

MINUTES

September 12, 2019

A meeting of the Technical Advisory Committee (TAC) of the Shingle Creek and West Mississippi Watershed Management Commissions was called to order by Vice Chairman Mark Ray at 11:33 a.m., Thursday, September 12, 2019, at Edinburgh USA, 8700 Edinbrook Crossing, Brooklyn Park, MN.

Present were: Andrew Hogg, Brooklyn Center; Mitchell Robinson, Brooklyn Park; Mark Ray, Crystal; Derek Asche, Maple Grove; Liz Stout, Minneapolis; Megan Hedstrom, New Hope; Ben Scharenbroich, Plymouth; Ed Matthiesen and Diane Spector, Wenck Associates, Inc.; and Judie Anderson, JASS.

Also present: Burt Orred, Jr., Crystal; Shahram Missaghi, Minneapolis; and Steve Christopher, Board of Water and Soil Resources (BWSR).

Not represented: Champlin, Osseo, and Robbinsdale.

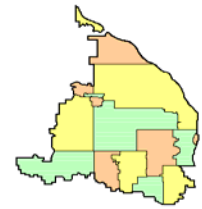
- I. Motion by Asche, second by Scharenbroich to **approve the agenda.*** *Motion carried unanimously.*
- II. Motion by Robinson, second by Hogg to **approve the minutes***of the July 25, 2019 meeting. *Motion carried unanimously.*
- III. **River Park Stormwater Improvement.***

The River Park Master Plan establishes a vision for the park and provides guidelines for its further development to accommodate an increased natural experience while providing more opportunity to view and access the Mississippi River. Stormwater improvements are included in the proposed updates to River Park as part of the Master Plan. The proposed stormwater improvements are intended to provide an improved habitat for animals and insects and an educational space for the residents of the community to learn about water quality.

Roughly 300 acres within the City of Brooklyn Park drain to the existing stormwater outlet to the Mississippi River at the southern end of the park. The current outlet is a 60" concrete pipe connected to a concrete spillway which slopes down to the river's edge. There is currently no water quality treatment provided prior to the discharge into the Mississippi River for much of the 300 acres that drain through the park outlet. There are two stormwater ponds upstream which treat roadway drainage from Trunk Highway 252. However, about 250 acres remain untreated prior to discharge.

The City wishes to incorporate water quality treatment into the design of River Park both to reduce the loads on the impaired Mississippi River and to provide an educational space for residents to learn about water quality treatment. The stormwater best management practice (BMP) will contribute to the overall natural feel of the park while adding additional benefit for the residents, animals and insects.

A stormwater pond is proposed near the exiting 60" piped outlet to the river. The pond would be designed to have a natural feel, with slight drops in elevation from one cell of the pond to the next and slowly sloping to the river. A diversion structure would be placed upstream of the ponds with the primary outlet



routed to the pond and the secondary outlet routed directly to the river. During low flow storm events the majority of the water would be routed through the pond and treated prior to discharge into the river. During larger storm events, high flows would bypass the stormwater pond and discharge directly to the river, similar to existing conditions. This would provide water quality treatment during small events while reducing the risk of washing out of the stormwater pond during larger events.

This section of the Mississippi River is listed as impaired for nutrients, fecal coliform and PCB in fish by the Minnesota Pollution Control Agency (MPCA). The proposed stormwater pond would address the nutrient portion of the impairment by reducing phosphorous while also reducing the turbidity. A pretreatment device consisting of a sump manhole with a SAFL baffle will be placed downstream of the diversion device and upstream of the pond to provide additional treatment and to reduce the maintenance requirements for the stormwater pond. The existing 60" concrete pipe/spillway outlet would be relocated to accommodate the proposed stormwater pond. The pipe would be extended towards the river, under the proposed island feature in the park to conceal the outlet to visitors of the park and to enhance the natural feel of park.

Funding from this project will come from the City of Brooklyn Park storm sewer funds and is identified in the Capital Improvement Plan. For this project, the City of Brooklyn Park will be requesting a 25% cost-share from the West Mississippi Watershed Management Commission. The estimated cost-share for this project is approximately \$121,250.00.

Motion by Ashe, second by Scharenbroich to proceed with a Minor Plan Amendment to add this project to the SCWM CIP. *Motion carried unanimously.*

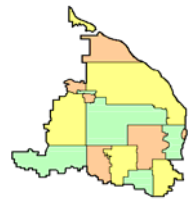
IV. The City of Brooklyn Center has been discussing options regarding an ongoing water quality issue in the private channel/pond system at **Mallard Creek Townhomes** in the northwest corner of the city, just south of the upcoming Connections II project.

In the late 1970s a developer excavated an old agricultural ditch through a wetland and built townhomes and ponds on the high ground. The ponds were ornamental and not intended to provide stormwater treatment. Prior to this construction the ditch received stormwater from nearby streets and development, which continues today. The volume into the ditch/pond system is not sufficient to flush the system and the ponds can get very stagnant and algae-covered. There are multiple townhome associations, and they mostly maintain turf grass to the edge of the ponds, although they are now leaving a fringe unmowed. Water quality has been an issue for decades.

The City recently received a request from one of the associations as to whether a proposed aeration system would qualify for any cost-share funds. They forwarded quotes from an equipment supplier and an electrician to install a series of aerators in the channel in the southern part of the development. These total about \$78,000. The association also submitted a quote for algaecide at \$3,800. Some academic research was also provided. Staff have reviewed the literature and the proposal and believe that such an aeration system may help reduce algal growth and muck, but it will not improve water quality or decrease any nutrient load being discharged into Shingle Creek downstream. It is their opinion that sharing in the cost of this system would not be consistent with the Partnership Cost Share guidelines, but would be happy to discuss further.

Motion by Ray, second by Scharenbroich to deny this request. *Motion carried unanimously.* The members indicated they would be willing to reconsider this request should the applicant return with a revised proposal that would show water quality improvement above and beyond what is proposed.

V. The members queried whether **Ryan-Twin Lakes** should be added to the HUC8 modeling. Staff will bring back a scope of work and project costs. The Commission's attorney indicated this could be considered a watershed benefit.



VI. Other Business.

A. The **next meeting** of the Technical Advisory Committee is scheduled for 11:30 a.m., Thursday, October 10, 2019, prior to the Commission's regular meeting.

B. The meeting was adjourned at 11:58 a.m.

Respectfully submitted,

A handwritten signature in black ink that reads "Judie A. Anderson". The signature is written in a cursive style.

Judie A. Anderson
Recording Secretary

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