creek Restoration Projects are detailed in the Shingle and Bass Creek DO and Biotic Integrity TMDL Implementation Plan.
 ** Lake Internal Load projects may include rough fish removal and installation of fish barriers; chemical treatment such as alum; whole-lake aquatic vegetation treatment, etc.
 *** Meadow Lake Drawdown was identified in the lake TMDL, but additional data collection and stakeholder discussion is necessary prior to undertaking a project.



BOARD MEETING AGENDA ITEM

AGENDA ITEM TITLE: Mississippi Watershed Management Organization Plan Amendment

Meeting Date: April 22, 2015

Agenda Category: Committee Recommendation New Business Old Business

Item Type: Decision Discussion Information

Section/Region: Metro Region

Contact: Steve Christopher

Prepared by: Steve Christopher

Reviewed by: Metro Region Committee(s)

Presented by: Steve Christopher

Audio/Visual Equipment Needed for Agenda Item Presentation

Attachments: Resolution Order Map Other Supporting Information

Fiscal/Policy Impact

- None General Fund Budget
- Amended Policy Requested Capital Budget
- New Policy Requested Outdoor Heritage Fund Budget
- Other: Clean Water Fund Budget

ACTION REQUESTED

Approval of Mississippi Watershed Management Organization Plan Amendment

LINKS TO ADDITIONAL INFORMATION

- http://www.bwsr.state.mn.us/boardpackets/water_plng/April22Mtg/MWMO_RED_90V2.pdf
- http://www.bwsr.state.mn.us/boardpackets/water_plng/April22Mtg/MWMO_Capital_Improvement_Sched_REDLINE.pdf
- http://www.bwsr.state.mn.us/boardpackets/water_plng/April22Mtg/MWMO_APPX_D_RED_90.pdf

SUMMARY (Consider: history, reason for consideration now, alternatives evaluated, basis for recommendation)

Background:

The Mississippi Watershed Management Organization (MWMO) is located in Hennepin, Anoka and Ramsey Counties in the heart of the Minneapolis – St. Paul seven county metropolitan area. The MWMO consists of portions of the Cities of Lauderdale, Minneapolis, Saint Anthony Village, Saint Paul, Fridley, Columbia Heights, and all of Hilltop. An additional member of the MWMO is the Minneapolis Park and Recreation Board.

The Middle Mississippi WMO was established in 1985. The first watershed management plan was published in December 1986. In 1997, a Joint and Cooperative Agreement was entered into by the Cities of Minneapolis, St. Paul, Lauderdale, Falcon Heights, St. Anthony, and the Minneapolis Park and Recreation Board and the name was changed to Mississippi WMO. In 1999, the MWMO's legal boundary was redrawn to exclude the city of Falcon Heights, which is now a part of the Capitol Region Watershed District. The second watershed

management plan was approved by the Board in 2000. In 2001 the legislature granted MWMO the authority as a "special purpose taxing district" under Minnesota Statutes Section 275.066. In April 2011, the third generation watershed management plan was approved by the Board. In 2012, following the dissolution of the Six Cities WMO, the Cities of Columbia Heights, Fridley and Hilltop were added.

Plan Amendment Summary:

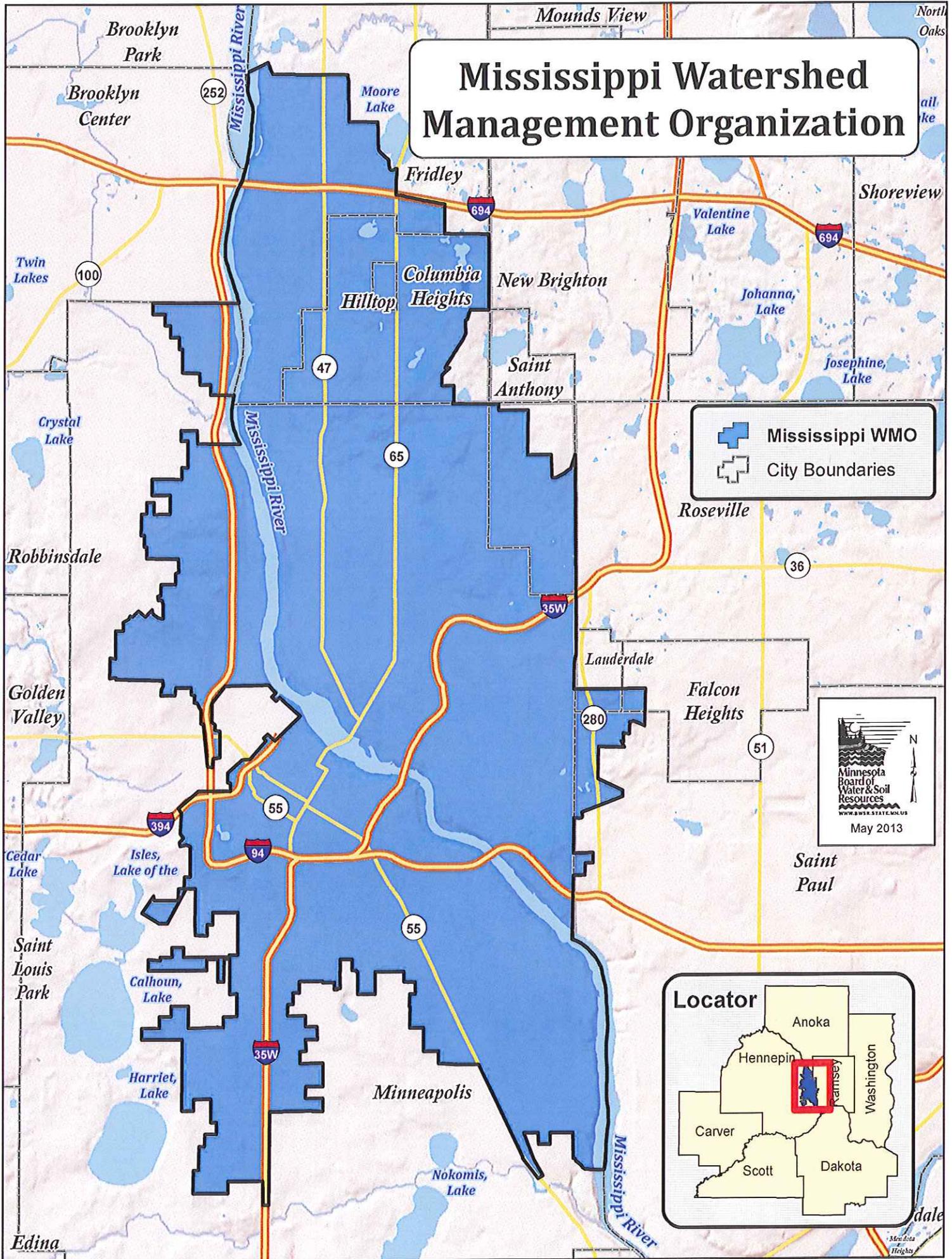
The Amendment primarily focuses on the MWMO's modification to the Standards and the integration of projects, mapping and assessments from the new member cities of Columbia Heights, Fridley and Hilltop. A total of four projects are proposed to be added to the Capital Improvement Schedule and include the following:

- Prospect North Partnership Water Quality Improvement Projects
- Restoration of Eroded Riverbank Sites
- St. Anthony Lane South Industrial Park
- City of Columbia Heights Public Library

Recommendation:

Staff recommended approval of the Mississippi Watershed Management Organization Plan Amendment dated May 12, 2015 to the Metro Region Committee on April 7, 2015. The Committee voted unanimously to recommend approval of the Plan Amendment to the Board per the attached draft Order.

Mississippi Watershed Management Organization



Minnesota Board of Water and Soil Resources
520 Lafayette Road North
Saint Paul, Minnesota 55155

In the Matter of the review of the
Amendment to the Watershed Management
Plan for the **Mississippi Watershed
Management Organization**, pursuant to
Minnesota Statutes Section 103B.231,
Subdivision 11.

**ORDER
APPROVING
AMENDMENT TO
WATERSHED
MANAGEMENT PLAN**

Whereas, the Board of Commissioners of the Mississippi Watershed Management Organization (MWMO) submitted an Amendment to the Watershed Management Plan (Amendment) dated May 12, 2015 to the Minnesota Board of Water and Soil Resources (Board) pursuant to Minnesota Statutes Section 103B.231, subd. 11, and;

Whereas, the Board has completed its review of the Amendment;

Now Therefore, the Board hereby makes the following Findings of Fact, Conclusions and Order:

FINDINGS OF FACT

1. **Watershed Management Organization Establishment.** The Middle Mississippi WMO was established in 1985 and included the University of Minnesota. The first watershed management plan was published in December 1986. In 1997, a Joint and Cooperative Agreement, more commonly entitled "Joint Powers Agreement" across the metropolitan area, was entered into by the Cities of Minneapolis, St. Paul, Lauderdale, Falcon Heights, St. Anthony, and the Minneapolis Park and Recreation Board. The agreement changed the name to Mississippi WMO and replaced the agreement executed in 1985 that created the original organization. In 1999, the MWMO's legal boundary was redrawn to exclude the City of Falcon Heights, which is now a part of the Capitol Region Watershed District. The second watershed management plan was approved by the Board in 2000. In 2001 the legislature granted MWMO the authority as a "special purpose taxing district" under Minnesota Statutes Section 275.066. In April 2011, the third generation watershed management plan was approved by the Board. In 2012, following the dissolution of the Six Cities WMO, the Cities of Columbia Heights, Fridley and Hilltop were added.
2. **Authority to Plan.** The Metropolitan Surface Water Management Act requires the preparation of a watershed management plan for the subject watershed area which meets the requirements of Minnesota Statutes Sections 103B.201 to 103B.251. The watershed management plan may be amended according to Minnesota Statutes Section 103B.231, subd. 11.

3. **Nature of the Watershed.** The MWMO is located in Hennepin, Anoka and Ramsey Counties in the heart of the Minneapolis – St. Paul seven county metropolitan area. It is bound on the west by the Shingle Creek and West Mississippi Watershed Management Organizations and Bassett Creek Watershed Management Organization, on the south by Minnehaha Creek Watershed District, on the east by the Capitol Region Watershed District, and on the north and east by the Rice Creek Watershed District. The MWMO consists of portions of the Cities of Lauderdale, Minneapolis, Saint Anthony Village, Saint Paul, Fridley, Columbia Heights, and all of Hilltop. An additional member of the MWMO is the Minneapolis Park and Recreation Board.

The current area is approximately 40 square miles most of which is contained within the City of Minneapolis. The majority of the MWMO has been developed for commercial, industrial or residential uses and covered in impervious surfaces. The Mississippi River is the primary water resource in the MWMO, however other water resources include Loring Park Pond – an eight acre, annually stocked recreational fishing lake, and Mallard Marsh and Kasota Ponds. There are three dams with navigational locks on the Mississippi River within the MWMO. Subwatersheds in the region that were historically defined by topography are now defined by extensive networks of stormwater tunnels and pipes. Bassett Creek flows by way of a tunnel through the MWMO.

4. **Amendment Development and Review.** The draft Amendment was submitted to the Board, the plan review agencies, and local governments for the required 60-day review on October 22, 2014. The Commission held a public hearing on January 13, 2015. Revisions to the Amendment were made as a result of comments received from the City of Minneapolis and MnDOT. The final draft Amendment was submitted to the Board and plan review agencies on February 17, 2015, for final review and approval.
5. **Local Review.** The MWMO circulated a copy of the draft Amendment to local units of government for their review pursuant to Minnesota Statutes Section 103B.231, subd. 7. The majority of the comments were received from the City of Minneapolis. The majority of comments focused on the definitions used and language clarification recommendations. The MWMO has addressed all comments.
6. **Metropolitan Council Review.** The Metropolitan Council stated that there were no comments on the Amendment.
7. **Department of Agriculture Review.** The MDA stated that there were no comments on the Amendment.
8. **Department of Health Review.** The MDH did not comment on the Amendment.
9. **Department of Natural Resources Review.** The DNR recommended additional language regarding the state-listed rare species as well as consideration for the use of native plants in the development of parks and greenspaces.

10. **Pollution Control Agency Review.** The MPCA comments were largely related to the impaired waters list and a commendation for updating the MWMO's Standards.
11. **Department of Transportation Review.** The DOT comments focused on specific language in the Standards as well as a request for consistency with Minimal Impact Design Standards. The MWMO has addressed these comments through additions to the definitions and Standards.
12. **Board Review.** Board staff commended the MWMO for updating its Standards based on scientific information as well as updating the Capital Improvement Program to include the new member cities' projects.
13. **Amendment Summary.** The Amendment primarily focuses on the MWMO's modification to the Standards and the integration of projects, mapping and assessments from the new member cities of Columbia Heights, Fridley and Hilltop.
14. **Metro Region Committee Meeting.** On April 7, 2015, the Board's Metro Region Committee and staff met in St. Paul to review and discuss the Amendment. Those in attendance from the Board's Committee were Jack Ditmore, Jill Crafton, Rebecca Flood, and Joe Collins, chair. Board staff in attendance were Metro Region Supervisor Jim Haertel and Board Conservationist Steve Christopher. Board staff recommended approval of the Amendment. After discussion, the Committee voted unanimously to recommend approval of the Amendment to the full Board.

CONCLUSIONS

1. All relevant substantive and procedural requirements of law and rule have been fulfilled.
2. The Board has proper jurisdiction in the matter of approving an Amendment to the Watershed Management Plan for the Mississippi Watershed Management Organization pursuant to Minnesota Statutes Section 103B.231, subd. 11.
3. The Mississippi Watershed Management Organization Amendment attached to this Order defines the need and purpose of the Watershed Management Plan changes and the methods of financing.
4. The attached Amendment is in conformance with the requirements of Minnesota Statutes Sections 103B.201 to 103B.251.

ORDER

The Board hereby approves the attached Amendment dated May 12, 2015 to the Mississippi Watershed Management Organization Watershed Management Plan.

Dated at Saint Paul, Minnesota this 22nd day of April 2015.

MINNESOTA BOARD OF WATER AND SOIL RESOURCES

BY: Brian Napstad, Chair

In 2002 the Board hired a full-time administrator and since then the organization has grown to a staff of nine. This plan anticipates staff growing to fourteen by 2016. As a result of this growth in staff the percentage spent on administrative costs will likely increase.

The MWMO will be able to implement more of its programmatic goals with each new staff member. As such, fluctuations in percentages spent on individual activity areas will reflect both additional staffing resources available and the MWMO shifting between activity areas to complete tasks central to planned MWMO actions. For example, with the completion of this Third Generation Plan, expenses in the programmatic areas of Planning and Watershed Assessments are likely to taper back and the Capital Project expenses will grow. Reviewing the Ten Year Implementation Schedule for the program areas in any given timeframe, e.g. 2, 4, 7, 10 years will exemplify these projected shifts over the next ten years.

Capital Improvement Schedule

The MWMO Capital Improvement Schedule estimates the total project costs for MWMO Capital projects over the next six years. Projects found in Table 19 and described below will not be contracted for without the completion of a feasibility study. All projects will require a maintenance plan, inspection schedule and a maintenance budget. In addition, post construction performance testing of stormwater management practices installed may also be required

The MWMO will be able to implement more of its programmatic goals with each new staff member. As such, fluctuations in percentages spent on individual program areas will reflect both additional staffing resources available and the MWMO shifting between program areas to complete activities central to planned MWMO actions. For example, with the completion of this Third Generation Plan, expenses in the programmatic areas of Planning and Watershed Assessments are likely to taper back and the Water Reuse and Conservation program expenses will grow. Reviewing the Ten Year Implementation Schedule for the program areas in any given timeframe, e.g. 2, 4, 7, 10 years will exemplify these projected shifts over the next ten years.

6.1 Capital Improvement Schedule

With the adoption of this Plan, all capital improvement projects the MWMO participates in will become a new funding area within programmatic expenses. The MWMO Capital Improvement Schedule estimates the total project costs for MWMO Capital projects, Member Grant Capital Projects, Greening Capital Projects, and Water Reuse and Conservation Capital projects over the next six years. Projects found in Table 19 and described below will not be contracted for without the completion of a feasibility study. Final copies of the feasibility studies are available on the MWMO's website <http://mwm.org/docs.html>. All projects will require a maintenance plan, inspection schedule and a maintenance budget. In addition, post construction performance testing of best management practices stormwater management practices installed may also be required.

Field Code Changed

The MWMO is currently assessing priority areas within the Watershed for future capital projects and will be adding additional projects to this capital schedule as studies are completed in a 2013 amendment.

Thereafter MWMO will continue to review the Capital Improvement Program minimally every 2 years for potential amendments. A table of future project areas where feasibility studies and an amendment will be required for adding specific projects to the MWMO Plan can be found in Appendix T Appendix P.

The MWMO recommends that its staff and its member's staff work with one another on shared reviews of capital projects and planning efforts. Sharing staff expertise between the organizations will strengthen the connectivity and synergy between MWMO and members' capital projects and planning activities.

MWMO Multipurpose Office Facility

The MWMO currently works out of temporary leased spaces which are not suitable for carrying out the programmatic needs and consequently the goals of the organization. As such, the MWMO is building a new multipurpose office facility. The majority of the building and site will be a demonstration and training facility

for the public that focuses on stormwater and natural resource management issues. Administrative and staff offices will occupy the remainder of the facility. The facility will be located within the Mississippi River Critical Area on the East bank of the Mississippi River near the intersection of NE Lowry Avenue and Marshall Street NE.

MWMO's New Facility: Water quality, water conservation, and habitat improvements

Preliminary designs have been completed for water quality improvements in on-site and off-site stormwater reaching the MWMO's new facility. Stormwater ~~best management practices~~ **management practices** at the MWMO's new facility will provide demonstration and training opportunities for the public that focus on stormwater and natural resource management issues. Infiltration, filtration and reuse demonstration projects will create environments for the MWMO's onsite education, outreach and research program activities. Construction will be completed in 2 phases to coordinate work with the construction schedule of Lowry Avenue Bridge and shared parking at the site. Restoration of the riverbanks on site will follow the MWMO's guidance on bioengineering to reduce erosion and improve habitat within the Critical Area of the Mississippi river.

The Seward Commons: Water quality improvements

Seward Commons is a 4-acre, highly contaminated industrial site that Seward Redesign has acquired. Seward Commons is located between 22nd and 24th Streets and Snelling Avenue and the Hiawatha Light Rail line in Minneapolis. The site is currently a highly impervious area and will be redeveloped with considerably more green space than under current conditions (though still significantly impervious). The green space will be located and designed to manage stormwater, with a goal of retaining a significant portion of stormwater on-site.

The MWMO will work with the City of Minneapolis, Seward Redesign and the Neighborhoods to plan, design and install stormwater infrastructure (filtration and reuse systems) that achieve the MWMO's Standards in the Seward Commons project.

St Anthony Regional Treatment System: Water quality improvements

This project is focused on improving the quality of runoff conveyed from the City of St. Anthony to the City of Minneapolis, and ultimately, the Mississippi River. Currently, stormwater runoff generated in the Wilson Street region of St. Anthony receives little or no stormwater treatment prior to being discharged into the City of Minneapolis. It is the goal of the City of St. Anthony and the MWMO to implement filtration or particle settling treatment methods that will improve the quality of water that is conveyed from St. Anthony to the Mississippi River.

Riverside Avenue: Water quality improvements

The city of Minneapolis is completely rebuilding the street and streetscape along the entire length of Riverside Avenue from Cedar Avenue to Franklin Avenue. A primary driver is the anticipation of changes in traffic patterns due to the conversion of a portion of Washington Avenue on the U of M campus to transit and pedestrian only, to accommodate the Central Corridor LRT.

The project provides an opportunity to develop, implement and demonstrate techniques for accomplishing stormwater infiltration or filtration systems as envisioned in the MWMO's third-generation plan, in the confines of an urban right-of-way that is extremely congested with transportation and utility uses.

Northeast Green Campus: Water quality and water conservation and flood reduction improvements

This project adds underground storage of stormwater for reuse -- to irrigate adjacent athletic fields and park grounds. The project also mitigates localized flooding and provides greater water quality treatment via filtration and infiltration. This project is a partnership between the MWMO, Minneapolis Public Works, Minneapolis Park and Recreation Board and Minneapolis Public Schools. The site's land area is made up of Edison High School, Jackson Square Park, and a Public Work's flood basin.

Central Mississippi Riverfront Shoreline Restoration: Water quality and habitat improvements

These restoration projects are within the Critical Area along the Mississippi river on the Minneapolis Park and Recreation Board's land (Father Hennepin Bluffs, Nicollet Island, and riverfront trails). Water quality and habitat improvements will result from filtration; bioengineering and erosion control practices installed during shoreline restoration; development of water-trail access points, and accessibility improvements in this area.

Prospect North Partnership Water quality Improvement Projects

Prospect North Partnership Water quality Improvement Projects

Prospect North Partnership activities are located within the Bridal Veil Creek sub-watershed. The MWMO completed a stormwater retrofit study in Bridal Veil Creek that identified 77 retrofit opportunities to improve water quality, reduce runoff volumes, and manage rates of discharge. Using this study and others being completed by the partnership the MWMO will implement stormwater projects that contribute to a greater synergistic benefit when combined with other public realm land uses and infrastructure.

One of the partnerships first projects is the reconstruction of South East 4th St (Green 4th). Green 4th Street allows for the creation of larger outdoor gathering areas and stacked function bioretention basins within the street right-of-way. Walkways weave through deep and shallow rain gardens creating a wide variety of spaces for gathering. The bioretention basins not only treat stormwater, but also define and enhance the outdoor gathering spaces by providing greenery and shade. Seat walls connected to the deep bioretention basins provide an element of pedestrian safety while also creating flexible spaces for resting. Beyond using stormwater as a resource to irrigate the landscaping and trees bioretention basins provide numerous environmental benefits such as: habitat creation, urban heat island mitigation, and air quality improvements.

Another initiative in this area is the introduction of Restorative Development and Watershed Management. The MWMO is interested in leading cost benefit analysis, research, design and implementation efforts that bring Restorative Watershed Management from concept to a reality within the watershed. An outcome the MWMO seeks from this project is to bring water resource planning in at the front end of other Restorative planning efforts. To meet this end studies completed will be designed to scale up the watershed analysis to supplement potential future studies and planning conducted at district, city, county, regional, and state wide levels.

Eco-Village: Water quality improvements

The Eco-Village is a four block housing redevelopment project in the Hawthorne Neighborhood of North Minneapolis. The area is bounded by Lowry Avenue, Lyndale Avenue, and 30th Avenue N and 4th Street N. The Hawthorne Eco-Village is using best practices in community-based development, neighborhood revitalization, and sustainable green development to create a model for more healthy, stable, and livable communities.

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The MWMO is partnering with the City of Minneapolis; The Home Depot Foundation; The Project for Pride in Living and the Hawthorne Community to integrate innovative stormwater management into the Hawthorn Eco-Village Redevelopment Project.

The MWMO and the Project for Pride in Living have developed a stormwater master plan for the Eco-Village Project. Based on this Plan the MWMO and Project for Pride in Living will work with willing landowners in the project area to implement a variety of infiltration, filtration, bioretention, storage and reuse stormwater ~~best management practice~~management practices shown in the stormwater master plan.

Jackson Pond Reconstruction: Water quality improvements and flood protection

The city of Columbia Heights in partnership with the MWMO will be reconstructing an existing Wet pond into a Dry pond (infiltration) to gain additional water quality and flood protection benefits. The pond is located along Quincy St. NE which is located between 43rd Ave. NE and 44th Ave. NE .

LaBelle Park Shoreline Restoration: Water quality and habitat improvements

The city of Columbia Heights in partnership with the MWMO and Anoka County Conservation District will be removing a shoreline boardwalk adjacent to Labelle Pond and installing a vegetated buffer (filtration) along the pond's perimeter. Water quality and habitat improvements will result from the bioengineering and erosion control practices installed during shoreline restoration. The pond is located between 42nd and 40th Ave. NE, a block east of Central Ave. NE.

Interchange Transit Hub and Industrial Land Use Retro-fit: Water quality, water conservation and flood reduction improvements

The Hennepin County Interchange will be a transit hub in downtown Minneapolis, connecting light-rail lines, bike trails, and buses. The Hennepin Energy Recovery Center is an existing industrial land use that currently, uses nearly 300,000 gallons/day of Minneapolis potable water. This project will collect, store and treat (filtration) stormwater from the interchange site and reuse it at the Hennepin Energy Recovery Center. The project seeks to conserve potable water supply, improve water quality and resolve a flooding problem along 6th Ave. N.

Sculpture Garden Renovation: Water quality and water conservation improvements

The Minneapolis Park and Recreation Board's sculpture garden renovation will focus on innovative stormwater parking lot and the roadway installations that utilize infiltration, filtration, storage and reuse practices. Improving water quality and reducing the volume of stormwater discharging to the Mississippi River.

Scherer Park: Water quality, water conservation and habitat improvements

Scherer Park is a proposed RiverFIRST project within the Critical Area along the east bank of the Mississippi river. This Minneapolis Park and Recreation Board project would include shoreline restoration, and the development of wetlands and biohavens. The project would result in improved water quality and habitat due to a mix of bioretention, bioengineering, infiltration, filtration, storage and reuse stormwater management techniques.

26th Avenue N.: Water quality improvements

This is a joint Minneapolis Park and Recreation Board and Minneapolis Public Works project. The project area runs from Lyndale Ave. N. east to the Mississippi river. The need is for greening of and creating a complete street on 26th Avenue N, linking North Minneapolis residents to the river. MWMO would assist with stormwater management features that utilize infiltration, filtration, reuse, bioretention or bioengineering.

Old Bassett Creek Tunnel: Water quality and water conservation improvements

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This is a joint Minneapolis Public Works and MWMO project. The project involves structural repairs to the Old Bassett Creek Tunnel as well as renovation of the tunnel to provide stormwater filtration, storage and reuse functions. The project will prevent structural failure of the tunnel and prevent the discharge of sediments that have accumulated within it. The renovation will improve water quality and reduce the volume of stormwater discharging to the Mississippi River. The project will meet the requirements set forth in the 2000 joint and cooperative agreement (or subsequent revisions) between Bassett Creek Watershed Management Commission, MWMO, and the City of Minneapolis (see Appendix K).

Grace Center Regional Facility: Water quality, water conservation and flood reduction improvements

The intent of this MWMO project is to install a regional scale stormwater facility at Grace Center site. Infiltration, filtration, bioretention, storage and reuse practices would all be considered as a way to alleviate flooding and improve stormwater water quality within the Minneapolis pipeshed.

Restoration of Eroded Riverbanks Sites: Water quality and habitat improvements

This is a MWMO project to reduce near bank erosion. The MWMO has identified eleven riverbank restoration sites that contribute sediment to the MWMO's reach of the Mississippi River. Bioengineering techniques will be used restore these and other eroded areas, improving water quality and habitat along the Mississippi river. Who will carry out the improvements is dependent on findings of a final feasibility study / or studies on restoration needs along the Mississippi river. The MWMO will work with our member organizations to identify eroded sites where we have a shared interest in restoration along the river. Single projects that require multi-year funding would need to be amended into the CIP schedule as stand alone projects. The \$7351,000,000.00 is for implementation of projects that eliminate near bank erosion and improve habitat in the Critical Area corridor in accordance with the MWMO's Bioengineering Installation Manual.

City of Fridley: Street Retrofit Project - Stormwater Quality ImprovementMain Street Reconstruction: Water quality improvements

The City of Fridley in partnership with the MWMO and Anoka County Transportation will be reducing total suspended solids and promoting infiltration, in conjunction with a road reconstruction (county road) project east of occurring along Main Street, and south of located between I-694 and 43rd Ave. NE in Fridley. Projects may utilize the public right-of-way bordering adjacent residential homes. Boulevard rain gardens, and and tree trenches, are examples of stormwater management features to be considered for the reconstruction project. An underground stormwater chamber will also be implemented if Clean Water funds become available. Projects may utilize the public right-of-way bordering adjacent residential homes.

LaBelle Park: Water Quality Improvements and flood protection

The City of Columbia Heights in partnership with the MWMO will install surface water treatment for two parking lots. This project will retro fit the parking lots with bio-infiltration basins and pre-settlement structures that treat runoff from the lots prior to their discharge into Labelle Pond. The project will result in flood mitigation and water quality benefits for the city. The project is located between 42nd and 40th Ave. NE, a block east of Central Ave. NE.

Harbor Freight Holding Pond: Water quality improvements

The City of Hilltop in partnership with the MWMO will be modifying the existing Wet pond to gain water quality benefits and lower its long-term maintenance costs. Modifications considered will utilize infiltration, filtration, reuse, bioretention or bioengineering practices to meet the project's objectives. The project is located on the SW corner of 45th Ave. NE and Monroe St. NE.

Mississippi River Gorge WPA Infrastructure and Shoreline Restoration

The Minneapolis Park and Recreation Board (MPRB) has allocated \$1.26 million over the next 5 years to improve the condition and durability of the WPA infrastructure throughout the Mississippi River Gorge. This

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historic infrastructure is critical to the ongoing stability of the steep shoreline and accessibility to the river throughout the Gorge. As the MPRB replaces or rehabilitates the brick and mortar of this infrastructure, there will be opportunities to implement bioengineering, infiltration, and filtration best practices for stormwater volume reduction, water quality and habitat improvements, and flood mitigation. The MPRB seeks matching funds from the MWMO to assist with these types of improvements.

Gauvitte Park Area: Water quality improvements and flood protection

The City of Columbia Heights in partnership with the MWMO will be implementing flood control and water quality improvements in the Gauvitte Park Area. The project implemented may utilize infiltration, filtration, reuse, bioretention or bioengineering practices to reduce the amount of total phosphorus and total suspended solids reaching the Mississippi River. The project is located between 42nd Ave. and 44th Ave. NE, west of University Ave.

St. Anthony Lane South Industrial Park: Flood mitigation

The City of Saint Anthony Village plans to construct a flood water storage pond on the west side of the St. Anthony industrial park to improve the level of flood protection to the adjacent industrial buildings. This project may include some new stormwater pipes, reconfiguration of existing stormwater pipes, and construction of a linear pond. The work may coincide with Hennepin and Ramsey counties reconstruction of County Road C.

City of Columbia Heights Public Library: Stormwater Management

The City of Columbia Heights is interested in a demonstration site for stormwater management practices, similar to that of the MWMO facility, at its new library site on Central Avenue near 40th Street. The City has already begun remediation of contaminated soils on the 1.7 acre site, and the improvements will allow it to manage the stormwater from the adjacent 2.1 acre property. If the project moves forward, it will be a fast-paced Design-Bid-Build process which is anticipated to take place in 2015-2016.

Vikings Stadium West Plaza: Stormwater Tree-Trenches and Pervious Paving

There may be an opportunity to work with site owners to install a tree system and pervious paving for stormwater management at the Vikings Stadium West Plaza. Costs are estimated at \$800,000, but there has been no commitment from the property owner. Should this project proceed, a 2015-2016 timeline is anticipated.

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Table 19: MWMO capital improvement schedule 2012 to 2019

MWMO Capital Improvement Projects	2012	2013	2014	2015	2016	2017	2018	2019	Total funding
MWMO: Multipurpose Office Facility									\$3,700,000
MWMO: Demonstrations of Stormwater Rate Control, Water Quality, Reuse and Habitat Improvements at the MWMO's New Facility									\$550,000*
Mpls CPED: Seward Common's Water Quality Improvements									\$100,000
St Anthony Village: Regional Water Quality Improvements									\$1,209,000
Mpls Public Works: Riverside Ave. Water Quality Improvements									\$1,600,000*