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MINUTES
Regular Meeting
July 9, 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, July 9, 2015, at 12:45 p.m., at the Clubhouse at Edinburg USA, 8700 Edinbrook Crossing, Brooklyn Park, MN.

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

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

Not represented: Champlin.

Also present were: David Vlasin and Steve Lillehaug, Brooklyn Center; John Roach and Jesse Struve, Brooklyn Park; Todd Tuominen, Champlin; Mark Ray, Crystal; Bob Paschke, New Hope; Ben Scharenbroich, Plymouth; Richard McCoy, Robbinsdale; Randy Anhorn, Hennepin County Dept. of Environment and Energy; and Jared Jones, Sambatek, for Project SC2015-05.

II. **Agendas and Minutes.**

Motion by Stelmach, second by Jaeger to approve the **Shingle Creek agenda*** as revised. *Motion carried unanimously.*

Motion by Jaeger, second by Stelmach to approve the **West Mississippi agenda*** as revised. *Motion carried unanimously.*

Motion by Vlasin, second by Moore to approve the **minutes of the June 11, 2015, Shingle Creek meeting.*** *Motion carried unanimously.*

Motion by Jaeger, second by Vlasin to approve the **minutes of the June 11, 2015, West Mississippi meeting.*** *Motion carried unanimously.*

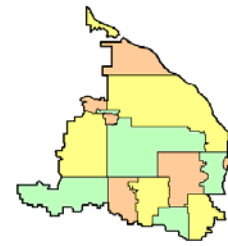
III. **Finances and Reports.***

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

Motion by Vlasin, second by Jaeger to approve the **Shingle Creek July claims.*** Claims totaling \$45,510.09 were *approved by roll call vote: ayes – Vlasin, Carstens, Moore, Jaeger, Johnson, Wills, Stelmach, Polzin and Sicora; nays – none.*

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

*items are included in meeting packet



Motion by Jaeger, second by Vlasin to approve the **West Mississippi July claims.*** Claims totaling \$9,643.25 were approved by roll call vote: ayes – Vlasin, Carstens, Jaeger and Stelmach; nays – none; absent - Champlin.

IV. Open Forum.

A. Moore distributed a copy of a *StarTribune* article regarding **buffers**. Matthiesen noted that the Commissions do not retroactively add buffers to projects.

B. Moore also noted from the Minnehaha Watershed District's *Splash* that **zebra mussels** had been found outside the Christmas Lake treatment area.

[Mulla arrived 12:55 p.m.]

C. Johnson described his meeting with Rachael Crabb from the Minneapolis Park Board where they discussed the progress at **Webber Park**. Matthiesen will try to arrange a tour of the new facility following an upcoming Commission meeting.

D. It was noted that a recent article in the *StarTribune* announced that Hennepin County leaders are considering a funding package worth approximately \$38 million to help reduce the **Southwest LRT** funding gap.

V. Project Reviews.

A. **SC2015-05 Minneapolis Business Center II, Brooklyn Center.*** Redevelopment of the Howe Fertilizer site located at the southwest corner of 49th Avenue North and Osseo Road into a commercial site. The proposed project area is 5.03 acres. Following development, the site will be 62.2% impervious, an increase of 0.74 acres. A complete Project Review was received on June 3, 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 the Commission's requirements for water quality.

Runoff from the site is proposed to be routed to three basins: an infiltration basin receiving runoff from the east side of the building; an infiltration basin receiving runoff from the western paved parking lot; and a dry pond receiving runoff from the western roof divide. The applicant is infiltrating the 1.3" storm off of the impervious surfaces and, therefore, meets the Commission's water quality treatment requirements.

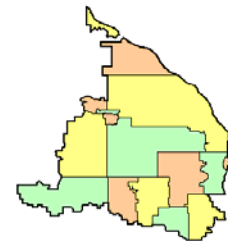
Commission rules require that site runoff be limited to predevelopment rates for the 2-, 10-, and 100-year storm events. Runoff from the site is directed into two infiltration basins and a dry pond. The applicant meets the Commission's rate control requirements.

Commission rules require the site to infiltrate 1.0" of runoff from new impervious area within 48 hours. The new impervious area on this site is 3.25 acres, requiring that 11,767.07 cf be infiltrated within 48 hours. The applicant proposes to infiltrate the 1.3" storm off of the impervious surfaces into three basins. The basins have the capacity to infiltrate the required volume within 48 hours, meeting Commission requirements. The Commission requires the applicant to conduct a post-construction infiltration test on the infiltration basin to verify the infiltration rates used in the design. If not met, corrections will be made to meet the design infiltration rates.

The NWI does not identify any wetlands on site. There are no Public Waters on this site. There is no floodplain on this site according to FEMA. The low floor elevations of the building and loading dock are at least two feet higher than the high water elevation of the detention ponds and infiltration basins as calculated using Atlas-14 precipitation, thereby meeting Commission requirements.

There is known contaminated soil/groundwater according to the project engineer. The infiltration basins will be constructed after site remediation and, therefore, will not cause detrimental effects to the groundwater. Contaminated soil will be removed from site and remediation will be completed by Braun Intertec.

*items are included in meeting packet



An erosion control plan was submitted with the project review, and includes rock construction entrance, road drain inlet protection, gravel curb sediment filter. The grading plan notes the infiltration basins are to be protected by silt fence after construction and the silt fence is also shown on the erosion control plan.

A public hearing on the project was held on June 11, 2015 as part of the Brooklyn Center Planning Commission meeting.

Motion by Jaeger, second by Johnson to advise the City of Brooklyn Center that project SC2015-05 is approved, subject to the following conditions.

1. Provide an O&M Agreement and easements acceptable to the City of Brooklyn Center for the three infiltration basins.
2. Conduct a post construction witness test with City staff present to verify the infiltration rate for each of the infiltration basins.

Motion carried unanimously.

B. SC2015-06 The Villas at Bass Creek, Plymouth.* Development of 53 single family homes at the southwest corner of Nathan Lane and Bass Lake Road. The proposed project is 11.5 acres on a 18.5 acre site. Following development, the site will be 25% impervious, an increase of 4.3 acres. A complete Project Review was received on June 24, 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.

Runoff from the site is proposed to be routed a stormwater basin with a filtration trench capable of treating the 1.3" storm. 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 run through a stormwater basin. The applicant meets the Commission's rate control requirements.

Commission rules require the site to infiltrate 1.0" of runoff from new impervious area within 48 hours. The new impervious area on this site is 4.5 acres, requiring that 0.18 acre-feet be infiltrated within 48 hours. The applicant proposes that the current design has the capacity to infiltrate the required volume within 48 hours, meeting Commission requirements.

The NWI does identify wetlands on site and the Hennepin County Natural Resources Map shows a potential wetland. Plymouth is LGU for WCA administration. Wetland buffers with a minimum of 20 feet in width and average 30 feet in width are provided, meeting Commission requirements.

There are no Public Waters or floodplain on this site. The low floor elevations of the buildings are at least two feet higher than the high water elevation of Bass Creek and the adjacent detention pond. meeting Commission requirements.

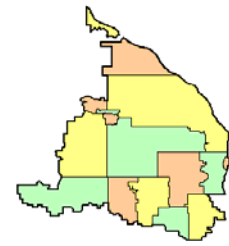
An erosion control plan was submitted with the project review, and includes a rock construction entrance, perimeter silt fence, slope checks, and native seed specified on the pond slopes. The erosion control plan meets Commission requirements.

According to Derek Asche the project will go before the Plymouth Planning Commission on July 15 and the City Council on July 28. This satisfies the Commission public notice requirements.

Motion by Polzin, second by Moore to advise the City of Plymouth that project SC2015-06 is approved, subject to the following conditions:

1. Provide an O&M agreement acceptable to the City of Plymouth for the stormwater basin and filtration bench.

*items are included in meeting packet



2. Conduct a post construction filtration test in the presence of city staff on the filtration bench to verify the flow rate is no less than shown in the design calculations.

Motion carried unanimously.

C. WM 2015-04 Hy-Vee, Brooklyn Park.* Construction of a grocery store and gas station at the southwest corner of Zane and Highway 610. The proposed project is 15.86 acres. Following development, the site will be 62.8% impervious, an increase of 9.86 acres. A complete Project Review was received on June 26, 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 infiltration basins on the northwest and northeast corners of the development. The applicant meets the Commission's water quality treatment requirements to infiltrate 1.3" of runoff.

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 into two infiltration basins. The northwest basin receives runoff from the main structure and loading dock area. Discharge from the northwest pond flows to the east into a second infiltration basin. The northeast infiltration basin receives runoff from the parking lot, gas station and a small area outside of the proposed development. 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 9.86 acres, requiring that 4.06 acre-feet be infiltrated within 48 hours. The applicant proposes to infiltrate 1.13 acre-feet within 48 hours, meeting Commission requirements. The applicant must conduct a post-construction infiltration test on the infiltration basin to verify the infiltration rates used in the design. If not met, corrections will be made to meet the design infiltration rates.

The NWI does not identify any wetlands on site. The Commission is the LGU for WCA administration. There are no Public Waters on this site. There is no floodplain on this site according to FEMA. The low floor elevations of the buildings are slab-on-grade construction and are at least two feet higher than the high water elevation of the ponds according to Atlas-14 precipitation, meeting Commission requirements.

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 a rock construction entrance, catch basin protection and perimeter silt fence. The erosion control plan meets Commission requirements.

An Operating and Maintenance Plan and easements for the infiltration ponds acceptable to the City of Brooklyn Park must be provided to meet Commission requirements.

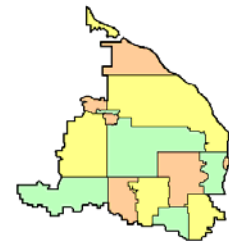
A public hearing on the project was conducted on July 8, 2015 to the Planning Commission and City Council.

Motion by Mulla, second by Stelmach to advise the City of Brooklyn Park that project WM2015-04 is approved, subject to the following conditions.

1. Provide an O&M Agreement and easement acceptable to the City of Brooklyn Park for the infiltration basins and pretreatment devices.
2. Provide an easement on the infiltration basins to the City of Brooklyn Park.
3. Conduct a post-construction infiltration test on the infiltration basins in the presence of City staff to verify the infiltration rates used in the design.

Motion carried unanimously.

*items are included in meeting packet



D. Blue Line Light Rail Transit project.* Included in the meeting packet was a draft letter from the City of Crystal to the Commission. In it Public Works Director Ray formally requests that the Commission perform the Wetland Conservation Act administration duties and that the Commission's engineer be the lead reviewer and point person on this project. Motion by Moore, second by Jaeger to approve this request. *Motion carried unanimously.*

Matthiesen has contacted the project manager to determine whether the Commissions can be reimbursed for Staff time on this project and is awaiting his response.

VI. Water Quality.

Randy Anhorn, Supervisor of the Land and Water Unit, Hennepin County Department of Environment and Energy, gave an over view of **Hennepin County's draft Natural Resources Strategic Plan 2015-2020**. The County is seeking feedback on the plan which is intended to guide the County and its partners in responding to natural resource issues and developing internal and external policies, programs and partnerships that improve, protect and preserve natural resources. He also distributed a handout which provides a summary of the plan and highlights strategies and key elements to meet their natural resources goals.

The Plan outlines five goals:

- Goal 1: Hennepin County waters are clean and healthy
- Goal 2: Hennepin County landscapes are diverse and functional and natural areas are preserved
- Goal 3: Hennepin County fosters effective partnerships
- Goal 4: Hennepin County motivates environmental stewardship
- Goal 5: Hennepin County leverages financial resources

Deadline to receive comments is July 31, 2015. The full plan is available at www.hennepin.us/naturalresources.

VII. Third Generation Watershed Management Plan.

A. In April 2015 the **City of Osseo*** submitted its draft Stormwater Management Plan for the Commissions' review. Staff provided the City's consultant with a number of suggested revisions and, on June 8, 2015 the City submitted a revised Plan. Staff found those revisions to be satisfactory and recommends that the Commissions approve the Plan as revised.

The City also provided the draft Plan to the Metropolitan Council for 45-day review as required by statute. The comments from the Met Council were included in the June meeting packet. In particular, the Met Council pointed out the need to add a CIP and to provide more detail regarding the schedule of proposed improvements.

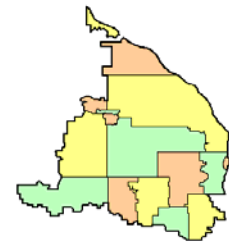
The City recently adopted a revised Stormwater Management Ordinance that has some provisions that conflict with the Commissions' requirements. In accordance with MN Statutes 103B.235 Subd. 4 the City must amend its local controls within 180 days of the Commissions' approval of the Plan.

1. The ordinance requires pond outlet skimmers sized for the one-year event. The Commissions require skimmers to meet the two-year event.

2. The ordinance states that, *Development that creates one acre or more of new impervious surface must infiltrate runoff from impervious areas and address the use of best management practices to limit the effect of the loss of pervious area.* The Commissions' volume management requirement (which may be fulfilled by infiltrating 1" or using other abstraction techniques) applies to all projects meeting review threshold requirements, regardless of how much impervious surface is created. A one-half acre commercial development creating 10,000 SF of new impervious is required to infiltrate 1" of runoff off that 10,000 SF.

3. The ordinance includes a table of infiltration rates by Hydrologic Soil Group. Those rates are inconsistent with the Minnesota Stormwater Manual and should be updated.

*items are included in meeting packet



Staff also have one additional revision to the Osseo plan:

4. Objective B Implementation Action 3 states, *Conformance with requirements of the WMC addressing water treatment facility requirements for developments/redevelopments over 5 acres shall be addressed.* The Commissions' Rules and Standards apply to developments/redevelopments over one-half acre in size (one acre for single family detached residential). Staff suggest simply deleting the phrase, "over 5 acres."

Motion by Johnson, second by Stelmach to approve the City of Osseo's draft Stormwater Management Plan. Motion carried unanimously.

Motion by Stelmach, second by Mulla to approve the City of Osseo's draft Stormwater Management Plan. Motion carried unanimously.

B. 2015 Capital Improvement Program.*

Earlier this year the Commissions undertook both a Major Plan Amendment and a Minor Plan Amendment to revise the Capital Improvement Program (CIP) for 2015. The next step in the CIP process is to receive and discuss feasibility studies for the proposed projects and call for a public hearing on those projects that are moved forward.

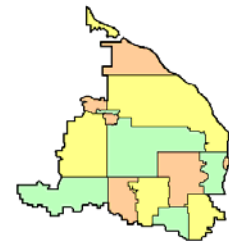
The Technical Advisory Committee (TAC) received and discussed feasibility reports for three of the six 2015 capital projects proposed for consideration for Commission funding. The other three do not require feasibility studies as they are creating cost-share funds from which future projects will be funded. Included in the meeting packet were feasibility summaries for projects 2-4. The TAC recommends that the Commissions proceed to Public Hearing on all six proposed projects.

| Shingle Creek Projects | Total Project Cost | Commission Levy | Grant Funds | City Funds |
|--|--------------------|------------------|------------------|------------------|
| 1 Cost share (city projects) | \$200,000 | \$100,000 | | \$100,000 |
| 2 Shingle Creek Reaeration | 170,000 | 42,500 | \$93,500 | 34,000 |
| 3 Twin Lake Carp Tracking, Removal, and Aeration | 225,000 | 125,000 | 100,000 | 0 |
| 4 Lions Park Pond Retrofit | 160,000 | 40,000 | | 120,000 |
| 5 Priority BMP retrofits (private projects) | 100,000 | 50,000 | | 50,000 |
| TOTAL | \$855,000 | \$357,500 | \$193,500 | \$304,000 |
| <hr/> | | | | |
| West Mississippi Project | Total Project Cost | Commission Levy | | City Funds |
| 6 Cost share (city projects) | \$100,000 | \$50,000 | | \$50,000 |
| TOTAL | \$100,000 | \$50,000 | | \$50,000 |

1. **Shingle Creek Commission Fund for Retrofit Cost Share (City Projects).** This annual project provides cost-sharing to retrofit smaller Best Management Practices (BMPs) identified in Commission-prepared Intensive BMP Retrofit Studies. The TAC developed policies and procedures to administer these funds, and makes recommendations to the Commissions on which projects should be funded. In 2015 the Commission awarded cost-share funding to Brooklyn Center to install underground devices to treat runoff from the parking lots and storage yards at the City Garage. Another project shared in the cost of a large infiltration basin retrofit in a city park in New Hope to treat street runoff. Based on the TAC's recommendation, the Commission proposes to increase the annual levy to \$100,000. Potential cost-share projects for 2016 will be solicited in November-December 2015.

2. **Shingle Creek Reaeration Project.*** This project is the design, fabrication and installation of mechanical or passive stream reaeration structures that are artistic in design and appearance and

*items are included in meeting packet



practical in function. These structures will be installed in three locations in public parks on Shingle Creek where TMDL modeling determined that traditional stream roughness reaeration structures would not be sufficient to increase dissolved oxygen above the aquatic life standard. The Commission has received a \$93,500 grant from the USEPA/MPCA to help fund this project.

3. Twin Lake Carp Tracking, Removal, and Aeration Project.* In the Twin and Ryan Lakes chain of lakes, carp activity mobilizes and suspends lake sediments into the water column, releasing phosphorus and increasing turbidity. This project will track the movement of carp into and out of the lake system, identify overwintering and reproduction areas, remove the carp, install permanent carp barriers where necessary, and install an aeration system on Upper Twin to reduce the winter fish kills that stress the fish community and allow carp to become dominant. The Commission has received a \$100,000 grant from the USEPA/MPCA to help fund this project, and will levy for the balance of the funds.

4. Lions Park Pond Retrofit.* A large existing stormwater pond in Crystal's North Lions Club Park at 62nd and Hampshire Avenues will be retrofit with an iron-and bio-char enhanced Minnesota Filter Bench to increase the effectiveness of the pond in removing dissolved phosphorus and bacteria from storm water runoff. This site is in the Upper Twin Lake subwatershed.

5. Priority BMP Retrofits (Private Projects). The Commission is currently completing a detailed assessment of the commercial district of West Broadway and Bass Lake Road in Crystal. This area is highly impervious and developed with very little runoff treatment. The BMP assessment is identifying opportunities for retrofitting BMPs both on public property (e.g., Becker Park) and on private property. This project would provide cost-share incentives for property owners such as Target or the Crystal Shopping Center, and to take ongoing responsibility for maintaining those treatment facilities.

6. Commission Fund for Retrofit Cost Share (City Projects). This annual project provides cost-sharing to retrofit smaller BMPs identified in Commission-prepared Intensive BMP Retrofit Studies. The Commission has completed assessments for small BMP retrofits in Champlin and in Brooklyn Center.

[Stelmach departed 2:15 p.m.]

Motion by Jaeger, second by Moore to adopt the proposed 2015 CIP, set a date of September 10, 2015 for a public hearing for the six projects, and direct Staff to publish notification of the hearing in accordance with the JPA and State Statute Chapter 103B. *Motion carried unanimously.*

Motion by Mulla, second by Jaeger to adopt the proposed 2015 CIP and proceed to a public hearing as moved above. *Motion carried unanimously.*

VIII. Education and Public Outreach - West Metro Water Alliance.

The **next meeting of WMWA** is scheduled for 8:30 a.m., Tuesday, July 14, 2015, Plymouth City Hall.

IX. Grant Opportunities and Updates.

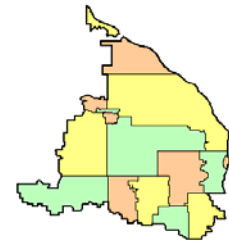
Applications for funds under the **FY16 Clean Water Fund grant program** are being accepted through August 28, 2015. Staff will prepare an application for a project that would address impervious surface runoff generated from the commercial properties at the commercial node at West Broadway and Bass Lake Road in Crystal. The draft application will be reviewed by the Commission at its August meeting. Staff will work with the City of Crystal to package this project and possibly North Lions Park pond enhancement and a proposed water quality improvement in the City ballfields that were also identified Crystal subwatershed BMP assessment.

X. Communications.

A. Communications Log.* No action required.

B. Copy of June 5, 2015 letter to John Tucci, President, Lake Savers LLC, and Larry Adams, Schmidt Lake Association from Dennis Wasley, Minnesota Pollution Control Agency, re request for application of NutriNix to **Schmidt Lake**.

*items are included in meeting packet



C. **Upper Mississippi River Source Water Protection Project, 2014 Progress Report.**

D. Copy of letter transmitting the **Shingle Creek 2016 Budget** to member cities.

E. Copy of letter transmitting the **West Mississippi 2016 Budget** to member cities.

XI. Other Business.

Staff have received **signed JPAs** from the cities of Brooklyn Center, Brooklyn Park, Champlin, Crystal, Maple Grove, New Hope, Osseo, Plymouth, and Robbinsdale.

XII. Adjournment.

There being no further business before the Shingle Creek Commission, motion by Jaeger, second by Johnson to adjourn. *Motion carried unanimously.* The meeting was adjourned at 2:30 p.m.

There being no further business before the West Mississippi Commission, motion by Jaeger, second by Mulla to adjourn. *Motion carried unanimously.* The meeting was adjourned at 2:30 p.m.

Respectfully submitted,

A handwritten signature in black ink, reading "Judie A. Anderson".

Judie A. Anderson
Recording Secretary
JAA:tim

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*items are included in meeting packet