

3235 Fernbrook Lane N • Plymouth, MN 55447
Tel: 763.553.1144 • Fax: 763.553.9326
Email: judie@jass.biz • Website: www.shinglecreek.org

MINUTES
Regular Meeting
August 13, 2015

(Action by the SCWMC appears in blue, by the WMWMC in green and shared information in black.
*indicates items included in the meeting packet.)

I. A joint meeting of the Shingle Creek Watershed Management Commission and the West Mississippi Watershed Management Commission was called to order by Tina Carstens, Chair, on Thursday, August 13, 2015, at 12:45 p.m., at the Clubhouse at Edinburgh USA, 8700 Edinbrook Crossing, Brooklyn Park, MN.

Present for Shingle Creek were: David Vlasin, Brooklyn Center; Tina Carstens, Brooklyn Park; Janet Moore, Crystal; Karen Jaeger, Maple Grove; Jeff Johnson, Minneapolis; Bill Wills, New Hope; Andy Polzin, Plymouth; Wayne Sicora, Robbinsdale; Troy Gilchrist, Kennedy & Graven; Ed Matthiesen, Wenck Associates, Inc.; and Judie Anderson, JASS.

Not represented: Osseo.

Present for West Mississippi were: David Vlasin, Brooklyn Center; Tina Carstens, Brooklyn Park; Karen Jaeger, Maple Grove; Troy Gilchrist, Kennedy & Graven; Ed Matthiesen, Wenck Associates, Inc.; and Judie Anderson, JASS.

Not represented: Champlin and Osseo.

Also present were: Andrew Hogg, Brooklyn Center; John Roach, Brooklyn Park; Todd Tuominen, Champlin; Mark Ray, Crystal; Rick Lestina, Maple Grove; Shawn Markham, New Hope; and Ben Scharenbroich, Plymouth.

II. **Agendas and Minutes.**

Motion by Johnson, second by Sicora to approve the **Shingle Creek agenda**. * Motion carried unanimously.

Motion by Vlasin, second by Jaeger to approve the **West Mississippi agenda**. * Motion carried unanimously.

Motion by Jaeger, second by Wills to approve the **minutes of the July 9, 2015, Shingle Creek meeting**. * Motion carried unanimously.

Motion by Vlasin, second by Jaeger to approve the **minutes of the July 9, 2015, West Mississippi meeting**. * Motion carried unanimously.

III. **Finances and Reports.**

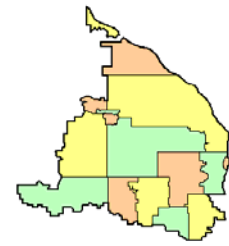
A. Motion by Polzin, second by Sicora to approve the **Shingle Creek Treasurer's Report**. * Motion carried unanimously.

Motion by Polzin, second by Vlasin to approve the **Shingle Creek August claims**. * Claims totaling \$48,627.08 were approved by roll call vote: ayes – Vlasin, Carstens, Moore, Jaeger, Johnson, Wills, Polzin and Sicora; nays – none; absent – Osseo.

B. Motion by Vlasin, second by Jaeger to approve the **West Mississippi Treasurer's Report**. * Motion carried unanimously.

Motion by Jaeger, second by Vlasin to approve the **West Mississippi August claims**. * Claims totaling \$10,563.99 were approved by roll call vote: ayes – Vlasin, Carstens, and Jaeger; nays – none; absent – Champlin and Osseo.

*items are included in meeting packet



IV. Open Forum.

Moore expressed her concern regarding dirt in the street adjacent to a project being constructed at France Avenue and West Broadway. She queried what entity is responsible for monitoring clean-up of construction sites.

V. Project Review.

SC2015-07 Brookdale Park Improvements, Brooklyn Park.* Park parking lot expansion and reconstruction of park access road at a city park located at 7650 June Avenue North. The proposed project is 3.74 acres. Following construction, the project corridor will be 80% impervious, an increase of 0.74 acres. A complete Project Review was received June 12, 2015.

To comply with the Commission's water quality treatment requirement, the site must provide ponding designed to NURP standards with dead storage volume equal to or greater than the volume of runoff from a 2.5" storm event, or BMPs providing a similar level of treatment - 80-85% TSS removal and 50-60% TP removal. Infiltration of the first 1.3" runoff from the site within 48 hours also meets Commission requirements for water quality.

Runoff from the site is proposed to be routed through two basins. The south basin will filter runoff through a vegetated swale before draining to a wetland. The central parking area has a filtration swale that will treat runoff from the parking lot. Treated water will flow west into a drainage ditch. The development contains poor soils as indicated in the county soil survey. To meet the requirements the applicant will filtrate water from the south and central areas to meet the Commission's water quality treatment requirements.

Commission rules require that site runoff be limited to predevelopment rates for the 2-, 10-, and 100-year storm events. Runoff from the site is directed to two filtration areas. Since the new net impervious is less than one acre, the new rates are assumed to be predevelopment.

Commission rules require the site to infiltrate 1.3" of runoff from new impervious area within 48 hours. The new impervious area on this site is 0.74 acres, requiring that 2686 CF be infiltrated within 48 hours. The applicant proposes to filter the water through two basins before entering a wetland to the south and a drainage ditch to the west. Filtrating runoff before entering the water bodies meets Commission requirements.

The NWI does identify wetlands on site. Shingle Creek is LGU for WCA administration in Brooklyn Park. A wetland delineation report was submitted and approved.

There are no Public Waters on this site. There is no floodplain on this site according to FEMA. There is no known contaminated soil/groundwater according to the project engineer. Infiltration will not cause detrimental effects to the groundwater.

An erosion control plan was submitted with the project review, and includes rock construction entrances, perimeter silt fence, pretreatment devices, slope checks, and native seed specified on the pond slopes. The erosion control plan meets Commission requirements.

The City of Brooklyn Park will own and maintain the filtration basins; therefore, an Operations and Maintenance Agreement is not required.

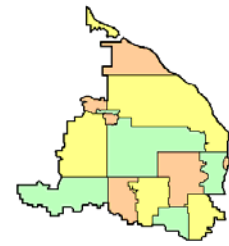
A public hearing on the project has been conducted as part of Planning Commission. City Council approved this project on August 10, 2015, meeting Commission public notice requirements.

Motion by Moore, second by Sicora to advise the City of Brooklyn Park that project SC2015-07 is approved with no conditions. *Motion carried unanimously.*

VI. Water Quality.

Metro Chloride TMDL and Chloride Management Plan.* The public comment period for the Draft Chloride Management Plan and Total Maximum Daily Load for the Metro Area extends from August 3, 2015 to September 2, 2015. Bass Creek is among the waters included in this TMDL. The Bass Creek listing occurred after

*items are included in meeting packet



the Shingle Creek Chloride TMDL was completed. While the load reductions in the Shingle Creek TMDL applied to the entire watershed, the TMDL was established only for Shingle Creek. Rather than reopen the Shingle Creek TMDL when Bass Creek was listed as impaired, the MPCA deferred that work to the Metro TMDL.

Between 2010-2013, the Metro Area Chloride Project monitored 74 lakes, 27 streams, and 8 storm sewers, resulting in 29 new chloride impairments (6 streams, 19 lakes, and 4 wetlands), for a total of 39 chloride impairments in the Metro Area. Included were: Bassett, Elm, Minnehaha, Plymouth, and South Fork Rush Creeks, and Parkers Lake. Ryan and Crystal Lakes and North Fork Rush Creek were not listed but were designated as “High Risk” because monitoring showed some high chloride values. The MPCA developed TMDLs for the impaired waters, excluding Shingle Creek and Nine Mile Creek, which were completed separately.

The methodology used to complete the Metro TMDL did not attempt to estimate the current loading into the Impaired Waters and set a percent load reduction. The study sets forth a categorical maximum annual wasteload for each waterbody and establishes a performance-based implementation approach focused on improved winter maintenance practices. This performance-based approach will be tracked through documentation of existing winter maintenance practices, goals for improved practices, and reporting on progress made. Entities may choose to use the WMAT, which is a winter maintenance BMP tracking tool developed by the MPCA, to assess and document practices and set goals, or another approach of their choice.

The MPCA also developed a Draft Chloride Management Plan that further develops strategies to protect and improve both surface and groundwater from chloride impacts. Most of those strategies are already practiced by the Commissions’ member cities, and they will be responsible for reporting to the MPCA.

VII. Education.

A. The West Metro Water Alliance (WMWA) met on August 11, 2015 to discuss several items.

1. **Educator Update.** The educators tabled at the Plymouth Children’s Environmental Fair on July 29. The event was part carnival part environmental fair, and included eco-friendly activities, insects, mascots and animals. They persuaded kids to become Storm Drain goalies and provided general water quality and environmental stewardship information.

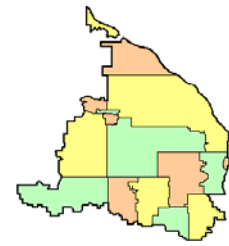
2. **Website.** A subcommittee will begin work on developing a separate website for WMWA. Right now the site exists as a page on Hennepin County’s website. The subcommittee will use a free web page maker such as WIX or Weebly to build and maintain the site. The hope is to get the site published in time for the roll out of the Special Project.

3. **Special Project.** WMWA has been working with Blue Thumb to develop the special project, formerly known as *5,000 Acres by 2025* or *10,000 Acres for 10,000 Lakes*. The group has developed four potential project names and catch phrases, and will debut them at the Eco Experience Blue Thumb display at this year’s State Fair August 27 through September 7. They are included in the August Update.*

An interactive exhibit in the entry to the Eco Experience will encourage Minnesotans to Pledge to Plant for Clean Water and Pollinators. Fair goers can learn how replacing part of their yards with native plants can help pollinators, save water, and keep water clean. And as a fringe benefit, once established native plants require minimal maintenance. A typical homeowner spends 40 hours a year mowing a standard ¼ acre yard. Replacing turf with natives means less mowing and more relaxation. Fairgoers can take a pledge to plant and take a photo of themselves as Clean Water and Pollinator Superheroes, complete with flying cape. The interactive display includes several popup banners, some of which are shown in the August Update. After the fair, these will be available for WMWA and city use.

It was suggested that native seed packets could be offered as give-aways. Anderson will check on their availability. [Anderson was advised that 2015 seeds are no longer available in significant quantity. This item will be considered for next year.]

*items are included in meeting packet



4. The **Guidebook for Commercial Properties** has been redesigned and is being reproduced at no cost to the Commissions by Hennepin County. These will be distributed at the Commissions' September meeting.

5. The next eNewsletter **Water Links** will be out shortly, with the next one out in mid-October. Information to post and article ideas are always welcome.

B. Shingle Creek/West Mississippi Website.* The Commissions' website, shinglecreek.org is several years old and is in need of a refresh. It is also not mobile-friendly and we have limited ability to add pages, change formatting, etc. Wenck and JASS staff will be working together to develop a new site using one of the many free web building tools that are now available. This will allow us complete control over the website and its content and the ability to add things such as interactive mapping, blogging, and a calendar. These web building sites use templates that are easy to use and which also can automatically generate mobile-friendly versions of the site. They are also search engine optimized, and there are additional analytics we can access to better track how often the site is being accessed.

Some of the content on the existing site is outdated or text-heavy, which we will streamline. We will also be adding more information about the projects accomplished in the watershed, and better access to the various studies and reports completed. The basic refresh can be accomplished using the existing education and outreach budget.

Commissioners were requested to visit the current site and let Staff know what they like and don't like about it, and what they would like to see added. They were also asked to send Staff a link to things on other sites that interest them.

It is anticipated the new site will be up and running by the end of the year.

VIII. Grant Opportunities and Updates.

A. Included in the meeting packet was a draft of a FY16 Clean Water Fund grant application for the **Upper Twin Lake Nutrient Load Reduction project.*** This project is a suite of four projects, three of which were identified in the subwatershed assessment of the Crystal commercial node at West Broadway and Bass Lake Road. The subwatershed assessment has been reviewed by Crystal and will be reviewed by the TAC at its August 27 meeting. The four projects are:

1. **North Lions Park Pond iron-enhanced sand filter retrofit.** This project is on the 2015 CIP, with an estimated cost of \$160,000 and Commission cost-share of \$40,000.

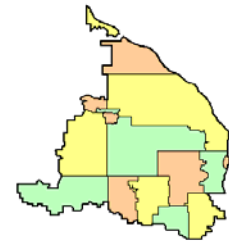
2. **Subwatershed Assessment Project 001,** an infiltration gallery on what is now tax-forfeit land. Crystal has contacted Hennepin County about obtaining the land for this public infrastructure. A source of match funds for this project may be the cost-share fund for small BMPs on the 2015 CIP.

3. **Subwatershed Assessment Project 030.** Originally conceived as an infiltration gallery in a corner of Target's parking lot, a developer intending to purchase part of the land from Target for redevelopment recently approached Crystal regarding City requirements. The developer is interested in partnering to provide additional treatment and infiltration above and beyond what is required by Commission redevelopment rules. A source of match funds for this project may be the cost-share fund for public-private partnerships the Commission will create as part of the 2015 CIP.

4. **Subwatershed Assessment Project 038,** an infiltration gallery in Becker Park. During ongoing discussions with Crystal this project is evolving and significantly expanding in scope and cost, becoming a large regional facility with the potential to achieve a significant load reduction. This project will have to be added to the CIP for 2016.

Motion by Moore, second by Johnson to authorize Staff to submit the application. Motion carried unanimously.

*items are included in meeting packet



B. The Shingle Creek Biochar/Iron Sand Bacteria Filters Section 319 Grant was approved by the MPCA in early 2015, and the project work plan is currently awaiting final approval by the EPA. The work plan calls for installation of biochar/iron sand filters in four ponds in the Shingle Creek and/or West Mississippi watersheds. Based on discussions with member cities Staff have identified eight ponds that could be good candidates for retrofit based on their physical characteristics. For maximum effectiveness the filters should be installed on ponds with high concentrations of *E. coli* and total phosphorus (TP).

To narrow the eight to four, Staff propose to collect grab samples for *E. coli*, TP, and ortho-phosphorus (ortho-P) from the eight ponds in mid-August. Once lab results are received, Staff would review results and collect a second sample in late August or early September from four ponds that demonstrated high *E. coli* and/or phosphorus levels. This will provide some baseline data and allow Staff to immediately start designing the pond retrofits when the grant contract is finalized later this year. The estimated cost of the stormwater pond sampling will be \$1,758 and can be accommodated within the Shingle Creek and West Mississippi routine monitoring budgets.

Motion by Jaeger, second by Moore to approve Staff's proposal. Motion carried unanimously.

Motion by Jaeger, second by Vlasin to approve Staff's proposal. Motion carried unanimously.

C. Public Art Reaeration Structures 319 Grant. Matthiesen reported that the kickoff will include two meetings – the first with Forecast Art and the cities of Brooklyn Center and Brooklyn Park and the second with interested organizations. Hogg and Struve will provide names of potential participants.

IX. Communications.

A. Communications Log.* No action required.

B. Restoring Shingle Creek – BWSR August 2015 Snapshot.*

C. The **National Stormwater and Green Infrastructure Awards program*** is accepting nominations for Phase I and Phase II communities. Deadlines are August 26 and August 19, respectively.

D. The Mississippi Watershed Management Organization will celebrate the grand opening of its **Stormwater Park and Learning Center,*** Saturday, September 19.

X. Other Business.

A. Staff have received **signed JPAs** from all members. Counterpart copies will be distributed to the cities.

B. Commissioners will **tour Webber Park Pool** at 11:00 a.m., prior to the September 10 meeting. A **public hearing** will also be held at that meeting.

X. Adjournment.

There being no further business before the Shingle Creek Commission, motion by Jaeger, second by Moore to adjourn. Motion carried unanimously. The meeting was adjourned at 1:45 p.m.

There being no further business before the West Mississippi Commission, motion by Vlasin, second by Carstens to adjourn. Motion carried unanimously. The meeting was adjourned at 1:45 p.m.

Respectfully submitted,

A handwritten signature in black ink that reads "Judie A. Anderson".

Judie A. Anderson
Recording Secretary
JAA:tim

Z:\Shingle Creek\Meetings\Meetings 2015\08 Regular Meeting Minutes.doc

*items are included in meeting packet