



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

October 29, 2019

Commissioners  
 Shingle Creek and West Mississippi  
 Watershed Management Commissions  
 Hennepin County, Minnesota

The agenda and meeting packet are available to all interested parties on the Commission's web site. The direct path is <http://www.shinglecreek.org/minutes--meeting-packets.html>

Dear Commissioners:

Regular meetings of the Shingle Creek and West Mississippi Watershed Management Commissions will be held **Thursday, November 14, 2019**, at Edinburgh USA, 8700 Edinbrook Crossing, Brooklyn Park, MN. Lunch will be served at 12:00 noon and the meetings will convene concurrently at 12:45.

Please email me at [judie@jass.biz](mailto:judie@jass.biz) to confirm whether you or your Alternate will be attending the regular meeting.

Your meal choices are:

\_\_\_\_\_ Cobb Salad. House smoked chicken with tomato, avocado, diced egg, bacon, Maytag bleu cheese and creamy Parmesan dressing. Freshly Baked Breads. (All Dressing will be served on the side)

\_\_\_\_\_ Bar-B-Que Beef Brisket Sandwich smothered with onions and provolone cheese served with vegetable slaw, Kettle Chips

\_\_\_\_\_ Grilled Chicken Breast with Honey-Crystalized Ginger Sauce with spinach, pine nuts, prosciutto rice and seasonal vegetables

\_\_\_\_\_ I will be attending but DO NOT want a meal.

\_\_\_\_\_ I will not be attending the regular meeting.

We must make final reservations by **noon Wednesday, November 6, 2018**. Please make a reservation, even if you are not requesting a meal, so we can arrange for sufficient seating and meeting materials. Thank you.

Regards,

Judie A. Anderson  
 Administrator

cc: Alternate Commissioners  
 Metropolitan Council

Member Cites  
 Wenck Associates

Troy Gilchrist

TAC Members

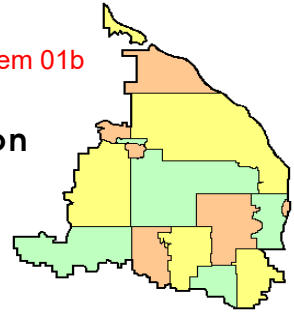
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# Shingle Creek Watershed Management Commission



item 01b



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A combined regular meeting of the Shingle Creek and West Mississippi Watershed Management Commissions will be convened on Thursday, November 14, 2019, at 12:45 p.m. at Edinburgh USA, 8700 Edinbrook Crossing, Brooklyn Park, MN. Agenda items are available at <http://www.shinglecreek.org/minutes--meeting-packets.html>.

1. Call to Order.
  - SCWM a. Roll Call.
  - ✓ SCWM b. Approve Agenda.\*
  - ✓ SCWM c. Approve Minutes of Last Meeting.\*
2. Reports.
  - ✓ SC a. Treasurer's Report.\*
  - ✓ SC b. Approve Claims\* - voice vote.
  - ✓ WM c. Treasurer's Report.\*
  - ✓ WM d. Approve Claims\* - voice vote.
- SCWM 3. Open forum.
4. Project Reviews.
  - ✓ WM a. WM2019-10 Mississippi Crossing, Champlin.\*
5. Watershed Management Plan.
- SCWM 6. Water Quality.
  - ✓ SC a. Approve HUC-8 Modeling Scope Revision.\*
    - 1) Wenck Proposal.\*
    - 2) Ryan Creek Overview.\*
  - SCWM b. Next TAC meeting – 11:30 a.m., prior to this meeting.
    - 1) October 10, 2019 TAC Meeting Minutes\* - information only.
- SCWM 7. Education and Public Outreach.
  - ✓ SC a. Professional Services Agreement for Coordinator.\*
  - SCWM b. Education and Outreach – update.\*\*
  - SCWM c. Next WMWA meeting – 8:30 a.m., Tuesday, December 10, 2019, Plymouth City Hall.
8. Grant Opportunities and Updates.
  - SC a. Presentation - SRP Reduction Project 2019 Results.\*
- SCWM 9. Communications.
  - SCWM a. Communications Log.\*
  - SCWM b. MTD's.
    - 1) Letter to MPCA.\*
    - 2) Responses to MPCA Questions.\*
  - SCWM c. Metropolitan Council Grant Awards.\*
  - SCWM d. Conservation Corps RFP.\*
- SCWM 10. Other Business.
- SCWM 11. Adjournment.

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\* In meeting packet or emailed

\*\* Available at meeting

\*\*\*Previously transmitted

\*\*\*\* Available on website

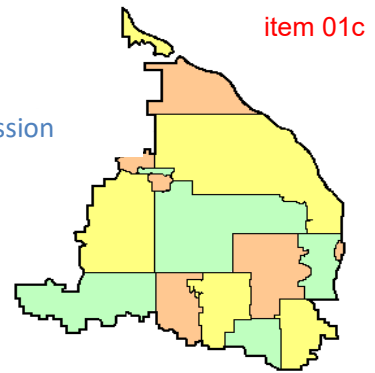
✓ Item requires action



Watershed Management Commission



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## MINUTES Regular Meeting and Public Meeting October 10, 2019

(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 West Mississippi Chairman Gerry Butcher at 12:54 p.m. on Thursday, October 10, 2019, at Edinburgh, USA, 8700 Edinbrook Crossing, Brooklyn Park, MN.

Present for Shingle Creek were: David Vlasin, Brooklyn Center; Adam Quinn, Brooklyn Park; Burton Orred, Jr., Crystal; Karen Jaeger, Maple Grove; Bill Wills, New Hope; Harold E. Johnson, Osseo; Wayne Sicora, Robbinsdale; Ed Matthiesen, Wenck Associates, Inc.; Troy Gilchrist, Kennedy & Graven; and Judie Anderson, JASS.

Not represented: Minneapolis and Plymouth.

Present for West Mississippi were: David Vlasin, Brooklyn Center; Steven Chesney, Brooklyn Park; Gerry Butcher, Champlin; Karen Jaeger, Maple Grove; Harold E. Johnson, Osseo; Ed Matthiesen, Wenck Associates, Inc.; Troy Gilchrist, Kennedy & Graven; and Judie Anderson, JASS.

Also present were: Andrew Hogg, Brooklyn Center; Mitch Robinson and Alex Prasch, Brooklyn Park; Todd Tuominen, Champlin; Mark Ray, Crystal; Derek Asche, Maple Grove; Shahram Missaghi, Minneapolis; Bob Grant and Megan Hedstrom, New Hope; Amy Riegel, Plymouth; Richard McCoy and Marta Roser, Robbinsdale; and Stephen Mastey, Landscape Architecture, and Ann Gaash and Jeannie Myers, Twin Lake North Condominium Association.

### II. Agendas and Minutes.

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

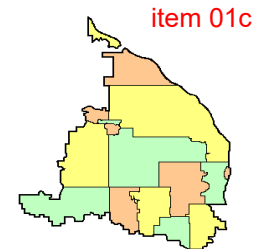
Motion by Chesney, second by Johnson to approve the **West Mississippi agenda**.\* *Motion carried unanimously.*

Motion by Wills, second by Sicora to approve the **minutes of the September regular meeting and public hearing**.\* *Motion carried unanimously.*

Motion by Johnson, second by Chesney to approve the **minutes of the September regular meeting and public hearing**.\* *Motion carried unanimously.*

### III. Finances and Reports.

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



Motion by Wills, second by Jaeger to approve the **Shingle Creek October claims.\*** Claims totaling \$60,476.13 were *approved by roll call vote*: ayes – Quinn, Orred, Jaeger, Wills, Johnson, and Sicora; nays – none; absent – Brooklyn Center, Minneapolis, and Plymouth.

**B.** Motion by Chesney, second by Johnson to approve the **West Mississippi October Treasurer's Report.\*** *Motion carried unanimously.*

Motion by Johnson, second by Chesney to approve the **West Mississippi October claims.\*** Claims totaling \$14,281.52 were *approved by roll call vote*: ayes – Chesney, Butcher, Jaeger, and Johnson; nays – none; absent – Brooklyn Center.

*[The regular meeting was suspended at 1:03 p.m. in order to conduct a public meeting.]*

#### IV. Public Meeting.\*

**A.** At their September 12, 2019 meetings the Commissions called for a public meeting for today to consider a Minor Plan Amendment (MPA), the third this year, that would add two projects to the CIP. The first is Brooklyn Park's proposed River Park Stormwater Improvements project, to be added to the West Mississippi CIP. The second is Plymouth's proposed Enhanced Street Sweeper, to be added to the Shingle Creek CIP. The Commissions have discussed each of these proposed improvements at previous meetings. Notice has been sent to the member cities, county, and reviewing agencies, and published as required by statute and the Plan.

The purpose of this public meeting is to discuss the proposed minor plan amendment and any comments received prior to or at this public meeting. After that discussion, each Commission will consider a resolution adopting the MPA contingent on County Board approval of the Minor Plan Amendment, which will be heard at a County Board hearing in November 2019.

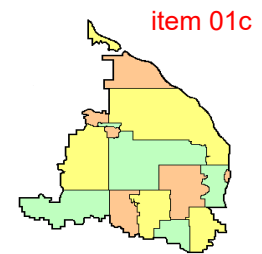
The proposed minor plan revision is shown below as additions (underlined) or deletions (~~strike-outs~~).

**Table 4.5. Shingle Creek WMC Third Generation Plan Implementation Plan is hereby revised to add as follows:**

Action	2018	2019	2020	2021	2022
<u>Plymouth Enhanced Street Sweeper</u>			<u>350,000</u>		
<u>-Commission Contribution</u>			<u>75,000</u>		
<u>-Local Contribution</u>			<u>275,000</u>		

**Table 4.6. West Mississippi WMC Third Generation Plan Implementation Plan is hereby revised as follows:**

Action	2018	2019	2020	2021	2022
<u>River Park Stormwater Improvements</u>			<u>485,000</u>		
<u>-Commission Contribution</u>			<u>121,250</u>		
<u>-Local Contribution</u>			<u>363,750</u>		



**Appendix F, CIP Descriptions is hereby revised to add as follows:**

[Plymouth Enhanced Street Sweeper](#)

[Plymouth will purchase and operate a regenerative air street sweeper to enhance its street sweeping program to four full city sweeps per year. Enhanced street sweeping has been identified in the Bass, Schmidt & Pomerleau TMDL, the Cedar Island, Pike and Eagle Lake TMDL and the Pike Lake Subwatershed Assessment as a cost effective BMP for nutrient reductions.](#)

[River Park Stormwater Improvements](#)

[Brooklyn Park's River Park Master Plan includes stormwater improvements that will provide water quality treatment for 250 acres of mixed use lands that currently discharge into the Mississippi River with no treatment. The stormwater improvements are also 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.](#)

**B. Open public meeting.** The public meeting was opened at 1:06 p.m.

1. The Metropolitan Council has responded that they have no comments and Hennepin County has reviewed and approved the amendment. No comments on the proposed amendment were received from either the member cities or the public. No one was present from the general public for this hearing.

2. Motion by Wills, second by Chesney to close the public meeting. *Motion carried unanimously.* The public hearing was closed at 1:07 p.m.

**C. Commission Discussion.**

Motion by Wills, second by Jaeger to adopt **Resolution 2019-04 Adopting a Minor Plan Amendment ...Revising the Capital Improvement Program.\*** *Motion carried unanimously.*

Motion by Chesney, second by Johnson to adopt **Resolution 2019-04 Adopting a Minor Plan Amendment ...Revising the Capital Improvement Program.\*** *Motion carried unanimously.*

*[The regular meeting resumed at 1:09 p.m.]*

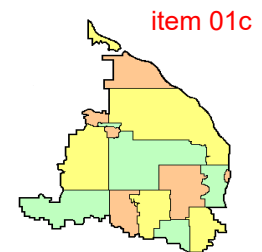
*[Vlasin arrived 1:09 p.m.]*

**V. Open Forum.**

**VI. Project Reviews.**

**A. SC2019-006: Twin Lake North Parking Lot, Crystal.\*** Removal of entire parking lot, reconstruction of a smaller parking lot, and installation of water quality BMPs (i.e., rain garden and vegetated buffer) on a 4.34-acre site located at 4710 58th Avenue. Following development, the site will be 29 percent impervious with 1.26 acres of impervious surface, a decrease of 0.39 acres. A complete project review application was received on September 30, 2019.

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, i.e., 85% TSS removal and 60% TP removal. However, because this project reduces impervious surface area, the project is not held to Commission water quality standards. Still, the applicant proposes to install 1) a rain garden with sediment traps for pretreatment and tire-derived aggregate (TDA) underneath for additional storage and 2) extensive vegetated buffer where the parking lot is currently located. These BMPs likely remove 85% TSS and 60% TP



from the site's runoff. The applicant meets Commission water quality treatment requirements.

Commission rules require that site runoff is limited to predevelopment rates for the 2-, 10- and 100-year storm events. Runoff from the site is routed either to a rain garden or to vegetated buffer to reduce runoff rates. However, because this project reduces impervious surface area, the project is not held to Commission runoff rate standards. The applicant meets Commission rate control requirements.

Commission rules also require the site to infiltrate 1.0 inch of runoff from new impervious area within 48 hours. However, this project reduces impervious surface area (from 1.65 to 1.26 acres) and is, therefore, exempt from Commission volume standards. The applicant meets Commission volume control requirements.

The National Wetlands Inventory identifies approximately 0.95 acres of probable wetlands in the western portion of the parcel. The City of Crystal is LGU for Wetland Conservation Act (WCA) administration. Wetland buffers a minimum of 20 feet in width and averaging at least 30 feet in width are provided. The applicant meets Commission wetland requirements.

There is an unnamed DNR Public Water wetland on the western portion of the site. However, adequate wetland buffer is provided (see above) and the proposed project is not anticipated to negatively impact this wetland. The applicant meets Commission Public Waters requirements.

There is no FEMA-regulated floodplain on this site. However, there is a creek adjacent to the site that flows out of the MAC Crystal Wetland (Wetland 639) and into Upper Twin Lake and, although not FEMA-regulated, this creek has floodplain. Because the creek is hydraulically connected to Upper Twin Lake, the 100-year high water level for Upper Twin Lake, 855.5 ft., was assumed to be the 100-year high-water level for the creek. (A memo about this was sent from Wenck to the applicant on January 13, 2016.) Grading occurs below this 100-year high water level, but the net result of floodplain cut and fill is that this project creates 2,298 CF or about 85 CY of floodplain storage. In addition, the rain garden has an emergency overflow at 855.75, which is two feet below the low floor elevation of the building. The applicant meets Commission floodplain requirements.

An erosion control plan was submitted with the project review. It includes a rock construction entrance, a double row of straw wattle protecting the adjacent creek, inlet protection and native seed specified on the slope adjacent to the creek, meeting Commission requirements.

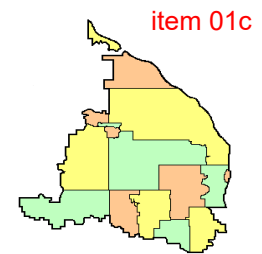
All residents who live within 300 feet of the project were notified through several Twin Lake North Homeowner Association Board meetings. The most recent Board meeting in which this information was presented was on March 21, 2019. The project meets Commission public notice requirements.

A draft Operations & Maintenance (O&M) agreement between the owner and the City of Crystal was provided.

Motion by Sicora, second by Orred to advise the City of Crystal that project review SC2019-006 is approved subject to:

1. Receipt of a complete O&M agreement between the owner and the City of Crystal for the rain garden.
2. Before installation, ensure the tire derived aggregate is inspected on site by City of Crystal staff for signs of pollutants.

*Motion carried unanimously.*



**B. WM2019-008: North Park Business Center Building 3, Brooklyn Park.\*** Construction of a 204,000 SF building with parking on a 14.4-acre site located south of 109th Avenue North at Highway 169. The proposed project is part of a larger site called North Park Business Center that was approved in 2015 (WM 2015-005). Following development, the Building 3 site will be 73 percent impervious with 10.55 acres of impervious surface, an increase of 10.45 acres. A complete project review application was received on August 30, 2019.

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, i.e., 85% TSS removal and 60% TP removal. Infiltrating 1.3-inches of runoff, for example, is considered sufficient to provide a similar level of treatment. If a sump is used, the MnDOT Road Sand particle size distribution is acceptable for 80% capture.

Runoff from the site is routed from the south and central portions of the site to an existing stormwater basin to the west which overflows to an infiltration basin on the southwest corner of the North Park Business Center master site. Runoff is pretreated via two sumps and a sediment forebay. Runoff from the northeast parking lot and the north side of the site is routed to a temporary basin to the north. In the future, the temporary basin will be constructed into a stormwater basin which overflows into an infiltration basin. The master site infiltrates all stormwater, (it does not even discharge in a 100-year back-to-back event) meeting water quality treatment requirements.

Commission rules require that site runoff is limited to predevelopment rates for the 2-, 10- and 100-year storm events. Runoff from the site is directed to a series of sediment ponds and infiltration basins that are a part of the North Park Business Center Master Plan. The sediment basins and infiltration basins were designed to contain the back-to-back 100-year event with no discharge off of the master site. The applicant meets Commission rate control requirements.

Commission rules also require the site to infiltrate 1.0 inch of runoff from new impervious area within 48 hours. The new impervious area on this site is 10.45 acres, requiring infiltration of 0.87 acre-feet within 48 hours. The stormwater from the site flows to a stormwater basin that outlets into an infiltration basin that has the capacity to infiltrate the required volume within 48 hours. The applicant meets Commission volume control requirements.

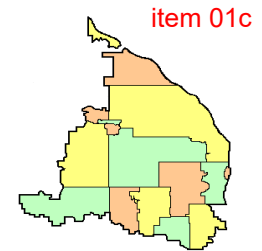
The erosion control plan includes a rock construction entrance, perimeter silt fence, silt fence surrounding detention ponds/infiltration basins, inlet protection, rip rap at inlets, slope checks, and native seed specified on the pond slopes. The erosion control plan meets Commission requirements.

The 2015 review of the master site noted no wetlands on site. The project meets Commission wetland requirements. There are no Public Waters on this site. The applicant meets Commission Public Waters requirements.

There is no FEMA-regulated floodplain on this site. The low floor elevations of the buildings are at least two feet higher than the high-water elevation of the detention ponds according to Atlas 14 precipitation. The applicant meets Commission floodplain requirements.

The site is not located in a Drinking Water Management Area (DWSMA). The applicant meets Commission drinking water protection requirements.

A public hearing for the project was conducted on March 13, 2019 as part of Planning Commission and City Council review of this project, meeting Commission public notice requirements.



An Operations & Maintenance (O&M) agreement between the applicant and the City of Brooklyn Park is in negotiation.

Motion by Chesney, second by Johnson to advise the City of Brooklyn Park that project review WM2019-008 is approved conditioned on receipt of a complete O&M agreement between the applicant and the City of Brooklyn Park for all stormwater facilities on the project site. *Motion carried unanimously.*

**C. WM2019-009: Coon Rapids Dam Regional Park Phase II, Brooklyn Park.\*** The proposed project is the redevelopment of park facilities at Coon Rapids Dam Regional Park. The park is approximately 160 acres, 6.0 acres of which will be disturbed. Following redevelopment, the disturbed portion of the site will be 43 percent impervious with 2.6 acres of impervious surface, an increase of 1.6 acres. A complete project review application was received August 29, 2019.

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 - 85% TSS removal and 60% TP removal. Infiltrating 1.3-inches of runoff, for example, is considered sufficient to provide a similar level of treatment. If a sump is used, the MnDOT Road Sand particle size distribution is acceptable for 80% capture.

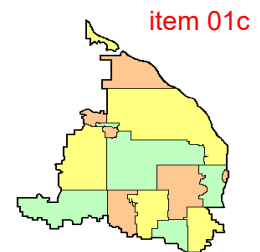
Runoff from the site is proposed to be routed to both a bioretention basin and vegetated trail buffer. The bioretention basin will receive runoff from the new river access road, and will include a Rain Guardian pretreatment chamber. The vegetated trail buffer will treat runoff from all trails. According to calculations with the Minimum Impacts Design (MIDs) calculator, together these practices remove 95% of TP and TSS. The applicant meets Commission water quality treatment requirements.

Commission rules require that site runoff is limited to predevelopment rates for the 2-, 10- and 100-year storm events. Runoff from the site is routed to a bioretention basin and to vegetated trail buffer, both of which slow runoff rate. The applicant meets Commission rate control requirements.

Commission rules require the site to infiltrate 1.0 inch of runoff from new impervious area within 48 hours. The new impervious area on this site is 2.58 acres, requiring infiltration of 9,365 CF within 48 hours. Infiltration will be accomplished using both the bioretention basin and the vegetated trail buffer. New impervious area draining to the bioretention basin is 0.6 acres, requiring infiltration of 2,178 acres within 48 hours. The bioretention basin has the capacity to infiltrate this required volume within 48 hours. New impervious area draining from the trails to the vegetated trail buffer is 1.98 acres, requiring infiltration of 7,187 CF feet within 48 hours. The trails will have a 1:1 buffer or 1:4 buffer, depending on whether soils are HSG A or B, respectively, which will provide the required infiltration. The applicant meets Commission volume control requirements.

The erosion control plan includes a rock construction entrance, silt fence, sediment control log, erosion control blanket, flotation silt curtain, inlet protection, rip rap at bioretention basin inlets, and native seed specified in the bioretention basin by the Mississippi River. The erosion control plan meets Commission requirements.

There is one wetland on site. The Commission is LGU for WCA administration in Brooklyn Park. The delineation for this wetland was approved by the Commission in November 2018. The wetland will not be impacted during this project. Erosion and sediment controls will protect this wetland during construction and the drainage area contributing to the wetland will not be changed. Buffers a minimum of



20 feet in width and averaging 30 feet in width are provided. The applicant meets Commission wetland requirements.

The two Public Waters on this site are the existing wetland mentioned above and the Mississippi River. The proposed project is not anticipated to negatively impact either of these water bodies. The applicant meets Commission Public Waters requirements.

Trail is proposed to be reconstructed in the Mississippi River Zone AE Floodplain. However, there will be no net fill in the floodplain and no new impervious construction in the floodplain. Therefore, there will be no change in the base flood elevation, meeting the requirements of a no-rise certification. The applicant meets Commission floodplain requirements.

Several public meetings have been conducted for the project, beginning in November 2017 and most recently in February 2019. The applicant meets Commission public notice requirements.

An Operations & Maintenance (O&M) plan was provided.

Motion by Chesney, second by Vlasin to advise the City of Brooklyn Park that project review WM2019-009 is approved with no conditions. *Motion carried unanimously.*

**VII. Watershed Management Plan.** (see item IV, beginning on page 2)

**VIII. Water Quality.**

**A. Partnership Cost Share Application.\*** The City of Crystal has received a Partnership Cost Share Application for improvements at the Twin Lake North Condominiums adjacent to Wetland 639W. A parking lot on site is partly within the floodplain and when Twin Creek and Upper Twin Lake are high, it can become inundated with water. (This project, Project Review SC2019-006, was approved by the Commission earlier in the meeting.)

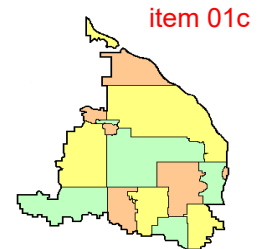
The proposed Parking Lot Relocation Project will move the existing parking lot out of the floodplain and restore the area with a diverse native plant community. The project is also reducing the amount of impervious on-site by .39 acres and treating runoff from the relocated parking lot. Currently, runoff from the parking lot drains untreated directly into Twin Creek.

The request is for \$43,510 to fund the proposed rain garden and TDA (tire-derived aggregate) Infiltration System, including rain garden plantings and native buffer to restore an area that once was a parking lot to a high quality water filtration system and pollinator habitat along Twin Creek. A 100-year event of 7.33 inches will be infiltrated on site.

Landscape architect Stephen Mastey was present to answer questions at the TAC meeting held earlier today. TAC members expressed concern that the outflow be monitored and that a water quality sampling plan be made a requirement of the grant.

The TAC approved the requested amount of \$43,510 subject to determination of the need for a water quality sampling plan and finalization of an Operations and Maintenance agreement meeting TAC approval. The Partnership Cost Share account currently has an unencumbered balance of just over \$100,000.

Motion by Sicora, second by Wills to approve this project subject to the same caveat. *Motion carried unanimously.*



**B.** The next **Technical Advisory Committee (TAC) meeting** is tentatively scheduled for 11:30 a.m., Thursday, November 14, 2019, prior to the regular meetings.

**C.** **Minutes\*** of the September 12, 2019 TAC meeting are included in the meeting packet for information.

**IX. Education and Public Outreach.\*** The West Metro Water Alliance (**WMWA**) met on Tuesday, October 8, 2019. Discussion centered around the following:

**A. Watershed PREP and Education and Outreach Events.** Educators are out in the schools providing their lessons. A reminder that the educators are available to table at city and school events, contact Amy Juntunen at [amy@jass.biz](mailto:amy@jass.biz). The educators are still researching options to make a short, 3-5 minute promotional video for Watershed PREP for use both in marketing to schools in the four watersheds as well as informing other watersheds about the program.

**B. Website.** The group will be reviewing the WMWA website to refresh and update content. Any input is appreciated. [westmetrowateralliance.org/](http://westmetrowateralliance.org/)

**C. Special Projects.** At their meetings last month the member Commissions approved allocating the 2019 and 2020 Special Projects funding to a new contract coordinator position. The SCWM Commissions' attorney has drafted a professional services agreement between the Shingle Creek WMC acting as fiscal agent for WMWA and the coordinator, Catherine Cesnik. Approval will be recommended at the November meeting.

The WMWA steering committee members requested that Cesnik's initial focus be on contacting all the cities in the four watersheds to understand their education and outreach needs and gaps and how WMWA could be of assistance. These results will be used to update the WMWA Education and Outreach Plan (last updated in 2013) and establish a work plan for 2020.

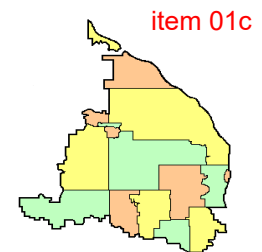
**D.** The steering committee also discussed the still-being-developed **Lawns to Legumes Program** [bwsr.state.mn.us/lawns-legumes-program-your-yard-can-bee-change](http://bwsr.state.mn.us/lawns-legumes-program-your-yard-can-bee-change). BWSR received a \$900,000+ grant from the Environment and Natural Resources Trust Fund and plans to offer several subprograms, including grants to watersheds/cities/nonprofits for "demonstration neighborhoods;" how-to workshops across the state; and small grants to individual property owners. Funding will also be used to research and create technical resources. It was noted that this funding is exclusively about native plantings for habitat rather than for ancillary water quality/quantity benefits.

**E.** Members also discussed declining attendance at the **rain garden/resilient yards workshops** co-sponsored by WMWA and some of the cities in the watersheds, and whether a saturation point has been reached with residential rain gardens. Only about 100 people in the four watersheds attended the workshops in 2019, and follow up surveys by Metro Blooms suggest that only about 20-25% of attendees ended up implementing practices. The steering committee agreed to continue to discuss whether there was an opportunity to combine potential Lawns to Legumes workshops/grants with an additional focus on the concept of planting for clean water and resiliency.

**F.** The next **WMWA meeting** will be Tuesday, November 12, 2019 at Plymouth City Hall.

**X. Grant Opportunities and Updates.**

**A. Twin Lake Carp Management Project.\*** The Section 319 grant funding the Twin Lake Carp Management Project expired on August 30, and work is now complete. Included in the meeting packet is



the project final report.\* This project was intended to reduce the biomass of carp in the Twin and Ryan chain of lakes, limit future recruitment, and manage lake submersed aquatic vegetation (SAV) response to reduce internal phosphorus loads and increase water clarity. Project objectives were:

1. Assess the carp population and estimate current densities;
2. Track seasonal movement and migrations of carp within the chain of lakes;
3. Locate and evaluate carp overwintering, spawning and nursery habitats;
4. Implement controls to reduce recruitment and movement of carp into the system;
5. Reduce carp biomass in the system; and
6. Develop aquatic vegetation management response strategies.

Population estimates confirmed a large abundance of common carp and densities above critical impairment thresholds within the system. Radio telemetry tracking demonstrated high mobility of the carp populations among the lakes suggesting that carp are able to move easily among the lakes and into/out of the system during seasonal high water levels. Tracking also located over wintering habitats and aided in identifying potential spawning and nursery habitats.

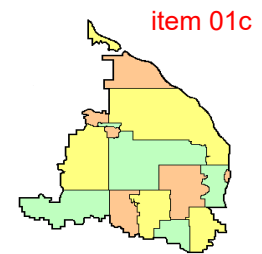
An estimated 14,450 pounds of carp were removed from the system, or about 44% of the overall removal goal, and about 15,000 pounds of black bullhead, another bottom-feeding fish. Permanent carp barriers were installed in two locations to prevent the fish from moving upstream from Shingle Creek into the lake system, and to prevent access to a nursery location in a wetland connected to Upper Twin Lake via a road culvert. Curly-leaf pondweed was treated in year one; year two density did not warrant treatment.

Water quality monitoring has not yet identified any significant improvement in water quality or clarity. However, shallow lakes such as Upper Twin typically exist in one of two conditions: a clear-water state and a turbid water state. These lakes can “flip” rapidly between these states when certain tipping points are achieved. As carp continue to be removed, that tipping point eventually will be met and the lake should flip to a clear water condition.

The table below shows the final project cost and the funding sources. Note that the final cost and match is not the same as what was reported in the final project report because some additional expenses occurred after August 30. The original amount granted was \$100,000, of which \$99,992.26 was

Total project cost	\$218,016.84
Total grant expenses	\$99,992.26
Total match (levy) expenses*	\$118,024.58
Total levy received	\$125,184.32
Total levy remaining*	\$7,159.74
Recommended retention*	\$7,159.74
Release to closed projects account	\$ 0
Reallocation from closed projects account*	\$6,051.95
Total available for future carp management*	\$13,211.69

\*The final amount is pending audit.



expended and reimbursed (final reimbursement is pending). The Commission received levy funds of \$125,184.32, of which \$118,024.58 was expended (the final accounting is pending audit). There is an approximate balance of \$7,159.74.

Staff recommends retaining the full amount in the project account to fund ongoing carp removals and SAV maintenance. Staff also recommends that the Commission reallocate the approximate \$6,051.95 returned to the Closed Projects Account from the Biochar project to the carp management project to continue to fund these efforts.

Motion by Johnson, second by Wills to accept the report and authorize retaining the balance of levy funds in the project account and reallocate the unaudited balance from the Biochar project (approximately \$6,051.95) in the Closed Projects Account to this project per Staff's recommendation. *Motion carried unanimously.*

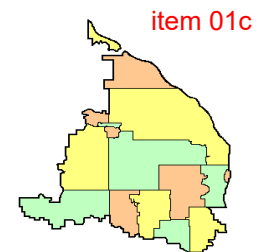
**B. Biochar-Enhanced Sand Filters Project.\*** The Section 319 grant funding the Shingle Creek Biochar/Iron Enhanced Sand Filters Project expired on August 30, and work is now complete. The filter box at Webber Park Falls and the inserts from the catch basins in New Hope and Robbinsdale have been removed as has the monitoring instrumentation. The pond filter benches will remain in place.

Included in the meeting packet is the project final report. In summary, Staff found that the creek diversion filter box reduced *E. coli* concentration by an average 90%, the stormwater pond filter benches averaged 73% reduction, and the catch basin skimmer box filters averaged 81%. The filter box very reliably reduced TP concentrations, averaging 79% reduction. The pond filters were less reliable and lower efficiency (Champlin 40% and Crystal 61%), with some samples showing an increase in TP concentration in filtered outflow. There did not appear to be any pattern that might explain why these occasional increases were seen. At both catch basin sites, TP actually increased in filtered outflow in all samples but one.

Similar to TP performance, the filter box significantly reduced OP (dissolved P) by an average 83%. The pond filter benches performed slightly better than the TP results. The Crystal site averaged 77% OP reduction while the Champlin site averaged 52%. The Champlin site was frequently inundated for long periods of time. Previous research and observation have shown that iron-enhanced filters are better at capturing OP in stormwater when they are allowed to dry out between rain events. Similar to their TP performance, the catch basin filters very rarely reduced OP, and for most samples actually showed increased OP in filtered stormwater.

Staff also took samples of the pond filter media and had them tested for phosphorus sorption capacity. The Minneapolis Olson Pond media, which were never inundated, showed 0.27% saturation. The Crystal filter media showed 1.1% saturation and the Champlin pond 14.4% saturation. These results confirm that the iron-enhanced sand sorbs (binds) phosphorus over time, and the more the media is inundated with stormwater, the more phosphorus it sorbs. The results also suggest that these filters have a lot of binding capacity remaining—even the Champlin filter media, which has been inundated continuously, is only 14.4% saturated with phosphorus, meaning 85% of its phosphorus-binding sites remain.

The study results show that biochar has a very promising potential in removing *E. coli* from stormwater. The modification to the Minnesota iron-enhanced sand filter design not only reduced *E. coli* concentrations but also provided additional benefit in the form of phosphorus removal. However, the mechanism of *E. coli* removal by biochar is still unclear and the longevity of iron- and biochar-enhanced



sand filters in the field must still be determined. While the filters have been in place only a few years, Staff have not yet observed any significant reduction in effectiveness. They have also not observed any breakdown of the biochar during the winter-spring freeze-thaw cycles. These knowledge gaps should be investigated now that this study has determined the potential of biochar- and iron-enhanced sand filters in removing *E. coli* and phosphorus from stormwater.

All three types of field designs tested can be useful in different scenarios. A particularly useful application would be installing such filters to treat concentrated flow from a site with high bacterial contamination potential, such as runoff from a dog park, a location with excessive populations of waterfowl such as Canada geese, or a storm sewer outfall near a swimming beach.

The table below shows the final project cost and the funding sources. Again, the final cost and match is not the same as what was reported in the final project report because some additional expenses occurred after August 30. The original amount granted was \$199,375, of which \$197,160.28 was expended and reimbursed (final reimbursement is pending). The two Commissions received a total levy of \$296,252.91, of which \$285,200.95 was expended (the final accounting is pending audit). There is an approximate balance of \$11,051.96. Staff recommends retaining \$5,000 of that in the project account for any maintenance or other issues that come up with the pond filters, and designating the balance to be returned to the Closed Projects Account to be available for other projects.

Total project cost	\$482,361.23
Total grant expenses	\$197,160.28
Total match (levy) expenses*	\$285,200.95
Total levy received	\$296,252.91
Total levy remaining*	\$11,051.96
Recommended retention*	\$5,000.00
Release to closed projects account*	\$ 6,051.96

\*The final amount is pending audit.

Motion by Sicora, second by Jaeger to accept the report and authorize retaining \$5,000 of levy funds in the project account and return of the unaudited balance (approximately \$6,051.95) to the Closed Projects Account. *Motion carried unanimously.*

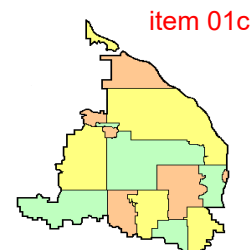
Motion by Johnson, second by Chesney to accept the report and authorize allocation of the remaining funds per above motion. *Motion carried unanimously.*

C. Included in the meeting packet was a flyer\* describing the **Hennepin County Natural Resources Grants**. The **Good Steward** and **Opportunity** grants were defined.

D. **Clean Water Fund Grants.\*** Staff's October 5, 2019 cover memo described the two CWF grant applications\* submitted on behalf of the Commission.

1. The estimated cost of the **Meadow Lake Management Plan** is \$190,000. The grant request is \$152,000 and the Commission's share is \$38,000. The project is on the 2020 CIP for levy certification next year.

2. **Shingle Creek Connections II.** The estimated cost of this stream restoration project



is \$410,000. The grant request is for \$328,000 and the Commission's share is \$82,000. The project is also on the 2020 CIP for levy certification next year.

Anticipated date when the BWSR Board will authorize the grant awards is January 22, 2020.

**3. Connections II Project Accounting.\*** Earlier this year Staff worked with the cities of Brooklyn Park and Brooklyn Center to conceptualize and prepare 30% plans and a cost estimate for the Shingle Creek Connections II project. The feasibility study and findings were used to prepare a Clean Water Fund grant application that was submitted to BWSR last month. This is similar to what was done for the Meadow Lake Feasibility Study. The Meadow Lake work was funded from the Closed Projects Account. That was not the case for the Connections II work, which was funded from the General Engineering budget.

Staff recommend that the Commission establish a project called the Connections II Feasibility Report project, funded from the Closed Projects Account. They further recommend that the Commission authorize the reallocation of \$9,392.44 of expense charged to General Engineering to that project. In 2020, when the project is ordered, the expense of the feasibility report will be included in the overall project cost, and will be included in the levy certified for the overall project, thus "reimbursing" the Closed Projects Account for this cost. As of 12/31/18, the Closed Projects Account had a balance of just under \$80,000. \$5,000 of that was expended on the preparation of the Meadow Lake Feasibility Study.

Motion by Jaeger, second by Wills to authorize the creation of a Connections II Feasibility Study project to be funded by the Closed Project Account, and authorize the reallocation of \$9,392.44 expended from the General Engineering budget line item to the new Feasibility Study project. *Motion carried unanimously.*

**XI. Communications.**

**October Communications Log.\*** No items required action.

**XII. Other Business.**

The terms of representatives from Champlin and Minneapolis expired January 31, 2019. Staff have not received updated appointments as of this date. The Commissioner position from the City of Minneapolis has become vacant and a new representatives must be appointed by that city.

**XIII. Adjournment.** There being no further business before the Commissions, the joint meeting was adjourned at 1:55 p.m.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Judie A. Anderson".

Judie A. Anderson  
Recording Secretary  
JAA:tim

November 6, 2019

**WEST MISSISSIPPI WATERSHED MANAGEMENT COMMISSION****PROJECT REVIEW WM2019-010: Mississippi Crossing**

**Owner:** Greco  
**Address:** 607 N Washington Ave #100  
 Minneapolis, MN 55401

**Engineer:** Rhonda Pierce  
**Company:** Pierce Pini & Associates  
**Address:** 9298 Central Avenue NE, Suite 312  
**Phone:** 763-537-1311  
**Email:** rhonda@piercepini.com

**Purpose:** Construction of apartment complex on 4.72 acres.

**Location:** East River Entry and East River Parkway, Champlin, MN (Figure 1).

- Exhibits:**
1. Project review application form received 9/27/19.
  2. Project review fee of \$1,700, dated 9/30/19, received 9/30/19.
  3. Site plan, grading and drainage plan (Figure 2), utility plan, and erosion control plan received 9/27/19 (all un-dated); revised plans dated 10/21/19, received 10/22/19.
  4. Hydrologic calculations by Pierce Pini & Associates, dated 9/26/19, received 9/27/19; revised hydrologic calculations dated 10/17/19, received 10/22/19.

- Findings:**
1. The proposed project is the construction of an apartment complex with an associated driveway, sidewalk and plaza. The site is 4.25 acres. Following development, the site will be 64 percent impervious with 2.73 acres of impervious surface, an increase of 2.60 acres.
  2. The complete project application was received on 9/30/19. To comply with the 60-day review requirement, the Commission must approve or deny this project no later than the 11/14/19 meeting. Sixty calendar-days expires on 11/29/19.
  3. 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, i.e., 85% TSS removal and 60% TP removal. Infiltrating 1.3 inches of runoff, for example, is considered sufficient to provide a similar level of treatment.

Runoff from the majority of the site (3.6 acres or 86% of the site, of which 69% is impervious) is proposed to be routed to an underground, 84-inch corrugated metal pipe infiltration system on the northeastern portion of the site adjacent to East River Parkway. This underground infiltration system has the capacity to infiltrate 1.3 inches of runoff, and a MIDS model indicates the annual TSS and TP loads off the entire site are reduced by 86%, which exceeds Commission requirements. In addition, at each inlet to the underground infiltration system, a sump

**WM 2019-010: Mississippi Crossing**

with SAFL Baffle provides pretreatment to stormwater before it enters the system. (One sump is 5 feet and one is 6 feet. Both provide about 80% removal of suspended solids according to a SHSAM calculation.) A small portion of the site (0.7 acres or 14% of the site, of which 46% is impervious) is proposed to be routed directly to storm sewer associated with East River Entry. However, a 4 ft. sump with SAFL Baffle is proposed for storm sewer draining this area to treat this stormwater before it leaves the site. The applicant meets Commission water quality treatment requirements.

4. Commission rules require that site runoff is limited to predevelopment rates for the 2-, 10-, and 100-year storm events. Runoff from the site is routed to an underground infiltration system, which limits runoff rates to predevelopment conditions in the 2- and 10-year storm events. In the 100-year storm events, runoff rate is proposed to exceed predevelopment conditions. However, the Commission's engineer is willing to make an exception to this rule due to the site's proximity to an outfall structure at the Mississippi River. (Further, about 92% of all storms are treated by the underground infiltration system, i.e., are 1.3 inches or less, so it is rare that post-development runoff will exceed predevelopment conditions.) The applicant meets Commission rate control requirements (Table 1).

**Table 1. Runoff from site (cfs).**

Drainage Area	2-year event		10-year event		100-year event	
	Pre-	Post-	Pre-	Post-	Pre-	Post-
Entire site	1.9	1.3	7.5	7.2	23.3	35.2

5. Commission volume control rules require the site to infiltrate 1.0 inch of runoff from new impervious area within 48 hours. However, this site must infiltrate 1.3 inches of runoff to additionally meet water quality requirements. The new impervious area on this site is 2.73 acres, requiring infiltration of 0.30 acre-feet (12,874 cubic feet) within 48 hours. The applicant proposes to construct an underground, 84-inch corrugated metal pipe infiltration system, which has the capacity to infiltrate more than the volume of runoff from a 1.3-inch rainfall within 48 hours. The applicant meets Commission volume control requirements.
6. The erosion control plan includes a rock construction entrance, perimeter silt fence and inlet protection. The erosion control plan meets Commission requirements.
7. The National Wetlands Inventory does not identify any wetlands on site. The applicant meets Commission wetland requirements.
8. There are no Public Waters on this site. The applicant meets Commission Public Waters requirements.
9. There is no FEMA-regulated floodplain on this site. The applicant meets Commission floodplain requirements.

**WM 2019-010: Mississippi Crossing**

10. The site is not located in a Drinking Water Management Area (DWSMA). The applicant meets Commission drinking water protection requirements.
11. A public hearing on the project will be conducted on 11/18/19 as part of Planning Commission and City Council review of this project, meeting Commission public notice requirements.
12. A draft Operations & Maintenance (O&M) agreement between the applicant and the City of Champlin has not been provided. However, the applicant wrote in an email to Sarah Nalven on 10/22/19: "The City and Owner have discussed this agreement, but nothing has been developed yet. They will keep you in the loop when this is developed to make sure the watershed has a copy of the draft."
13. A Project Review Fee of \$1,700 has been received.

**Recommendation:** Recommend approval subject to the following conditions:

1. Provide a complete O&M agreement between the applicant and the City of Champlin for all stormwater facilities on the project site.
2. Demonstrate by double ring infiltrometer or witness test that the underground infiltration system can meet the design infiltration rate of 0.80 inches/hour.

Wenck Associates, Inc.  
Engineers for the Commission

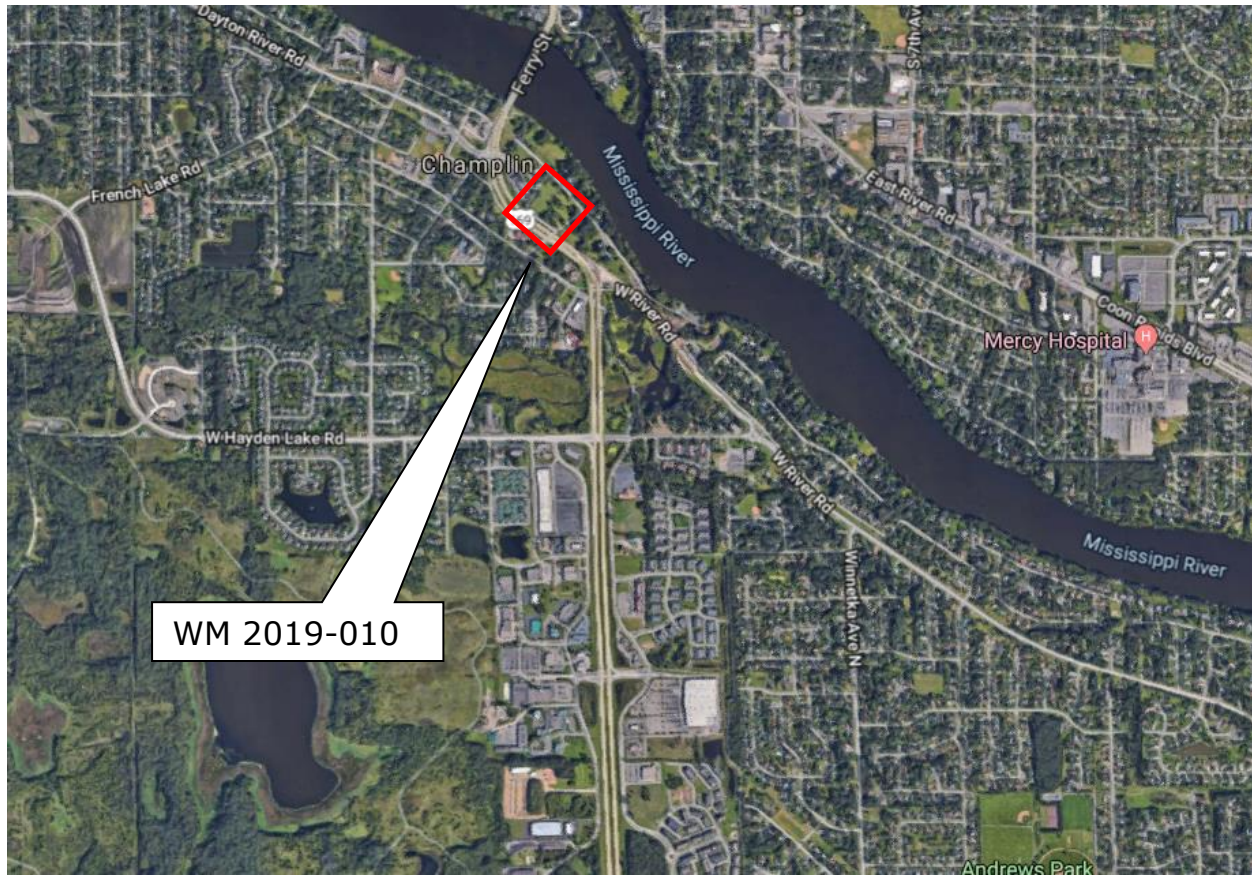
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Ed Matthiesen, P.E.

Date

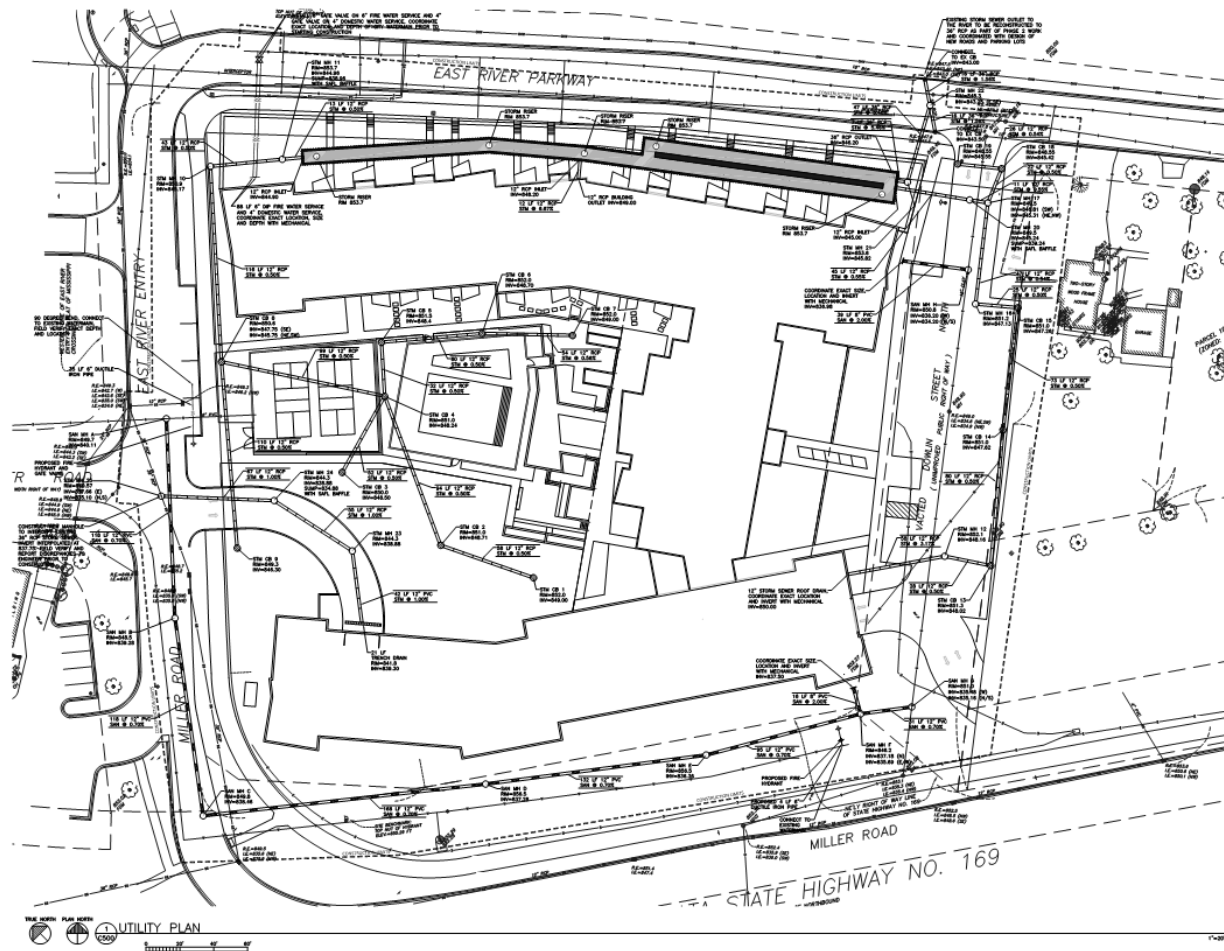
## WM 2019-010: Mississippi Crossing

Figure 1. Site location.



## WM 2019-010: Mississippi Crossing

Figure 2. Site utility plan.



# Technical Memo



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**To:** Shingle Creek WMO Commissioners

**From:** Ed Matthiesen, P.E.  
Eileen Weigel

**Date:** November 8, 2019

**Subject:** Approve HUC 8 Modeling Scope Change

## Recommended Commission Action

Authorize the revised Scope of Services for the HUC8 Study, and allocate \$13,000 from the Closed Projects Account to the HUC8 Study budget.

The Commission's Technical Advisory Committee (TAC) had previously discussed amending the scope of the ongoing HUC8 hydrologic and hydraulic modeling to include the Twin and Ryan Lake/Creek system. This would include additional detailed analysis of Twin Lakes and Ryan Lake to establish the regulatory High Water Level (HWL). It would also include additional analysis to determine how the proposed HWL will impact nearby structures and how to mitigate risk with additional drainage options.

The TAC reviewed the attached Scope of Work and recommends that the current HUC8 project scope be revised to incorporate these additional tasks. The estimated additional cost would be \$13,000. The HUC8 study is funded by a \$50,000 grant from the DNR and \$25,000 from the Commission's 2019 budget. We recommend that the Commission fund this additional work from the Closed Projects Account. The Closed Projects Account balance at the end of 2018 was approximately \$87,670. The Commission had previously in 2019 authorized using \$5,000 of that balance for the Meadow Lake Feasibility Study, leaving a balance of \$82,670. Funding this project would leave a balance of \$69,670.

As a reminder, excess levy funds left over when the final cost of a capital project is less than estimated are segregated into the Closed Projects Account where they can only be used for other projects.

October 10, 2019

RE: Twin Lakes and Ryan Lake Incorporation Into HUC-8 Model

As requested, Wenck Associates, Inc. (Wenck) submits this proposal to provide additional detailed analysis for the Twin Lakes and Ryan Creek/Lake system that is outside the scope of the HUC-8 study currently underway for Shingle Creek. This letter proposal includes our understanding of the project, the proposed scope of services, and costs to complete the investigation.

### **Project Understanding and Approach**

---

The purpose of this project is to include additional detailed analysis of Twin Lakes and Ryan Lake (collectively known as Lakes) in the HUC-8 study currently underway (Figure 1). In addition to establishing the regulatory HWL, additional analysis will be completed to determine how the proposed HWL will impact nearby structures and how to mitigate risk with additional drainage options.

This scope will provide an estimate for each of those areas. The generalized scope is as follows:

- ▲ Include detailed survey information from recently completed Ryan Creek H&H Study into HUC-8 models (EPA-SWMM and HEC-RAS) and calibrate model to Twin Lake readings.
- ▲ Include proposed pumping plan for Crystal Lake into HUC-8 models and additional analysis of impacts if needed
- ▲ Review of structures within floodplain
- ▲ If structures in floodplain, analysis of supplemental pipe under railroad tracks to alleviate issues.
- ▲ Memo detailing the results

### **Scope**

---

#### **Task 1 – Detailed Data Into HUC-8 Models**

For Task 1, Wenck will update the current HUC-8 EPA-SWMM model with the detailed subwatersheds associated with the Lakes system created for the Ryan Creek H&H study. Wenck will update the current HUC-8 HEC-RAS model with the detailed surveyed cross sections and crossings created for the Ryan Creek H&H Study. Wenck will also review lake levels and provide a calibrated model.

#### **Task 2 – Crystal Lake Pumping**

For Task 2, Wenck will include the proposed Crystal Lake pumping configuration in the HUC-8 model. Detailed analysis will include discharge point connection to existing storm sewer for analysis of impacts to storm sewer and other downstream water bodies.

#### **Task 3 – Review of Floodplain Impacts**

For Task 3, Wenck will review the regulatory HWL impacts to structures in the drainage area. Wenck will

#### *Deliverables:*

- ▲ Map of parcels impacted by proposed regulated HWL for the Lakes system

- ▲ Potential add-on could include surveying of impacts LFEs

#### **Task 4 – Drainage Analysis Option**

Using the map produced as part of Task 3, Wenck will work with the City to determine if additional drainage options to reduce impacts on structures in the drainage area are necessary. If Task 4 is needed, the current proposal will focus on adding a supplemental pipe under the RR tracks to increase drainage from the Lakes system to downstream Shingle Creek.

#### **Task 5 – Reporting**

A summary report documenting the hydrology, hydraulics, regulatory HWL for the system and potential drainage analysis options will be written. The memo will focus on the Lakes system, not the entire HUC-8 study area.

#### *Deliverables:*

- ▲ A memo summarizing the modeling and results.
- ▲ A figure showing the impacts of the 100-yr HWLs under existing conditions.
- ▲ A figure showing the impacts of the 100-yr HWLs using Task 4, if needed.

#### **Budget**

The Wenck project team estimates a budget of \$13,000 is needed to complete the tasks listed above. Wenck will invoice the City of Robbinsdale monthly based on time and materials. Wenck will not exceed the authorized budget without obtaining written approval.

<b>Task</b>	<b>Task Description</b>	<b>Cost</b>
1	Detailed Data into HUC-8 Models	\$6,000
2	Crystal Lake Pumping	\$1,000
3	Review of Floodplain Impacts	\$1,000
4	Drainage Analysis Options	\$2,500
5	Reporting	\$2,500
<b>Total</b>		<b>\$13,000</b>

#### **Schedule**

To minimize budget for proposed project, the timeline will follow the current HUC-8 study timeline. The timeline is provided below.

<b>Task</b>	<b>Deadline</b>
Draft hydrology to review committee	January 2020
Address hydrology comments and submit finalize hydrology model	February 2020
Draft hydraulics model to DNR	April 2020
Address hydraulic comments and submit final hydraulics model	June 2020
Draft floodplain files to DNR	September 2020
60% Floodplain figures to City for comments	October 2020
90% Floodplain figures to City for comments	November 2020
Final Figures and Files to DNR	December 2020

Sincerely,

**Twin Lakes-Ryan Creek  
Investigation**

Page 3  
October 10, 2019



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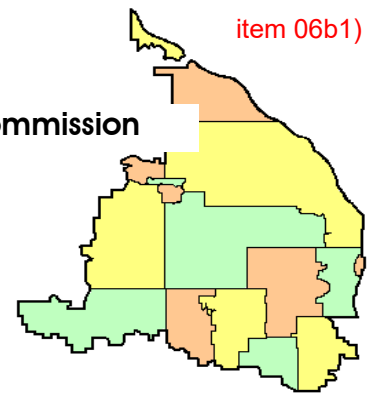
**Ed Matthiesen, PE**

Wenck Associates  
Principal Engineer  
ematthiesen@wenck.com





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



## MINUTES

October 10, 2019

A meeting of the Technical Advisory Committee (TAC) of the Shingle Creek and West Mississippi Watershed Management Commissions was called to order by Chairman Richard McCoy at 11:37 a.m., Thursday, October 10, 2019, at Edinburgh USA, 8700 Edinbrook Crossing, Brooklyn Park, MN.

Present were: Andrew Hogg, Brooklyn Center; Mark Ray, Crystal; Derek Asche, Maple Grove; Shahram Missaghi, Minneapolis; Megan Hedstrom, New Hope; Ben Scharenbroich, Plymouth; Richard McCoy, Robbinsdale; Ed Matthiesen and Eileen Weigel, Wenck Associates, Inc.; and Judie Anderson, JASS.

Not represented: Brooklyn Park, Champlin, and Osseo.

Also present: Burt Orred, Jr., Crystal; Harold Johnson, Osseo; Amy Riegel, Plymouth; Marta Roser, Robbinsdale; and Stephen Mastey, Landscape Architecture; and Ann Gaash and Jeannie Myers, Twin Lake North Condominium Association.

- I. Motion by Ray, second by Scharenbroich to **approve the agenda**. \* *Motion carried unanimously.*
- II. Motion by Ray, second by Asche to **approve the minutes**\* of the September 12, 2019 meeting. *Motion carried unanimously.*
- III. **Twin Lake North Cost Share Application.**

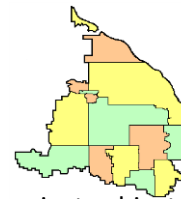
The City of Crystal has received a Partnership Cost Share Application\* for improvements at the Twin Lake North Condominiums adjacent to Wetland 639W. This is on the Commission's agenda today as Project review SC2019-006. A parking lot on site is partly within the floodplain and when Twin Creek and Upper Twin Lake are high, it can become inundated with water.

The proposed Parking Lot Relocation Project will move that existing parking lot out of the floodplain and restore the area with a diverse native plant community. The project is also reducing the amount of impervious on-site by .39 acres and treating runoff from the relocated parking lot. Currently, runoff from the parking lot drains untreated directly into Twin Creek.

The request is for \$43,510 to fund the proposed rain garden and TDA (tire-derived aggregate) Infiltration System, including rain garden plantings and native buffer to restore an area that once was a parking lot to a high quality water filtration system and pollinator habitat along Twin Creek. A 100-year event of 7.33 inches will be infiltrated on site.

Staff recommends approval of the request for \$43,510. The Partnership Cost Share account currently has an unencumbered balance of just over \$100,000.

Landscape architect Stephen Mastey was present to answer members' questions. Members were concerned that the outflow be monitored and that a water quality sampling plan be made a requirement of the grant.



Motion by Asche, second by Ray to recommend to the Commission approval of this project subject to determination of the need for a water quality sampling plan and finalization of an Operations and Maintenance agreement meeting TAC approval. *Motion carried unanimously.*

[Following the meeting Matthiesen did a search through the EPA, PCA and universities to find some guidance on what pollutants are of concern and recommended sampling frequency. The following is what he learned relevant to tire shreds in or near a water body.

From the University of Maine study prepared for the EPA in 2006 they noted leachate from TDA (tire derived aggregate) has limited effect on drinking water and negligible toxic effects on freshwater aquatic organisms.”

A 2008 University of Wisconsin-Madison study notes that leachate from tire chips in groundwater has minimal human health concerns.

An MPCA waste tire guidance in 2012 has preapproved uses for tire chips and no comments on adverse water quality.

The greatest concern was slightly increased iron and manganese concentrations but are of limited concern because they unlikely to move away from the TDA installation. Matthiesen concluded that no sampling is necessary. The requirement that the tires must be washed and approved by City of Crystal staff or their designee during their installation will remain.]

[Scharenbroich departed 12:26 p.m.]

[Hogg arrived 12:30 p.m.]

#### IV. HUC-8 Modeling.

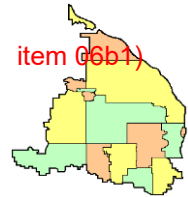
**A.** At the September TAC meeting the members queried whether **Ryan-Twin Lakes** should be added to the HUC-8 modeling. In their October 10, 2019 memo,\* Wenck provided a proposal for a detailed analysis for the Twin Lakes and Ryan Creek/Lake system that is outside the scope of the HUC-8 study currently underway for Shingle Creek. The Commission’s attorney has indicated this could be considered a watershed benefit project.

In addition to establishing the regulatory HWL, additional analysis will be completed to determine how the proposed HWL will impact nearby structures and how to mitigate risk with additional drainage options. The proposal provided an estimate for each of those areas. The generalized scope is as follows:

1. Include detailed survey information from recently completed Ryan Creek H&H Study into HUC-8 models (EPA-SWMM and HEC-RAS) and calibrate model to Twin Lake readings.
2. Include proposed pumping plan for Crystal Lake into HUC-8 models and additional analysis of impacts if needed.
3. Review of structures within floodplain. If structures are located within the floodplain, analysis of supplemental pipe under railroad tracks to alleviate issues.
4. Memo detailing the results.

**B.** Wenck estimates a budget of \$13,000 is needed to complete this project. If the TAC approves, Wenck will prepare a proposal to add this work to the HUC-8 Study scope of work for Commission consideration.

Motion by McCoy, second by Hogg to recommend to the Commission that this action be approved. *Motion carried unanimously.*



**V. Other Business.**

**A.** The next Technical Advisory Committee meeting is tentatively scheduled for 11:30 a.m., Thursday, November 14, 2019, prior to the Commission's regular meeting.

**B.** The meeting was adjourned at 12:42 p.m.

Respectfully submitted,

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

Judie A. Anderson  
Recording Secretary

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# Technical Memo

**To:** Shingle Creek WMO Commissioners

**From:** Ed Matthiesen, P.E.  
Diane Spector

**Date:** November 8, 2019

**Subject:** Approve Professional Services Agreement for WMWA Coordinator

**Recommended  
Commission Action**

Approve the attached Professional Services Agreement for the WMWA Coordinator and authorize its execution.

The four WMWA member Commissions had approved allocating the 2019 and 2020 Special Projects funding to a new contract coordinator position. The SCWM Commissions' attorney has drafted the attached professional services agreement between the Shingle Creek WMC acting as fiscal agent for WMWA and the coordinator, Catherine Cesnik. The agreement is recommended for approval.

## PROFESSIONAL SERVICES AGREEMENT

THIS PROFESSIONAL SERVICES AGREEMENT (the “Agreement”) is made and entered into by and between the Single Creek Watershed Management Commission, a Minnesota joint powers organization (the “Commission”), and Cesnik LLC, a Minnesota limited liability company (the “Contractor”). The Commission has agreed to be the contracting agent to have the Contractor provide services as described herein to the watershed management organizations that are part of the West Metro Water Alliance (“Alliance”). The parties to this Agreement hereby agree as follows:

1. **SERVICES.** Contractor will perform those Project Coordinator services for the Alliance, as outlined in the position description, which is attached hereto as Exhibit A and fully incorporated herein (collectively, the “Services”). The Contractor shall be responsible for coordinating the delivery of its Services among the entities within the Alliance so they are equitably distributed among those entities. The terms and conditions of this Agreement shall be controlling over any conflicting term or condition contained within the attached Exhibit A.
2. **COMPENSATION.** Contractor will be paid for Services at the rate of \$40.00 per hour. Contractor will also be reimbursed for actual, reasonable and necessary out-of-pocket expenses including printing, materials, and travel (at the current IRS rate for privately owned automobiles). Travel outside of the Minneapolis/St. Paul metropolitan area and overnight accommodations must have the prior approval of the Commission. Meeting and meal expenses (other than meetings of the Commission or its committees) must have the prior approval of the Commission. The total compensation, including expenses, to be paid to Contractor for all the Services to be provided under this Agreement and through the end of its term shall not exceed \$18,000.00. This amount may only be changed by a written amendment to this Agreement executed by the parties. The Commission shall pay the Contractor directly for the Services and shall be responsible for collecting the contributions for those Services from the other entities within the Alliance.
3. **PAYMENT.** Contractor will submit monthly invoices for the Services providing detailed time records of Services provided and time spent, and shall provide receipts for eligible reimbursable expenses. Invoices and records, together with supporting information, shall be submitted in a form acceptable to the Commission. The Commission will pay all invoices within 45 days of receipt thereof. Unless there is a good faith dispute over the amount owed, after 45 days the Commission shall pay interest on any unpaid amount as provided in Minnesota Statutes, section 471.425.
4. **TERM AND TERMINATION.** This Agreement shall be effective as of the date of the last party to execute it and it shall continue in effect until December 31, 2020. This Agreement may be terminated by either party at any time, and for any reason, on five days’ written notice of termination. Upon termination, Contractor shall be compensated for all Services satisfactorily rendered through the effective date of termination.
5. **SUBSTITUTION AND ASSIGNMENT.** Services provided by Contractor shall be performed by Catherine Cesnik. Upon approval by the Commission, the Contractor may substitute other

persons to perform some identified portion of the Services set forth in this Agreement. However, no assignment of this Agreement shall be permitted without a prior written amendment signed by the Commission and the Contractor.

6. **AMENDMENTS.** This document, together with any attached exhibits, constitutes the entire Agreement between the parties and no modifications of its terms shall be valid unless reduced to writing and signed by both parties.
7. **INDEPENDENT CONTRACTOR.** Contractor (including Contractor's employees, if any) is not an employee of the Commission. Contractor will act as independent contractor and acquire no rights to tenure, workers' compensation benefits, unemployment compensation benefits, medical and hospital benefits, sick and vacation leave, severance pay, pension benefits or other rights or benefits offered to employees of the Commission. Contractor shall not be considered an employee of the Commission for any purpose including, but not limited to: income tax withholding; workers' compensation; unemployment compensation; FICA taxes; liability for torts; and eligibility for benefits.

Contractor will not be provided with a place of business and will retain control over the manner and means of the Services provided as an independent contractor. Contractor will provide, at Contractor's expense, necessary office space, transportation, computer capability, an internet email address, and incidental office supplies.

8. **DATA PRACTICES AND RECORDS.** All records, information, materials and other work product, in written, electronic, or any other form, developed in connection with providing Services under this Agreement shall be the exclusive property of the Commission. All such records shall be maintained with the records of the Commission or otherwise kept by Contractor, and shall be maintained in accordance with the instructions of the Commission. Contractor will comply with the Minnesota Government Data Practices Act and all other applicable state and federal laws relating to data privacy or confidentiality.
9. **COMPLIANCE WITH LAWS.** Contractor shall comply with all applicable federal, state and local laws, regulations or ordinances in performance of Contractor's duties hereunder, such laws including but not limited to those relating to non-discrimination in hiring or labor practices.
10. **AUDIT.** Contractor agrees that the Commission, the State Auditor, or any of their duly authorized representatives, at any time during normal business hours, after providing reasonable notice, and as often as they may reasonably deem necessary shall have access to and the right to examine, audit, excerpt, and transcribe any books, documents, papers, and records that are relevant to and involve transactions relating to this Agreement.
11. **HOLD HARMLESS.** Contractor shall defend, indemnify and hold harmless the Commission, its member cities and their elected officials, officers, employees, agents, and representatives, from and against any and all claims, costs, losses, expenses, demands, actions or causes of action, including reasonable attorneys' fees and other costs and expenses of litigation arising

out of any bodily injury, loss of life, property damages and any other damages related to Contractor's performance under this Agreement.

12. **APPLICABLE LAW.** The execution, interpretation, and performance of this Agreement will, in all respects, be controlled and governed by the laws of Minnesota.
13. **NO AGENCY.** Contractor is an independent contractor and shall not be considered to be the agent or servant of the Commission for any purpose and shall have no authority to enter into any contracts, create any obligations, or make any warranties or representations on behalf of the Commission.
14. **NOTICES.** Any notice or demand, authorized or required under this Agreement shall be in writing and shall be sent by certified mail to the other party as follows:

To the Contractor:

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To the Commission:

Shingle Creek Watershed Management Commission  
3235 Fernbrook Lane North  
Plymouth, MN 55447

IN WITNESS WHEREOF, the parties have executed this Agreement effective as of the date of the last party to execute it.

## CONTRACTOR

By: \_\_\_\_\_

Date: \_\_\_\_\_

# SHINGLE CREEK WATERSHED MANAGEMENT COMMISSION

By: \_\_\_\_\_  
Chair Date

By: \_\_\_\_\_  
Secretary Date

## EXHIBIT A

### West Metro Water Alliance Project Coordinator

Position Description  
August 2019

This position would serve at the discretion of the West Metro Water Alliance (WMWA) partners as a contractor (non-staff member) with an hourly rate and no benefits, under a contract with a defined duration.

Average hours per week: 8-10

#### Primary Job Duties:

1. Attend monthly WMWA partner meetings
2. Maintain the WMWA Education and Outreach Plan (amended 2015)
  - a. Consider and suggest updates and revisions to the plan in order to refine and focus on the WMWA mission
  - b. Periodically contact staff with member cities to determine existing or future educational gaps where WMWA work would be valued
3. Develop recommendations on core audiences, messages, and desired outcomes where WMWA should focus its work and budget
4. Develop potential projects and programs to advance the mission of WMWA
5. Carry out WMWA projects and programs as directed by the WMWA partners
6. Update and maintain WMWA website
7. Coordinate Metro Blooms workshops

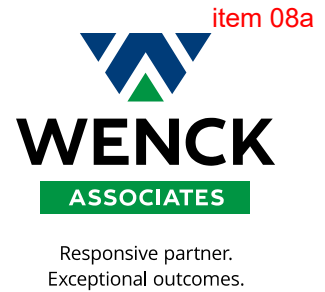
#### Additional Job Duties to Consider in the future:

1. Coordinate monthly WMWA meetings – secure location, develop agenda, send meeting notices, draft minutes
2. Develop proposed annual WMWA budget and workplan for consideration by WMWA partners
3. Receive and review reports from WMWA Educators and Outreach Consultant; summarize and present to WMWA partners
4. Receive and review reports from social media/outreach consultant; summarize and present to WMWA partners

#### Priority Tasks:

1. Review and update the 2015 WMWA Education and Outreach Plan
  - a. Contact staff with member cities to determine existing or future educational gaps where WMWA work would be valued
  - b. Determine how/if a survey of residents is needed to help focus WMWA and its work
2. Coordinate the fabrication of a “roots display” for use at future watershed/city/WMWA events

# Technical Memo



**To:** Shingle Creek/West Mississippi WMC Commissioners/TAC

**From:** Ed Matthiesen, P.E.      Brian Kallio, P.E.  
Diane Spector                  Sarah Nalven

**Date:** November 8, 2019

**Subject:** SRP Reduction Project 2019 Results

At the November 14, 2019 TAC and Commission meetings Brian Kallio will present the results of the first year of the SRP Reduction Project. The SRP project is a Section 319-funded research project. Sarah Nalven made a presentation at the July 11, 2019 meeting about the project purpose and details about the project design. Brian was the design engineer and devised the instrumentation installed to determine the effectiveness of the project and Sarah is heading up the monitoring portion of it.

As a reminder, the SRP Reduction Project is testing the effectiveness of three different filter media at reducing soluble reactive phosphorus (SRP) in outflow from Wetland 639W. SRP is the form of dissolved phosphorus that is most readily available to plants such as algae.

As you will recall from the July presentation, phase 1 of the project was installing a three-compartment filter box at the overflow weir of Wetland 639W (Figure 1). Each compartment is filled with a different medium. As will be detailed in the presentation, even given the extremely wet year, we have seen some interesting and very encouraging results. One of the media is performing significantly less well than the other two, and one that generally accepted literature says does poorly in saturated, low oxygen conditions is performing comparatively well. When taking volume of flow treated into account, we can estimate the load reduction, and one of the media provides a very reasonable cost per pound removed, while the worst-performing appears to be significantly more expensive per pound.

However, the monitoring conditions in 2019 have been very challenging, and this is not an average water year. Most of the high flow at the overflow weir bypassed the filter box and thus was not treated. At this point it is unclear if these results are representative of how the media perform, or whether we might see different results in a more average or even low-precipitation year. The grant project calls for two more years of monitoring.

Brian's presentation at the TAC will go into more technical and design detail, while the Commission presentation will focus on the results.





Low water  
conditions

Figure 2



**SHINGLE CREEK / WEST MISSISSIPPI WATERSHED MANAGEMENT COMMISSION**  
**MONTHLY COMMUNICATION LOG**  
**October 2019**

Date	From	To	SC	WM	Description
10-1-19	Ed M.	Scott Larson @ Second Harvest	X		Pond clean out on commercial property in Brooklyn Park
10-1-19	Laura Jester, BCWMC	Ed M and Diane S	X	X	Request to set up conference call to discuss joint WMO response to MPCA's questions on the need for manufactured treatment devices guidance. Call occurred October 3, see attached response letter
10-7-19	Tom Dillon @ McSharry Real Estate	Ed M.	x		Copy of project review for Parker Station Flats in Robbinsdale
10-7-19	Sarah Nalven	Bass Lake Improvement Association	X		Meet with the association and city to discuss results of the first year of alum application/veg management
10-14-19	Jeff Feulner, WSB	Diane S		X	Invitation to participate in a Stakeholders Meeting for the proposed River Park project
10-14-19	Maple Grove Arbor Committee	Ed M	X	X	Request to meet to better understand how managing trees can help with stormwater management
10-15-19	Mary Karius, HCEE	Diane S	X	X	Request to host a stop of the Hennepin County master water Stewards 2019 tour at the biochar filter project at North Lions Park in Crystal.
10-16-19	Jane Clary @ Wright Water Engineers	Ed M./Sarah N.	X	X	Water quality data information request
10-17-19	Tim Schwartz, MPCA	Diane S	X		Notice that he is starting to work with the Dept of Admin on contracting the Crystal Lake Mgmt Plan grant agreement
10-18-19	Claire Bleser, RPBCWD	Diane S	X	X	Request to distribute a link to an online survey for private salt applicators to gauge their knowledge, attitude, and practices.
10-22-19	Karen Galles, HCEE	Diane S	X	X	Email that County Board has approved the minor plan amendments and the levies
10-24-19	Hennepin County	Diane S	X	X	Notice that upcoming Natural Resources Partnership meeting will be a Train the Trainer session for the Lawns to Legumes campaign
10-26-19	Diane S, Ed M	HCEE	X	X	Hosted Master Water Steward candidates on site at the North Lions Park site to learn about biochar and iron-enhanced sand filters
10-30-19	Claire Bleser, RPBCWD	Diane S	X	X	Meeting invitation for Hennepin Chloride Partnership group update on december17. "The meeting will present the finding from the research and possible next steps. We also have begun work with Fortin to formalize the smart salting for property manager training manual. If you know of any applicators that might be interested in taking our survey please copy paste the below email template for distributions (60 already took the survey!). Looking forward to regrouping and sharing findings. <a href="https://umn.qualtrics.com/jfe/form/SV_eG01hKH5woSljSZ?RID=MLRP_5vzCU9A_NCvMdpYN&amp;Q_CHL=email">https://umn.qualtrics.com/jfe/form/SV_eG01hKH5woSljSZ?RID=MLRP_5vzCU9A_NCvMdpYN&amp;Q_CHL=email</a>



## Bassett Creek Watershed Management Commission

July 26, 2019

Mr. Mike Trojan  
Minnesota Pollution Control Agency  
520 Lafayette Road North  
St Paul, MN 55155

### Re: Verification and Certification of Stormwater Manufactured Treatment Devices (MTDs)

Dear Mr. Trojan:

The Bassett Creek Watershed Management Commission (BCWMC) and many other watershed districts and organizations (watersheds) across the metro area have seen an increase in the use of proprietary stormwater manufactured treatment devices (MTDs) proposed in development and redevelopment projects. Although some MTDs undergo testing and third party review, there are no widely accepted levels of treatment or pollutant removal efficiencies associated with these devices. Hence, the watersheds are forced to independently determine the pollutant removal efficiency of each device to evaluate whether a proposed project meets the watersheds' water quality standards.

The BCWMC and the watersheds listed below, recognize that this issue extends beyond our respective boundaries. We concluded that, ideally, there should be a nationwide, regional, or statewide program developed to evaluate and certify MTDs, including a determination of how the devices perform in Midwestern climates. In recognition of this need, we formally request that the MPCA take one of the following actions to address this issue at a broad level:

- 1) Cooperate with and support the implementation of the Water Environment Federation's (WEF) Stormwater Testing and Evaluation of Products and Practices (STEPP) verification program, currently under development. We prefer this option because the STEPP verification program is already well along in its development, it will be a nationwide program, and we understand that MPCA staff are already engaged in the program. Once implemented, the STEPP verification program would validate MTD performance; it would be up to the states (e.g., the MPCA) to certify the MTDs.
- 2) Develop its own statewide program for evaluating and certifying stormwater MTDs.

In either scenario, we also request that the MPCA include verified/certified MTDs in the Minnesota Stormwater Manual, if appropriate.

If you have questions, please contact me or any of the following watershed contacts to discuss.

Sincerely,

Handwritten signature of Laura Jester in blue ink.

Laura Jester  
Administrator,  
BCWMC

Handwritten signature of Randy Anhorn in blue ink.

Randy Anhorn  
Administrator, Nine  
Mile Creek WD

Handwritten signature of Tina Carstens in blue ink.

Tina Carstens  
Administrator,  
Ramsey Washington  
Metro WD

Handwritten signature of Claire Bleser in blue ink.

Claire Bleser  
Administrator,  
Riley Purgatory  
Bluff Creek WD

Handwritten signature of R. A. Polzin in blue ink.

R. A. Polzin  
Chair, Shingle  
Creek WMO

Handwritten signature of Gerald E. Butcher in blue ink.

Gerald E. Butcher  
Chair, West  
Mississippi WMO

c: Ryan Anderson, Minnesota Pollution Control Agency  
John Jaschke, Minnesota Board of Water and Soil Resources

**Diane F. Spector**

---

**From:** laura.jester@kestonewaters.com  
**Sent:** Friday, October 11, 2019 12:55 PM  
**To:** 'Trojan, Mike (MPCA)'  
**Cc:** 'Anderson, Ryan (MPCA)'; 'Jaschke, John (BWSR)'; 'Jim Prom, Plymouth City Council'; ranhorn@ninemilecreek.org; cbleser@rpbcd.org; 'Tina Carstens'; 'Judie Anderson'; Ed A. Matthiesen; Diane F. Spector; 'Josh Phillips'; Erik R. Megow  
**Subject:** RE: Requesting MPCA action on MTDs

**[CAUTION: This email originated from outside of the organization.]**

Hello Mike,

Thank you for your consideration of our request for MPCA action on verifying and/or certifying stormwater manufactured treatment devices (MTDs). Staff from several watersheds joined a conference call to discuss the issue and the questions you posed in your letter. Broadly, we believe there is significant benefit to all stakeholders (watersheds, cities, developers, and the State) to have a standardized approach for reviewing and permitting these devices across the Metro by having pollutant removals certified for each device. Without a standardized approach, it is overly burdensome for each permitting/reviewing entity to assume the responsibility for researching, and in many cases, testing and monitoring these devices on a case by case basis to ensure that water quality standards are being met.

We appreciate your attention to this matter. We believe a meeting with you would be beneficial to relay our experiences and to discuss the issue further. If you agree, please let me know and we can set up a time and place.

With regards to your specific questions, our responses are shown below.

1. Q: Are you requesting the MPCA acknowledge the legitimacy of MTDs approved through the STEPP, or are you asking the MPCA to take a more active role in development of the STEPP program?

A: Yes to both questions. We would like to see the MPCA take an active role in the development of the STEPP program, particularly since we recently learned the program is currently focused on verifying pollutant removals for TSS and that their work on verifying removals for total phosphorus (TP) may be several years down the road. Most of our stormwater management requirements revolve around TP removals rather than TSS. With MPCA involvement, perhaps the STEPP program coordinators would be compelled to move the TP verification work more quickly.

In addition, we request that the MPCA acknowledge the legitimacy of MTDs approved through the STEPP program and disseminate that information to regulating entities so they can stay informed on latest developments. We also request that the MPCA keep us apprised of the progress of the STEPP program, so that we do not need to individually follow the program.

2. Q: Are you looking for the MPCA to develop additional guidance or include additional information on MTDs in the manual? An example would be the information recently developed for pretreatment practices. (See <https://stormwater.pca.state.mn.us/index.php?title=Pretreatment>).

A: Yes – in the short term, providing additional guidance or information on MTDs in the stormwater manual would be helpful. A list of different devices and the pollutants they address would be helpful. The MPCA could

go one step further and report whether or not it accepts the pollutant removals of other programs such as the Washington Department of Ecology's TAPE program or the New Jersey Department of Environmental Protection's MTD approval program.

3. Q: How are MTDs being utilized (e.g. to meet permit requirements, to meet TMDL requirements, other)?

A: For the most part, MTDs are being used to meet permit requirements and development/redevelopment project requirements. They are sometimes used to meet NPDES construction stormwater or industrial stormwater site permits. They are becoming a common way to "fit" stormwater management into tight spaces in already developed urban areas, or to provide treatment where the soils are not conducive to infiltration. It's possible cities will use the pollutant reductions from MTDs in their reporting on TMDLs.

Laura Jester

Administrator

Bassett Creek Watershed Management Commission

[Laura.jester@keystonewaters.com](mailto:Laura.jester@keystonewaters.com) ~ Phone: 952-270-1990

[www.bassettcreekwmo.org](http://www.bassettcreekwmo.org)



Follow us on Facebook!

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**From:** Trojan, Mike (MPCA) <mike.trojan@state.mn.us>

**Sent:** Thursday, September 19, 2019 4:05 PM

**To:** laura.jester@keystonewaters.com

**Cc:** Anderson, Ryan (MPCA) <ryan.anderson@state.mn.us>; Jaschke, John (BWSR) <john.jaschke@state.mn.us>; Jim Prom, Plymouth City Council <jprom@plymouthmn.gov>; ranhorn@ninemilecreek.org; cbleser@rpbcwd.org; 'Tina Carstens' <tina.carstens@rwmwd.org>; 'Judie Anderson' <Judie@jass.biz>

**Subject:** RE: Requesting MPCA action on MTDs

Laura and others:

I apologize for the delay in responding to this request. I've attached a response drafted by our management and technical staff. If you would like a formal letter response, I can do that. If you have any questions or would like clarification on anything in the attachment, please feel free to contact me.

Mike Trojan

651-757-2790

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**From:** [laura.jester@keystonewaters.com](mailto:laura.jester@keystonewaters.com) <[laura.jester@keystonewaters.com](mailto:laura.jester@keystonewaters.com)>

**Sent:** Friday, July 26, 2019 10:59 AM

**To:** Trojan, Mike (MPCA) <[mike.trojan@state.mn.us](mailto:mike.trojan@state.mn.us)>

**Cc:** Anderson, Ryan (MPCA) <[ryan.anderson@state.mn.us](mailto:ryan.anderson@state.mn.us)>; Jaschke, John (BWSR) <[john.jaschke@state.mn.us](mailto:john.jaschke@state.mn.us)>; Jim Prom, Plymouth City Council <[jprom@plymouthmn.gov](mailto:jprom@plymouthmn.gov)>; [ranhorn@ninemilecreek.org](mailto:ranhorn@ninemilecreek.org); [cbleser@rpbcwd.org](mailto:cbleser@rpbcwd.org); 'Tina Carstens' <[tina.carstens@rwmwd.org](mailto:tina.carstens@rwmwd.org)>; 'Judie Anderson' <[Judie@jass.biz](mailto:Judie@jass.biz)>

**Subject:** Requesting MPCA action on MTDs

Hello Mike,

# MET COUNCIL AWARDS STORMWATER GRANTS TO LOCAL GOVERNMENTS

Posted In: [Wastewater & Water](#)

Date: 10/9/2019

0



The City of Minneapolis constructed a stormwater capture system on public works property in northeast Minneapolis. A stormwater management grant from the Council in 2017 supported the project. (Photo courtesy Mississippi Watershed Management Organization.)

On Oct. 9, the Metropolitan Council awarded a total of nearly \$500,000 in stormwater management grants to five cities, one county, and one watershed district. The grants will support projects at redevelopment sites. The Council received 15 grant applications requesting a total of more than \$1 million.

“Many parts of the metro area were developed before stormwater treatment was required,” explained Judy Sventek, Council Water Resources manager. “Stormwater management retrofits are often difficult due to site constraints.

“Our grants give local governments an incentive to add stormwater treatment as properties are redeveloped,” she said. “We’re funding projects that could be replicated throughout the region.”

## Projects use a variety of stormwater management techniques

Projects awarded in the 2019 grant round:

Village Green Stormwater and Community Garden Improvements — Fridley (\$100,000)

The project will enhance a degraded and undersized stormwater infiltration basin at an apartment complex, resulting in reduced phosphorus and suspended solids discharges into Rice Creek.

Stormwater Reuse for Downtown Centerville — Centerville (\$100,000)

The project will expand an existing stormwater reuse system to treat runoff from redevelopment in the city’s downtown area.

Autumn Ridge Participatory Landscape Design and Installation — Brooklyn Park (\$73,787)

The project will install up to 10 raingardens on a 17-acre, 366-unit affordable housing complex. The raingardens will capture roof runoff and address flooding on the highly impervious site.

**ECO Mosque — Hennepin County Public Works Department of Environment and Energy (\$75,000)**

The project will install a variety of stormwater management techniques to redirect water from a North Minneapolis-based mosque that is situated at a low point of property. The grant will help fund raingardens.

**St. Hubert Catholic School Stormwater Retrofit — Riley-Purgatory-Bluff Creek Watershed District**

(\$75,000) The project will retrofit a fully developed parcel in Chanhassen. Projects include installing tree trenches, stormwater storage, and parking lot improvements.

**County Road 8 Trail Improvements and Stormwater Reuse — Hugo (\$50,000)**

Following reconstruction of a trail, the project will reconnect an existing irrigation system in order to reuse stormwater from a pond, resulting in reduced phosphorus, decreased groundwater demand, and reduced water volumes downstream.

**Brooklyn Center Workforce and Senior Affordable Apartments — Brooklyn Center (\$25,000)**

The project will provide stormwater management at an apartment complex. It will result in stormwater runoff control that exceeds city and watershed requirements for the discharge rate leaving the site.

The 15 submitted grant applications were reviewed and ranked, based on published criteria, by a mixed internal and external panel. “All the applications were good projects,” said Joe Mulcahy, Council scientist who served on the panel. “We wish we had enough resources to fund all of them.”

<https://metro council.org/News-Events/Wastewater-Water/Newsletters/Stormwater-grants-2019.aspx>

**From:** Conservation Corps Minnesota & Iowa <brian.miller@conservationcorps.org>

**Sent:** Tuesday, October 15, 2019 1:09 PM

**To:** Judie Anderson <Judie@jass.biz>

**Subject:** Clean Water Funds available for 2020



## REQUEST FOR PROPOSALS

### CLEAN WATER FUNDS AVAILABLE FOR CREW LABOR

**Conservation Corps Minnesota & Iowa is accepting applications for 2020 field projects.**

Funds are available for Conservation Corps crew labor on projects that protect, enhance and restore water quality in lakes, rivers and streams or protect groundwater and drinking water sources from degradation. Projects must be scheduled for completion during the 2020 calendar year.



The Legislature has directed the **Board of Soil and Water Resources (BWSR)** to appropriate \$500,000 of the Clean Water Fund to be contracted for services with Conservation Corps.

BWSR has contracted with the Corps to provide funded labor to cities, counties, soil and water conservation districts, watershed districts, metropolitan watershed management organizations, and joint powers organizations of those local government units to undertake projects consistent with the Corps mission, BWSR grant policies, and Clean Water Fund goals (Laws of Minnesota, Chapter 172, section 6).

**Apply by December 15, 2019**

[Click here for an application and more information.](#)

*\* Please note that we have moved to an on-line request form and no longer use the [cleanwater@conservationcorps.org](mailto:cleanwater@conservationcorps.org) e-mail address for submissions*

Contact [Brian Miller](#) at 651.209.9900 x 19 with questions.



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You are receiving this email because you may be a project partner with Conservation Corps Minnesota & Iowa.

**Our mailing address is:**

Conservation Corps Minnesota & Iowa  
60 Plato Blvd E, Ste 210  
St. Paul, MN 55107