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**MINUTES  
Regular Meeting  
January 12, 2017**

(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 Shingle Creek Chairman Andy Polzin at 12:45 p.m. on Thursday, January 12, 2017, at the Clubhouse at Edinburgh, USA, 8700 Edinbrook Crossing, Brooklyn Park, MN.

Present for Shingle Creek were: David Vlasin, Brooklyn Center; John Roach, Brooklyn Park; Janet Moore, Crystal; Karen Jaeger, Maple Grove; Gary Anderson, Minneapolis; Robert Grant, New Hope; Harold E. Johnson, Osseo; Andy Polzin, Plymouth; Troy Gilchrist, Kennedy & Graven; Ed Matthiesen, Wenck Associates, Inc.; and Judie Anderson, JASS. Not represented: Robbinsdale.

Present for West Mississippi were: David Vlasin, Brooklyn Center; John Roach, Brooklyn Park; Karen Jaeger, Maple Grove; Harold E. Johnson, Osseo; Troy Gilchrist, Kennedy & Graven; Ed Matthiesen, Wenck Associates, Inc.; and Judie Anderson, JASS. Not represented: Champlin.

Also present were: Shelley Marsh, Brooklyn Center; Jesse Struve, Brooklyn Park; Todd Tuominen, Champlin; Burt Orred and Mark Ray, Crystal; Darrell Gerber and Liz Stout, Minneapolis; Shawn Markham, New Hope; Leah Gifford and Ben Scharenbroich, Plymouth; Richard McCoy, Robbinsdale; and Earth Evans and Don Sterna, WSB Associates and Tim Hanson, Champlin, for the TH169 Reconstruction project.

II. **Agendas and Minutes.**

Motion by Jaeger, second by G. Anderson to approve the revised **Shingle Creek agenda**.*\* Motion carried unanimously.*

Motion by Vlasin, second by Roach to approve the revised **West Mississippi agenda**.*\* Motion carried unanimously.*

Motion by Jaeger, second by G. Anderson to approve the **minutes of the December regular meeting**.*\* Motion carried unanimously.*

Motion by Roach, second by Vlasin to approve the **minutes of the December regular meeting**.*\* Motion carried unanimously.*

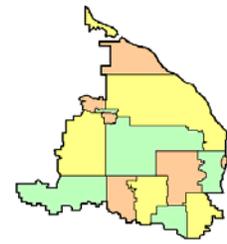
III. **Finances and Reports.**

A. Motion by Jaeger, second by G. Anderson to approve the **Shingle Creek Treasurer's Report**.*\* Motion carried unanimously.*

Motion by Roach, second by G. Anderson to approve the **Shingle Creek January claims**.*\* Claims totaling \$52,076.34 were approved by roll call vote: ayes – Vlasin, Roach, Moore, Jaeger, Grant, Johnson, and Polzin; nays – none; absent – Robbinsdale.*

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

\*items are included in meeting packet



Motion by Vlasin, second by Roach to approve the **West Mississippi January claims.\*** Claims totaling \$15,109.93 were *approved by roll call vote: ayes – Vlasin, Roach, Jaeger, and Johnson; nays – none; absent - Champlin.*

**IV. Open Forum.**

**V. Project Reviews.**

**A. SC2016-10 Lupient Collision Center, Brooklyn Park.\*** Expansion of applicant's building, parking lot, and stormwater pond at 7910 Lakeland Avenue North. Following development, the site will be 44% impervious, an increase of 1.34 acres. A complete project review was received on December 29, 2017.

The proposed project is the construction of a building expansion of roughly 10,080 SF and adjacent parking. 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. If a sump is used the MnDOT Road Sand particle size distribution is acceptable for 80% capture.

Runoff from the site is proposed to be routed to an existing stormwater pond, which will be increased in size to accommodate additional impervious surface. The applicant meets Commission 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 a stormwater pond capable of holding runoff from a 100-year storm event. The applicant meets the Commission's rate control requirements.

Commission rules also require the site to infiltrate 1.0" of runoff from new impervious area within 48 hours. The new impervious area on this site is 1.34 acres, requiring that 4,876 CF be infiltrated within 48 hours. The applicant proposes to increase the volume of the stormwater pond by 33,283 CF so that it has the capacity to infiltrate the required volume within 48 hours, meeting Commission requirements.

The NWI identifies the boundary of one wetland on the parcel. A wetland delineation was performed by Anderson Engineering on September 12, 2016, and approved by Wenck staff on October 21, 2016. The applicant requested a No-Loss determination for the wetland because only upland wetland is impacted. Wenck staff reviewed and approved the request. The Commission is LGU for WCA administration in Brooklyn Park. The project meets the Commission wetland requirements. There are no Public Waters on this site.

The project area is located south of Shingle Creek. Shingle Creek's floodplain is at an elevation of 870 feet. The proposed pond expansion increases the pond's volume below the 870 foot contour and, therefore, there is no net filling of the floodplain but rather an increase in the floodplain storage volume. The low floor elevation of the building is 876.66 feet, at least two feet higher than the high water elevation of the stormwater pond according to Atlas 14 precipitation, and meets Commission requirements.

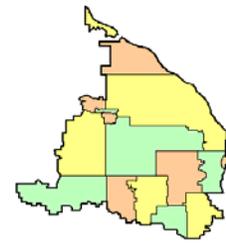
An erosion control plan was submitted with the project review and includes rock construction entrance(s), slope checks, and a silt fence. MnDOT seed mix 25-151 high maintenance turf has been proposed for pond slopes, but Wenck staff recommend a native seed mix such as MnDOT seed mix 33-261, which is intended for stormwater pond edges and temporarily flooded dry ponds. The erosion control plan does not meet Commission requirements.

A public hearing on the project will be conducted as part of Planning Commission and City Council review of this project in early February, meeting Commission public notice requirements.

Motion by Moore, second by Jaeger to advise the City of Brooklyn Park that Project SC2016-10 is approved with the following conditions:

1. Use MnDOT native seed mix 33-261 or equal for seeding on pond slopes.

\*items are included in meeting packet



2. Post meeting condition: As a result of the January 27, 2017 Grading Plan, confirm with City of Brooklyn Park staff that the pipe extension onto city-owned property is acceptable.

*Motion carried unanimously.*

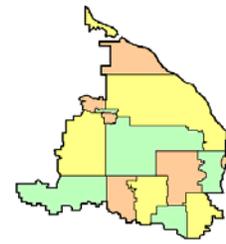
**B. TH169 Reconstruction, Champlin.** This project consists of reconstruction of approximately 4,000 feet of TH169 roadway and portions of Dayton Road, Miller Road, Dean Avenue, and West River Road. The project also resides in the Elm Creek watershed. WSB staff and City Engineer Hanson provided an overview of the project which will be submitted for Commission review at the March meeting. As described, the project will not trigger BMPs because the net impervious area is being reduced by 7.8 acres. The project team offered this presentation to confirm that no additional BMPs will be required by the Commission. The team is working with MnDOT to provide landscaping along the TH169 corridor.

#### **VI. Watershed Management Plan.**

**A. Draft 2017 Work Plan.\*** Last month the Commission accepted its 2016 Annual Progress Review. This month, Staff's January 6, 2017 memo outlines suggested activities for the Commission's 2017 Work Plan. Most are ongoing activities, although some rotate around the watershed. They include:

- 1. Continue to implement TMDLs.**
  - a. Complete the 5-year performance review for the Bass, Pomerleau, and Schmidt Lakes Nutrient TMDLs and initiate the Cedar Island-Pike-Eagle TMDL review.
  - b. Execute the Accelerated Implementation CWF grant contract and partner with the City of Minneapolis to complete a subwatershed BMP assessment.
  - c. Continue to pursue grant funding for TMDL implementation projects.
  - d. Identify boundaries of the untreated areas directly connected to Shingle and Bass Creeks and other conveyances.
- 2. Partner with other organizations to increase reach and cost effectiveness.**
  - a. Participate in the West Metro Water Alliance joint education and outreach group.
  - b. Continue to partner with the USGS to operate the Queen Avenue monitoring site.
  - c. Partner with the USGS, DNR, and other interested parties to stay abreast of groundwater issues.
- 3. Continue ongoing administration and programming.**
  - a. Conduct Commission stream monitoring on Shingle and Bass Creeks and lake water quality monitoring and aquatic vegetation surveys on Pomerleau and Magda Lakes. This will complete the first cycle through all the lakes (except Palmer and Curtis, which are considered wetlands and are not monitored).
  - b. Sponsor volunteer stream monitoring through RiverWatch and wetland monitoring through WHEP (Hennepin County).
  - c. Sponsor volunteer lake monitoring through CAMP (Met Council) on Bass, Eagle, Pike, and Schmidt Lakes.
  - d. Complete reviews of development and redevelopment projects as necessary.
  - e. Prepare an annual water quality report.
  - f. Solicit cost-share projects from member cities funded from the Cost Share Fund and the annual \$100,000 levy and the Partnership Cost Share Fund and the annual \$50,000 levy.
  - g. Review feasibility studies for 2017 proposed capital projects, hold public hearings, order projects and certify levies.
  - h. Prepare a 2018 annual budget.

\*items are included in meeting packet



- i. Invite three guest speakers to make lunchtime water resources presentations.
- j. Tour project sites in the watershed.

Motion by Moore, second by G. Anderson to accept the draft 2017 Work Plan with the addition of the following under item 2 - Partner with a member city to complete a subwatershed BMP analysis. *Motion carried unanimously.*

**B. Draft 2017 Work Plan.\*** Last month the Commission accepted its 2016 Annual Progress Review. This month, Staff's January 6, 2017 memo outlines suggested activities for the Commission's 2017 Work Plan. Most are ongoing activities, although some rotate around the watershed. They include:

- 1. Continue to stay abreast of regional TMDLs.**
  - a. Continue to identify, pursue grant funding for, and implement projects and programs addressing the bacterial impairment in the Mississippi River.
  - b. Stay abreast of other regional and state TMDLs.
  - c. Identify boundaries of the untreated areas directly connected to the Mississippi River or other conveyances.
- 2. Partner with other organizations to increase reach and cost effectiveness.**
  - a. Participate in the West Metro Water Alliance joint education and outreach group.
  - b. Partner with the USGS, DNR, and other interested parties to stay abreast of groundwater issues.
  - c. Partner with a member city to complete a subwatershed BMP analysis.
- 3. Continue ongoing administration and programming.**
  - a. Undertake routine flow and water quality monitoring at two outfalls into the Mississippi River.
  - b. Sponsor volunteer stream monitoring through RiverWatch and wetland monitoring through WHEP (Hennepin County).
  - c. Complete reviews of development and redevelopment projects as necessary.
  - d. Prepare an annual water quality report.
  - e. Solicit cost-share projects from member cities funded from the Cost Share Fund and the annual \$50,000 levy.
  - f. Review feasibility studies for 2017 proposed capital projects, hold public hearings, order projects and certify levies.
  - g. Prepare a 2018 annual budget.
  - h. Invite three guest speakers to make lunchtime water resources presentations.
  - i. Tour project sites in the watershed.

Motion by Roach, second by Jaeger to accept the draft 2017 Work Plan. *Motion carried unanimously.*

## VII. Water Quality.

**A.** Included in the meeting packet was an email from Steve Woods, Executive Director, The Freshwater Society, seeking sponsorship for the **2017 Road Salt Symposium**. The Society is requesting \$500 sponsorships from watershed organizations for this February 2, 2017 event. Motion by Jaeger, second by G. Anderson to approve sponsorship at \$500. *Motion carried unanimously.*

\*items are included in meeting packet



**B.** Staff have been working on the **Pike Lake subwatershed assessment** requested by the City of Plymouth for that part of the lakedshed located within Plymouth. They have identified a number of potential BMPs and will be reviewing them with City staff in the next few weeks.

The 354-acre study area was delineated into 41 subwatersheds. Within the 41 subwatersheds, 32 contained some form of stormwater BMP (i.e., stormwater pond, wetland, infiltration basin). Wenck created an existing conditions P8 model for the study area which suggests an average total phosphorus (TP) load of approximately 91 lbs./year from the City of Plymouth to Pike Lake. The Pike Lake TMDL requires the City to reduce TP load from the watershed by an estimated 58 lbs./year. However, the modeling completed for the TMDL estimated the incoming load as 156 lbs./year compared to the 91 lbs./year estimated by the finer-scaled modeling completed for the subwatershed assessment. The TMDL used an estimated internal sediment load release rate of 6 mg/m<sup>2</sup>/day while cores samples taken post-TMDL suggested an internal release rate of 8 mg/m<sup>2</sup>/day would be more appropriate. The TMDL may have overestimated the watershed load, thus the target reduction may be less than 58 lbs./year. This will be revisited as part of the Cedar Island-Pike-Eagle Lakes TMDL review later this year.

Existing development and lack of public-owned land in the study area limits the type and number of feasible BMPs that can be proposed. The proposed projects include pond retrofitting with iron filter/filter benches, iron ditch checks along Pike Creek, rain garden infiltration basins and increased street sweeping practices.

#### **VII. Education.**

**A. Website/Social Media.\*** The Shingle Creek Watershed Management Organization Facebook page has 61 Likes. The page has not been very active lately, but Staff will be sharing more content from the West Metro Water Alliance (WMWA) Facebook Page, which currently has 91 likes. The most-reached posts include a re-post of the Cable 12 news story about chloride in Crystal Lake, and a post linking to an article about native plants providing winter habitat. WMWA has contracted with Dawn Pape (formerly of Blue Thumb) to generate content for the watershed websites and social media.

Attached to Staff's January 11, 2017 memo\* is a year-end Google Analytics report of traffic on shinglecreek.org (ignore the www1.free-share-buttons.top data; it is the analytics equivalent of spam that sometimes makes it past the filters) and third-quarter traffic, including a Users Flow diagram. An interesting metric is the Page Views by Landing Page. The bulk of the landing page hits is on /, which is the home page. The other pages listed are either direct links, such as when the notice that meeting packets are available with a link to the page or clicks from social media posts. Search engines such as Google also may show the home page and several subpages from which the user can select.

#### **B. West Metro Water Alliance (WMWA) Update.**

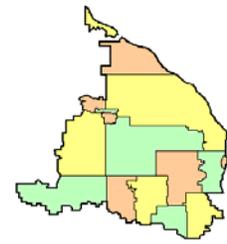
**1.** The *Planting for Clean Water and Pollinators* "Big Project" is underway. To help promote the Planting for Clean Water message, WMWA is organizing opportunities for native plant sales at various city events around the watersheds. At the January 10 WMWA meeting, the group narrowed the list of potential events/sites to the following candidates, although more sites could be added. A description\* of the Sponsored Native Plant Sales project was attached to Staff's memo.

Plymouth Home Expo  
Brooklyn Park Farmers Market  
St Louis Park Parktacular  
Golden Valley Days  
Maple Grove Farmers Market

Champlin Father Hennepin Days  
New Hope City Days (or the Farmers market)  
Camden (Minneapolis) Farmers Market  
Medina City Festival  
a Metro Blooms Workshop

More information is available on the campaign website <http://www.bluethumb.org/pledge>

\*items are included in meeting packet



2. **Educators.** More than 2,850 students were served in 2016, including about 200 students in the MWMO under a subagreement. The three educators are now scheduling spring visits and evaluating interest in a 6th grade follow up lesson. Complete metrics will be included in WMWA's 2016 Annual Report.

3. The **next WMWA meeting** is scheduled for 8:30 a.m., Tuesday, February 14, 2017, at Plymouth City Hall. Commissioners are encouraged to attend.

#### **VIII Grant Opportunities and Updates.**

##### **A. Iron and Biochar Enhanced Sand Filter Project.**

1. **Humboldt Avenue in Minneapolis.\*** On September 8, 2016 the Commission ordered project 2016-02, Shingle Creek Iron and Biochar-Enhanced Sand Filter Retrofits, authorized the Commission to act as the lead agency for the installation of these BMPs, and adopted a Memorandum of Understanding between the Commission and the MPRB Board setting forth the terms for constructing and maintaining the improvements. Wenck Associates prepared plans and specifications and solicited quotes for construction of the improvements. On December 23, 2016, three quotes were received and opened from G. F. Jedlicki, Inc., Sunram Construction and Blackstone Contractors, LLC, ranging from \$41,726 to \$55,353. G. F. Jedlicki, Inc. was the lowest quote at \$41,726. Construction costs are funded by the Commission's levy while construction design and observation are funded by the Section 319 Grant for the project. Results of the quote tabulation are included in Staff's memo dated January 6, 2017. Based on their review for qualification, completeness of proposal and lowest price, Staff have confirmed that G. F. Jedlicki, Inc. is the lowest qualified quote and recommend that they be awarded the project at Humboldt Avenue. Motion by G. Anderson, second by Grant to approve this recommendation. *Motion carried unanimously.*

2. **North Lions Park in Crystal.** On September 8, 2016 the Commission ordered project 2016-02, Shingle Creek Iron and Biochar-Enhanced Sand Filter Retrofits, authorized the Commission to act as the lead agency for the installation of these BMPs, and adopted a Memorandum of Understanding between the Commission and the City of Crystal setting forth the terms for constructing and maintaining the improvements. Wenck Associates prepared plans and specifications and solicited quotes for construction of the improvements. On December 23, 2016, three quotes were received and opened from G. F. Jedlicki, Inc., Sunram Construction and Blackstone Contractors, LLC, ranging from \$99,911 to \$122,895. G. F. Jedlicki, Inc. was the lowest quote at \$99,911. Funding is duplicative of the Humboldt Avenue project. Results of the quote tabulation are included in Staff's memo dated January 6, 2017. Based on their review for qualification, completeness of proposal and lowest price, Staff have confirmed that G. F. Jedlicki, Inc. is the lowest qualified quote and recommend that they be awarded the project at North Lions Park. Motion by Jaeger, second by Moore to approve this recommendation. *Motion carried unanimously.*

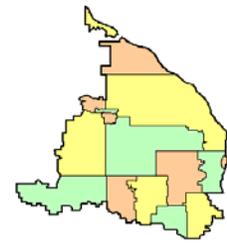
**B. Public Art Reaeration Project.\*** Final plans and specifications and design details have been worked out with the cities of Brooklyn Park and Brooklyn Center for the DO Reaeration public art installations at the Connections site in Brooklyn Park and at the Palmer Lake outlet site in Brooklyn Center. At this time Staff recommends that the Commission approve proceeding to fabrication and installation of the installations at those two sites.

Some issues still remain at the Centennial Park site in Brooklyn Center. Staff have been working with Brooklyn Center staff but have not yet obtained their approval to go ahead with the project. To keep the project on track for spring installation, Staff recommend that the Commission authorize proceeding to fabrication and installation upon receiving approval from the City of Brooklyn Center staff.

Motion by Jaeger, second by roach to authorize proceeding to fabrication and installation at the Connections and Palmer Lake outlet sites and authorize proceeding at the Centennial Park site if approved by the City of Brooklyn Center. *Motion carried unanimously.* The grant for this project could be extended to the end of December 2018.

**C. The Twin Lake Carp Management project.\*** Attached to Staff's January 6, 2017 memo are two figures showing the locations of the 40 carp implanted with radio tracking devices during the October and

\*items are included in meeting packet



December tracking visits. It appears there has been no mortality of carp from the surgeries (a 10% mortality rate is common), and all the carp have been located within the lake system. There appears to be significant movement of the fish between the three lakes.

An interesting phenomenon can be seen by comparing the two figures. On the October figure the carp can be seen tightly hugging the shallow shoreline where they feed. On the December figure the carp are dispersing away from the shoreline out into the deeper areas of the lakes, and are probably starting to head towards their overwintering spots.

The field team went out in January to track again. Results showed the fish clustered in the deeper areas of Middle and Upper Twin Lakes.

**IX. Communications.**

**A.** The **December communications log\*** was included in the meeting packet. No action required.

**B.** The Commissions have each received letters\* from Kirsten Barta, Hennepin County Rural Conservationist, advising them that her preliminary review of the **buffers in the watersheds** indicates no parcels were found to be out of compliance. No additional follow-up work will be required.

**X. Other Business.**

**A.** **Commissioner/Alternate appointments** are due for the cities of Osseo, Plymouth, and Robbinsdale.

**B.** Moore will serve as the Nominating Committee for Shingle Creek. (The Nominating Committee for West Mississippi is the Committee-of-the-whole.) Individuals wishing to serve as an officer in 2017 should contact Moore. **Election of officers** will take place at the February 9 meeting.

**C.** The biennial **Solicitation of Interest Proposals** will be published in the January 17, 2017 edition of the *State Register*. Responses are due February 1, 2017.

**XI. Adjournment.**

There being no further business before the Shingle Creek Commission, motion by Jaeger, second by Moore to adjourn. *Motion carried unanimously.*

There being no further business before the West Mississippi Commission, motion by Vlasin, second by Jaeger to adjourn. *Motion carried unanimously.*

The meeting was adjourned at 2:28 p.m.

Respectfully submitted,

Judie A. Anderson  
Recording Secretary  
JAA:tim

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\*items are included in meeting packet